AECOM
9400 Amberglen Blvd.
Austin, Texas 78729
(512) 472-4519
Fax (512) 472-7519
www.aecom.com

TRANSMITTAL

To: Eleanor Wehner, PG
VCP-Corrective Action Section
Texas Commission on Environmental Quality
Mail Code 127, Building D
P.O. Box 13087
Austin, Texas 78711-3087

Date: 08/31/2017

Re: Affected Property Assessment Report
City of Galveston Old Municipal Incinerator Site
#3 Lennox, Galveston, Texas 77551
Voluntary Cleanup Program No. 1962
CN600241376; RN102450095

Job No.: AECOM Project No. 60420789

Transmitted By: Hand Delivery and
E-mail to Eleanor.Wehner@tceq.texas.gov

We are sending you the following:

Copies	Date	Description
1	August 31, 2017	Affected Property Assessment Report (APAR), City of Galveston Old Municipal Incinerator Site, Galveston, Texas (one electronic copy via email and one hard copy via regular mail).
1	August 31, 2017	Affected Property Assessment Report (APAR), City of Galveston Old Municipal Incinerator Site, Galveston, Texas (one electronic copy via CD-ROM/DVD).

Dear Ms. Wehner,

On behalf of the Texas General Land Office (GLO), please find enclosed the APAR for the above referenced Site. As discussed, due to Hurricane Harvey, the signatory pages of the document will be transmitted to you separately at a later date. We appreciate your review of the information provided herein. If you have any questions regarding the information provided in the APAR or need further information, please do not hesitate to call me at 512-457-7747.

Very truly yours,

Douglas E. Zarker, PG
Project Manager
Doug.Zarker@aecom.com

Copies To: Mr. Jason Ybarra, Section Manager, TCEQ Region 12, Houston, TX (1 hard copy)
Ms. Maureen Mahoney – Coastal Protection Division, GLO, Austin, TX (1 hard copy)
Mr. Ross E. Blackketter, PE – Director of Capital Projects, City of Galveston, TX (1 hard copy)
Project File

Texas Commission on Environmental Quality

Remediation Division Correspondence Identification Form

SITE & PROGRAM AREA IDENTIFICATION

SITE LOCATION				REMEDIATION DIVISION PROGRAM AND FACILITY IDENTIFICATION	
Site Name:	**Old Municipal Incinerator Site**			Is This Site Being Managed Under A State Lead Contract? ☐ Yes ☑ No	
Address 1:	**#3 Lennox Avenue**			Program Area:	**VOLUNTARY CLEANUP PROGRAM**
Address 2:				Mail Code:	**MC-221**
City:	**Galveston**	State:	**Texas**	Is This A New Site To This Program Area? ☐ Yes ☑ No	
Zip Code:	**77551**	County:	**Galveston**	**VCP No.:**	**1962**
TCEQ Region:	**Region 12 - Houston**			**--Leave This Field Blank--**	**--Leave This Field Blank--**

DOCUMENT(S) IDENTIFICATION

PHASE OF REMEDIATION	DOCUMENT NAME
1. **ASSESSMENT**	**AFFECTED PROPERTY ASSESSMENT REPORT (APAR)**
2.	
3.	
4.	
5.	

CONTACT INFORMATION

RESPONSIBLE PARTY/APPLICANT/CUSTOMER

Name: **Brian Maxwell**
Company: **City of Galveston** Phone Number: **409-797-3520** Fax Number:
Address 1: **823 Rosenberg** City: **Galveston** State: **TX** Zip Code: **77553**
Address 2: Email Address: **citymanager@galvestontx.org**

ENVIRONMENTAL CONSULTANT/REPORT PREPARER/AGENT

Name: **Doug Zarker**
Company: **AECOM** Phone Number: **512-457-7747** Fax Number: **512-454-8807**
Address 1: **9400 Amberglen Boulevard** City: **Austin** State: **TX** Zip Code: **78729**
Address 2: Email Address: **doug.zarker@aecom.com**

TCEQ INTERNAL USE ONLY

Document No.	TCEQ Database Term	Document No.	TCEQ Database Term
1.	**APAR**	4.	
2.		5.	
3.			

APAR Table of Contents[1]	Check if included
Cover Page	√
Professional Signatures and Seals	√
Executive Summary	√
Conclusions and Recommendations	√
Chronology	√
Specialized Submittals Checklist	√
Section 1 Property Information	
Discussion of site operations, release sources, and geology/hydrogeology	√
Table 1A - Sources of Release	√
Table 1B - Potential Off-Site Sources	
Figure 1A - On-Site Property Map*	√
Figure 1B - Affected Property Map*	√
Figure 1C - Regional Geologic Map*	√
Figure 1D - Regional Geologic Cross Section(s)*	√
Section 2 Exposure Pathways and Groundwater Resource Classification	
Discussion of potential receptors, groundwater classification, and exposure pathways	√
Table 2A - Water Well Summary	
Table 2B - Affected Water Well Summary	
Table 2C - Complete or Reasonably Anticipated to be Complete Exposure Pathways	√
Figure 2A - Potential Receptors Map*	√
Figure 2B - Field Survey Photographs*	√
Figure 2C - Water Well Map*	
Attachment 2A - Tier 1 Ecological Exclusion Criteria Checklist	√
Attachment 2B - Tier 1 Ecological Exclusion Criteria Supporting Documentation*	√
Section 3 Assessment Strategy	
Discussion of assessment strategies	√
Table 3A - Underground Utilities	√
Section 4 Soil Assessment	
Discussion of nature and extent of COCs in soil	√
Table 4A - Surface Soil Residential Assessment Levels with no Ecological Component	√
Table 4B - Surface Soil Residential Assessment Levels with Ecological Component	
Table 4C - Subsurface Soil Residential Assessment Levels	
Table 4D - Soil Data Summary*	√
Table 4E - Soil Geochemical/Geotechnical Data Summary*	
Figure 4A - Surface Soil COC Concentration Maps*	√
Figure 4B - Subsurface Soil COC Concentration Maps*	
Figure 4C - Cross Sections*	√
Section 5 Groundwater Assessment	
Discussion of nature and extent of COCs in groundwater	√
Table 5A - Groundwater Residential Assessment Levels	√
Table 5B - Groundwater Data Summary*	√
Table 5C - Groundwater Geochemical Data Summary*	
Table 5D - Groundwater Measurements*	
Figure 5A - Groundwater Gradient Map*	√
Figure 5B - Groundwater COC Concentration Maps*	√
Figure 5C - Groundwater Geochemistry Maps*	
Figure 5D - Cross Section Groundwater-to-Surface Water Pathway*	√

[1] Items marked with an asterisk do not have prescribed formats (for example, laboratory reports).

	Check if included
Section 6 Surface Water Assessment and Critical PCL Development	
Discussion of nature and extent of COCs in surface water	
Table 6A - Surface Water Critical PCLs	
Table 6B - Surface Water Data Summary*	
Figure 6A - Surface Water PCLE Zone Map*	
Figure 6B - Photographs*	
Section 7 Sediment Assessment and Critical PCL Development	
Discussion of nature and extent of COCs in sediment	
Table 7A - Sediment Critical PCLs	
Table 7B - Sediment Data Summary*	
Figure 7A - Sediment PCLE Zone Map*	
Section 8 Air Assessment and Critical PCL Development	
Discussion of the nature and extent of COCs in outdoor air	
Table 8A - Outdoor Air Data Summary*	
Figure 8A - Outdoor Air COC Concentration Maps*	
Section 9 Ecological Risk Assessment	
Discussion of ecological risk assessment, expedited stream evaluation, and/or reasoned justification. Copies of SLERA or SSERA.	
Section 10 COC Screening	
Discussion of COC screening process and results	√
Table 10A - COC Screening Summary Table	√
Section 11 Soil Critical PCL Development	
Discussion of soil critical PCL evaluation	√
Table 11A - Surface Soil Critical PCLs (On-Site/Off-Site)	√
Table 11B - Subsurface Soil Critical PCLs (On-Site/Off-Site)	
Figure 11A - Surface Soil PCLE Zone Maps*	√
Figure 11B - Subsurface Soil PCLE Zone Maps*	
Figure 11C - Cross Sections of the PCLE Zone*	√
Section 12 Groundwater Critical PCL Development	
Discussion of groundwater critical PCL evaluation	√
Table 12A - Groundwater Critical PCLs - Full Plume POE*	√
Table 12B - Groundwater-to-Surface Water PCLs	√
Table 12C - Groundwater-to-Sediment PCLs	√
Table 12D - Groundwater Critical PCL Evaluation - Surface Water/Sediment Discharge POE	√
Figure 12A - Groundwater PCLE Zone Map*	√
Section 13 Notifications	
Discussion of notifications conducted	√
Table 13A - Notification Summary	√
Figure 13A - Notification Map*	√
Appendices	
Appendix 1 Notifications*	√
Appendix 2 Boring Logs and Monitor Well Completion Details*	√
Appendix 3 Monitor Well Development and Purging Data*	
Appendix 4 Registration and Institutional Controls*	√
Appendix 5 Water Well Records*	√
Appendix 6 Monitor Well Records*	
Appendix 7 Aquifer Testing Data*	
Appendix 8 Statistics Data Tables and Calculations*	
Appendix 9 Development of Non-Default RBELs and PCLs*	
Appendix 10 Laboratory Data Packages and Data Usability Summary*	√
Appendix 11 Miscellaneous Assessment*	
Appendix 12 Waste Characterization and Disposition Documentation*	√
Appendix 13 Photographic Documentation*	√
Appendix 14 Standard Operating Procedures*	
Appendix 15 OSHA Health and Safety Plan (§350.74(b)(1))*	
Appendix 16 Reference List*	√

Cover Page

Program ID No. (primary): 1962 (VCP) Report date: August 31, 2017
TCEQ Region No.: Region 12 MSD Certificate No.: 333
Additional Program ID Numbers.: SWR/Facility ID No.: PST Facility ID No.:
DCRP ID No.: VCP ID No.: 1962 LPST ID No.:
MSW Tracking No.: HW Permit/CP No.: Enforcement ID No.:
Other ID Nos.:

Reason for submittal (check all that apply):
☐ Initial submittal
☒ Revision

Notice of Deficiency Letter
Permit/Compliance Plan
Voluntary response

Enforcement/Agreed order
Directive/NOV letter
Other:

On-Site Property Information

On-Site Property (Facility) Name: Old Municipal Incinerator Site (City of Galveston)
Street no. #3 Pre dir: Street name: Lennox Street type: Avenue Post dir:
City: Galveston County: Galveston County Code 084 Zip 77551
Nearest street intersection and location description: Broadway (I-45) and 59th Street

Latitude: Decimal Degrees (indicate one) North 29°17'30"
Longitude: Decimal Degrees (indicate one) West 94°50'10"

Contact Person for On-Site Property Information and Acknowledgment

Company Name or Person: City of Galveston
Contact Name: Brian Maxwell Title: City Manager
Mailing Address: 823 Rosenberg
City: Galveston State: Texas Zip: 77553 Phone: 409-797-3520
Email: citymanager@galvestontx.gov Fax: N/A
Person is: ___ property owner ___ property manager ___ potential purchaser ___ tenant X operator
other

By my signature below, I acknowledge the requirement of §350.2(a) that no person shall submit information to the executive director or to parties who are required to be provided information under this chapter which they know or reasonably should have known to be false or intentionally misleading, or fail to submit available information which is critical to the understanding of the matter at hand or to the basis of critical decisions which reasonably would have been influenced by that information. Violation of this rule may subject a person to the imposition of administrative, civil, or criminal penalties.

Signature of Person Name (print): Brian Maxwell Date: August 31, 2017

Consultant Contact Person

Consultant Company Name: AECOM Technical Services, Inc. (AECOM)
Contact Person: Douglas E. Zarker, PG Title: Project Manager
Mailing Address: 9400 Amberglen Boulevard
City: Austin State: TX Zip: 78729
Phone: 512.457.7747 Fax: 512.454.8807 E-mail address doug.zarker@aecom.com

Professional Signatures and Seals

Professional Geoscientist

Robert A. Schafer	3066	September 30, 2017
Professional Geoscientist	Geoscientist License number	Expiration date
Signature	August 30, 2017 Date	
512.419.6156	512.454.8807	bob.schafer@aecom.com
Telephone number	FAX number	E-mail

Professional Engineer

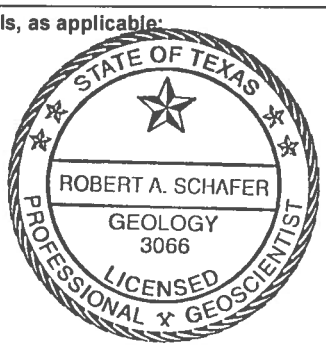
Professional Engineer	P.E. License number	Expiration date
Signature	Date	
Telephone number	FAX number	E-mail

Registered Corrective Action Specialists (RCASs) and Corrective Action Project Managers (CAPMs)

For LPST sites only.

Registered Corrective Action Specialist	RCAS Registration number	Expiration date
Signature	Date	
Corrective Action Project Manager	CAPM Registration number	Expiration date
Signature	Date	
Telephone number	FAX number	E-mail

Seals, as applicable:



Executive Summary

Environmental Media	Actual or Probable Exposures On-Site?		Actual or Probable Exposures Off-Site?		Have notifications for actual or probable exposures been completed? (§350.55(e))		
	Yes	No	Yes	No	Yes	No	N/A
Soil	√		√		√*		
Groundwater	√		√				√
Sediment							
Surface Water							

Is there, or has there been, an affected or potentially affected water well? ____Yes √ No

If yes, what is the well used for? _____

Actual land use: On-site: Res √ C/I Off-site affected property: √ Res √ C/I N/A

Land use for critical PCL determination: On-site: Res √ C/I Off-site affected property: √ Res √ C/I N/A

Did the affected property pass the Tier 1 ecological exclusion criteria checklist? √ Yes _____No

Affected groundwater-bearing unit(s) (in order from depth below ground surface), or uppermost groundwater-bearing unit if none affected

Unit No.	Name	Depth below ground surface (ft)	Resource Classification (1, 2, or 3)
1	Recent Alluvium and Beach Sand/Fill	2 – 5	Class 1/Class 2(default)
2			
3			

Assessment

Environmental Media		Assessment Levels Exceeded?						Affected property defined to RAL?			Is COC extent stable or expanding?	General classes of COCs (VOCs SVOCs, metals, etc.)
		On-Site?			Off-Site?							
		Yes	No	Not sampled	Yes	No	Not sampled	Yes	No	N/A		
Soil	Surface	√			√			√			Stable	Metals, PAHs, TPH
	Subsurface			√			√			√	N/A	N/A
Groundwater			√			√				√**	N/A	N/A
Sediment												
Surface Water												

* - Notification of actual or probable exposure to COCs in soil above the critical Protective Concentration Levels (cPCLs) was provided to landowners and residents within the affected property with the submittal of the APAR that was previously issued to the TCEQ on January 14, 2016.

** - Municipal Setting Designation No. 333 approved January 4, 2017; therefore, $^{GW}GW_{Ing}$ PCL is incomplete and the groundwater inahalation PCL becomes the RAL. There are no RAL groundwater exceedances.

NAPL Occurrence Matrix

	NAPL Occurrence		Description
NAPL in vadose zone	√	No NAPL in vadose zone	There is no direct or indirect evidence of NAPL in the vadose zone
		NAPL in/on soil	NAPL detected in or on unsaturated, unconsolidated clay-, silt-, sand-, and/or gravel-dominated soils
		NAPL in fractured clay	NAPL detected in fractures of unsaturated fine-grained soils
		NAPL in fractured or porous rock	NAPL detected in unsaturated lithologic material
		NAPL in karst	NAPL detected in karst environment
NAPL at capillary fringe	√	No NAPL at capillary fringe	There is no direct or indirect evidence of NAPL at the capillary fringe
		NAPL at capillary fringe	NAPL detected at vadose-saturated zone transition, capillary fringe (in contact with water table)
NAPL in saturated zone	√	No NAPL in saturated zone	There is no direct or indirect evidence of NAPL in the saturated zone
		NAPL in soil	NAPL detected in saturated unconsolidated clay-, silt-, sand-, and/or gravel-dominated soils
		NAPL in fractured clay	NAPL detected in fractures of saturated fine-grained soil or other double-porosity sediments
		NAPL in saturated fractured or porous rock	NAPL detected in saturated lithologic material
		NAPL in saturated karst	NAPL detected in karst environment within the saturated zone
NAPL in surface water or sediment	√	No NAPL in surface water or sediment	There is no direct or indirect evidence of NAPL in surface water or sediments
		NAPL in surface water	NAPL detected in surface water at exceedance concentration levels or visual observation
		NAPL in sediments	NAPL detected in sediments at exceedance concentration levels or visual observation via migration pathway or a direct release

Remedy Decision

Environmental Media		Critical PCL exceeded on-site?			Critical PCL exceeded off-site?			PCLE zones defined?			General class (VOCs, SVOCs, metals, etc.) of COCs requiring remedy
		Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	
Soil	Surface	√			√			√			Metals, PAHs, TPH
	Subsurface			√			√			√	
Groundwater			√+			√+				√+	N/A
Sediment											
Surface Water											

+ - MSD Certificate No. 333 was issued for the Site by the TCEQ on January 4, 2017.

NAPL Triggers

NAPL Response Action Triggers		Description of Triggers
√	No NAPL response action triggers	No NAPL triggers have been observed in any assessment zones (vadose, capillary fringe and saturated), nor in surface water or sediments
	NAPL vapor accumulation is explosive	NAPL vapors accumulate in buildings, utility and other conduits, other existing structures, or within anticipated construction areas at levels that are potentially explosive (≥ 25% LEL)
	NAPL zone expanding	NAPL zone is observed to be expanding using time-series data
	Mobile NAPL in vadose zone	NAPL zone is observably mobile, or is theoretically mobile based on COC concentrations and residual saturation
	NAPL creating an aesthetic impact or causing nuisance condition	NAPL is responsible for objectionable characteristics (e.g., taste, odor, color, etc.) resulting in making a natural resource or soil unfit for intended use
	NAPL in contact with Class 1 groundwater	NAPL has come in actual contact with saturated zone or capillary fringe of a Class 1 GWBU
	NAPL in contact with Class 2 or 3 groundwater	NAPL has come in actual contact with saturated zone or capillary fringe of a Class 2 or Class 3 GWBU
	NAPL in contact with surface water	Liquid containing COC concentrations that exceed the aqueous solubility in contact with surface water via various migration pathways or direct release to surface water
	NAPL in or on sediments	Liquid containing COC concentrations that exceed the aqueous solubility impact surface water sediments via migration pathway or a direct release

Conclusions and Recommendations

The affected environmental media associated with the City of Galveston (CoG) Old Municipal Incinerator Site (the Site) are surface soil (Commercial/Industrial [C/I] < 5 feet (ft) below ground surface (bgs); Residential < 15 ft bgs) and shallow groundwater in the uppermost Groundwater-Bearing Unit (GWBU). This Affected Property Assessment Report (APAR) addresses soil and groundwater. In 2015, the TCEQ concurred in principal with AECOM's strategy to pursue a Municipal Setting Designation (MSD) and a MSD certificate was issued for the Site in January 2017.

Assessment Results

The chemicals of concern (COCs) reported above the critical Protective Concentration Levels (cPCLs) in surface soil at the Site are:

- Metals (mainly lead and arsenic, with a few mercury, antimony and cadmium exceedances);
- Polycyclic aromatic hydrocarbons (PAHs) – mainly benzo(a)pyrene, with fewer exceedances of benzo(a)anthracene, benzo(b)fluoranthene, dibenz-a,h-anthracene, and indeno(1,2,3-cd)pyrene.
- Total Petroleum Hydrocarbons (TPH).

Figure A shows the extent of the affected property and the protective concentration level exceedance (PCLE) zones for metals, PAHs, and TPH.

The TCEQ issued MSD Certificate No. 333 for the Site on January 4, 2017. A groundwater assessment was completed and there are no groundwater COC exceedances associated with the Site, following the issuance of MSD No. 333.

NAPL Discussion

No non-aqueous phase liquid (NAPL) was detected during this Affected Property Assessment (APA) or in previous investigations at the Site.

Response Actions and Recommendations

A response action appears appropriate for surface soil, because COC concentrations exceed the cPCLs for C/I land use at the Site and the cPCLs for both C/I and residential land use, as appropriate, at multiple, adjacent off-site properties.

On-Site:

The main COCs that will need to be addressed by the response action for the on-site property are arsenic, lead, mercury, and TPH. TPH was encountered only in the surface soil sampled in the immediate vicinity of the existing above-ground storage tank (AST) on the Site. Potential on-site receptors for COCs in surface soil are Site visitors, workers, and/or trespassers who may be exposed through inhalation, ingestion, and/or dermal contact with affected surface soil.

Off-Site:

In the off-site residential area east of the Site (along Lennox Avenue), lead and benzo(a)pyrene are the main COCs that will drive remedy selection. Lead is the only metal COC that exceeds the C/I cPCL in samples collected from the C/I off-site properties and it is only in two isolated samples. Potential off-site

receptors are workers and visitors to C/I businesses and owners/occupants of residences in areas adjacent to (east of) the on-site property.

The CoG passed an ordinance for approving individual MSDs in 2015 and the MSD application form was approved for use in the official CoG process of approving MSDs in November 2015. A Remedy Standard B response action (Institutional Control [IC]) for affected shallow groundwater associated with the Site has been approved through MSD No. 333. A copy of the MSD Certificate is included in Appendix 4 of this APAR.

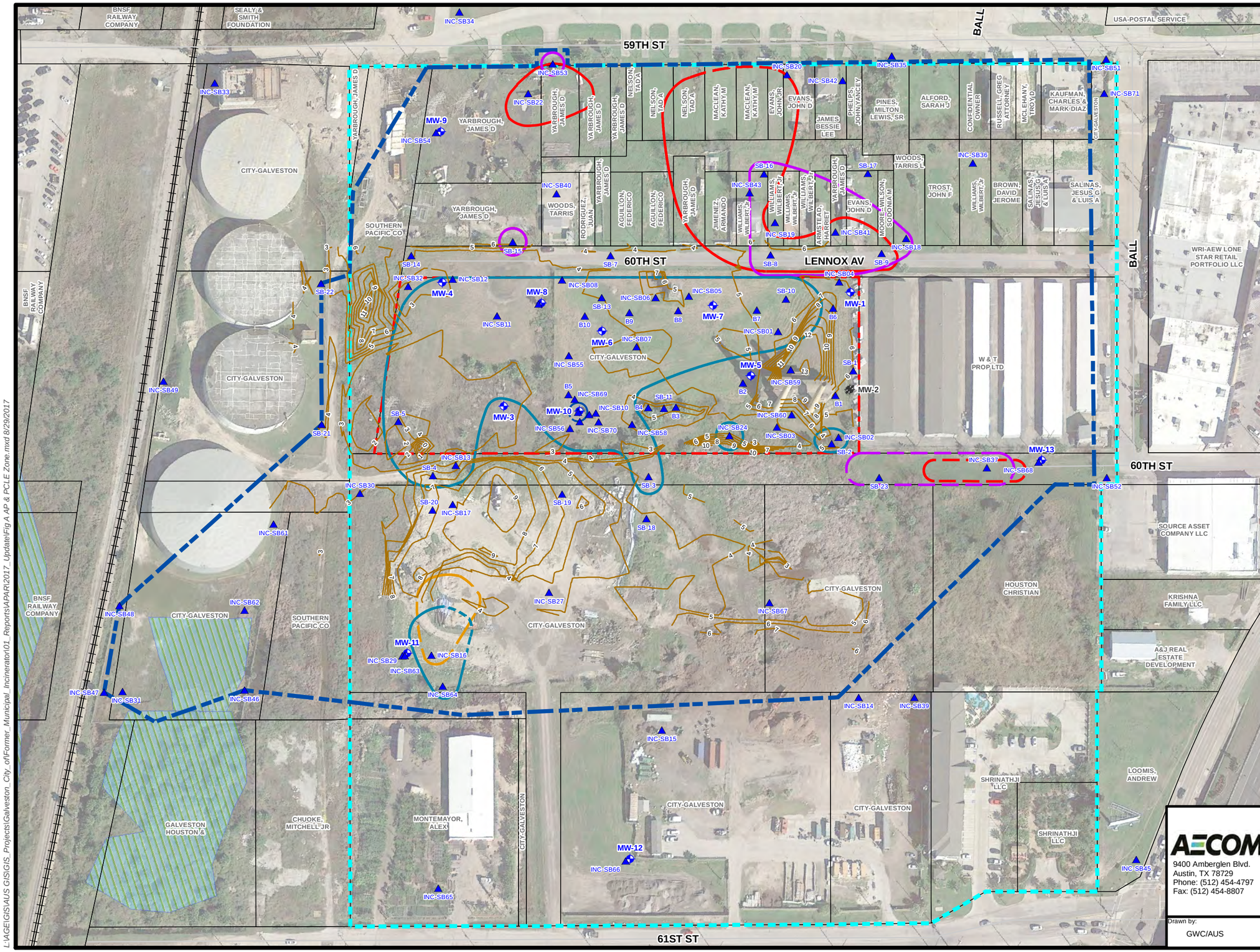
In addition, the TCEQ conditionally approved an Interim Response Action Plan (RAP) for the Site on October 24, 2016. The conditional approval allows demolition of the existing incinerator structure, removal of the fire training tower and the AST, and installing a cap (concrete, ashphalt, or clay) across the entire surface of the Site. An IC will also be placed on the Site to ensure protective use of the property and to provide permanent notice to subsequent owners/operators that residual COCs are present at the affected property above the PCL. The IC will document the specifics of the cap, provide information on the highest concentrations of COCs, provide information on potential ash left mixed with soil, and to document that the Site can only be used for commercial/industrial purposes. The conditions TCEQ provided in the October 24, 2016 approval letter include the following:

1. Development of a site-specific Dust Monitoring and Management Plan
2. Minimum overall permeability of $1x10^{-7}$ cm/sec or less requirement
3. Specific institutional control language
4. Revised RAP Worksheet 3.0 including long term cap repair and maintenance information
5. Post-demolition confirmation soil sampling.

Response actions and cleanup levels for off-site residential and C/I affected soil will be determined once an agreement between the CoG and the affected private property owners is reached regarding future land use of these properties. A Final RAP will be developed by AECOM on behalf of the CoG to document the proposed response actions.

FIGURE A

AFFECTED PROPERTY AND PCLE ZONE MAP



Legend

- On-Site Property Boundary
- Municipal Setting Designation (MSD) Boundary (No. 333)
- Overall Affected Property Boundary/ PCLE Zone (Tier I RAL)
- Real Estate Parcel
- Wetland (USFWS, 2012)
- Railroad Track
- Commercial/Industrial $^{Tot}Soil_{Comb}$ PCLE Zone for Metals (Dashed Where Inferred)
- Residential $^{Tot}Soil_{Comb}$ PCLE Zone for Metals (Dashed Where Inferred)
- Commercial/Industrial $^{Tot}Soil_{Comb}$ PCLE Zone for PAHs (Dashed Where Inferred or Where Access Restrictions Prevented Further Step-Out Sampling)
- Residential $^{Tot}Soil_{Comb}$ PCLE Zone for PAHs (Dashed Where Inferred or Where Access Restrictions Prevented Further Step-Out Sampling)
- Commercial/Industrial $^{Tot}Soil_{comb}$ PCLE Zone for TPH (Dashed Where Inferred)
- Surface Elevation Contour (Feet Mean Sea Level)
- Monitoring Well Location
- Monitoring Well Location (Decommissioned)
- Soil Sample Location
- RAL Residential Assessment Level

STATE OF TEXAS
ROBERT A. SCHAFER
GEOLOGY
3066
LICENSED
PROFESSIONAL GEOSCIENTIST
8-29-17

150 75 0 150
Feet

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

Client: City of Galveston

Report: Affected Property Assessment Report

Title: **Affected Property and PCLE Zone Map**

Drawn by:	Date:	GIS File:	Figure:
GWC/AUS	8/29/2017	Fig A AP & PCLE Zone	A

L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Fig A AP & PCLE Zone.mxd 8/29/2017

Chronology

Old Municipal Incinerator Site, Galveston, Texas

June 2015 – Ongoing	AECOM initiated field activities for an APA at the Site in June 2015. An APAR for the Site was submitted on January 14, 2016. TCEQ provided comments via correspondence dated April 28, 2016 and October 24, 2016. A revised APAR has been submitted to address the comments and data gaps in August 2017.
September 2015 – January 2017	AECOM prepared a MSD ordinance application for the CoG, which was approved by City Council. The MSD Certificate No. 333 was executed by the TCEQ on January 4, 2017.
March 2014 and September 2014	EFI Global collected supplemental soil samples for analysis of site-specific COCs. The resulting data did not fully delineate the lateral extent of affected surface soil to the Tier 1 RALs ($^{Tot}Soil_{Comb}$ PCLs). The EFI Global report also indicated that previously reported exceedances of pesticides in soil and groundwater samples (Meridian, March 2006) were actually a mistake resulting from misinterpreting the units reported by the lab (micrograms [µg]) as milligrams [mg]). Therefore, pesticides are not site-specific COCs.
September 2006	The Site was accepted into the TCEQ Voluntary Cleanup Program (VCP) on September 18, 2006 and was assigned VCP No. 1962.
March 2006	Meridian prepared and submitted a Phase II Environmental Site Assessment (ESA) APAR for the Site to support the CoG Brownfields Site Assessment Pilot Project for commercial redevelopment of the Site. The Phase II ESA APAR concluded that the shallow GWBU at the Site meets the criteria for a Class I groundwater resource, based on indirect evidence. Metals and pesticides were identified as groundwater COCs that were detected above the Tier 1 RALs ($^{GW}GW_{Ing}$ PCLs). Metals, SVOCs, and pesticides were identified as COCs in surface soil, some of which were detected at concentrations above the Tier 1 RALs ($^{Tot}Soil_{Comb}$ PCLs). Subsurface soil and surface water/sediment exposure pathways were determined to not be complete. The extent of affected groundwater and soil were not defined by the data presented in the Phase II ESA APAR.
April 2003	Meridian prepared and submitted a Phase I ESA to support the CoG Brownfields Site Assessment Pilot Project for commercial redevelopment of its 61st Street properties, including the Site, which is designated Lot E in the report. The Phase I ESA included reviews of historical documents and regulatory databases, and visual inspections. The report concluded there was a high level of uncertainty and environmental concern associated with the Site (Lot E) and a Phase II ESA was recommended. It also recommended that the Site should be entered into the VCP.
August 2000	Texas Natural Resource Conservation Commission (TNRCC), now TCEQ, approved the Site (Petroleum Storage Tank [PST] Facility ID No. 58735/Leaking Petroleum Storage Tank [LPST] Identification [ID] Number [No]. 99366) for closure under the PST Program.
1999	BNC Environmental Services, Inc. (BNC) was retained by CoG to prepare and submit a *Release Determination Report* to the TNRCC. Soil samples were collected from 17 borings and groundwater grab samples were collected from five of the boreholes. The report recommended site closure, based on the then current site use and generally low levels of hydrocarbon contamination detected in the soil and groundwater samples from the Site (below PST Program Plan A Category II and default construction worker levels).
April 1993	Above-ground storage tank (AST) Nos. 1 through 4 were removed from the Site.

June 1992	Vulcan Environmental Services Corporation was retained by CoG to collect soil samples from the Site. Samples were collected above the water table at a depth of approximately 3 ft bgs from three borings located west of the fire training area. TPH and lead were detected above the Texas Water Commission (TWC), now TCEQ, minimal acceptable levels.
June 1991 – August 1991	TWC requested that CoG provide an incident report and documentation demonstrating soil contamination from the release was removed. CoG developed and implemented plans to remove the contents of the ASTs and clean up the contaminated soil from the spills. The Galveston Fire Department, which owned the ASTs, registered them with TWC. In July, U.S. Environmental Protection Agency (EPA) inspectors visited the Site and collected samples of the AST contents, stormwater runoff, and soil beneath one of the tanks. The EPA sample results indicated PCBs that were previously reported in samples collected by EmTech were misidentified and were actually toxaphene.
May 1991	CoG reported a hydrocarbon release from the AST system used to store waste fuels and PCB oils for fire training exercises to the TWC.
1965 – 1980s	The CoG Fire Department used the Site for fire fighter training exercises. Five ASTs were used for on-site storage of combustibles to fuel the fires. These may have included gasoline, alcohol-blended fuel, aviation gasoline, kerosene, diesel and distillate fuel oil, PCB oils, and later, propane.
1949 - 1953	The Old Municipal Incinerator (also known as the Old City Landfill and Old City Dump) was used from 1949 through 1953 to burn municipal solid waste and possibly some medical waste. Ash from the incinerator is believed to have been spread on the ground surface at the Site.

Specialized Submittals Checklist

√ **Check here if no specialized submittals in this report**

	If included, specify section or appendix
Ecological Risk Assessment	
Reasoned justification, expedited stream evaluation, Tier 2 or 3 ecological risk assessment, and/or proposal for ecological services analysis	
Statistics	
Calculated site-specific background concentrations	
Used alternate statistical methods to determine proxy values for non-detected results (§350.51(n))	
Calculated representative concentrations (§350.79(2)) for remedy decision	
Analytical Issues	
Used SQL for assessment or critical PCL instead of the MQL (§350.51(d)(1)) or PCL (§350.79)	
The MQL of the analytical method exceeds assessment levels/critical PCLs (§350.54(e)(3))	
Human Health/Toxicology	
Variance to exposure factors approved by TCEQ Executive Director[1] (§350.74(j)(2))	
Developed PCLs based on alternate exposure areas	
Evaluated non-standard exposure pathway (e.g., agricultural, contact recreation, etc)	
Combined exposure pathways across media for simultaneously exposed populations (§350.71(j))	
Adjusted PCLs due to residual saturation, cumulative risk, hazard index, aesthetic concerns, or theoretical soil vapor	
Utilized non-default human health RBELs to calculate PCLs (includes use of non-default parameters, toxicity factors not published in rule, etc.) (§350.51(l), §350.73, §350.74)	
Calculated Tier 2 or 3 RBELs/PCLs or TSCA levels for polychlorinated biphenyls, or calculated Tier 2 or 3 RBELS/PCLs for cadmium, lead, dibenzo-p-dioxins, dibenzofurans, and/or polycyclic aromatic hydrocarbons	
Calculated Tier 1, 2, or 3 total petroleum hydrocarbon (TPH) PCLs	
Developed sediment/surface water human health RBELs and PCLs	
Fate and Transport	
Used or developed groundwater to surface water dilution factors	
Calculated Tier 2 PCL	
Calculated Tier 3 PCL	
Groundwater Issues	
Conducted aquifer test, classified Class 3 groundwater, or determined non-groundwater bearing unit (saturated soil)	

[1] Prior approval by Executive Director is required.

SECTION 1

PROPERTY INFORMATION

Section 1 Property Information

Section 1.1 Physical Location

Property Location and Land Use

The Old Municipal Incinerator Site is located on Galveston Island at #3 Lennox Avenue in Galveston, Galveston County, Texas. The Incinerator Site, also referred to as Lot E, consists of a 4.654 acre parcel of land owned by the City of Galveston (CoG). For the purposes of this document, the use of the term "Site" herein refers to the 4.654 acre on-site property commonly known as Lot E. Figure 1A shows the boundary of the on-site property and features associated with past activities at the Site.

The Site includes a standing incinerator structure that the CoG used for burning municipal solid waste in the late 1940s and early 1950s (from approximately 1949 through 1953). It is unknown if potential scrubber waters or sludges were ever produced, stored, or disposed of at the Site. According to the CoG in August 2017, no other information regarding potential scrubber waters or sludges for the incinerator structure was available. The CoG Fire Department used the Site for fire fighter training exercises from the mid-1960's to the early 1990's. Five ASTs were formerly used for the on-site storage of combustibles to fuel the fires. These combustibles may have included gasoline, alcohol-blended fuel, aviation gasoline, kerosene, diesel and distillate fuel oil, PCB oils, and later, propane. Four of the five ASTs were removed in the early 1990s and one AST currently remains on the Site. The fire training areas and ASTs have not been in use since the early 1990's.

Land use in the surrounding area is primarily Commercial/Industrial (C/I) or undeveloped, however, several residential properties (most unoccupied houses and undeveloped residential lots) are located to the east of the Site, along the east side of Lennox Avenue. Four above-ground raw water storage tanks used by the CoG and a Union Pacific railway easement are located to the north of the Site, a city owned recycling and salvage yard is located to the west, and a self-storage warehouse facility is located to the south.

Topography

The topography at the Site is relatively flat, with a maximum relief of < 2 feet (ft) and an average surface elevation of approximately 6 ft above mean sea level (MSL), based on a Houston-Galveston Area Council (HGAC) topographic map of the Site and surrounding area (http://www.h-gac.com/rds/gis-data/gis-datasets.aspx). The flat topography minimizes the potential for migration of chemicals of concern (COCs) in surface runoff. The nearest perennial surface water features include Offatts Bayou, approximately 875 ft to the south and Galveston Bay, approximately 2,400 ft to the north. Several areas mapped as wetlands (U.S. Fish and Wildlife Service [USFWS], 2012) are located between the north boundary of the Site and Galveston Bay. The Site is located within the 100-year flood plain (https://msc.fema.gov/portal/search?AddressQuery=lennox%20avenue%20galveston).

Weather

Observed high and low temperature data for Galveston, Texas, for January through July 2017 (latest data available) were compared to average highs and lows, as well as record highs and lows (http://w2.weather.gov/climate/index.php?wfo=HGX). In general, daily temperatures exhibited the greatest range and deviated most from average during the first quarter (January – March) of 2017.

Precipitation generally exceeded the average rainfall amounts for much of the year and was consistently above average from mid-March through early July. Notable exceptions occurred during early to mid-January, mid-February to mid-March, and mid-July to mid-August when precipitation rates fell below normal. High rainfall and flooding has the potential to temporarily increase the physical transport of COCs in surface soil through stormwater runoff.

According to the website Weatherspark.com (https://weatherspark.com/), the predominant wind direction in Galveston is from the south and southeast (approximately 42 percent of the time).

Section 1.2 Affected Property and Sources of Release

History and Operations

The Old Municipal Incinerator Site (also known as the Old City Landfill and Old City Dump) was used from 1949 through 1953 to burn municipal solid waste and possibly some medical waste. Ash from the incinerator is believed to have been spread on the ground surface at the Site (Meridian Alliance Group, LLC [Meridian], March 2006.

From about 1965 to the early 1990s, the CoG Fire Department used the Site for fire fighter training exercises (Mike Wisko, Fire Chief, personal communication, September 3, 2015.) Five ASTs were formerly used for on-site storage of combustibles to fuel the fires. These may have included gasoline, alcohol-blended fuel, aviation gasoline, kerosene, diesel and distillate fuel oil, polychlorinated biphenyl (PCB) oils, and later, propane. In the northern portion of the Site, there remains a three-story fire-training tower and three former concrete burn pits (no visible remnants of the previously labeled burn pits remain on the Site). The range of extinguishing agents used to fight the training fires is not known; however, historical interviews from previous environmental documents indicated that firefighting foam was used. Historical records also indicated that fire-fighting activities took place at the Site until approximately 1993. In a more recent interview with the fire chief (Mike Wisko, Fire Chief, email communication, July 10, 2017), Chief Wisko indicated that it was “highly unlikely that foam was ever used there”.

After fire training exercises at the Site ceased, the Site was inactive except for a series of focused investigations, removal of four of the five ASTs, and closure of the Site under the Texas Natural Resource Conservation Commission (TNRCC) Petroleum Storage Tank (PST) Program rules in August 2000 (see Chronology).

In May 1991, soil samples were collected around the storage tanks at the Site and samples of the tank contents were also collected. The analytical results for both the soil and the tank contents documented the presence of PCBs. Soil samples were reportedly also collected from the three burn pits and from the drainage ditch that received run off from the burn pits, but no record of the results was found (Meridian, March 2006). The two ASTs that had capacities of 1,100+ gallons were registered with the Texas Water Commission (TWC) in July 1991 and four of the five ASTs were cleaned and removed from the site by April 1993 (the remaining fifth AST was left on site).

In August 1991, U.S. Environmental Protection Agency (EPA) conducted an investigation at the Site; no PCBs were detected, but the pesticide toxaphene was reported. However, in January 1992, Fugro collected samples of the tank contents, but did not detect toxaphene. In June 1992, soil samples were collected at the soil/water interface (approximately 3 ft below ground surface [bgs]), just west of the fire field fence. The analytical result from Vulcan Analytical Services Corporation documented the presence of lead and total petroleum hydrocarbons (TPH) contamination.

In early 1999, BNC Environmental Services, Inc. (BNC) filed a Release Determination Report with TNRCC that classified the Site as a 4.1 Priority. In August 2000, TNRCC confirmed that corrective action requirements for the Site had been completed.

In 2003, a Phase I Environmental Site Assessment (ESA) was performed for the CoG's 61st Street properties, which included the Site, under the EPA Brownfield's Program. The Phase I ESA report (Meridian, April 2003) recommended that the Site should be entered into the Texas Commission on Environmental Quality (TCEQ) Voluntary Cleanup Program (VCP) and that a Phase II ESA, in the form of an Affected Property Assessment (APA), should be performed. The Site was accepted into the VCP on September 18, 2006 and the Phase II ESA/Affected Property Assessment Report (APAR) was completed and submitted to the TCEQ (Meridian, March 2006).

Project Overview

The on-site affected property is the 4.654-acre area of surface soil that was accepted into the VCP on September 18, 2006 and assigned VCP Identification (ID) Number (No.) 1962 (TCEQ, September 2006). The Site was investigated as Lot E, one of five lots (A through E) included in the Phase I ESA of the CoG's 61st Street properties (Meridian, April 2003).

The Phase I ESA was performed under the EPA Brownfield's Program to support CoG's planned redevelopment of the 61st Street properties as commercial sites. It identified potential environmental concerns at the Site (Lot E), mainly concerning the unknown nature of residual chemicals in incinerator ash and the areas over which the ash was spread, as well as the nature of chemical accelerants and extinguishing agents used for CoG fire department training exercises. The Phase I ESA recommended that a Phase II ESA be performed to characterize environmental contamination in all affected media and that the results of the Phase II ESA should be presented in an APAR format.

The Phase II ESA APAR (Meridian, March 2006), also performed under the Brownfield's Program, identified metals, semivolatile organic compounds (SVOCs) and pesticides as COCs in surface soil; and metals and pesticides as COCs in shallow groundwater at the Site. It was later determined that the reported exceedances of pesticides detected in soil and groundwater were not site specific COCs due to a unit conversion error of the sample concentrations reported by the lab. Supplemental soil samples were collected in 2014 for analysis of site specific COCs. The Phase II ESA APAR and supplemental soil sampling performed in March and September of 2014 (EFI Global, March 2014; September 2014) did not fully delineate the lateral extent of affected soil at the Site.

Therefore, the goal of this assessment was to complete delineation of the affected surface soil to the Tier 1 Residential Assessment Levels (RALs) and provide the documentation in this revised APAR. As a result, the affected property boundaries extend off site, such that the combined area of the on- and off-site affected property is approximately 27.73 acres. The affected property is shown in Figure 1B.

Table 1A provides a summary of known and potential on-site sources of COCs detected at the Site. Large areas of the Site are vacant or used for miscellaneous storage. Table 1B is not applicable, although the off-site areas described below could be potential sources; CoG is not alleging they are contributing COCs. Areas to the west of the Site owned by CoG are used as an impound yard (Lot C) and for debris piles (Lot D). Farther off site to the west, Lots A and B have been used as an auto salvage yard in the past and Lot A has also been backfilled with waste materials that may include construction debris, slag, and other refuse that was dumped on the ground. Lot B is currently used as the CoG recycling center, so there is the potential for hazardous materials/waste materials to be present there.

Section 1.3 Geology/Hydrogeology

The Site is located on Galveston Island in the Texas Gulf Coastal Plain. The geology of the Gulf Coast is characterized by a series of Miocene to Quaternary and Recent sediments that were deposited mainly in fluvial, deltaic, and marine shelf environments. The formations crop out in bands that roughly parallel the coast and that become younger toward the gulf. In the site vicinity, the mapped units include the Pleistocene-aged sediments of the Lissie Formation and Beaumont Clay; and Recent (Holocene) Alluvium (Beach and Dune Sand and Coastal Marsh Deposits) and Fill and Spoil (http://www.i2massociates.com/downloads/chowdhury-turcoch02-ch02-gulfcoastgulfcoastgeology.pdf accessed July 2017). Figure 1C is a map showing the regional geology in the general area of the Site. It is reproduced from the Geologic Atlas of Texas, Houston Sheet, 1:250,000 (http://www.twdb.texas.gov/groundwater/aquifer/GAT/ index.asp, accessed July 2017). Figure 1D-1 is a regional stratigraphic column that correlates the geologic units with the corresponding hydrostratigraphic units in the Gulf Coast and Figure 1D-2 is a regional cross section through Galveston County that shows the thicknesses of the hydrostratigraphic units (http://www.i2massociates.com/downloads/chowdhury-turcoch02-ch02-gulfcoastgulfcoastgeology.pdf accessed July 2017).

In Galveston County (Petit and Windslow, 1957), the Pleistocene Lissie Formation consists of alternating beds of sand, sandy clay, and clay. The sands range from fine- to coarse-grained and occur in lenses. The Lissie Formation can occur in excess of 1,100 ft thick, but it is not a significant aquifer in Galveston County. The water quality is generally poor and characterized as salty to brackish.

The Pleistocene Beaumont Clay Formation is divided into two units: The upper unit consists mainly of calcareous red, yellow, and brown clay with interspersed lenses of fine-grained sand and sandy clay. It has variable yield, depending on the relative amount of clay, and even the sands typically have relatively low permeability. South of the Texas City area, the water quality is brackish. The upper unit of the Beaumont Clay is generally between 400 ft and 1,150 ft thick across the county. The lower unit, known as the Alta Loma Sand, consists predominantly of fine- to medium-grained massive, gray to tan, well-sorted sand. The sand grains are mainly composed of quartz, with chert and limestone fragments. The Alta Loma Sand is laterally continuous over long distances in a belt that parallels the coast. The sands are highly permeable and capable of high yields, however in the southern part of Galveston County, the water is brackish. The Alta Loma Sand ranges from approximately 80 ft to 370 ft thick.

Recent (Holocene) deposits overlie the Pleistocene section and consist of alluvium, barrier island deposits, and fill and spoil. The alluvium consists of clay, silt, and sand with abundant organic matter. It includes point-bar, natural levee, stream channel backswamp, coastal marsh, mud flat, and narrow beach deposits. It is made up of beach and dune sand and coastal marsh deposits. It is exposed at the surface mainly on the main land, but also crops out along much of the north side of Galveston Island and the north side of Offatts Bayou. Most of the surface of Galveston Island is covered by Barrier-Island Deposits, which consist mainly of well sorted, fine-grained sand, with silt, clay and abundant shells and shell fragments. They include beach ridge, spit, tidal-channel, tidal-delta, and sand dune deposits.

The Site is located on a recent deposit consisting of Fill and Spoil. The Fill is material that was dredged and deposited over alluvium and/or barrier island deposits to raise the land surface. The spoil material is mostly glass, broken bricks, etc. At the Site, the shallow Groundwater-Bearing Unit (GWBU) is generally in the fill and alluvium deposits, which are considered part of the regional Chicot Aquifer. Groundwater occurs between 2 ft and 3 ft bgs and flow is tidally controlled. No groundwater from the shallow GWBU or any deeper aquifer is used as a water supply on Galveston Island.

SECTION 1

TABLE 1A

SOURCES OF RELEASE

Table 1A. Sources of Release

Affected property name/number[1]	Name of potential source[2] (supplied by the person)	Type of potential source (select from Column 1 on Inputs list)	NOR unit or SWMU number, if applicable	Substances of potential concern (select from Column 2 on Inputs list)	Size of source (capacity, area, or volume)	Status of source (select from Column 3 on Inputs list)		Was a release from this source confirmed? (if yes, indicate the discovery method from Column 4 on Inputs list, and date release was discovered)			
						Status[3]:	If closed or other, list date closed or explain:	No	Yes	Discovery method	Date
Old Municipal Incinerator Site	Waste Fuel ASTs	ASTs (5)	N/A	Petroleum Hydrocarbons: gasoline, alcohol-blended fuel, aviation gasoline, kerosene, diesel, and distillate fuel oil. PCB oils.	3,800 gallons	Closed (1 AST). Other: Removed (4 ASTs).	April 2000 April 1993		√	Spill Incident	May 1991
	Fire Training Area	Other: Burn Pits	N/A	As Above (Waste Fuel ASTs, fire-fighting foam)	Unknown	Abandoned	N/A		√	Site Assess-ment	June 1992
	Other: Incinerator	Other: Airborne Particulates; Surface Disposal of Ash	N/A	Metals; Dioxins/Furans. Other: PAHs	Unknown	Abandoned	N/A		√	Site Assess-ment	December 2005

AST - Above-ground storage tank.
N/A - Not applicable.
PAH – Polycyclic aromatic hydrocarbon.
PCB - Polychlorinated biphenyl.

[1] The name or number is an identification of the affected property assigned by the person. Continue using the name or number identification throughout this report and all other correspondence on the affected property.
[2] The potential source is the source of the release. The person determines the name given to the potential source. Examples: northwest tank farm, Main Street landfill, etc.
[3] Specify whether the source status is active, inactive, abandoned, closed, or specify another status as appropriate.

SECTION 1

TABLE 1B

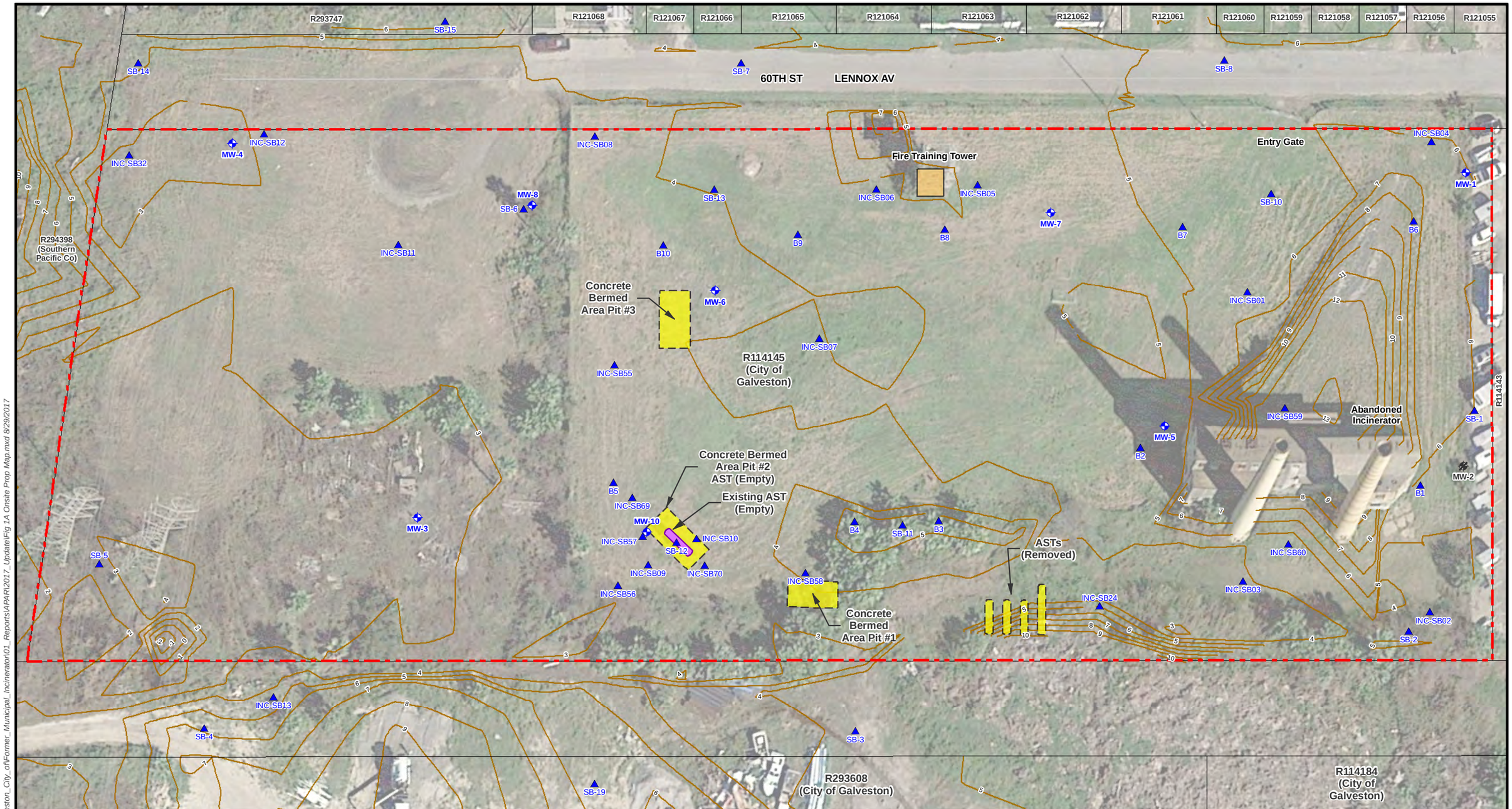
POTENTIAL OFF-SITE SOURCES

[This table is not applicable.]

SECTION 1

FIGURE 1A

ON-SITE PROPERTY MAP



Legend

- On-Site Property Boundary
- Real Estate Parcel
- Railroad Track
- Surface Elevation Contour (Feet Mean Sea Level)
- Existing AST (Empty)
- Fire Training Tower
- Historic Structure (Locations are Approximate)
- Monitoring Well Location
- Monitoring Well Location (Decommissioned)
- Soil Sample Location

N

50 25 0 50
Feet

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

Client: City of Galveston

Report: Affected Property Assessment Report

Title: **On-Site Property Map**

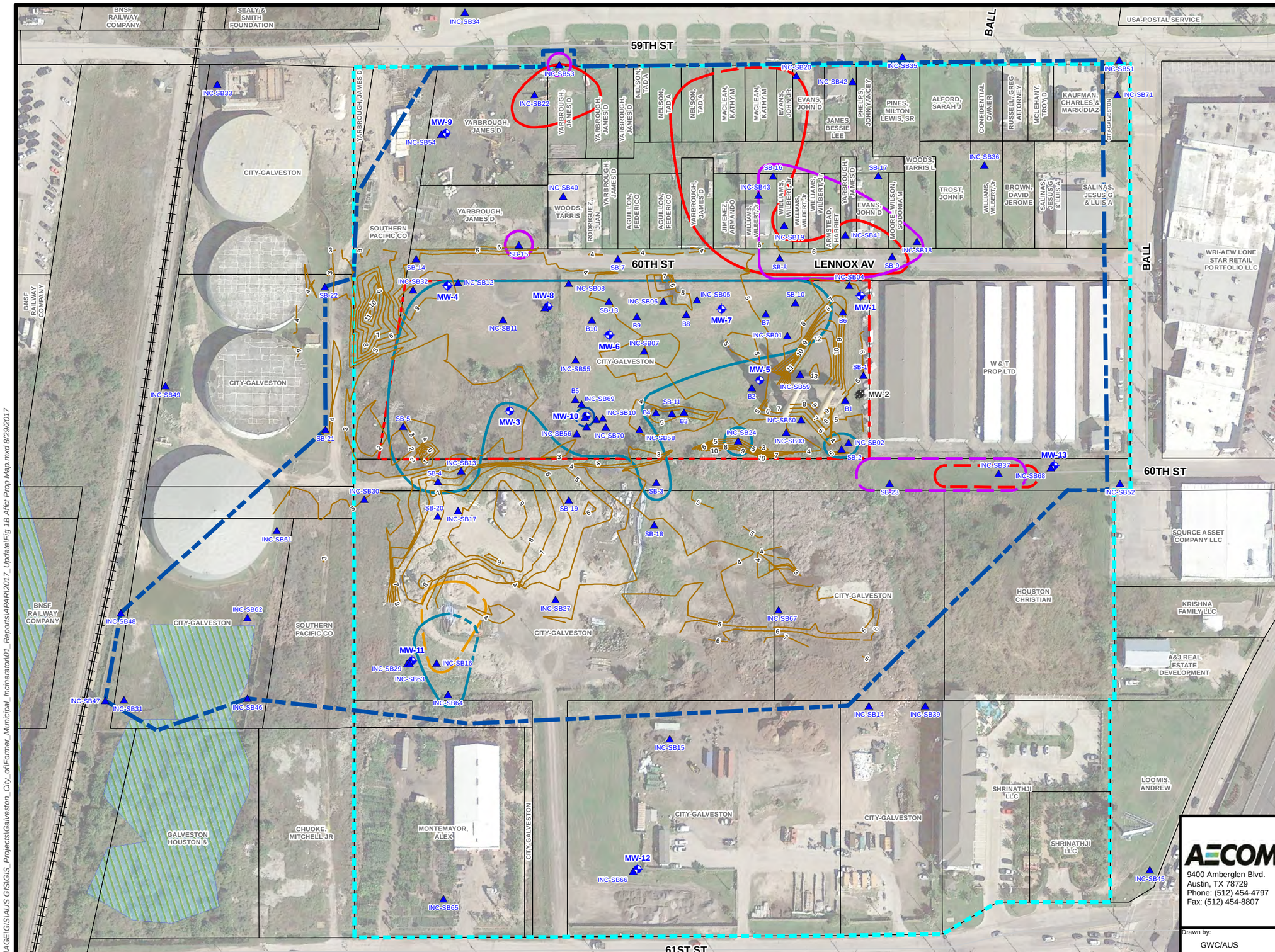
Drawn by:	Date:	GIS File:	Figure:
GWC/AUS	8/29/2017	Fig 1A Onsite Prop Map	1A

L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Fig 1A Onsite Prop Map.mxd 8/29/2017

SECTION 1

FIGURE 1B

AFFECTED PROPERTY MAP



Legend

- On-Site Property Boundary
- Municipal Setting Designation (MSD) Boundary (No. 333)
- Overall Affected Property Boundary/ PCLE Zone (Tier I RAL)
- Real Estate Parcel
- Wetland (USFWS, 2012)
- Railroad Track
- Commercial/Industrial $^{Tot}Soil_{Comb}$ PCLE Zone for Metals (Dashed Where Inferred)
- Residential $^{Tot}Soil_{Comb}$ PCLE Zone for Metals (Dashed Where Inferred)
- Commercial/Industrial $^{Tot}Soil_{Comb}$ PCLE Zone for PAHs (Dashed Where Inferred or Where Access Restrictions Prevented Further Step-Out Sampling)
- Residential $^{Tot}Soil_{Comb}$ PCLE Zone for PAHs (Dashed Where Inferred or Where Access Restrictions Prevented Further Step-Out Sampling)
- Commercial/Industrial $^{Tot}Soil_{comb}$ PCLE Zone for TPH (Dashed Where Inferred)
- Surface Elevation Contour (Feet Mean Sea Level)
- Monitoring Well Location
- Monitoring Well Location (Decommissioned)
- Soil Sample Location

STATE OF TEXAS
ROBERT A. SCHAFER
GEOLOGY
3066
LICENSED
PROFESSIONAL GEOSCIENTIST
8-29-17

150 75 0 150
Feet

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

Client: City of Galveston

Report: Affected Property Assessment Report

Title: **Affected Property and PCLE Zone Map**

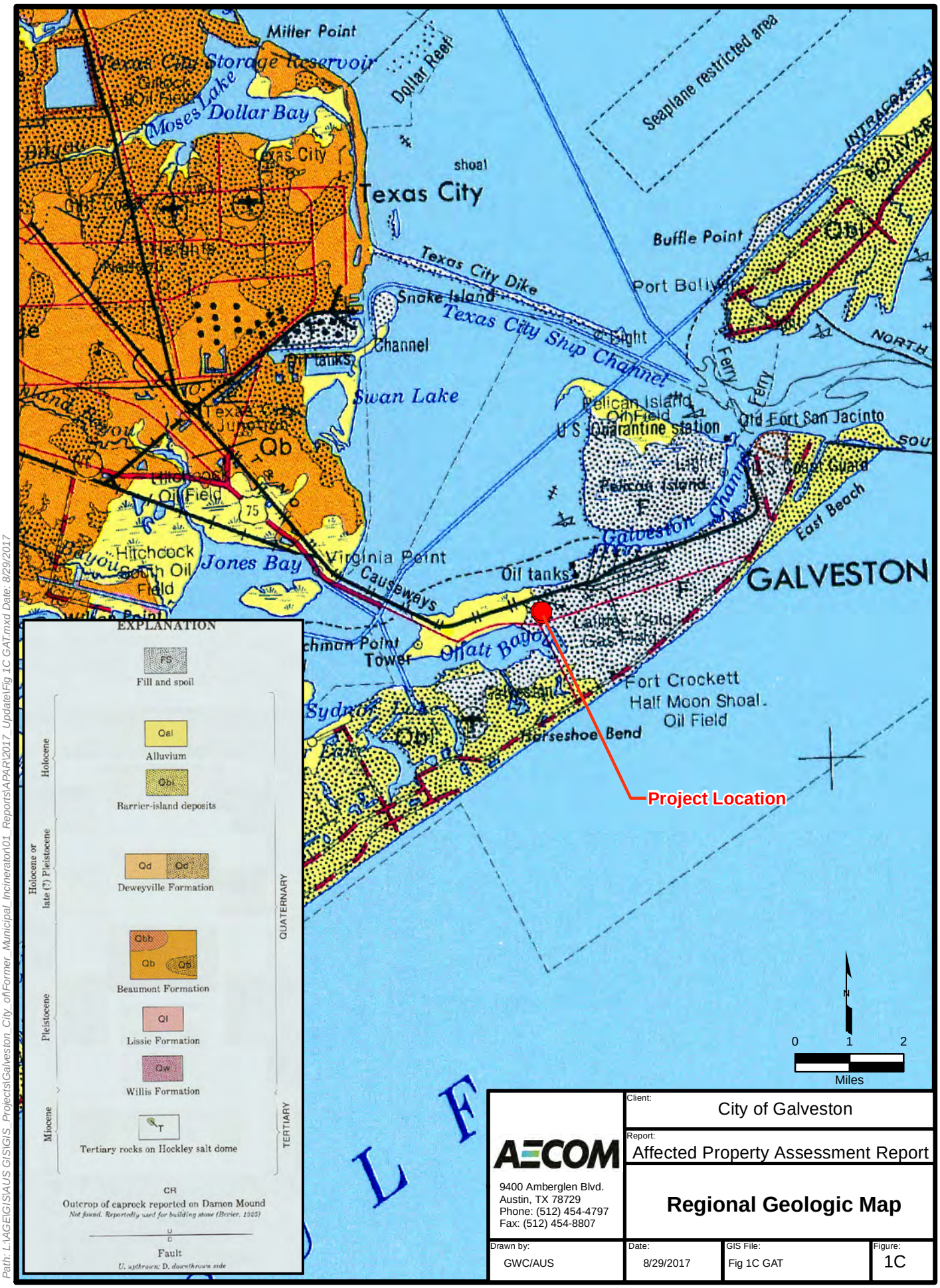
Drawn by:	Date:	GIS File:	Figure:
GWC/AUS	8/29/2017	Fig 1B Affct Prop Map	1B

L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_ofFormer_Municipal_Incinerator\01_Reports\APAR\2017_Update\Fig 1B Affct Prop Map.mxd 8/29/2017

SECTION 1

FIGURE 1C

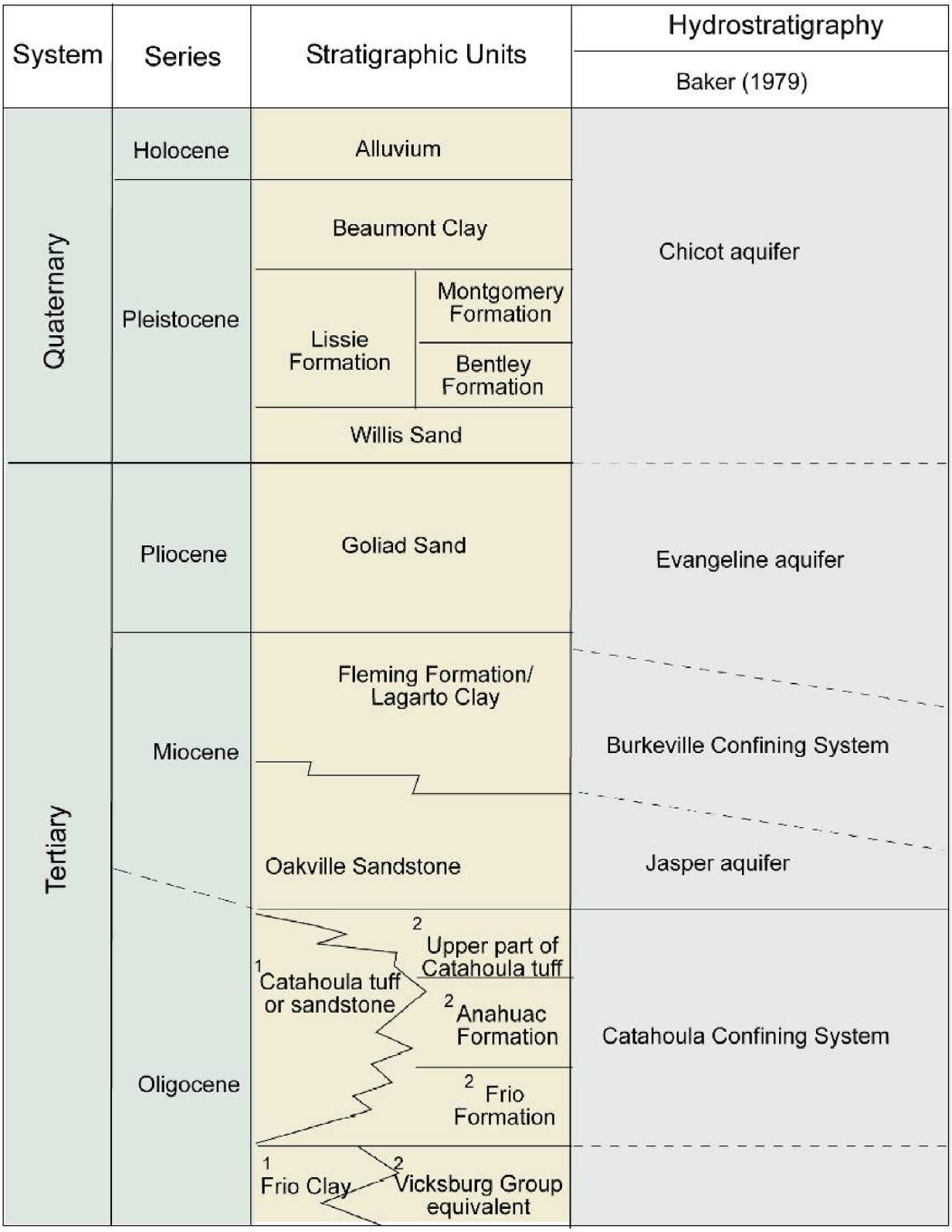
REGIONAL GEOLOGIC MAP


Miller Point
Texas City Storage Reservoir
Moses Lake
Dollar Bay
Dollar Reef
Seaplane restricted area
Texas City
shoal
Texas City
Buffle Point
Texas City Dike
Port Bolivar
Snake Island
Texas City Ship Channel
Channel
Swan Lake
Pelican Island
Oil Field
U S Quarantine station
Old Fort San Jacinto
Pelican Island
U.S. Coast Guard
Galveston Channel
East Beach
Hitchcock Oil Field
Jones Bay
Virginia Point
Causeways
Oil tanks
GALVESTON
Hitchcock South Oil Field
Tower
Offatt Bayou
Fort Crockett
Half Moon Shoal Oil Field
Horseshoe Bend
Project Location
EXPLANATION
Fill and spoil
Alluvium
Barrier-island deposits
Deweyville Formation
Beaumont Formation
Lissie Formation
Willis Formation
Tertiary rocks on Hockley salt dome
Holocene
Holocene or late (?) Pleistocene
Pleistocene
Miocene
QUATERNARY
TERTIARY
CR
Outcrop of caprock reported on Damon Mound
Not found. Reportedly used for building stone (Bevier, 1925)
Fault
U, upthrown; D, downthrown side
0 1 2
Miles
AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807
Client: City of Galveston
Report: Affected Property Assessment Report
Regional Geologic Map
Drawn by: GWC/AUS
Date: 8/29/2017
GIS File: Fig 1C GAT
Figure: 1C
Path: L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Fig 1C GAT.mxd Date: 8/29/2017

SECTION 1

FIGURE 1D

REGIONAL GEOLOGIC CROSS SECTION(S)



1 = outcrop
2 = subsurface

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

Client: City of Galveston

Report: Affected Property Assessment Report

Title: **Regional Stratigraphic and Hydrostratigraphic Column**

Drawn by:

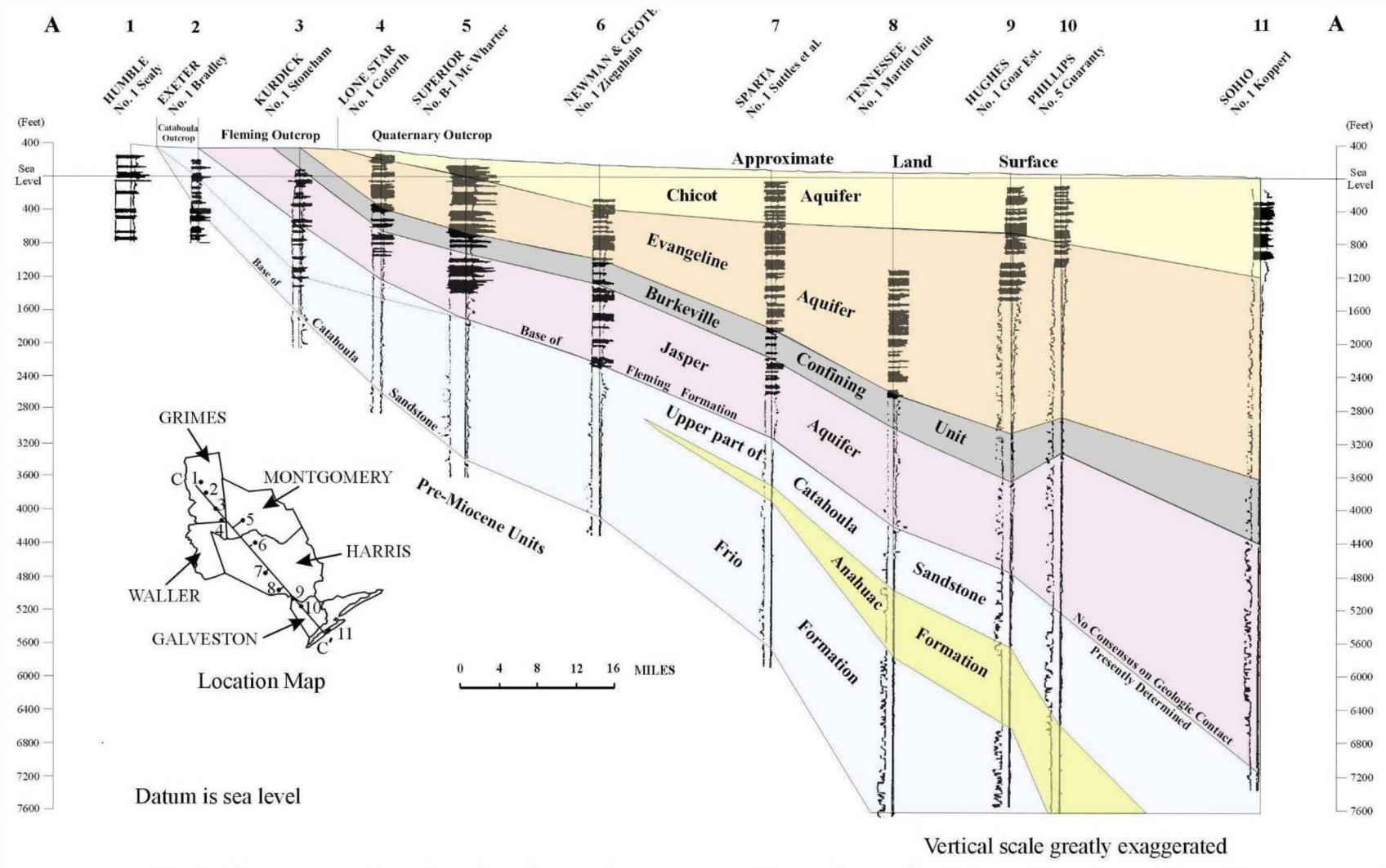
Date: Aug 29, 2017

Figure: 1D-1

Source:
Chapter 2 - Geology of the Gulf Coast Aquifer, Texas accessed at http://www.i2massociates.com/downloads/chowdury-turcoch01-gulfcoast.

File: L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Regional_Xsects.dwg Layout: Fig 1D-1 Plotted: Aug 29, 2017 – 1:57pm

File: L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Regional_Xsects.dwg Layout: Fig 1D-2 Plotted: Aug 29, 2017 - 1:57pm



Note:
See Figure 1D-1 for correlation of Hydrostratigraphic Unit and Stratigraphic Unit Nomenclature.

Source:
Chapter 2 - Geology of the Gulf Coast Aquifer, Texas accessed at http://www.i2massociates.com/downloads/chowdury-turcoch01-gulfcoast .

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

Client:	City of Galveston
Report:	Affected Property Assessment Report
Title:	**Regional Geologic Cross-Section Hydrogeologic Units, Depths, and Thickness**
Drawn by:	
Date:	Aug 29, 2017
Figure:	1D-2

SECTION 2

EXPOSURE PATHWAYS AND GROUNDWATER RESOURCE CLASSIFICATION

Section 2 Exposure Pathways and Groundwater Resource Classification

Section 2.1 Source(s) of Potable Water for On-Site Property and Affected Off-Site Properties

Potable water for CoG and Galveston County, including the off-site residential properties addressed in this APAR, is treated drinking water that comes from the Gulf Coast Water Authority's Thomas S. Mackey Water Treatment Plant in Texas City, Texas (https://www.wcid1.com/CCR%202015.pdf accessed August 14, 2017). The source of the potable water is the Brazos River.

No water wells were identified within 0.5 mile of the Site (Banks Environmental Data, Inc. [Banks], October 2015). No properties within 500 ft of the Site utilize shallow groundwater for any purpose other than environmental monitoring. An MSD ordinance that includes the Site and affected off-site properties was approved by the CoG in 2015 and certified by the TCEQ in 2017. A copy of the MSD certificate is provided in Appendix 4.

Section 2.2 Field Receptor Survey

A 500-ft field receptor survey was conducted for the Site by AECOM on November 19-20, 2015. Additional photos were taken during supplemental investigations conducted between November 2015 and August 2017. The survey documented on-site and off-site land use and identified potential receptors within the survey area. The survey included a windshield and walking inspection of the area, during which land use, direction of slope/surface drainage, and the presence or absence of surface water bodies or drainage features were recorded.

The receptor survey documented that most of the land use offsite is C/I, with a smaller area of offsite residential land use along and to the east of Lennox Avenue. The on-site property was formerly used for waste disposal (municipal incinerator) and for firefighter training exercises until the early 1990s, but is no longer in active use other than as an equipment laydown/storage area in the northeastern portion of the Site. Water features that were observed during the survey were mainly from recent rain events and are transient. The general topography of the area is relatively flat, with water temporarily accumulating in low-lying grassy areas, truck ruts, and heavily trafficked construction zones. Surface water was also observed in man-made drainage ditches located alongside roads. No naturally occurring intermittent or perennial surface water bodies were identified, but drainage ditches, pooled water in low-lying areas, and muddy pits were observed, resulting from rain events. Water meters were observed, as well as a pump station with a water tank . The pump station construction is nearing completion. No water wells were observed on the accessible private properties, or anywhere throughout the affected property and 500-ft buffer zone.

Figure 2A shows potential receptors associated with the Site (i.e., the on-site property), the affected property, and the area within a 500-ft radius of the affected property. Figure 2B-1 shows 2017 aerial imagery and topography of the affected property. Figure 2B-2 shows the identification numbers and locations of the field survey photographs, and indicates the general direction from which the photographs were taken. The field survey photographs are provided in Appendix 13.

Section 2.3 Records Survey

A water well records search was conducted for the Site by reviewing available maps and drilling records from the Texas Water Development Board (TWDB) and the TCEQ (Banks, October 2015). The specific datasets reviewed include:

- TX HGSD – Contains all groundwater well records compiled by the Harris/Galveston Subsidence District and the Fort Bend Subsidence District;
- TX TCEQ HIST – Contains all historical water well records searched from the TCEQ Public Water Well Viewer;
- TX TCEQ PWS – Contains a collection of records from Texas Water Districts, Public Drinking Water Systems, and Water and Sewer Utilities that submit information to the TCEQ;
- TX TWDB GW – Contains water well records in the TWDB Groundwater Database;
- TX TWDB WIID – Contains water well records from the TWDB Submitted Driller's Reports Database; and
- WW USGS – Contains groundwater well records from the U.S. Geological Survey.

Banks reported that no wells exist within 0.5 mile of the proposed MSD-Boundary. Because no wells were identified, Tables 2A and 2B are not applicable. Figure 2C shows that no wells were identified within 0.5-mile of the MSD boundary. A copy of the Banks Water Well Report is provided in Appendix 5.

Section 2.4 Receptor Survey Results

Land uses adjacent to the affected property include the following:

- To the East: 59th Street Right-of-Way (ROW), Galveston County Justice Center, various commercial developments including a post office.
- To the West: Commercial development, including but not limited to, Target, Home Depot, PetSmart, and other retail establishments.
- To the South: Ball Street, self-storage warehouse facility, commercial strip center (Subway, Big Lots).
- To the North: Railroad easement, various industrial developments.

The off-site land use within the 500-ft boundary area was observed to be primarily commercial development, including multiple parking lots, commercial stores, and the Galveston County Justice Center. Within the affected property boundary, residential properties were observed, as well as a self-storage warehouse facility. In addition, much of the affected property area is owned by the CoG.

There were no surface water bodies observed within the 500-ft buffer zone, but water sprinklers, fire hydrants, and stormwater drains were observed. In addition, the Galveston County Justice Center property has several water drainage grates. The new 59th Street Pump Station construction project is currently under construction. Within the affected property boundary, standing water was observed at multiple locations and is attributed to significant rain events that occurred prior to the field investigation. The affected property is generally maintained regularly by the CoG staff or owners of other properties located inside of the affected property boundaries.

There were no identified wells (other than on-site and off-site monitoring wells installed specifically for this VCP project), and the buildings present within or near the footprint of the affected property consist mainly of commercial businesses, CoG property, single family residential properties, and the Galveston County Justice Center. The overall area is generally developed or disturbed. Therefore, the potential human health and ecological exposure risks are low (the Site meets the Tier 1 Ecological Exclusion Criteria Checklist requirements – see Attachment 2A).

Section 2.5 Groundwater Resource Classification

The shallow GWBU in the Recent sediments/Pleistocene Beaumont Clay Formation and fill at the Site is assumed to be a Class 1/Class 2 groundwater resource under Texas Risk Reduction Program (TRRP). Because no groundwater yield tests were performed on existing wells completed in the shallow GWBU at the Site, by default it is classified as Class 1/Class 2 groundwater resource in accordance with TRRP-8 (TCEQ, March 2010). Five additional permanent monitoring wells were recently installed in 2017 (four off-site wells and one well on Lot E).

Section 2.6 Exposure Pathways

As previously stated, environmental contamination at the Site is limited to surface soil and groundwater. The exposure pathways potentially complete or reasonably anticipated to be complete are shown in Table 2C. For surface soil, the exposure pathway is combined ingestion, dermal contact, and inhalation of volatiles and particulates (and for residential land use, ingestion of vegetables) ($^{Tot}Soil_{Comb}$); and migration of. For groundwater, with the issuance of MSD Certificate No. 333, the $^{GW}GW_{Ing}$ pathway is incomplete for the site The $^{GW}Soil_{Ing}$ pathway is also incomplete due to MSD No. 333. This is discussed in more detail below.

In addition, surface water and sediment are not connected to the affected property; therefore, these pathways are incomplete. Subsurface soil was not investigated due to the fact that the groundwater is typically less than 3 feet deep.

The only current threat of exposure at the affected on-site property is to potential workers at the Site, visitors, or trespassers through the $^{Tot}Soil_{Comb}$ pathway. The same pathway is applicable to workers at surrounding off-site businesses and to residents in single-family dwellings located east of the Site along Lennox Avenue. Because of this and the issuance of a MSD Certificate, the Tier 1 RALs used for the APAR are the $^{Tot}Soil_{Comb}$ Protective Concentration Levels (PCLs) for residential soil (0-15 ft bgs) for a 30-acre source area.

Groundwater contamination in the shallow GWBU at the Site is documented in the Phase II ESA APAR (Meridian, March 2006) and the Site was first identified as a site with groundwater contamination and included in the Joint Groundwater Monitoring and Contamination Report in 2006. The Site remains listed in the most recent (2016) report (Texas Groundwater Protection Committee, July 2017). Therefore, the $^{GW}Soil_{Ing}$ exposure pathway is potentially complete. The response action that was proposed and conditionally approved in the Interim RAP prepared for the Site addresses and eliminates this pathway after implementation of the Site remedy, which will eliminate or control the surface soil source within the affected property through Institutional Controls (ICs). A final RAP will be prepared to address the remainder of the affected property (outside of Lot E) upon TCEQ approval of this revised APAR. The MSD ordinance and TCEQ issued MSD certificate for the Site, will prevent future use of shallow groundwater as a potable water source within the MSD boundaries. By eliminating the source of contamination (surface soil response action) and preventing potential human receptors from ingesting

contaminated drinking water (by utilizing MSD), the $^{GW}Soil_{Ing}$ exposure pathway will be rendered incomplete.

Attachment 2A is the Tier 1 Ecological Exclusion Criteria Checklist that was completed for the Site (and revised in 2017 per TCEQ's comments). It demonstrates that the Site does not pose an unacceptable ecological risk and no further ecological risk assessment is warranted. Figure 2B-1 summarizes the information included in Attachment 2A.

SECTION 2

TABLE 2A

WATER WELL SUMMARY

[This table is not applicable – no wells within 0.5 mile]

SECTION 2

TABLE 2B

AFFECTED WATER WELL SUMMARY

[This table is not applicable – no wells within 0.5 mile]

SECTION 2

TABLE 2C

COMPLETE OR REASONABLY ANTICIPATED TO BE COMPLETE EXPOSURE PATHWAYS

Table 2C. Complete or Reasonably Anticipated to be Complete Exposure Pathways

Exposure pathway	Surface soil[1]	Subsurface soil[2]	Groundwater	Surface water/ sediment
${}^{Tot}Soil_{Comb}$[3]	√	NA	NA	NA
${}^{Air}Soil_{Inh\text{-}V}$	NA			
${}^{GW}Soil_{Ing}$ or ${}^{GW}Soil_{Class3}$				
${}^{GW}GW_{Ing}$ or ${}^{GW}GW_{Class3}$	NA	NA		
${}^{Air}GW_{Inh\text{-}V}$				
${}^{SW}GW$				
${}^{Sed}GW$				
${}^{SW}SW$ or ${}^{Sed}Sed$			NA	
Other (specify)[4]				

${}^{Air}GW_{Inh\text{-}V}$ - PCL for inhalation of volatiles from groundwater.
${}^{Air}Soil_{Inh\text{-}V}$ - PCL for inhalation of volatiles from subsurface soil.
${}^{GW}GW_{Class3}$ - PCL for Class 3 groundwater.
${}^{GW}GW_{Ing}$ - Groundwater ingestion pathway.
${}^{GW}Soil_{Class3}$ - PCL for Class 3 soil.
${}^{GW}Soil_{Ing}$ - PCL for surface and subsurface soil to protect groundwater.
NA - Not applicable.
PCL - Protective concentration level.
${}^{Sed}GW$ - PCL for groundwater discharge to sediment.
${}^{Sed}Sed$ - Sediment PCL.
${}^{SW}GW$ - PCL for groundwater discharge to surface water.
${}^{SW}SW$ - Surface water PCL.
${}^{Tot}Soil_{Comb}$ - Surface soil PCL for combined ingestion, dermal contact, inhalation of volatiles and particulates, and for residential land use, ingestion of above-ground and below-ground vegetables.

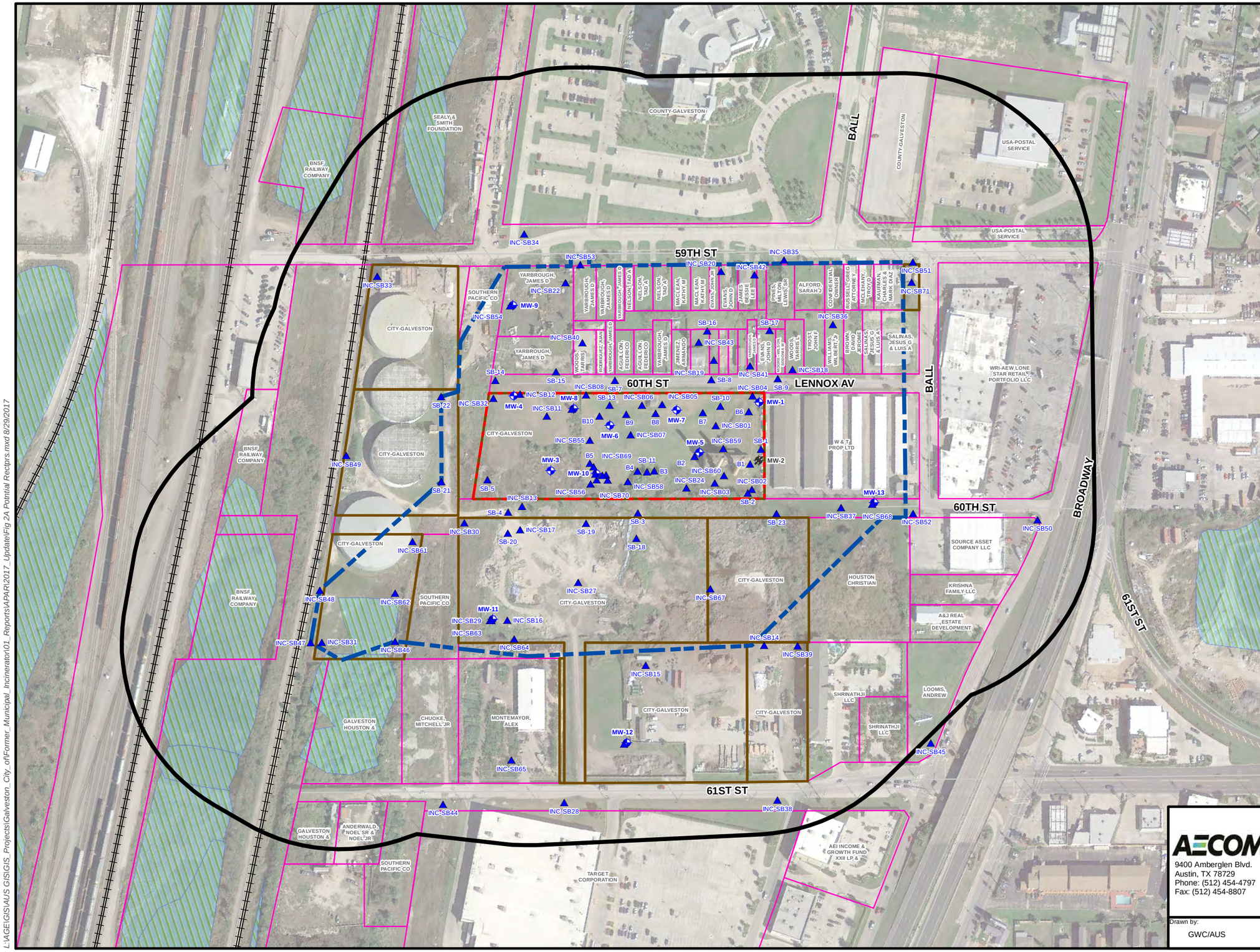
Note: Shaded boxes are those pathways considered complete by the TRRP rule. Shaded boxes that are checked indicate a complete or reasonably anticipated to be complete pathway for the affected property. Shaded boxes that are not checked, i.e., not considered complete, are explained in Section 2.6.

[1] Residential: soils from 0-15 ft deep, or to bedrock or groundwater-bearing unit if shallower.
Commercial/industrial: soils from 0-5 ft deep, or to bedrock or groundwater-bearing unit if shallower.
[2] The vadose zone beneath the surface soil extending to the groundwater-bearing unit, and including unsaturated zones between stratified groundwater-bearing units.
[3] Residential: ${}^{Air}Soil_{Inh\text{-}VP} + {}^{Soil}Soil_{Ing} + {}^{Soil}Soil_{Derm} + {}^{Veg}Soil_{Ing}$
Commercial/industrial: ${}^{Air}Soil_{Inh\text{-}VP} + {}^{Soil}Soil_{Ing} + {}^{Soil}Soil_{Derm}$
[4] If other exposure pathways are identified here, include those pathways in the derivation of assessment levels and evaluation of critical PCLs.

SECTION 2

FIGURE 2A

POTENTIAL RECEPTORS MAP



Legend

- On-Site Property Boundary
- Affected Property Boundary (Tier I RAL)
- 500-ft Buffer Around Affected Property
- City of Galveston Owned Real Estate Parcel
- Real Estate Parcel
- Wetland (USFWS, 2012)
- Railroad Track
- RAL Residential Assessment Level
- Monitoring Well Location
- Monitoring Well Location (Decommissioned)
- Soil Sample Location

250 125 0 250
Feet

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

Client: City of Galveston

Report: Affected Property Assessment Report

Title: **Potential Receptors Map**

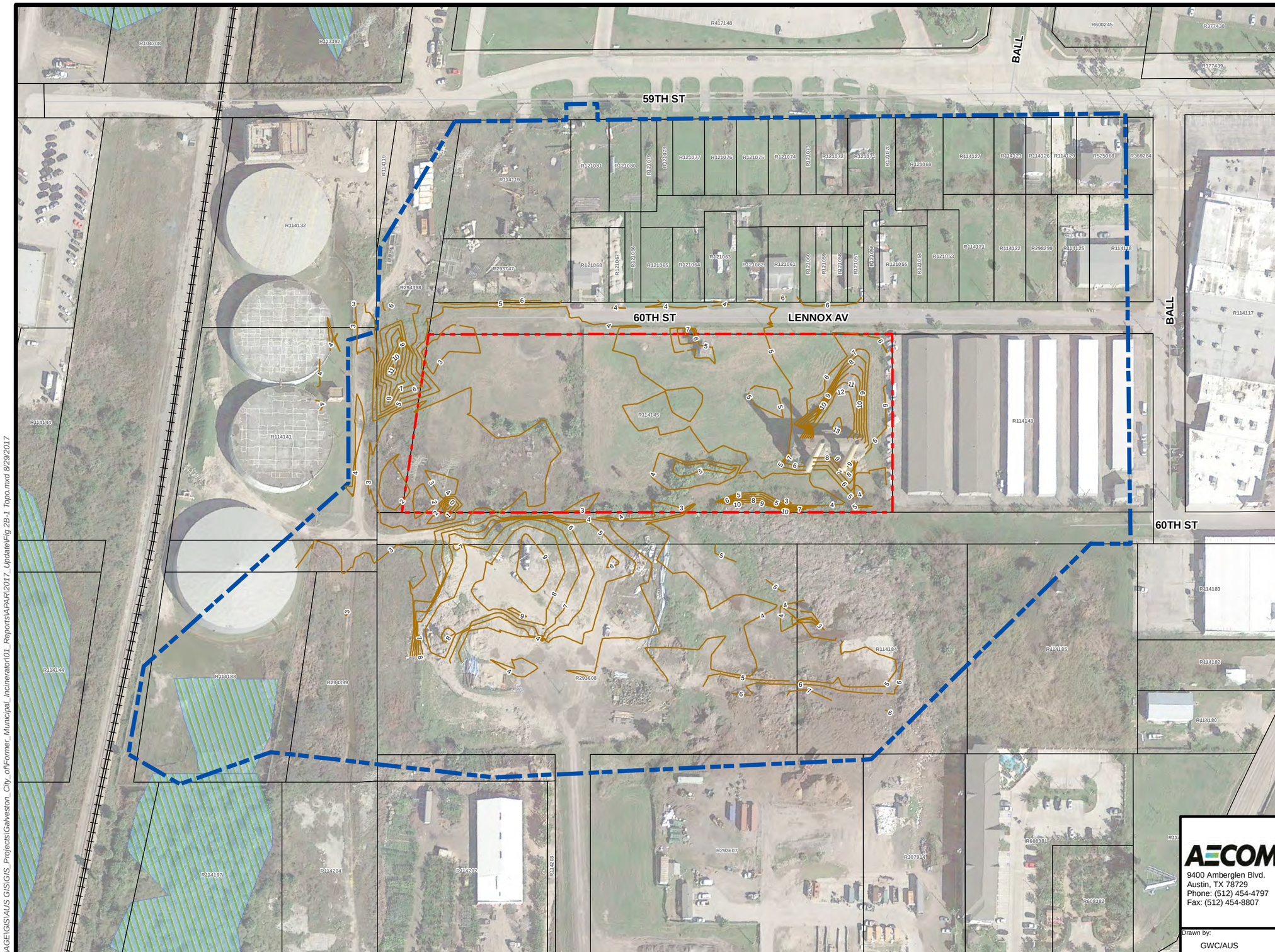
Drawn by:	Date:	GIS File:	Figure:
GWC/AUS	8/29/2017	Fig 2A Potntial Rectprs	2A

L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Fig 2A Pontial Rectprs.mxd 8/29/2017

SECTION 2

FIGURE 2B-1

2017 Aerial Imagery and Topography of Affected Property



Legend

- On-Site Property Boundary
- Affected Property Boundary (Tier I RAL)
- Real Estate Parcel
- Wetland (USFWS, 2012)
- Railroad Track
- Surface Elevation Contour (Feet Mean Sea Level)
- RAL Residential Assessment Level

150 75 0 150
Feet

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

Client: City of Galveston

Report: Affected Property Assessment Report

Title: **2017 Aerial Imagery and Topography of Affected Property**

Drawn by:	Date:	GIS File:	Figure:
GWC/AUS	8/29/2017	Fig 2B-1 Topo	2B-1

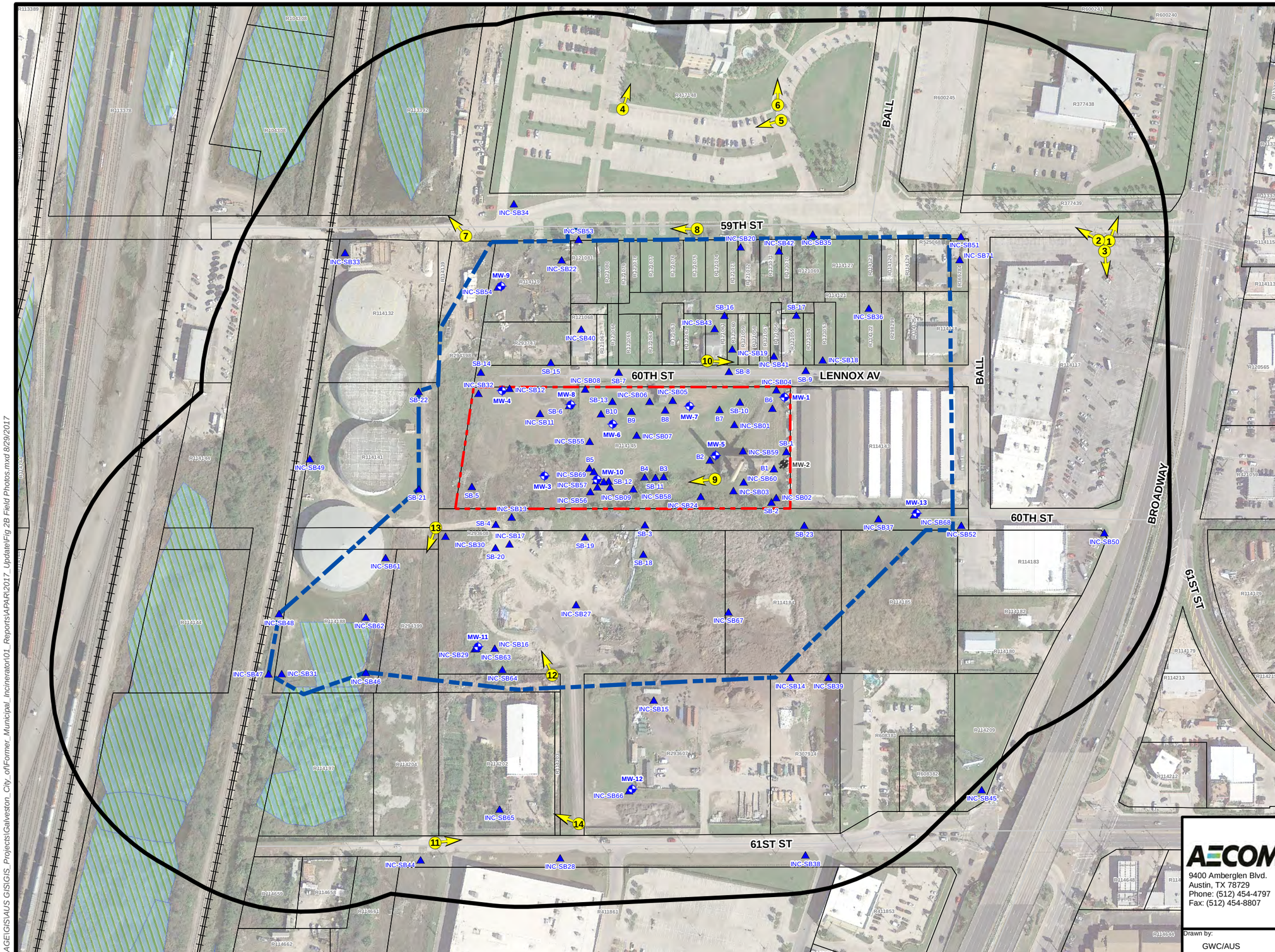
L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APA\R\2017_Update\Fig 2B-1 Topo.mxd 8/29/2017

SECTION 2

FIGURE 2B-2

FIELD SURVEY PHOTOGRAPHS

[Photographic documentation is provided in Appendix 13.]



AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

Client: City of Galveston

Report: Affected Property Assessment Report

Title: **Field Survey Photographs**

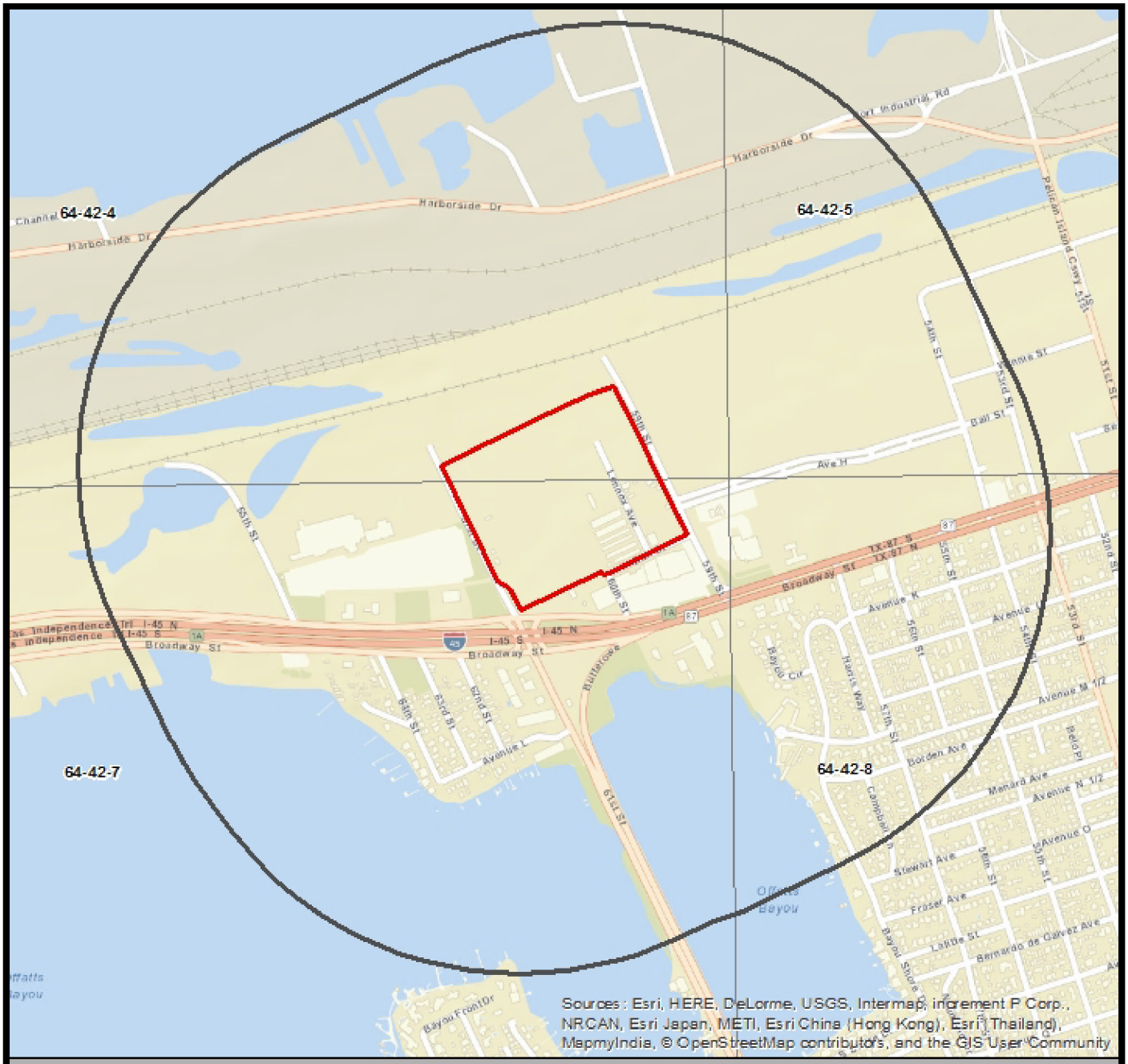
Drawn by:	Date:	GIS File:	Figure:
GWC/AUS	8/29/2017	Fig 2B Field Photos	2B

L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Fig 2B Field Photos.mxd 8/29/2017

SECTION 2

FIGURE 2C

WATER WELL MAP



City of Galveston Former Incinerator Site

Well

Well Cluster

Target Property

Search Buffer

Texas Quad Index

1 : 13,000
1 inch = 0.205 miles
1 inch = 1083 feet
1 centimeter = 0.130 kilometers
1 centimeter = 130 meters

N

Lambert Conformal Conic Projection
1983 North American Datum
First Standard Parallel: 33 0' 00" North
Second Standard Parallel: 45 0' 00" North
Central Meridian: 96 0' 00" West
Latitude of Origin: 39 0' 00" North

Note:
No wells identified within 0.5 mile radius of the affected property
Source:
Banks Environmental Data, October 19, 2015.

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

Client: City of Galveston

Report: Affected Property Assessment Report

Title: **Water Well Map**

Drawn by: gc

Date: Aug 29, 2017

Figure: 2C

File: L:\AGE\GIS\AUS_GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\WW_Map.dwg Layout: Fig 2C Plotted: Aug 29, 2017 – 1:59pm

SECTION 2

ATTACHMENT 2A

TIER 1 ECOLOGICAL EXCLUSION CRITERIA CHECKLIST

Attachment 2A. Tier 1 Ecological Exclusion Criteria Checklist

PART I. Affected Property Identification and Background Information

1) Provide a description of the specific area of the response action and the nature of the release. Include estimated acreage of the affected property and the facility property, and a description of the type of facility and/or operation associated with the affected property. Also describe the location of the affected property with respect to the facility property boundaries and public roadways.

The City of Galveston (CoG) Old Municipal Incinerator Site (the Site) is located at #3 Lennox Avenue, along the west side of Lennox Avenue in Galveston, Galveston County, Texas. The Site (Lot E) occupies approximately 4.6 acres and is owned by the CoG. The Site was used to burn municipal waste and possibly some medical waste from approximately 1949 – 1953. There is no further record of operations at the Site until 1965. At that time, the CoG Fire Department began using it for fire fighter training exercises, which continued into the early 1990s when the Site again became inactive. Site features visible at the Site include the municipal waste incinerator, a former firefighting training tower, and one abandoned above-ground storage tank (AST), which is reportedly empty. Known and potential types of releases at the Site include airborne emissions from the incinerator, and leaks and spills from the former ASTs, which were used to store combustible fuels for the past firefighter training exercises. Airborne emissions from previous incineration operations ceased when the incinerator was taken out of operation in 1953. The firefighting training activities continued into the early 1990s and any airborne emissions from those activities would have been minimal. A review of historical data and an intensive sampling study was conducted to define an affected property documented in the original APAR submitted to TCEQ in January 2016. Based on TCEQ comments for that APAR, additional data gap sampling was conducted, and a revised affected property boundary was created, which is significantly smaller than the original affected property.

The Site (facility property or Lot E) is located in the central part of the affected property. Land uses in the off-site areas of the affected property include industrial, commercial, and residential developments. Specifically, the off-site affected property is currently occupied by a CoG recycling and salvage yard to the west, four above-ground water storage tanks used by the CoG to the north, single-family residences, unoccupied houses, and undeveloped residential lots to the east, and a commercial storage facility to the south. The approximate boundaries of the affected property are 59th Street to the east, Ball Street to the south, 61st Street to the west, and the Burlington Northern Santa Fe (BNSF) railroad easement to the north.

Attach available USGS topographic maps and/or aerial or other affected property photographs to this form to depict the affected property and surrounding area. Indicate attachments:

Topo map	Aerial photo	X	Other (specify)	Aerial photo overlain with topographic contours (Attachment 2B, Figure 2B-1)
____	____	____		

2) Identify environmental media known or suspected to contain chemicals of concern (COCs) at the present time. Check all that apply:

Known/Suspected COC Location		Based on sampling data?	
X	Soil <5 ft below ground surface	X Yes	____ No
____	Soil >5 ft below ground surface	____ Yes	____ No
X	Groundwater (Current and Historical Data)	X Yes	____ No
____	Surface Water/Sediments	____ Yes	____ No

Explain (previously submitted information may be referenced):

This revised APAR includes all relevant media. COCs that exceed applicable cPCLs are present in surface soil and marginal metals exceedances were documented in monitoring wells located on the incinerator property (Lot E) and immediately adjacent to Lot E. In addition, a MSD certificate was issued for this site in January 2017. No surface water or sediment assessments were performed, because no natural surface water bodies are present in the affected property. The affected property has been horizontally and vertically delineated and the West Bay (Offatt's Bayou) and the defined affected property does not include any wetlands. The affected property has been revised since the January 2016 APAR was submitted following an additional data gap sampling effort requested by the TCEQ. The areas of concern referenced by TCEQ in a Comments Letter dated July 28, 2016 are located even further outside the boundaries of the newly defined affected property based on recent data.

3) Provide the information below for the nearest surface water body which has become or has the potential to become impacted from migrating COCs via surface water runoff, air deposition, groundwater seepage, etc. Exclude wastewater treatment facilities and stormwater conveyances/impoundments authorized by permit. Also exclude conveyances, decorative ponds, and those portions of process facilities that are:

a. Not in contact with surface waters in the State or other surface waters which are ultimately in contact with surface waters in the State; and
b. Not consistently or routinely utilized as valuable habitat for natural communities including birds, mammals, reptiles, etc.

The nearest surface water body is 875 feet from the affected property and is named: West Bay (Offatt's Bayou).

The water body is best described as a:

____ freshwater stream:
  ____ perennial (has water all year)
  ____ intermittent (dries up completely for at least 1 week a year)
  ____ intermittent with perennial pools
____ freshwater swamp/marsh/wetland
____ saltwater or brackish marsh/swamp/wetland
____ reservoir, lake, or pond; approximate surface acres _____
____ drainage ditch
____ tidal stream X bay ____ estuary
____ other; specify

Is the water body listed as a State classified segment in Appendix C of the current Texas Surface Water Quality Standards; §§307.1 - 307.10?

X Yes Segment # 2424 Use Classification: Contact Recreational
____ No

If the water body is not a State classified segment, identify the first downstream classified segment.
Name: _____
Segment #: _____
Use Classification: _____

As necessary, provide further description of surface waters in the vicinity of the affected property:

This portion of Offatt's Bayou is located approximately 875ft south of the southern portion of the affected property. Interstate Highway 45, divided service roads, and commercial development are located between the affected property and Offatt's Bayou. Galveston Bay is located approximately 2,000 ft north of the affected property. A large, active railroad easement and multiple industrial developments are located between the affected property and Galveston Bay. To the north, northwest, and northeast of the affected property and along the railroad easement are several surface

water features mapped as wetlands that likely developed in disturbed areas following construction of the railroad tracks.

The United States Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) Online Viewer was accessed on July 25, 2017 to determine if these water features, which are visible on aerial photographs and were observed during the field investigation are consistent with features recorded in the NWI Online Viewer. Approximately five areas were identified on the viewer in these areas. Three of the five areas were labeled as "excavated" on the NWI Online Viewer. Specifically, the "excavated" areas lie within a basin or channel that was dug, gouged, blasted, or suctioned through artificial means by man. The other two areas are listed as "temporary flooded", which is defined as surface water being present for brief periods of the growing season, but the water table usually lies well below the soil surface for most of the growing season. Plants that grow both in uplands and wetlands may be characteristic of this water regime.

Based on this review, it appears that the surface water features located to the north, northwest, and northeast of the affected property were likely excavated during the construction of the railroad.

PART II. Exclusion Criteria and Supportive Information

Subpart A. Surface Water/Sediment Exposure

1) Regarding the affected property where a response action is being pursued under the TRRP, have COCs migrated and resulted in a release or imminent threat of release to either surface waters or to their associated sediments via surface water runoff, air deposition, groundwater seepage, etc.? Exclude wastewater treatment facilities and stormwater conveyances/impoundments authorized by permit. Also exclude conveyances, decorative ponds, and those portions of process facilities which are:

a. Not in contact with surface waters in the State or other surface waters which are ultimately in contact with surface waters in the State; and

b. Not consistently or routinely utilized as valuable habitat for natural communities including birds, mammals, reptiles, etc.

____ Yes X No

Explain:

The incinerator has not been operational since the 1950s. A source area site characterization was conducted and the areas immediately surrounding the on-site sources (incinerator, fire training area, and ASTs) were sampled at the surface and just above groundwater for Resource Conservation and Recovery Act (RCRA) metals, SVOCs, PCBs, dioxins/furans (D/Fs), VOCs, and TPH. After reviewing the results of the site characterization, step out sampling was conducted for COCs to define the affected property, which has been recently updated for the revised APAR. Lead, arsenic, and various SVOCs exceed cPCLs for soil. Only marginal cPCL exceedances of lead and arsenic were identified in groundwater samples. Additional groundwater samples collected from the existing monitoring wells and five recently installed permanent monitoring wells confirmed only marginal metals exceedances at three different monitoring wells. Two of the wells are located on Lot E and the other well is located immediately adjacent to Lot E. No groundwater exceedances were noted at wells located near areas of concern defined by TCEQ. The affected property and surrounding area is relatively level and no surface water features were observed within the affected property; therefore, storm water runoff does not pose a threat to surface water or ecological receptors located in wetlands or other areas of valuable habitat. As previously stated, the Site has not been operational for many years, so current air deposition is extremely unlikely as well. Due to the length of time the contamination has been present and the limited exceedances detected in groundwater, it

is also extremely unlikely that groundwater seepage could lead to any surface water or sediment contamination. Additional groundwater data collected in recent sampling events provides more evidence that a groundwater to surface water or sediment pathway is incomplete. No groundwater seeps have been identified on or near the Site to date.

If the answer is yes to Subpart A above, the affected property does not meet the exclusion criteria. However, complete the remainder of Part II to determine if there is a complete and/or significant soil exposure pathway, then complete PART III - Qualitative Summary and Certification. If the answer is No, go to Subpart B.

Subpart B. Affected Property Setting

In answering "Yes" to the following question, it is understood that the affected property is not attractive to wildlife or livestock, including threatened or endangered species (i.e., the affected property does not serve as valuable habitat, foraging area, or refuge for ecological communities). (May require consultation with wildlife management agencies.)

1) Is the affected property wholly contained within contiguous land characterized by: pavement, buildings, landscaped area, functioning cap, roadways, equipment storage area, manufacturing or process area, other surface cover or structure, or otherwise disturbed ground?

_X_ Yes ____ No

Explain:

The affected property contains a regularly mowed and maintained source property in the central portion of the affected property, single-family residences in the eastern portion, water tanks and industrial development in the northern portion, CoG disturbed properties, and commercial development in the western portion, and commercial development in the southern portion of the affected property.

Off-site properties include a large Galveston County facility to the east, industrial development to the north, commercial development to the west, and commercial development to the south.

There are a few small undeveloped tracts of land in the affected property and immediately adjacent properties, however, the overall area appears to be regularly maintained or is developed; therefore, making the affected property and immediately adjacent areas much less valuable ecologically. As previously referenced, the affected property has been redefined following recent additional soil and groundwater sampling activities conducted in 2017. Specifically, the affected property has decreased significantly in size and the wetland area of concern referenced by TCEQ in the originally defined affected property is no longer located within the boundaries of the redefined affected property. The remaining smaller undeveloped tracts of land in the revised affected property are primarily located along Lennox Avenue mixed in with the current residences. In addition, Galveston Bay, West Bay (Offatt's Bayou) and any wetlands are located outside of the revised affected property. Galveston Bay, West Bay, and larger undeveloped tracts of land located to the north of the redefined affected property would provide more potential valuable habitat. In addition, larger tracts of undeveloped areas are visible in aerial photography to the north of the redefined affected property, located within and between various industrial developments.

If the answer to Subpart B above is Yes, the affected property meets the exclusion criteria, assuming the answer to Subpart A was No. Skip Subparts C and D and complete PART III - Qualitative Summary and Certification. If the answer to Subpart B above is No, go to Subpart C.

Subpart C. Soil Exposure

1) Are COCs which are in the soil of the affected property solely below the first 5 feet beneath ground surface **or** does the affected property have a physical barrier present to prevent exposure of receptors to COCs in surface soil?

____ Yes ____ No

Explain:

If the answer to Subpart C above is Yes, the affected property meets the exclusion criteria, assuming the answer to Subpart A was No. Skip Subpart D and complete PART III - Qualitative Summary and Certification. If the answer to Subpart C above is No, proceed to Subpart D.

Subpart D. *De Minimus* Land Area

In answering "Yes" to the question below, it is understood that all of the following conditions apply:

- The affected property is not known to serve as habitat, foraging area, or refuge to threatened/endangered or otherwise protected species. (Will likely require consultation with wildlife management agencies.)
- Similar but unimpacted habitat exists within a half-mile radius.
- The affected property is not known to be located within one-quarter mile of sensitive environmental areas (e.g., rookeries, wildlife management areas, preserves). (Will likely require consultation with wildlife management agencies.)
- There is no reason to suspect that the COCs associated with the affected property will migrate such that the affected property will become larger than one acre.

1) Using human health protective concentration levels as a basis to determine the extent of the COCs, does the affected property consist of one acre or less and does it meet all of the conditions above?

____ Yes ____ No

Explain how conditions are met/not met:

If the answer to Subpart D above is Yes, then no further ecological evaluation is needed at this affected property, assuming the answer to Subpart A was No. Complete PART III - Qualitative Summary and Certification. If the answer to Subpart D above is No, proceed to Tier 2 or 3 or comparable ERA.

PART III. Qualitative Summary and Certification (complete in all cases.)

Attach a brief statement (not to exceed 1 page) summarizing the information you have provided in this form. This summary should include sufficient information to verify that the affected property meets or does not meet the exclusion criteria. The person should make the initial decision regarding the need for further ecological evaluation (i.e., Tier 2 or 3) based upon the results of this checklist. After review, TCEQ will make a final determination on the need for further assessment. **Note that the person has the continuing obligation to re-enter the ERA process if changing circumstances result in the affected property not meeting the Tier 1 exclusion criteria.**

Completed by	Patrick Kainer	(Typed/Printed Name)
	Regulatory Specialist	(Title)
	July 25, 2017	(Date)

I believe that the information submitted is true, accurate, and complete, to the best of my knowledge.

Brian Maxwell	(Typed/Printed Name of Person)
City Manager	(Title of Person)
Forthcoming per transmittal	(Signature of Person)
August , 2017	(Date Signed)

SECTION 2

ATTACHMENT 2B

TIER 1 ECOLOGICAL EXCLUSION CRITERIA SUPPORTING DOCUMENTATION

Attachment 2B. Tier 1 Ecological Exclusion Criteria Supporting Documentation

The Site is located along Lennox Avenue in Galveston, Galveston County, Texas, approximately 850 ft north of Interstate Highway (IH) 45 between 59th Street and 61st Street. The Site occupies an area of approximately 4.6 acres. The affected property associated with the Site occupies an area of approximately 30 acres, bounded by 59th Street to the east, Ball Street to the south, 61st Street to the west, and the easement for BNSF railroad lines to the north. Attachment 2B-1 is an aerial photo of the Site and affected property overlain by topographic contours of the land surface. Land uses adjacent to the affected property include the following:

- To the East: 59th Street Right-of-Way (ROW), Galveston County Justice Center, various commercial developments including a gasoline station and post office.
- To the West: Commercial development, including but not limited to, Target, Home Depot, PetSmart, and other retail establishments.
- To the South: Ball Street, Commercial strip center (Subway, Big Lots).
- To the North: Railroad easement, various industrial developments.

The Site was used as a municipal incinerator from 1949 – 1953 and for firefighter training exercises from approximately 1965 through the early 1990s. Thereafter, the Site was largely abandoned. The past activities resulted in releases of COCs to shallow on site soil (< 5 ft bgs), which are metals, mainly lead and arsenic; and PAHs, mainly benzo(a)pyrene.

No surface water features are present at the Site and the nearest surface water body, Offatt's Bayou, is located approximately 875 ft from the Site. The COCs in surface soil are not expected to migrate to Offatt's Bayou due to its distance from the Site and the relatively level Site topography that inhibits runoff. Other off-site disturbed surface water features mapped as "wetlands" by USGS were examined in the field and compared to the USFWS NWI Online Viewer on July 25, 2017. These features were all labeled as either "excavated" or "temporary flooded." Field observations and analysis of recent and historical aerial photographs indicate that these disturbed surface water features were likely created during construction of the railroad tracks located to the north of the affected property. This area is maintained regularly as conditions allow by the City of Galveston. They do not provide attractive or valuable habitat; however, nearby Offatt's Bayou and Galveston Bay provide more valuable habitat. The affected property does not extend to these surface water features and impacts from migration of COCs in surface soil (and potentially shallow groundwater) are unlikely.

The affected property and land within 500 ft of the affected property, is mostly developed or regularly maintained. Most of the area is paved, mowed, or otherwise disturbed by vehicular traffic, salvage/storage yards, or other construction. It is not anticipated that the affected property or adjacent land would be attractive to wildlife and any use would be transitory in nature.

The Site and affected property meet Subparts A and B of the checklist. Therefore, the affected property meets the exclusion criteria, and further ecological evaluation is not warranted.

SECTION 3

ASSESSMENT STRATEGY

Section 3 Assessment Strategy

Section 3.1 General Assessment Issues

Environmental Media Assessed

Surface soil and groundwater were assessed, based on a depth to shallow groundwater of approximately 2 to 5 ft bgs across the Site (Meridian, March 2006; EFI Global, April 2015; and this APAR). Due to the shallow groundwater, there is no residential subsurface soil (i.e., soil deeper than 15 ft bgs) or C/I subsurface soil (deeper than 5 ft bgs) to be assessed.

Some debris (typically glass) was observed during the drilling and soil sampling activities. This is likely related to past land uses and multiple large storms that have passed through Galveston Island since the time of incinerator operation.

Groundwater samples from the shallow GWBU that were collected prior to this APAR documented the presence of arsenic, cadmium, lead, silver, and several organochlorine pesticides at concentrations above the Tier 1 RALs, i.e., the ${}^{GW}GW_{Ing}$ PCLs (Meridian, March 2006); however, as previously discussed in Section 1.2, the reported exceedances of pesticides were later determined not to be site specific COCs due to a unit conversion error. Shallow groundwater does not meet Class 1 use criteria, but aquifer testing was not conducted; therefore, by default, the shallow GWBU is classified as a Class 1/Class 2 groundwater resource under TRRP (TCEQ, March 2010). The groundwater ingestion pathway was assessed; a MSD certificate (No. 333), however, was recently issued by the TCEQ in 2017 for the affected property. This renders the human ingestion of groundwater pathway incomplete. Therefore, the soil was not screened against the ${}^{GW}Soil_{Ing}$ PCLs. The soil samples were screened against the ${}^{Tot}Soil_{Comb}$ PCLs.

Target COCs

The target COCs analyzed in soil and groundwater samples collected for this APAR were analyzed using the following EPA SW846 (current edition) methods:

- SW6020A - Metals;
- SW7471B - Mercury;
- SW8260C - Volatile Organic Compounds (VOCs);
- SW8270D - Semivolatile Organic Compounds (SVOCs), Polycyclic Aromatic Hydrocarbons (PAHs); PCBs; and
- SW8290A - Dioxins and Furans.

Samples were also analyzed for TPH using TCEQ Method 1005 and for Perflurooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS) compounds using EPA Method 537.

The target COCs that were analyzed for the APAR were selected based on:

- Documented historical activities performed at the site and process knowledge;
- COCs that were detected in previous investigations conducted at the Site (Meridian, March 2006; EFI Global, April 2015); and
- Unknown/undocumented activities, wastes, and/or materials potentially associated with the Site throughout its 65+ year history.

As phased soil sampling to complete delineation of the affected property progressed, potential COCs that were not detected or that were only detected at concentrations below the Tier 1 RALs were eliminated from further consideration.

Sampling Summary

Soil samples for this APAR were collected to a maximum total depth of 5 ft bgs, or directly above the soil/groundwater interface, if shallower. In the reports prepared for those earlier studies (Meridian, March 2006; EFI Global, April 2015) it is stated that the depth to groundwater at the time samples were collected was approximately 3.5 ft bgs and 2 ft or 4 ft bgs, respectively. On the basis of this information, samples collected below these depths would have been saturated and therefore not representative of soil conditions.

To supplement the historical data included in this revised APAR, AECOM collected soil samples from a total of 58 locations at and around the Site (Lot E) to define the nature and extent of COCs for this APAR. A total of 96 soil samples were collected from the 58 locations in five separate rounds of step-out sampling, the first round locations were selected based on historical soil sample results.

- In the first round of step-out sampling (June 23–25, 2015), 46 soil samples were collected from 23 soil boring locations and analyzed for metals (including mercury). In addition, 20 of these soil samples were analyzed for VOCs, SVOCs, PCBs and dioxins/furans; and four of the 20 soil samples were analyzed for TPH.
- In the second round of sampling (August 25, 2015), 12 soil samples were collected from 12 locations and analyzed for metals (including mercury) and PAHs. The 12 soil samples were collected from 0-0.5 ft bgs.
- The third round of step-out sampling was performed on September 16, 2015. Seven soil samples were collected from seven separate locations from an interval of 0–0.5 ft bgs. One of the soil samples was not needed to complete delineation, and was therefore not analyzed. The remaining six soil samples were analyzed for metals, including mercury, and three of the six soil samples were also analyzed for PAHs. The soil samples collected and analyzed for this assessment complete delineation of the lateral extent of soil with COC concentrations above the residential $^{Tot}Soil_{Comb}$ PCLs, which encompasses an area of approximately 27.73 acres.
- The fourth soil sampling event was conducted in January 2017 and included step-out sampling efforts at 16 new soil boring locations per comments provided by TCEQ on April 28, 2016, with 5 of the 16 boreholes converted into permanent two-inch monitoring wells. A total of 30 additional soil samples were collected.
- The fifth sampling event performed in July 2017 focused on collecting an “initial characterization” sample for perflourinated compounds in soil and groundwater at the Site, as requested by the TCEQ in a letter dated October 24, 2016.
- In addition to the five rounds of soil sampling described above, two rounds of groundwater samples at each permanent monitoring well (8 previously installed and the 5 newly installed wells) were collected in February 2017 and April 2017.

Figure 1B shows the extent of the affected property and the protective concentration level exceedance (PCLE) zones for metals, PAHs and TPH.

Background

No site-specific soil background study for metals or anthropogenic COCs has been performed for the Site.

Section 3.2 Assessment Strategy

The general assessment approach and methods are described below. Sample results and locations are discussed in Section 4 and Section 5.

General Assessment Approach

The general assessment approach for delineation of the affected soil was developed using information from the Phase I ESA Report (Meridian, April 2003) and soil sampling results from the APAR that was prepared for the Brownfields Site Assessment Pilot Project (Meridian, March 2006). Analytical results for supplemental soil samples collected by EFI Global in March 2014 and September 2014 (EFI Global, April 2015) were also considered during development of the sampling approach for the AECOM 2016 APAR and this revised APAR.

Initial soil sampling locations were selected using the previous data to the extent possible. However, existing infrastructure, dense vegetation, and debris on site; and limited or no access to some off-site properties necessitated collecting some step out soil samples at secondary locations, such as within road right-of-ways (ROWs), to complete lateral delineation of the affected property to Tier 1 RALs.

Following multiple discussions and meetings with TCEQ, it was determined that TRRP is the most suitable regulatory program for this project.

<u>Sampling Approach</u>

Soil and groundwater samples were collected at locations selected to characterize the known and potential on-site COC source areas and to define the lateral extent of COC concentrations above the Tier 1 RALs. Samples were analyzed for the full suite or a subset of the site-specific target COCs listed above in Section 3.1 by National Environmental Laboratory Accreditation Program (NELAP)-accredited labs using standard SW846 methods. No non-aqueous phase liquid (NAPL) was encountered at any sampling location.

<u>Surface Water and Sediment Assessment</u>

Surface water and sediment were not assessed for this revised APAR, because the exposure pathways associated with these media are incomplete (see Section 2.6, Table 2C).

<u>Utilities</u>

Underground utilities at the Site are listed in Table 3A. They include electric and natural gas lines that run from Lennox Avenue to the old incinerator building and a fire water main that runs along the northern and western property boundaries (Meridian, March 2006).

Because of the shallow depth to groundwater at the Site (approximately 2-3 ft bgs), some underground utilities may be below the groundwater surface at certain times, considering seasonal conditions and tidal influences. During such times, the potentially more permeable backfill, if present in the utility corridors, could act as a preferential off-site migration pathway for COCs in groundwater at the Site. However, the

MSD ordinance covers an area that is larger than the Site (approximately 37.61 acres vs. 4.654 acres); making it less likely that groundwater transport of COCs beyond the MSD boundaries at concentrations above the ${}^{GW}GW_{Ing}$ PCLs would occur. Attenuation, mainly through adsorption and dilution, would reduce the COC concentrations with increasing distance from the source.

Assessment Methods

Surface soil and groundwater are the only environmental media addressed by this APAR. Due to the shallow occurrence of groundwater (typically < 5 ft bgs) at the Site, the maximum depth of soil sampling for the APAR was 5 ft bgs. Samples were collected using hand augers or direct push technology (DPT) depending on the total depth of sampling at each location. Hand augers were used to collect samples to a maximum depth of 3.5 ft bgs and DPT was used for deeper sampling (maximum depth of 15 ft bgs). DPT samples were collected in an acetate sleeve to ensure sample representativeness. Upon recovery, soil was screened with a photoionization detector (PID) and logged, noting any obvious evidence of contamination e.g., discoloration, odor, elevated PID reading, etc.). Groundwater samples were collected using low flow methodology. The soil and groundwater samples were collected in properly labeled laboratory-supplied containers, packed in ice-filled insulated coolers, and shipped or manually transported to the lab with appropriate chain-of-custody documentation.

Soil and groundwater samples were analyzed by DHL Analytical, Inc. (DHL) in Round Rock, Texas, and Eurofins Lancaster (Eurofins) in Lancaster, Pennsylvania. The perfluorinated compounds were analyzed by ALS Group USA, Corp. (ALS) in Kelso, Washington. The labs are NELAP-accredited under the Texas Laboratory Accreditation Program (TLAP) at the time the analyses were performed and used EPA SW846 test methods. Data usability was determined in accordance with TRRP-13 guidance (TCEQ, May 2010).

Data Quality

Analytical data and the Data Usability Summary (DUS) for the soil and groundwater samples collected by AECOM for this revised APAR are provided in Appendix 10. The lab reports from Xenco Laboratories for historical soil samples collected for the Phase II ESA/APAR (Meridian, March 2006) and for supplemental step-out samples collected in 2014 (EFI Global, March 2014; September 2014) were reviewed by AECOM chemists, who determined the data are of sufficient quality to be used in this APAR.

Analytical methods for soil samples collected by AECOM in 2015 and 2017 for this APAR were selected based on their ability to meet the required assessment levels, i.e., the residential ${}^{Tot}Soil_{Comb}$ PCLs for PAH and metals (lead and arsenic). They are standard analytical methods that a laboratory performs on a routine basis that meet the requirements for method quantitation limits (MQLs), precision, accuracy, representativeness, and comparability.

DHL in Round Rock, Texas, Eurofins in Lancaster, Pennsylvania, and ALS in Kelso, Washington are the accredited laboratories that performed the chemical analyses. All three laboratories perform these analytical methods on a routine basis and meet the precision, accuracy, representativeness, and comparability requirements for the APAR. Data validation was conducted in accordance with TRRP-13, *Review and Reporting of COC Concentration Data under TRRP* (TCEQ, May 2010).

SECTION 3

TABLE 3A

UNDERGROUND UTILITIES

Table 3A. Underground Utilities

Utility type	Construction material	Backfill material	Approx. depth (ft)	Utility company name	Potential migration pathway?		Affected?	
					Yes	No	Yes	No
Electric	Unknown	Unknown	Unknown	Center Point Energy or TXU	√		Unknown	Unknown
Natural Gas	Unknown	Unknown	Unknown	Texas Gas Service	√		Unknown	Unknown
Water	Unknown	Unknown	Unknown	City of Galveston	√		Unknown	Unknown

SECTION 4

SOIL ASSESSMENT

Section 4 Soil Assessment

Section 4.1 Derivation of Assessment Levels

Assessment levels were determined in accordance with the TRRP rule at 30 Texas Administrative Code (TAC) §350.51 and the TCEQ guidance document, TRRP-12 *Affected Property Assessment Requirements* (RG-366/TRRP-12) (TCEQ, May 2010). The Site meets the Tier 1 Exclusion Criteria Checklist requirements, which demonstrates the Site does not pose an ecological threat. Therefore, no further ecological assessment is warranted, so it was not necessary to develop ecological PCLs.

For human health, the potentially complete exposure pathway is combined exposure through inhalation, ingestion, and dermal contact with surface soil ($^{Tot}Soil_{Comb}$). As discussed previously, the protection of groundwater through ingestion pathway ($^{GW}Soil_{Ing}$) is addressed with the MSD ordinance for the Site and surrounding area adopted on January 4, 2017. The MSD effectively renders the groundwater ingestion pathway incomplete. Potential exposure pathways associated with air, surface water, and sediment were determined to be incomplete, based on site-specific conditions. Therefore, the only remaining potentially complete pathway is $^{Tot}Soil_{Comb.}$ Land use for the Site and surrounding City of Galveston properties are commercial/industrial. There are no residences within the Site, so the potential on-site receptors are Site workers, visitors, and trespassers. Private residences are located off site (but inside the affected property) to the east along Lennox Avenue, so residents are additional receptors for this off-site area of the affected property.

The Tier 1 residential $^{Tot}Soil_{Comb}$ PCLs for a 30-acre source area were compared to the soil sample method quantitation limit (MQL), which is lower for all compounds assessed. Therefore, the $^{Tot}Soil_{Comb}$ PCLs were selected as the assessment level for all organics. A site-specific background study for metals in soil has not been conducted, but the Texas-Specific Soil Median Background Concentrations (TCEQ, March 2007) are lower than their respective residential $^{Tot}Soil_{Comb}$ PCLs (TCEQ, March 2017), so the $^{Tot}Soil_{Comb}$ PCL was selected as the assessment level for all metals.

The soil screening assessment was performed using TRRP Commander™ Software, Version 9.01. Table 4A presents the residential assessment levels for all target COCs. Table 4B is not applicable, because there is no ecological component. Table 4C and Figure 4B are also not applicable, because no residential subsurface samples, i.e., > 15 ft bgs, were collected due to the shallow nature of the GWBU at the Site. The maximum depth of affected soil is generally < 5 ft bgs.

Section 4.2 Nature and Extent of COCs and NAPL in Soil

As discussed in Section 1.2, historical activities associated with the on-site affected property include incineration of municipal solid waste and fire-fighting training exercises. The nature and extent of COCs in surface soil is discussed below. Analytical results for soil are summarized in Table 4D. Figure 4A depicts all COCs that were detected above the surface soil (0-15 ft bgs) assessment levels. Due to the shallow groundwater, there is no residential subsurface soil (> 15 ft bgs).

The surface soil evaluation for this APAR was based on data collected from the following remedial investigation sampling activities, discussed in more detail in Section 3. This APAR also incorporates the dioxin/furan and PCB data that were inadvertently excluded from the 2016 APAR submittal. The parameters below were based on the historical knowledge of past operations at the Site and from findings collected during the initial site investigation in 2006. Confirmed sources of release from historical on-site

operations include the waste fuel ASTs, fire training area/burn pits, and incinerator. Details on the nature and extent of soil COCs follow.

- **2005 Investigation** – Surface samples from 10 locations analyzed for metals, organochlorine pesticides, and SVOCs.
- **2014 Investigation** – Surface samples from 40 locations analyzed for metals, organochlorine pesticides, and SVOCs.
- **2015 Investigation** – Surface samples from 58 locations analyzed for dioxins/furans, metals, PCBs, TPH, SVOCs, and VOCs (not all analyses were run for each sample).
- **2017 Investigation** – Surface samples from 17 locations analyzed for metals, PCBs, TPH, SVOCs, VOCs, and perfluorinated compounds (not all analyses were run for each sample).

AECOM submitted an APAR to TCEQ on January 14, 2016 that incorporated site investigations previously conducted in 2006 and 2014 (by other consultants) and in 2015 (by AECOM). The TCEQ responded with comments on April 28, 2016 requesting additional delineation and data gap analysis. Additional samples were collected in 2017 on and near the Site, on the adjacent residential areas, and on the off-site CoG properties for additional delineation as requested by the TCEQ.

Though the depth to saturation may be less than 5 ft bgs at some locations, for consistency, all soil samples from 0 to 5 ft bgs were used for the soil assessment. Saturated samples deeper than 5 ft bgs were not considered in this analysis.

Table 4D provides a summary of target COCs detected for this assessment and previous investigations (Meridian, March 2006 and EFI Global, March 2014; September 2014), and identifies results that exceed the Tier 1 RALs (residential $^{Tot}Soil_{Comb}$ PCLs).

Metals impacts (primarily lead and arsenic) were detected both onsite and offsite. PAH impacts (benzo-a-pyrene) were detected offsite on both the residential and CoG properties. PCB and TPH impacts were detected onsite only. The total area of affected soil, based on the locations of perimeter samples with concentrations below PCLs, is approximately 27.73 acres. Figures 4A-1 through 4A-5 show the surface soil sample locations, COC concentrations, corresponding affected property boundary, and residential PCLE zone for the COCs (PAHs, bis-2-ethylhexylphthalate, PCBs, TPH, and metals, respectively). Figure 4C shows two perpendicular geologic cross sections through the affected property/residential PCLE zones (locations of these cross sections are shown on Figure 4C-1). The COCs in surface soil being considered for response actions are metals (lead and arsenic) and organics (PAHs and TPH). Table 4E is not applicable, because no geochemical or geotechnical testing was performed for the APAR.

Organics Results

The following organics were detected above the residential assessment levels (RALs) in surface soil (0-15 ft bgs) based on the updated data set:

- Benz-a-anthracene;
- Benzo-a-pyrene;
- Benzo-b-fluoranthene;
- Bis(2-ethylhexyl) phthalate;
- Dibenz(a,h)anthracene;
- PCBs;

- TPH (C6-C12); and
- TPH (>C12-C28).

Table 4-1 below summarizes the total number of samples collected for each analyte, the detection rates and number of exceedances above the RAL for each analyte.

Table 4-1. Summary of SVOC, PCB and TPH Detections

Analyte	RAL (mg/kg)	Total Samples	Detections	Percent Detected (%)	Number of Exceedances Above the RAL	Maximum Exceedance (mg/kg)	Location of Maximum Exceedance	Average Concentration (mg/kg)
Benz-a-anthracene	41	163	139	85.3	1	59.7 JH	INC-SB16	1.73
Benzo-a-pyrene	4.1	160	138	86.3	14	52.6 JH	INC-SB16	1.71
Benzo-b-fluoranthene	41	160	140	87.5	1	49.3 JH	INC-SB16	1.87
Bis(2-ethylhexyl) phthalate	43	57	35	61.4	1	83.9	INC-SB06	2.62
Dibenz(a,h)-anthracene	4.0	160	91	56.6	1	5.9 J	INC-SB16	0.35
PCBs	1.1	22	10	45.5	1	4.78	INC-SB09	0.59
TPH (C6-C12)	1,100	8	1	12.5	1	13,300 JH	INC-SB57	13,000
TPH (>C12-C28)	2,000	8	8	100	1	22,900 JH	INC-SB57	3,218

Notes: % - percent.
J - Estimated.
H - Bias in result is likely high.
mg/kg - milligrams per kilogram.
RAL - Residential Assessment Level.

PAHs

As shown in Table 4-1 above, the maximum concentration of all PAHs were detected from INC-SB16 at a depth of 0-0.5 ft bgs. The sample was collected from Lot C, an adjacent impound yard owned and operated by the City of Galveston. According to the Phase I ESA conducted in 2003, the lot is primarily used for storage by the City Water department and was previously used for automobile storage (Meridian, April 2003). The benzo-a-anthracene, benzo-a-pyrene, and benzo-b-fluoranthene exceedances from this sample were flagged as JH (the concentrations were estimated and bias in the sample result is likely high).

PAHs in Table 4-1 exceeded the RAL once, with the exception of benzo-a-pyrene. Benzo-a-pyrene was detected in 138 of 160 samples (86.3% detection rate) and exceeded the RAL of 4.1 mg/kg in 14 samples. PAHs were not detected in groundwater samples, including samples collected from MW-11 (adjacent to INC-SB16), indicating that the PAHs at INC-SB16 are not leaching to groundwater. The presence of PAHs from INC-SB16 is possibly due to ubiquitous sources such as vehicle exhaust.

When averaged, the resulting average concentrations for all detected PAHs in residential surface soil are less than their respective RALs, as shown in Table 4-1. Therefore, based on the calculated average concentrations, benzo-a-anthracene, benzo-a-pyrene, benzo-b-fluoranthene, and dibenz(a,h)anthracene are considered to be delineated in surface soils, as shown in Figure 4A-1.

The TCEQ provided a comment for the 2016 AECOM APAR stating that the benzo(a)pyrene concentration found within boring INC-SB51 (0.56 mg/kg) is not representative of releases from the VCP project. The TCEQ requested for a soil boring to be advanced towards the center of this city-owned

parcel, which was completed in March 2017. The sample was collected from 0-0.5 ft bgs and analyzed for metals and PAHs. The analytical data for this soil boring (INC-SB71) indicated that there are no RAL exceedances. Additionally, the benzo-a-pyrene concentration at INC-SB51 no longer exceeded its RAL after the TRRP PCLs were updated in March 2017 (the RAL increased from 0.56 mg/kg to 4.1 mg/kg).

bis(2-Ethylhexyl)phthalate

The maximum concentration of bis(2-ethylhexyl)phthalate was detected at on-site boring location INC-SB06 at a depth of 3-4 ft bgs. The analyte was detected in 35 of 57 samples (61.4% detection rate) and the maximum concentration was the only exceedance of the RAL (43 mg/kg). The sample with the maximum detected concentration was diluted to a factor of 100. When averaged, the average concentration for bis(2-ethylhexyl)phthalate (2.62 mg/kg) is less than its RAL, indicating that this analyte is delineated in surface soils, as shown in Figure 4A-2. Based on the minimal exceedance of this analyte, no further action is warranted.

PCBs

The maximum concentration of PCBs was detected at INC-SB09 at a depth of 0-0.5 ft bgs. The sample, collected on-site, was the only exceedance of PCBs out of 22 samples and 10 detections (45.5% detection rate). PCBs were not detected in groundwater, indicating that PCBs are not leaching to groundwater. The average detected concentration of detections is 0.59 mg/kg, which is less than the RAL of 1.1 mg/kg. Therefore, PCBs are considered to be delineated in surface soils, as shown in Figure 4A-3. Based on the limited exceedances of this analyte, no further action is warranted.

TPH

The maximum concentrations of TPH (C6-C12 and >C12-C28 carbon ranges) were detected at INC-SB57 from 1.5-2 ft bgs. For the C6-C12 range, the maximum concentration was the only detection/exceedance out of 8 samples (12.5% detection rate). For the >C12-C28 range, the maximum concentration was the only exceedance out of 8 samples (100% detection rate). Lateral and vertical delineation for TPH can be inferred based on the sample locations immediately adjacent to INC-SB57 that did not exceed their respective RALs of 1,100 mg/kg (C6-12) and 2,000 mg/kg (>C12-C28) as shown in Figure 4A-4.

The analytes shown above in Table 4-1 will be carried forward into Section 11 for cPCL development.

Metals Results

The following metals were detected above the RALs in surface soil based on the updated data set:

- Antimony;
- Arsenic;
- Cadmium;
- Lead; and
- Mercury.

Table 4-2 below summarizes the detection rates and exceedances above the RAL for each analyte.

Table 4-2. Summary of Metals Detections

Analyte	RAL (mg/kg)	Total Samples	Detections	Percent Detected (%)	Number of Exceedances Above the RAL	Maximum Exceedance (mg/kg)	Location of Maximum Exceedance	Average Concentration (mg/kg)
Antimony	15	26	20	77	6	148	INC-SB57	19.3
Arsenic	24	165	157	95.2	40	229	INC-SB09	19.3
Cadmium	52	152	132	86.8	1	68.4	INC-SB08	4.93
Lead	500	173	173	100	84	30,400	INC-SB12	1,630
Mercury	2.1	151	139	92.1	5	13.4	SB-6	0.48

Notes: % - percent.
mg/kg - milligrams per kilogram.
RAL - Residential Assessment Level.

Antimony was detected in 20 of 26 samples (77% detection rate). The maximum concentration of 148 mg/kg was detected at INC-SB57, which is an on-site sample. Antimony exceeded its RAL of 15 mg/kg in six samples. On-site exceedances of antimony will be addressed with the implementation of the remedy (on-site cap). All samples collected off-site do not exceed the RAL and are delineated.

Arsenic was detected in 157 of 165 samples (95.2% detection rate). The maximum concentration of 229 mg/kg was detected at INC-SB09, which is on-site. Arsenic exceeded its RAL of 24 mg/kg in 40 samples. However, the average concentration of arsenic is 19.3 mg/kg, which is below the RAL. Therefore, arsenic is laterally and vertically delineated to the RAL. Off-site exceedances are delineated to the RAL. On-site exceedances of arsenic will be addressed with the implementation of the remedy (on-site cap).

Cadmium was detected in 132 of 152 samples (86.8% detection rate) with only one (1) detection (the maximum detection) that exceeded the RAL. The maximum detected concentration of 68.4 mg/kg was detected at INC-SB08, located on-site, and was the only exceedance of the RAL (52 mg/kg). In addition, the average concentration of cadmium (4.93 mg/kg) is well below the RAL, further indicating that cadmium is laterally and vertically delineated to the RAL.

Lead was detected in 173 of 173 samples (100% detection rate). The maximum concentration of 30,400 mg/kg was detected at INC-SB12, located on-site. Lead exceeded its RAL of 500 mg/kg in 84 samples. Lead is laterally delineated on- and off-site and is vertically delineated to the GWBU. The MSD designation for groundwater renders the ^{GW}Soil pathways incomplete. The on-site lead exceedances will be addressed with the remedy (on-site cap). Off-site remedies are still being considered but can include deed recording the off-site commercial/industrial properties and excavation.

Mercury was detected in 139 of 151 samples (92.1% detection rate). The maximum concentration of 13.4 mg/kg was detected at SB-6, located on-site. Five samples exceeded the RAL of 2.1 mg/kg. When averaged, the resulting average concentration of 0.48 mg/kg is below the RAL. With the exception of SB-02, mercury is laterally and vertically delineated; however, the exceedance at SB-02 and the maximum concentration at SB-06 will both be addressed with the remedy (on-site cap).

The analytes shown above in Table 4-2 will be carried forward into Section 11 for cPCL development.

PFOA/PFOS Results

Following a review of AECOM's Response to Comments Memorandum dated August 22, 2016, the TCEQ requested a more focused soil and groundwater assessment at a potential source area where historical documents indicated firefighting foam was used. This potential source area is in the immediate vicinity of concrete bermed pit area No. 1 in the former firefighter training area located on Lot E. The TCEQ requested an initial characterization of Perflurooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS). During a meeting with TCEQ on July 10, 2017, TCEQ's request for initial characterization was discussed further and it was determined that a presence/absence sampling event in soil and groundwater would be sufficient for this initial characterization. AECOM mobilized to the Site on July 20, 2017 and one soil sample was collected in the potential source area and analyzed for PFOA/PFOS using EPA Method 537. The sample results were compared to 16 compounds with PCLs available on the TCEQ TRRP PCL tables.

Relatively low concentrations of perfluorinated compounds (for nine of the 16 compounds) were detected is the soil sample collected. The laboratory analytical constituent concentrations for the soil sample was compared to the TCEQ's TRRP Tier 1 PCLs (residential $^{Tot}Soil_{Comb}$) for each analyte. None of the 16 compounds were detected in concentrations above the TRRP Tier 1 PCLs. Based on this information, no further action is warranted.

AECOM followed TCEQ guidance for sampling these compounds and also coordinated directly with the laboratory to ensure that these samples were collected in a manner to prevent any potential cross contamination. The results of the soil assessment can be found in Table 4-3 below. Perfluorinated compounds detected in the soil sample collected were below their applicable soil RALs and will not be carried forward to Section 11.

Table 4-3 – PFOA/PFOS Results, July 20, 2017

Analyte	PCL (Res $^{Tot}Soil_{Comb}$) mg/kg	PEC-1 mg/kg
Perfluorobutanoic acid (PFBA)	160	<0.0013
Perfluoropentanoic acid (PFPeA)	0.25	<0.0013
Perfluorobutane sulfonic acid (PFBS)	80	<0.0013
Perfluorohexanoic acid (PFHxA)	0.25	<0.0013
Perfluoroheptanoic acid (PFHpA)	1.5	<0.0013
Perfluorohexane sulfonic acid (PFHxS)	0.24	**0.0046**
Perfluorooctanoic acid (PFOA)	0.49	<0.0013
Perfluoroheptane sulfonic acid (PFHpS)	N/A	<0.0013
Perfluorononanoic acid (PFNA)	0.73	<0.0013
Perfluorooctane sulfonic acid (PFOS)	1.5	**0.075**
Perfluorodecanoic acid (PFDA)	0.98	**0.0026**
Perfluoroundecanoic acid (PFUnDA)	0.80	**0.018**
Perfluorooctane sulfonamide (FOSA)	0.031	**0.004**
Perfluorododecanoic acid (PFDoDA)	0.78	**0.0058**
Perfluorotridecanoic acid (PFTrDA)	0.61	**0.032**
N-Methyl perfluorooctane sulfonamide (MeFOSA)	N/A	<0.0013
N-Methyl perfluorooctane sulfonamidoethanol	N/A	<0.0013
Perfluorotetradecanoic acid (PFTeDA)	0.51	**0.0019**
N-Ethyl perfluorooctane sulfonamidoethanol	N/A	<0.0013
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N/A	<0.0013
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N/A	**0.0064**
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	N/A	<0.0013
Perfluorodecane sulfonic acid (PFDS)	0.80	**0.014**

Notes; < - less than.
mg/kg – milligrams per kilogram.
N/A – not applicable.
PCL – Protective Concentration Level.
Results in **bold** indicates detection
PEC-1 - Potential Emerging Contaminant Soil Sample No. 1

SECTION 4

TABLE 4A

SURFACE SOIL RESIDENTIAL ASSESSMENT LEVELS WITH NO ECOLOGICAL COMPONENT

Table 4A. Surface Soil Residential Assessment Levels for Human Health Pathways

ID No.

GLO Galveston - 2017 APAR Revision

Groundwater Classification: Class 1

Date of Tier 1 Tables used for Assessment Levels: 03/31/2017

TRRP Commander v9.01 Lic. No. TCSC9010315138, AECOM (URS)

Chemical of Concern	Tier 1 Source Area	Tot SOIL Comb	GW SOIL		Soil Sample MQL	Back-ground Conc.	Maximum Surface Soil				
							Sample			Conc.	SQL
	(acres)	(mg/kg)	(mg/kg)	Tier	(mg/kg)	(mg/kg)	ID	depth	date	(mg/kg)	(mg/kg)
Acenaphthene	30	3.0E+03	NA	1	1.0E-02		INC-SB58	2.6	1/16/2017	6.7E+00	4.5E-01
Acenaphthylene	30	3.8E+03	NA	1	1.0E-02		SB-20	0.5	9/30/2014	5.4E+00	4.5E-01
Acetone (2-propanone)	30	5.9E+04	NA	1	5.0E-02		INC-SB57	2.0	1/26/2017	4.4E-01	3.0E-02
Acetophenone	30	6.7E+03	NA	1	2.7E-02		Not Detected				1.2E-01
Aldrin	30	5.0E-02	NA	1			B8-S	1.0	10/5/2005	2.6E-03	1.0E-02
Anthracene	30	1.8E+04	NA	1	1.0E-02		SB-20	0.5	9/30/2014	6.2E+00	3.2E-01
Antimony	30	1.5E+01	NA	1	1.0E+00	1.0E+00	INC-SB57	2.0	1/26/2017	1.5E+02	6.0E-01
Arsenic	30	2.4E+01	NA	1	1.0E+00	5.9E+00	INC-SB09	3.5	6/25/2015	2.3E+02	6.8E+00
Atrazine	30	2.1E+01	NA	1	2.7E-02		Not Detected				1.2E-01
Barium	30	8.1E+03	NA	1	2.0E+00	3.0E+02	INC-SB54	0.5	1/16/2017	3.1E+03	
Benz-a-anthracene	30	4.1E+01	NA	1	1.0E-02		INC-SB16	0.5	6/23/2015	6.0E+01	3.2E-01
Benzaldehyde	30	8.2E+03	NA	1	2.7E-02		Not Detected				1.2E-01
Benzene	30	6.9E+01	NA	1	5.0E-03		INC-SB02	3.5	6/25/2015	2.6E-03	2.0E-03
Benzo-a-pyrene	30	4.1E+00	NA	1	1.0E-02		INC-SB16	0.5	6/23/2015	5.3E+01	3.2E-01
Benzo-b-fluoranthene	30	4.1E+01	NA	1	1.0E-02		INC-SB16	0.5	6/23/2015	4.9E+01	1.9E-01
Benzo-g,h,i-perylene	30	1.8E+03	NA	1	1.0E-02		INC-SB16	0.5	6/23/2015	2.7E+01	3.2E-01
Benzoic acid	30	2.7E+05	NA	1	1.3E-01		INC-SB09	0.5	6/25/2015	1.1E+00	6.1E-01
Benzo-k-fluoranthene	30	4.2E+02	NA	1	1.0E-02		INC-SB16	0.5	6/23/2015	2.3E+01	2.3E-01
Benzyl alcohol	30	6.7E+03	NA	1	6.6E-02		Not Detected				1.2E-01
Beryllium	30	3.8E+01	NA	1	3.0E-01	1.5E+00	INC-SB54	0.5	1/16/2017	3.0E+00	1.2E-01
Biphenyl, 1,1-	30	1.2E+04	NA	1	2.7E-02		INC-SB03	0.5	6/25/2015	1.0E-01	1.2E-01
Bis (2-chloroethoxy) methane	30	2.5E+00	NA	1	2.7E-02		Not Detected				1.2E-01
Bis (2-chloroethyl) ether	30	1.4E+00	NA	1	2.7E-02		Not Detected				1.2E-01
Bis (2-chloroisopropyl) ether	30	4.1E+01	NA	1	2.7E-02		Not Detected				1.2E-01
Bis (2-ethyl-hexyl) phthalate	30	4.3E+01	NA	1	6.6E-02		INC-SB06	4.0	6/24/2015	8.4E+01	4.5E-01
Bromobenzene	30	2.8E+02	NA	1	5.0E-03		Not Detected				2.0E-03
Bromodichloromethane	30	9.8E+01	NA	1	5.0E-03		Not Detected				2.0E-03
Bromoform	30	2.8E+02	NA	1	5.0E-03		Not Detected				2.0E-03
Bromomethane	30	2.9E+01	NA	1	5.0E-03		Not Detected				2.0E-03
Bromophenyl phenylether, 4-	30	2.7E-01	NA	1	2.7E-02		Not Detected				1.2E-01
Butyl benzyl phthalate	30	1.6E+03	NA	1	6.6E-02		INC-SB03	0.5	6/25/2015	7.3E-02	4.8E-01
Butylate	30	3.3E+03	NA	1			Not Analyzed				
Butylbenzene, n-	30	3.3E+03	NA	1	5.0E-03		INC-SB57	2.0	1/26/2017	3.3E-02	2.0E-03
Butylbenzene, sec-	30	3.3E+03	NA	1	5.0E-03		INC-SB57	2.0	1/26/2017	4.7E-02	2.0E-03
Butylbenzene, tert-	30	3.3E+03	NA	1	5.0E-03		INC-SB57	2.0	1/26/2017	4.6E-03	2.0E-03
Cadmium	30	5.2E+01	NA	1	3.0E-01		INC-SB08	3.0	6/24/2015	6.8E+01	1.4E+00
Caprolactam	30	3.3E+04	NA	1	2.7E-02		INC-SB07	0.5	6/24/2015	8.3E-02	2.4E-01
Carbazole	30	2.3E+02	NA	1	2.7E-02		INC-SB03	0.5	6/25/2015	1.2E+00	1.2E-01
Carbon disulfide	30	3.3E+03	NA	1	1.5E-02		INC-SB06	4.0	6/24/2015	7.6E-03	9.9E-03
Carbon tetrachloride	30	2.3E+01	NA	1	5.0E-03		Not Detected				2.0E-03
Chlordane (technical)	30	5.9E+00	NA	1			B8-S	1.0	10/5/2005	1.0E-01	6.9E-01
Chlordane, cis- (alpha chlordane)	30	1.3E+01	NA	1			SB-2	0.5	3/11/2014	8.1E-02	1.6E-02
Chlordane, trans- (gamma chordane	30	7.3E+00	NA	1			SB-2	0.5	3/11/2014	1.2E-01	2.2E-02
Chloride*	30		NA	1			Not Analyzed				
Chloro-3-methylphenol, 4-	30	3.3E+02	NA	1	2.7E-02		Not Detected				1.2E-01
Chloroaniline, p-	30	2.3E+01	NA	1	6.6E-02		Not Detected				3.6E-01
Chlorobenzene	30	3.2E+02	NA	1	5.0E-03		Not Detected				2.0E-03

Table 4A. Surface Soil Residential Assessment Levels for Human Health Pathways

ID No.

GLO Galveston - 2017 APAR Revision

Groundwater Classification: Class 1

Date of Tier 1 Tables used for Assessment Levels: 03/31/2017

TRRP Commander v9.01 Lic. No. TCSC9010315138, AECOM (URS)

Chemical of Concern	Tier 1 Source Area	Tot SOIL Comb	GW SOIL		Soil Sample MQL	Back-ground Conc.	Maximum Surface Soil				
							Sample			Conc.	SQL
	(acres)	(mg/kg)	(mg/kg)	Tier	(mg/kg)	(mg/kg)	ID	depth	date	(mg/kg)	(mg/kg)
Chlorobromomethane (bromochloro	30	3.3E+03	NA	1	5.0E-03		Not Detected				2.0E-03
Chloroethane (ethyl chloride)	30	2.3E+04	NA	1	5.0E-03		Not Detected				2.0E-03
Chloroform	30	8.0E+00	NA	1	5.0E-03		Not Detected				2.0E-03
Chlorohexane, 1-	30	2.3E+03	NA	1	5.0E-03		Not Detected				2.0E-03
Chloromethane (methyl chloride)	30	8.4E+01	NA	1	5.0E-03		INC-SB05	3.5	6/25/2015	2.6E-03	2.0E-03
Chloronaphthalene, 2- (chloronapht	30	5.0E+03	NA	1	2.7E-02		Not Detected				1.2E-01
Chlorophenol, 2-	30	4.1E+02	NA	1	2.7E-02		Not Detected				1.2E-01
Chlorophenyl phenylether, 4-	30	1.5E-01	NA	1	2.7E-02		Not Detected				1.2E-01
Chlorotoluene, o- (2-chlorotoluene)	30	1.1E+03	NA	1	5.0E-03		Not Detected				2.0E-03
Chlorotoluene, p- (4-chlorotoluene)	30	1.6E+03	NA	1	5.0E-03		Not Detected				2.0E-03
Chromium (total)	30	2.7E+04	NA	1	2.0E+00	3.0E+01	SB-6	0.5	3/11/2014	4.2E+02	8.1E-02
Chrysene	30	4.1E+03	NA	1	1.0E-02		INC-SB16	0.5	6/23/2015	6.0E+01	3.2E-01
Cobalt	30	3.7E+02	NA	1		7.0E+00	Not Analyzed				
Copper	30	1.3E+03	NA	1		1.5E+01	Not Analyzed				
Cresol, m- (3-methylphenol)	30	3.3E+03	NA	1			Not Analyzed				
Cresol, o- (2-methylphenol)	30	3.3E+03	NA	1	2.7E-02		INC-SB03	0.5	6/25/2015	1.6E-02	1.2E-01
Cresol, p- (4-methylphenol)	30	3.3E+02	NA	1	2.7E-02		INC-SB03	0.5	6/25/2015	3.6E-02	2.4E-01
Cumene (isopropylbenzene)	30	3.0E+03	NA	1	5.0E-03		INC-SB06	4.0	6/24/2015	1.3E-02	2.0E-03
Cycloate	30	3.7E+03	NA	1			Not Analyzed				
Cyclohexane	30	4.2E+04	NA	1	1.5E-02		INC-SB06	4.0	6/24/2015	2.3E-02	9.9E-03
Cymene (isopropyltoluene)	30	8.2E+03	NA	1	5.0E-03		INC-SB06	4.0	6/24/2015	1.0E-02	2.0E-03
DDD	30	1.4E+01	NA	1			MW5	0.5	3/11/2014	2.1E+00	2.2E-02
DDE	30	1.0E+01	NA	1			MW5	0.5	3/11/2014	1.5E+00	6.0E-03
DDT	30	5.4E+00	NA	1			MW5	0.5	3/11/2014	2.0E+00	6.6E-03
Dibenz-a,h-anthracene	30	4.0E+00	NA	1	1.0E-02		INC-SB16	0.5	6/23/2015	5.9E+00	5.5E-01
Dibenzofuran	30	2.7E+02	NA	1	2.7E-02		SB-20	0.5	9/30/2014	1.6E+00	2.2E-01
Dibromo-3-chloropropane, 1,2-	30	8.0E-02	NA	1	5.0E-03		Not Detected				2.0E-03
Dibromochloromethane (chlorodibro	30	7.2E+01	NA	1	5.0E-03		Not Detected				2.0E-03
Dichlorobenzene, 1,2-	30	3.9E+02	NA	1	5.0E-03		Not Detected				2.0E-03
Dichlorobenzene, 1,3-	30	6.2E+01	NA	1	5.0E-03		Not Detected				2.0E-03
Dichlorobenzene, 1,4-	30	2.5E+02	NA	1	5.0E-03		Not Detected				2.0E-03
Dichlorobenzidine, 3,3-	30	1.0E+01	NA	1	2.7E-02		Not Detected				1.2E-01
Dichlorodifluoromethane	30	7.5E+02	NA	1	5.0E-03		Not Detected				2.0E-03
Dichloroethane, 1,1-	30	8.8E+03	NA	1	5.0E-03		Not Detected				2.0E-03
Dichloroethane, 1,2-	30	3.0E+01	NA	1	5.0E-03		Not Detected				2.0E-03
Dichloroethylene, 1,1-	30	1.6E+03	NA	1	5.0E-03		Not Detected				2.0E-03
Dichloroethylene, cis-1,2-	30	1.2E+02	NA	1	5.0E-03		Not Detected				2.0E-03
Dichloroethylene, trans-1,2	30	3.7E+02	NA	1	5.0E-03		Not Detected				2.0E-03
Dichlorophenol, 2,4-	30	2.0E+02	NA	1	2.7E-02		Not Detected				1.2E-01
Dichloropropane, 1,2-	30	3.1E+01	NA	1	5.0E-03		Not Detected				2.0E-03
Dichloropropane, 1,3-	30	2.6E+01	NA	1	5.0E-03		Not Detected				2.0E-03
Dichloropropane, 2,2-	30	3.1E+01	NA	1	5.0E-03		Not Detected				2.0E-03
Dichloropropene, 1,1-	30	2.6E+01	NA	1	5.0E-03		Not Detected				2.0E-03
Dichloropropene, cis 1,3-	30	7.8E+00	NA	1	5.0E-03		Not Detected				2.0E-03
Dichloropropene, trans 1,3-	30	2.6E+01	NA	1	5.0E-03		Not Detected				2.0E-03
Dieldrin	30	1.5E-01	NA	1			Not Analyzed				
Diethyl phthalate	30	5.3E+04	NA	1	6.6E-02		B5-S	1.0	10/5/2005	2.4E-01	4.8E-01

Table 4A. Surface Soil Residential Assessment Levels for Human Health Pathways

ID No.

GLO Galveston - 2017 APAR Revision

Groundwater Classification: Class 1

Date of Tier 1 Tables used for Assessment Levels: 03/31/2017

TRRP Commander v9.01 Lic. No. TCSC9010315138, AECOM (URS)

Chemical of Concern	Tier 1 Source Area	Tot SOIL Comb	GW SOIL		Soil Sample MQL	Back-ground Conc.	Maximum Surface Soil				
							Sample			Conc.	SQL
	(acres)	(mg/kg)	(mg/kg)	Tier	(mg/kg)	(mg/kg)	ID	depth	date	(mg/kg)	(mg/kg)
Dimethyl phenol, 2,4-	30	1.3E+03	NA	1	2.7E-02		INC-SB03	0.5	6/25/2015	3.2E-02	1.2E-01
Dimethylphthalate	30	5.3E+04	NA	1	6.6E-02		Not Detected				4.8E-01
Di-n-butyl phthalate	30	6.2E+03	NA	1	6.6E-02		INC-SB09	0.5	6/25/2015	4.7E-01	4.8E-01
Dinitro-2-methylphenol, 4,6- (dinitro-	30	6.7E+00	NA	1	6.6E-02		B2-X	4.0	10/5/2005	5.4E-02	5.1E-01
Dinitrophenol, 2,4-	30	1.3E+02	NA	1	1.3E-01		Not Detected				6.1E-01
Dinitrotoluene, 2,4-	30	6.9E+00	NA	1	2.7E-02		Not Detected				1.2E-01
Dinitrotoluene, 2,6-	30	6.9E+00	NA	1	2.7E-02		Not Detected				1.2E-01
Di-n-octyl phthalate	30	6.4E+02	NA	1	6.6E-02		INC-SB06	4.0	6/24/2015	8.8E-01	4.8E-01
Dioxin (as 2,3,7,8-TCDD toxicity equ	30	1.0E-03	NA	1			INC-SB24	4.0	6/25/2015	2.8E-04	
Endosulfan	30	4.0E+02	NA	1			Not Analyzed				
Endosulfan I	30	9.1E+01	NA	1			B5-S	1.0	10/5/2005	2.1E-03	5.8E-03
Endosulfan II	30	2.7E+02	NA	1			Not Analyzed				
Endosulfan sulfate	30	3.8E+02	NA	1			B9-S	1.0	10/5/2005	1.6E-03	8.0E-03
Endrin	30	9.0E+00	NA	1			B8-S	1.0	10/5/2005	7.1E-04	8.4E-03
Endrin aldehyde	30	1.9E+01	NA	1			B10-S	1.0	10/5/2005	4.1E-03	7.2E-03
Endrin ketone	30	1.9E+01	NA	1			B9-S	1.0	10/5/2005	1.1E-03	1.0E-02
Ethyl benzene	30	5.3E+03	NA	1	5.0E-03		INC-SB06	4.0	6/24/2015	2.1E-02	2.0E-03
Ethyl dipropylthiocarbamate, S-	30	1.7E+03	NA	1			Not Analyzed				
Ethylene*	30		NA	1			Not Analyzed				
Ethylene dibromide (dibromoethane,	30	4.3E-01	NA	1	5.0E-03		Not Detected				2.0E-03
Fluoranthene	30	2.3E+03	NA	1	1.0E-02		INC-SB16	0.5	6/23/2015	1.0E+02	7.5E-01
Fluorene	30	2.3E+03	NA	1	1.0E-02		SB-20	0.5	9/30/2014	2.4E+00	4.5E-01
Heptachlor	30	1.3E-01	NA	1			Not Analyzed				
Heptachlor epoxide	30	2.4E-01	NA	1			SB-10	2.5	3/11/2014	1.3E-03	7.1E-03
Hexachlorobenzene	30	1.0E+00	NA	1	2.7E-02		INC-SB09	0.5	6/25/2015	4.6E-01	1.2E-01
Hexachlorobutadiene	30	1.2E+01	NA	1	5.0E-03		Not Detected				1.2E-01
Hexachlorocyclohexane, alpha (alph	30	2.5E-01	NA	1			B9-S	1.0	10/5/2005	2.5E-04	2.0E-02
Hexachlorocyclohexane, beta (beta-	30	9.2E-01	NA	1			B9-S	1.0	10/5/2005	1.9E-03	1.4E-02
Hexachlorocyclohexane, delta (delta	30	2.9E+00	NA	1			B9-S	1.0	10/5/2005	1.1E-03	9.8E-03
Hexachlorocyclohexane, gamma (lin	30	1.1E+00	NA	1			B5-S	1.0	10/5/2005	9.4E-04	1.3E-02
Hexachlorocyclopentadiene	30	7.2E+00	NA	1	6.6E-02		Not Detected				3.6E-01
Hexachloroethane	30	4.6E+01	NA	1	2.7E-02		Not Detected				1.2E-01
Hexanone, 2-	30	2.1E+02	NA	1	1.5E-02		Not Detected				9.9E-03
Indeno-1,2,3-cd-pyrene	30	4.2E+01	NA	1	1.0E-02		INC-SB16	0.5	6/23/2015	2.5E+01	3.2E-01
Iron*	30		NA	1			Not Analyzed				
Isophorone	30	4.9E+03	NA	1	6.6E-02		Not Detected				3.6E-01
Lead (inorganic)	30	5.0E+02	NA	1	3.0E-01	1.5E+01	INC-SB12	2.5	6/23/2015	3.0E+04	
Manganese	30	3.8E+03	NA	1		3.0E+02	Not Analyzed				
Mercury (pH = 4.9)	30	2.1E+00	NA	1	4.0E-02	4.0E-02	SB-6	0.5	3/11/2014	1.3E+01	2.5E-02
Methoxychlor	30	2.7E+02	NA	1			Not Analyzed				
Methyl acetate (acetic acid, methyl e	30	8.2E+04	NA	1	1.5E-02		Not Detected				9.9E-03
Methyl cyclohexane	30	2.2E+04	NA	1	1.5E-02		INC-SB06	4.0	6/24/2015	8.3E-02	9.9E-03
Methyl ethyl ketone (2-butanone)	30	3.3E+04	NA	1	1.5E-02		INC-SB57	2.0	1/26/2017	1.4E-01	9.9E-03
Methyl isobutyl ketone (4-methyl-2-p	30	5.4E+03	NA	1	1.5E-02		Not Detected				9.9E-03
Methylene bromide (dibromomethan	30	4.2E+01	NA	1	5.0E-03		Not Detected				2.0E-03
Methylene chloride (dichloromethan	30	1.5E+03	NA	1	5.0E-03		Not Detected				9.9E-03
Methylnaphthalene, 2-	30	2.5E+02	NA	1	2.7E-02		SB-20	0.5	9/30/2014	9.0E-01	6.3E-01

Table 4A. Surface Soil Residential Assessment Levels for Human Health Pathways

ID No.

GLO Galveston - 2017 APAR Revision

Groundwater Classification: Class 1

Date of Tier 1 Tables used for Assessment Levels: 03/31/2017

TRRP Commander v9.01 Lic. No. TCSC9010315138, AECOM (URS)

Chemical of Concern	Tier 1 Source Area	Tot SOIL Comb	GW SOIL		Soil Sample MQL	Back-ground Conc.	Maximum Surface Soil				
							Sample			Conc.	SQL
	(acres)	(mg/kg)	(mg/kg)	Tier	(mg/kg)	(mg/kg)	ID	depth	date	(mg/kg)	(mg/kg)
Molinate	30	1.3E+02	NA	1			Not Analyzed				
MTBE (methyl tert-butyl ether)	30	5.9E+02	NA	1	5.0E-03		Not Detected				2.0E-03
Naphthalene	30	1.2E+02	NA	1	1.0E-02		SB-20	0.5	9/30/2014	2.0E+00	4.8E-01
Nickel and compounds	30	8.4E+02	NA	1	2.0E+00	1.0E+01	INC-SB64	0.5	1/26/2017	4.1E+02	
Nitrite	30	8.0E+03	NA	1			Not Analyzed				
Nitroaniline, 2-	30	1.1E+01	NA	1	2.7E-02		Not Detected				1.2E-01
Nitroaniline, 3-	30	1.2E+01	NA	1	2.7E-02		Not Detected				1.2E-01
Nitroaniline, 4-	30	1.9E+02	NA	1	2.7E-02		Not Detected				1.2E-01
Nitrobenzene	30	3.4E+01	NA	1	2.7E-02		Not Detected				1.2E-01
Nitrophenol, 2-	30	1.3E+02	NA	1	2.7E-02		Not Detected				1.2E-01
Nitrophenol, 4-	30	1.3E+02	NA	1	1.3E-01		Not Detected				6.1E-01
Nitrosodi-n-propylamine, n-	30	4.0E-01	NA	1	2.7E-02		Not Detected				1.2E-01
Nitrosodiphenylamine	30	5.7E+02	NA	1	2.7E-02		Not Detected				1.2E-01
Pebulate	30	3.3E+03	NA	1			Not Analyzed				
Pentachlorophenol	30	7.3E-01	NA	1	2.7E-02		INC-SB04	0.5	6/25/2015	1.7E-02	1.2E-01
Phenanthrene	30	1.7E+03	NA	1	1.0E-02		SB-20	2.0	3/11/2014	2.4E+01	3.2E-01
Phenol	30	9.5E+02	NA	1	2.7E-02		Not Detected				1.2E-01
Polychlorinated biphenyls (PCBs)	30	1.1E+00	NA	1	5.0E-02		INC-SB09	0.5	6/25/2015	4.8E+00	5.7E-02
Propylbenzene, n-	30	1.6E+03	NA	1	5.0E-03		INC-SB57	2.0	1/26/2017	2.2E-02	2.0E-03
Pyrene	30	1.7E+03	NA	1	1.0E-02		INC-SB16	0.5	6/23/2015	7.3E+01	2.4E-01
Selenium	30	3.1E+02	NA	1	5.0E-01	3.0E-01	MW6	2.5	3/11/2014	7.9E+00	2.0E+00
Silver	30	9.7E+01	NA	1	2.0E-01		INC-SB07	3.0	6/24/2015	2.3E+01	1.4E+00
Styrene	30	4.3E+03	NA	1	5.0E-03		Not Detected				2.0E-03
Sulfate*	30		NA	1			Not Analyzed				
Tetrachloroethane, 1,1,1,2-	30	3.9E+01	NA	1	5.0E-03		Not Detected				2.0E-03
Tetrachloroethane, 1,1,2,2-	30	3.0E+01	NA	1	5.0E-03		Not Detected				2.0E-03
Tetrachloroethylene	30	4.2E+02	NA	1	5.0E-03		Not Detected				2.0E-03
Toluene	30	5.4E+03	NA	1	5.0E-03		INC-SB06	4.0	6/24/2015	6.9E-03	2.0E-03
Toxaphene	30	1.2E+00	NA	1			Not Analyzed				
TPH, TX1005, C6-C12	30	1.1E+03	NA	1	2.0E+01		INC-SB57	2.0	1/26/2017	1.3E+04	1.2E+01
TPH, TX1005, >C12-C28	30	2.0E+03	NA	1	2.0E+01		INC-SB57	2.0	1/26/2017	2.3E+04	
TPH, TX1005, >C28-C35	30	2.0E+03	NA	1	2.0E+01		INC-SB09	0.5	6/25/2015	3.3E+02	8.8E+02
Trichloro-1,2,2-trifluoroethane, 1,1,2	30	3.9E+04	NA	1	1.5E-02		Not Detected				9.9E-03
Trichlorobenzene, 1,2,3-	30	8.7E+01	NA	1	5.0E-03		Not Detected				2.0E-03
Trichlorobenzene, 1,2,4-	30	7.0E+01	NA	1	5.0E-03		Not Detected				2.0E-03
Trichloroethane, 1,1,1-	30	3.2E+04	NA	1	5.0E-03		Not Detected				2.0E-03
Trichloroethane, 1,1,2-	30	1.0E+01	NA	1	5.0E-03		Not Detected				2.0E-03
Trichloroethylene	30	1.1E+01	NA	1	5.0E-03		Not Detected				2.0E-03
Trichlorofluoromethane	30	2.5E+04	NA	1	1.5E-02		INC-SB09	0.5	6/25/2015	1.9E-02	8.3E-03
Trichlorophenol, 2,4,5-	30	6.7E+03	NA	1	2.7E-02		Not Detected				1.2E-01
Trichlorophenol, 2,4,6-	30	6.7E+01	NA	1	2.7E-02		Not Detected				1.2E-01
Trichloropropane, 1,2,3-	30	2.0E-01	NA	1	5.0E-03		Not Detected				2.0E-03
Trimethylbenzene, 1,2,4-	30	1.2E+03	NA	1	5.0E-03		INC-SB06	4.0	6/24/2015	2.1E-01	2.0E-03
Trimethylbenzene, 1,3,5-	30	1.1E+03	NA	1	5.0E-03		INC-SB06	4.0	6/24/2015	5.5E-02	2.0E-03
Vanadium	30	7.5E+01	NA	1		5.0E+01	Not Analyzed				
Vernam	30	6.7E+01	NA	1			Not Analyzed				
Vinyl chloride	30	3.4E+00	NA	1	5.0E-03		Not Detected				2.0E-03

Table 4A. Surface Soil Residential Assessment Levels for Human Health Pathways

ID No.

GLO Galveston - 2017 APAR Revision

Groundwater Classification: Class 1

Date of Tier 1 Tables used for Assessment Levels: 03/31/2017

TRRP Commander v9.01 Lic. No. TCSC9010315138, AECOM (URS)

Chemical of Concern	Tier 1 Source Area	Tot SOIL Comb	GW SOIL		Soil Sample MQL	Back-ground Conc.	Maximum Surface Soil				
							Sample			Conc.	SQL
	(acres)	(mg/kg)	(mg/kg)	Tier	(mg/kg)	(mg/kg)	ID	depth	date	(mg/kg)	(mg/kg)
Xylene, o-	30	2.9E+04	NA	1	5.0E-03		INC-SB06	4.0	6/24/2015	2.1E-02	2.0E-03
Xylene, p-	30	4.7E+03	NA	1			Not Analyzed				
Xylenes	30	3.7E+03	NA	1	5.0E-03		INC-SB06	4.0	6/24/2015	5.5E-02	2.0E-03
Zinc	30	9.9E+03	NA	1		3.0E+01	Not Analyzed				

SECTION 4

TABLE 4B

SURFACE SOIL RESIDENTIAL ASSESSMENT LEVELS WITH ECOLOGICAL COMPONENT

[This table is not applicable.]

SECTION 4

TABLE 4C

SUBSURFACE SOIL RESIDENTIAL ASSESSMENT LEVELS

[This table is not applicable.]

SECTION 4

TABLE 4D

SOIL DATA SUMMARY

												UNIT	B1-S 03112014(1-1)	B1-S 10052005(1-1)	B1-X 03112014(1-4)	B1-X 10052005(1-)	B1-X 10052005(1-4)	B10-S 03112014(1-1)
												Sample Location	B-1	B-1	B-1	B-1	B-1	B-10
												Sample ID	B1-S 03112014(1-1)	B1-S 10052005(1-1)	B1-X 03112014(1-4)	B1-X 10052005(1-)	B1-X 10052005(1-4)	B10-S 03112014(1-1)
												Sample Date	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	1	4	---	4	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	---	4.96	---	0.792	---	---
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	---	297	---	4.68	---	---
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	---	1.18	---	<0.0780 U	---	---
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	---	9.33	---	1.19	---	---
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	---	759	---	7.62	---	---
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	0.164	---	<0.0223 U	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	---	<0.513 U	---	**<0.557 U**	---	---
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	---	1.15	---	<0.223 U	---	---
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B1-S 03112014(1-1)	B1-S 10052005(1-1)	B1-X 03112014(1-4)	B1-X 10052005(1-)	B1-X 10052005(1-4)	B10-S 03112014(1-1)
												Sample Location	B-1	B-1	B-1	B-1	B-1	B-10
												Sample ID	B1-S 03112014(1-1)	B1-S 10052005(1-1)	B1-X 03112014(1-4)	B1-X 10052005(1-)	B1-X 10052005(1-4)	B10-S 03112014(1-1)
												Sample Date	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	1	4	---	4	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B1-S 03112014(1-1)	B1-S 10052005(1-1)	B1-X 03112014(1-4)	B1-X 10052005(1-)	B1-X 10052005(1-4)	B10-S 03112014(1-1)
												Sample Location	B-1	B-1	B-1	B-1	B-1	B-10
												Sample ID	B1-S 03112014(1-1)	B1-S 10052005(1-1)	B1-X 03112014(1-4)	B1-X 10052005(1-)	B1-X 10052005(1-4)	B10-S 03112014(1-1)
												Sample Date	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	1	4	---	4	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B1-S 03112014(1-1)	B1-S 10052005(1-1)	B1-X 03112014(1-4)	B1-X 10052005(1-)	B1-X 10052005(1-4)	B10-S 03112014(1-1)
												Sample Location	B-1	B-1	B-1	B-1	B-1	B-10
												Sample ID	B1-S 03112014(1-1)	B1-S 10052005(1-1)	B1-X 03112014(1-4)	B1-X 10052005(1-)	B1-X 10052005(1-4)	B10-S 03112014(1-1)
												Sample Date	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	1	4	---	4	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	<0.186 U	---	---	<0.0410 U	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B1-S 03112014(1-1)	B1-S 10052005(1-1)	B1-X 03112014(1-4)	B1-X 10052005(1-)	B1-X 10052005(1-4)	B10-S 03112014(1-1)
												Sample Location	B-1	B-1	B-1	B-1	B-1	B-10
												Sample ID	B1-S 03112014(1-1)	B1-S 10052005(1-1)	B1-X 03112014(1-4)	B1-X 10052005(1-)	B1-X 10052005(1-4)	B10-S 03112014(1-1)
												Sample Date	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	1	4	---	4	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	<0.201 U	---	---	<0.0440 U	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	---	<0.177 U	---	---	<0.0390 U	---
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	---	<0.177 U	---	---	<0.0390 U	---
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	---	<0.237 U	---	---	<0.0520 U	---
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	0.271	---	---	<0.0390 U	---
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	---	0.259	---	---	<0.0390 U	---
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	0.328	---	---	<0.0390 U	---
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	---	<0.177 U	---	---	<0.0390 U	---
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	0.271	---	---	<0.0390 U	---
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B1-S 03112014(1-1)	B1-S 10052005(1-1)	B1-X 03112014(1-4)	B1-X 10052005(1-)	B1-X 10052005(1-4)	B10-S 03112014(1-1)
												Sample Location	B-1	B-1	B-1	B-1	B-1	B-10
												Sample ID	B1-S 03112014(1-1)	B1-S 10052005(1-1)	B1-X 03112014(1-4)	B1-X 10052005(1-)	B1-X 10052005(1-4)	B10-S 03112014(1-1)
												Sample Date	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	1	4	---	4	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	<0.177 U	---	---	<0.0390 U	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	---	0.298	---	---	<0.0390 U	---
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	---	<0.215 U	---	---	<0.0470 U	---
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	<0.177 U	---	---	0.059	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	<0.177 U	---	---	<0.0390 U	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	0.585	---	---	<0.0430 U	---
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	<0.177 U	---	---	<0.0390 U	---
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	<0.259 U	---	---	<0.0570 U	---
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	<0.190 U	---	---	<0.0410 U	---
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B1-S 03112014(1-1)	B1-S 10052005(1-1)	B1-X 03112014(1-4)	B1-X 10052005(1-)	B1-X 10052005(1-4)	B10-S 03112014(1-1)
												Sample Location	B-1	B-1	B-1	B-1	B-1	B-10
												Sample ID	B1-S 03112014(1-1)	B1-S 10052005(1-1)	B1-X 03112014(1-4)	B1-X 10052005(1-)	B1-X 10052005(1-4)	B10-S 03112014(1-1)
												Sample Date	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	1	4	---	4	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.318	---	<0.0390 U	---	---	0.136
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	0.509	---	---	<0.0440 U	---
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B10-S 10052005(1-1)	B10-X 03112014(1-4)	B10-X 10052005(1-)	B10-X 10052005(1-4)	B2-S 03112014(1-1)	B2-S 10052005(1-1)
												Sample Location	B-10	B-10	B-10	B-10	B-2	B-2
												Sample ID	B10-S 10052005(1-1)	B10-X 03112014(1-4)	B10-X 10052005(1-)	B10-X 10052005(1-4)	B2-S 03112014(1-1)	B2-S 10052005(1-1)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	4	---	4	1	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	5.8	---	5.64	---	---	4.73
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	204	---	107	---	---	239
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	2.58	---	6.35	---	---	2.54
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	14	---	10.9	---	---	11.4
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	518	---	**767**	---	---	333
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.108	---	0.024	---	---	0.0363
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	<0.538 U	---	**<0.599 U**	---	---	<0.605 U
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	3.51	---	2.06	---	---	1.04
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	0.00202	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	0.00828	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	0.00556	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	0.00111	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	<0.000137 U	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	0.00104	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	<0.000379 U	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	0.021	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	<0.000156 U	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	<0.000137 U	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	<0.000520 U	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	0.000603	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	0.00412	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	0.000575	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	<0.000168 U	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	0.00149	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	0.000221	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B10-S 10052005(1-1)	B10-X 03112014(1-4)	B10-X 10052005(1-)	B10-X 10052005(1-4)	B2-S 03112014(1-1)	B2-S 10052005(1-1)
												Sample Location	B-10	B-10	B-10	B-10	B-2	B-2
												Sample ID	B10-S 10052005(1-1)	B10-X 03112014(1-4)	B10-X 10052005(1-)	B10-X 10052005(1-4)	B2-S 03112014(1-1)	B2-S 10052005(1-1)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	4	---	4	1	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B10-S 10052005(1-1)	B10-X 03112014(1-4)	B10-X 10052005(1-)	B10-X 10052005(1-4)	B2-S 03112014(1-1)	B2-S 10052005(1-1)
												Sample Location	B-10	B-10	B-10	B-10	B-2	B-2
												Sample ID	B10-S 10052005(1-1)	B10-X 03112014(1-4)	B10-X 10052005(1-)	B10-X 10052005(1-4)	B2-S 03112014(1-1)	B2-S 10052005(1-1)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	4	---	4	1	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B10-S 10052005(1-1)	B10-X 03112014(1-4)	B10-X 10052005(1-)	B10-X 10052005(1-4)	B2-S 03112014(1-1)	B2-S 10052005(1-1)
												Sample Location	B-10	B-10	B-10	B-10	B-2	B-2
												Sample ID	B10-S 10052005(1-1)	B10-X 03112014(1-4)	B10-X 10052005(1-)	B10-X 10052005(1-4)	B2-S 03112014(1-1)	B2-S 10052005(1-1)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	4	---	4	1	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	<0.0410 U	---	---	<0.0460 U	---	<0.224 U
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B10-S 10052005(1-1)	B10-X 03112014(1-4)	B10-X 10052005(1-)	B10-X 10052005(1-4)	B2-S 03112014(1-1)	B2-S 10052005(1-1)
												Sample Location	B-10	B-10	B-10	B-10	B-2	B-2
												Sample ID	B10-S 10052005(1-1)	B10-X 03112014(1-4)	B10-X 10052005(1-)	B10-X 10052005(1-4)	B2-S 03112014(1-1)	B2-S 10052005(1-1)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	4	---	4	1	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	<0.0440 U	---	---	<0.0490 U	---	<0.242 U
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	<0.0390 U	---	---	<0.0440 U	---	<0.214 U
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	<0.0390 U	---	---	<0.0440 U	---	<0.214 U
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	<0.0520 U	---	---	<0.0580 U	---	<0.286 U
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.17	---	---	<0.0440 U	---	0.299
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	0.249	---	---	<0.0440 U	---	0.276
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.387	---	---	<0.0440 U	---	0.38
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	0.14	---	---	<0.0440 U	---	<0.214 U
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	0.107	---	---	<0.0440 U	---	0.289
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B10-S 10052005(1-1)	B10-X 03112014(1-4)	B10-X 10052005(1-)	B10-X 10052005(1-4)	B2-S 03112014(1-1)	B2-S 10052005(1-1)
												Sample Location	B-10	B-10	B-10	B-10	B-2	B-2
												Sample ID	B10-S 10052005(1-1)	B10-X 03112014(1-4)	B10-X 10052005(1-)	B10-X 10052005(1-4)	B2-S 03112014(1-1)	B2-S 10052005(1-1)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	4	---	4	1	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	0.177	---	---	<0.0440 U	---	<0.214 U
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	0.212	---	---	<0.0440 U	---	0.314
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	0.05	---	---	<0.0530 U	---	<0.259 U
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	0.067	---	---	<0.0440 U	---	<0.214 U
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	<0.0390 U	---	---	<0.0440 U	---	<0.214 U
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.264	---	---	0.051	---	0.613
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	<0.0390 U	---	---	<0.0440 U	---	<0.214 U
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.141	---	---	<0.0640 U	---	<0.312 U
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.0420 U	---	---	<0.0470 U	---	<0.229 U
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B10-S 10052005(1-1)	B10-X 03112014(1-4)	B10-X 10052005(1-)	B10-X 10052005(1-4)	B2-S 03112014(1-1)	B2-S 10052005(1-1)
												Sample Location	B-10	B-10	B-10	B-10	B-2	B-2
												Sample ID	B10-S 10052005(1-1)	B10-X 03112014(1-4)	B10-X 10052005(1-)	B10-X 10052005(1-4)	B2-S 03112014(1-1)	B2-S 10052005(1-1)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	4	---	4	1	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	<0.0440 U	---	---	0.263	---
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.305	---	---	0.05	---	0.543
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B2-X 03112014(1-4)	B2-X 10052005(1-)	B2-X 10052005(1-4)	B3-S 03112014(1-1)	B3-S 10052005(1-1)	B3-X 03112014(1-4)
												Sample Location	B-2	B-2	B-2	B-3	B-3	B-3
												Sample ID	B2-X 03112014(1-4)	B2-X 10052005(1-)	B2-X 10052005(1-4)	B3-S 03112014(1-1)	B3-S 10052005(1-1)	B3-X 03112014(1-4)
												Sample Date	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	---	4	1	1	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	---	2.16	---	---	1.41	---
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	---	89.2	---	---	152	---
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	---	0.635	---	---	1.31	---
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	---	9.34	---	---	3.86	---
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	---	**158**	---	---	126	---
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	<0.0235 U	---	---	0.0533	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	---	**<0.588 U**	---	---	<0.533 U	---
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	---	0.412	---	---	0.352	---
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000164 U	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	0.000511	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000137 U	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000164 U	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000137 U	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000148 U	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000378 U	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000139 U	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000156 U	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000137 U	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	0.00152	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000148 U	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000254 U	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000297 U	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000168 U	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000304 U	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000148 U	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B2-X 03112014(1-4)	B2-X 10052005(1-)	B2-X 10052005(1-4)	B3-S 03112014(1-1)	B3-S 10052005(1-1)	B3-X 03112014(1-4)
												Sample Location	B-2	B-2	B-2	B-3	B-3	B-3
												Sample ID	B2-X 03112014(1-4)	B2-X 10052005(1-)	B2-X 10052005(1-4)	B3-S 03112014(1-1)	B3-S 10052005(1-1)	B3-X 03112014(1-4)
												Sample Date	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	---	4	1	1	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B2-X 03112014(1-4)	B2-X 10052005(1-)	B2-X 10052005(1-4)	B3-S 03112014(1-1)	B3-S 10052005(1-1)	B3-X 03112014(1-4)
												Sample Location	B-2	B-2	B-2	B-3	B-3	B-3
												Sample ID	B2-X 03112014(1-4)	B2-X 10052005(1-)	B2-X 10052005(1-4)	B3-S 03112014(1-1)	B3-S 10052005(1-1)	B3-X 03112014(1-4)
												Sample Date	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	---	4	1	1	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B2-X 03112014(1-4)	B2-X 10052005(1-)	B2-X 10052005(1-4)	B3-S 03112014(1-1)	B3-S 10052005(1-1)	B3-X 03112014(1-4)
												Sample Location	B-2	B-2	B-2	B-3	B-3	B-3
												Sample ID	B2-X 03112014(1-4)	B2-X 10052005(1-)	B2-X 10052005(1-4)	B3-S 03112014(1-1)	B3-S 10052005(1-1)	B3-X 03112014(1-4)
												Sample Date	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	---	4	1	1	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	<0.0450 U	---	<0.0410 U	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B2-X 03112014(1-4)	B2-X 10052005(1-)	B2-X 10052005(1-4)	B3-S 03112014(1-1)	B3-S 10052005(1-1)	B3-X 03112014(1-4)
												Sample Location	B-2	B-2	B-2	B-3	B-3	B-3
												Sample ID	B2-X 03112014(1-4)	B2-X 10052005(1-)	B2-X 10052005(1-4)	B3-S 03112014(1-1)	B3-S 10052005(1-1)	B3-X 03112014(1-4)
												Sample Date	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	---	4	1	1	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	0.054	---	<0.0440 U	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	---	---	0.05	---	<0.0390 U	---
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	---	---	<0.0420 U	---	0.064	---
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	---	---	0.076	---	0.218	---
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	0.359	---	0.848	---
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	---	---	0.372	---	0.783	---
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	0.578	---	0.97	---
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	---	---	0.208	---	0.263	---
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	0.149	---	0.643	---
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B2-X 03112014(1-4)	B2-X 10052005(1-)	B2-X 10052005(1-4)	B3-S 03112014(1-1)	B3-S 10052005(1-1)	B3-X 03112014(1-4)
												Sample Location	B-2	B-2	B-2	B-3	B-3	B-3
												Sample ID	B2-X 03112014(1-4)	B2-X 10052005(1-)	B2-X 10052005(1-4)	B3-S 03112014(1-1)	B3-S 10052005(1-1)	B3-X 03112014(1-4)
												Sample Date	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	---	4	1	1	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	<0.0420 U	---	0.041	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	---	---	0.435	---	0.841	---
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	---	---	0.061	---	0.112	---
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	0.182	---	<0.0390 U	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	<0.0420 U	---	<0.0390 U	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	---	<0.752 U	---	1.84	---
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	---	<0.0420 U	---	0.043	---
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	0.221	---	0.317	---
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	<0.0450 U	---	<0.0420 U	---
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B2-X 03112014(1-4)	B2-X 10052005(1-)	B2-X 10052005(1-4)	B3-S 03112014(1-1)	B3-S 10052005(1-1)	B3-X 03112014(1-4)
												Sample Location	B-2	B-2	B-2	B-3	B-3	B-3
												Sample ID	B2-X 03112014(1-4)	B2-X 10052005(1-)	B2-X 10052005(1-4)	B3-S 03112014(1-1)	B3-S 10052005(1-1)	B3-X 03112014(1-4)
												Sample Date	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	---	4	1	1	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.351	---	---	1.04	---	<0.0450 U
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	---	0.829	---	1.67	---
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B3-X 10052005(1-)	B3-X 10052005(1-4)	B4-S 03112014(1-1)	B4-S 10052005(1-1)	B4-X 03112014(1-4)	B4-X 10052005(1-)
												Sample Location	B-3	B-3	B-4	B-4	B-4	B-4
												Sample ID	B3-X 10052005(1-)	B3-X 10052005(1-4)	B4-S 03112014(1-1)	B4-S 10052005(1-1)	B4-X 03112014(1-4)	B4-X 10052005(1-)
												Sample Date	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	---	4	1	1	4	---
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	**7.11**	---	---	2.92	---	3.63
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	**405**	---	---	108	---	126
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	2.17	---	---	1.53	---	0.768
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	25.2	---	---	4.07	---	14
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	**1200**	---	---	146	---	**222**
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.078	---	---	<0.0253 U	---	0.0397
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	**<0.650 U**	---	---	<0.632 U	---	**<0.662 U**
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	2.31	---	---	0.265	---	0.794
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	0.000264	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	0.00503	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	0.00278	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.000184 U	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.000153 U	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.000166 U	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.000424 U	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	0.00302	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.000175 U	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.000153 U	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	0.0011	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.000166 U	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.000284 U	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.000332 U	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.000188 U	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.000341 U	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.000166 U	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B3-X 10052005(1-)	B3-X 10052005(1-4)	B4-S 03112014(1-1)	B4-S 10052005(1-1)	B4-X 03112014(1-4)	B4-X 10052005(1-)
												Sample Location	B-3	B-3	B-4	B-4	B-4	B-4
												Sample ID	B3-X 10052005(1-)	B3-X 10052005(1-4)	B4-S 03112014(1-1)	B4-S 10052005(1-1)	B4-X 03112014(1-4)	B4-X 10052005(1-)
												Sample Date	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	---	4	1	1	4	---
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B3-X 10052005(1-)	B3-X 10052005(1-4)	B4-S 03112014(1-1)	B4-S 10052005(1-1)	B4-X 03112014(1-4)	B4-X 10052005(1-)
												Sample Location	B-3	B-3	B-4	B-4	B-4	B-4
												Sample ID	B3-X 10052005(1-)	B3-X 10052005(1-4)	B4-S 03112014(1-1)	B4-S 10052005(1-1)	B4-X 03112014(1-4)	B4-X 10052005(1-)
												Sample Date	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	---	4	1	1	4	---
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B3-X 10052005(1-)	B3-X 10052005(1-4)	B4-S 03112014(1-1)	B4-S 10052005(1-1)	B4-X 03112014(1-4)	B4-X 10052005(1-)
												Sample Location	B-3	B-3	B-4	B-4	B-4	B-4
												Sample ID	B3-X 10052005(1-)	B3-X 10052005(1-4)	B4-S 03112014(1-1)	B4-S 10052005(1-1)	B4-X 03112014(1-4)	B4-X 10052005(1-)
												Sample Date	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	---	4	1	1	4	---
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	<0.0470 U	---	<0.0460 U	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B3-X 10052005(1-)	B3-X 10052005(1-4)	B4-S 03112014(1-1)	B4-S 10052005(1-1)	B4-X 03112014(1-4)	B4-X 10052005(1-)
												Sample Location	B-3	B-3	B-4	B-4	B-4	B-4
												Sample ID	B3-X 10052005(1-)	B3-X 10052005(1-4)	B4-S 03112014(1-1)	B4-S 10052005(1-1)	B4-X 03112014(1-4)	B4-X 10052005(1-)
												Sample Date	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	---	4	1	1	4	---
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	<0.0510 U	---	<0.0500 U	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	---	<0.0450 U	---	<0.0440 U	---	---
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	---	<0.0450 U	---	<0.0440 U	---	---
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	---	<0.0600 U	---	<0.0590 U	---	---
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	<0.0450 U	---	<0.0440 U	---	---
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	---	<0.0450 U	---	<0.0440 U	---	---
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	<0.0450 U	---	<0.0440 U	---	---
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	---	<0.0450 U	---	<0.0440 U	---	---
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	<0.0460 U	---	<0.0450 U	---	---
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B3-X 10052005(1-)	B3-X 10052005(1-4)	B4-S 03112014(1-1)	B4-S 10052005(1-1)	B4-X 03112014(1-4)	B4-X 10052005(1-)
												Sample Location	B-3	B-3	B-4	B-4	B-4	B-4
												Sample ID	B3-X 10052005(1-)	B3-X 10052005(1-4)	B4-S 03112014(1-1)	B4-S 10052005(1-1)	B4-X 03112014(1-4)	B4-X 10052005(1-)
												Sample Date	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	---	4	1	1	4	---
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	<0.0450 U	---	0.091	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	---	<0.0450 U	---	<0.0440 U	---	---
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	---	<0.0550 U	---	<0.0530 U	---	---
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	0.232	---	<0.0440 U	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	<0.0450 U	---	<0.0440 U	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	<0.0500 U	---	<0.0480 U	---	---
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	<0.0450 U	---	<0.0440 U	---	---
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	<0.0660 U	---	<0.0640 U	---	---
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	<0.0480 U	---	<0.0470 U	---	---
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B3-X 10052005(1-)	B3-X 10052005(1-4)	B4-S 03112014(1-1)	B4-S 10052005(1-1)	B4-X 03112014(1-4)	B4-X 10052005(1-)
												Sample Location	B-3	B-3	B-4	B-4	B-4	B-4
												Sample ID	B3-X 10052005(1-)	B3-X 10052005(1-4)	B4-S 03112014(1-1)	B4-S 10052005(1-1)	B4-X 03112014(1-4)	B4-X 10052005(1-)
												Sample Date	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	---	4	1	1	4	---
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	---	<0.0440 U	---	<0.0460 U	---
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	<0.0510 U	---	<0.0500 U	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B4-X 10052005(1-4)	B5-S 03112014(1-1)	B5-S 10052005(1-1)	B5-X 03112014(1-4)	B5-X 10052005(1-)	B5-X 10052005(1-4)
												Sample Location	B-4	B-5	B-5	B-5	B-5	B-5
												Sample ID	B4-X 10052005(1-4)	B5-S 03112014(1-1)	B5-S 10052005(1-1)	B5-X 03112014(1-4)	B5-X 10052005(1-)	B5-X 10052005(1-4)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	1	1	4	---	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	---	---	11.7	---	**8.27**	---
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	---	---	1210	---	**455**	---
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	---	---	6.18	---	2.66	---
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	---	---	36	---	23.9	---
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	---	---	**1810**	---	**641**	---
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	0.566	---	0.0987	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	---	---	<0.602 U	---	**<0.617 U**	---
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	---	---	9.89	---	1.97	---
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	0.00633	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	0.00205	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	0.000483	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	0.000939	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B4-X 10052005(1-4)	B5-S 03112014(1-1)	B5-S 10052005(1-1)	B5-X 03112014(1-4)	B5-X 10052005(1-)	B5-X 10052005(1-4)
												Sample Location	B-4	B-5	B-5	B-5	B-5	B-5
												Sample ID	B4-X 10052005(1-4)	B5-S 03112014(1-1)	B5-S 10052005(1-1)	B5-X 03112014(1-4)	B5-X 10052005(1-)	B5-X 10052005(1-4)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	1	1	4	---	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B4-X 10052005(1-4)	B5-S 03112014(1-1)	B5-S 10052005(1-1)	B5-X 03112014(1-4)	B5-X 10052005(1-)	B5-X 10052005(1-4)
												Sample Location	B-4	B-5	B-5	B-5	B-5	B-5
												Sample ID	B4-X 10052005(1-4)	B5-S 03112014(1-1)	B5-S 10052005(1-1)	B5-X 03112014(1-4)	B5-X 10052005(1-)	B5-X 10052005(1-4)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	1	1	4	---	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B4-X 10052005(1-4)	B5-S 03112014(1-1)	B5-S 10052005(1-1)	B5-X 03112014(1-4)	B5-X 10052005(1-)	B5-X 10052005(1-4)
												Sample Location	B-4	B-5	B-5	B-5	B-5	B-5
												Sample ID	B4-X 10052005(1-4)	B5-S 03112014(1-1)	B5-S 10052005(1-1)	B5-X 03112014(1-4)	B5-X 10052005(1-)	B5-X 10052005(1-4)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	1	1	4	---	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	<0.0490 U	---	<0.0450 U	---	---	<0.218 U
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B4-X 10052005(1-4)	B5-S 03112014(1-1)	B5-S 10052005(1-1)	B5-X 03112014(1-4)	B5-X 10052005(1-)	B5-X 10052005(1-4)
												Sample Location	B-4	B-5	B-5	B-5	B-5	B-5
												Sample ID	B4-X 10052005(1-4)	B5-S 03112014(1-1)	B5-S 10052005(1-1)	B5-X 03112014(1-4)	B5-X 10052005(1-)	B5-X 10052005(1-4)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	1	1	4	---	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	<0.0520 U	---	<0.0480 U	---	---	<0.235 U
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	<0.0460 U	---	<0.0430 U	---	---	<0.207 U
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	<0.0460 U	---	0.055	---	---	<0.207 U
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	<0.0620 U	---	0.165	---	---	<0.277 U
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	<0.0460 U	---	0.465	---	---	<0.207 U
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	<0.0460 U	---	0.52	---	---	<0.207 U
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	<0.0460 U	---	0.611	---	---	0.243
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	<0.0460 U	---	0.27	---	---	<0.207 U
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	<0.0470 U	---	0.38	---	---	<0.211 U
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B4-X 10052005(1-4)	B5-S 03112014(1-1)	B5-S 10052005(1-1)	B5-X 03112014(1-4)	B5-X 10052005(1-)	B5-X 10052005(1-4)
												Sample Location	B-4	B-5	B-5	B-5	B-5	B-5
												Sample ID	B4-X 10052005(1-4)	B5-S 03112014(1-1)	B5-S 10052005(1-1)	B5-X 03112014(1-4)	B5-X 10052005(1-)	B5-X 10052005(1-4)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	1	1	4	---	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	0.347	---	0.08	---	---	<0.207 U
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	<0.0460 U	---	0.474	---	---	<0.207 U
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	<0.0560 U	---	0.096	---	---	<0.252 U
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	0.17	---	0.236	---	---	<0.207 U
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	<0.0460 U	---	0.087	---	---	<0.207 U
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	<0.0510 U	---	0.909	---	---	<0.229 U
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.062	---	<0.0430 U	---	---	<0.207 U
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	<0.0680 U	---	0.284	---	---	<0.303 U
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.0500 U	---	<0.0460 U	---	---	<0.222 U
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B4-X 10052005(1-4)	B5-S 03112014(1-1)	B5-S 10052005(1-1)	B5-X 03112014(1-4)	B5-X 10052005(1-)	B5-X 10052005(1-4)
												Sample Location	B-4	B-5	B-5	B-5	B-5	B-5
												Sample ID	B4-X 10052005(1-4)	B5-S 03112014(1-1)	B5-S 10052005(1-1)	B5-X 03112014(1-4)	B5-X 10052005(1-)	B5-X 10052005(1-4)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	1	1	4	---	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	0.47	---	<0.207 U	---	---
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	<0.0530 U	---	0.79	---	---	<0.236 U
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B6-S 03112014(1-1)	B6-S 10052005(1-1)	B6-X 03112014(1-4)	B6-X 10052005(1-)	B6-X 10052005(1-4)	B7-S 03112014(1-1)
												Sample Location	B-6	B-6	B-6	B-6	B-6	B-7
												Sample ID	B6-S 03112014(1-1)	B6-S 10052005(1-1)	B6-X 03112014(1-4)	B6-X 10052005(1-)	B6-X 10052005(1-4)	B7-S 03112014(1-1)
												Sample Date	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	1	4	---	4	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	---	0.384	---	---	0.753	---
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	---	18.5	---	4.38	---	---
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	---	<0.0670 U	---	<0.0890 U	---	---
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	---	0.845	---	1.39	---	---
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	---	7.63	---	5.02	---	---
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	<0.0192 U	---	<0.0255 U	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	---	<0.480 U	---	**<0.639 U**	---	---
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	---	<0.192 U	---	<0.255 U	---	---
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B6-S 03112014(1-1)	B6-S 10052005(1-1)	B6-X 03112014(1-4)	B6-X 10052005(1-)	B6-X 10052005(1-4)	B7-S 03112014(1-1)
												Sample Location	B-6	B-6	B-6	B-6	B-6	B-7
												Sample ID	B6-S 03112014(1-1)	B6-S 10052005(1-1)	B6-X 03112014(1-4)	B6-X 10052005(1-)	B6-X 10052005(1-4)	B7-S 03112014(1-1)
												Sample Date	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	1	4	---	4	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B6-S 03112014(1-1)	B6-S 10052005(1-1)	B6-X 03112014(1-4)	B6-X 10052005(1-)	B6-X 10052005(1-4)	B7-S 03112014(1-1)
												Sample Location	B-6	B-6	B-6	B-6	B-6	B-7
												Sample ID	B6-S 03112014(1-1)	B6-S 10052005(1-1)	B6-X 03112014(1-4)	B6-X 10052005(1-)	B6-X 10052005(1-4)	B7-S 03112014(1-1)
												Sample Date	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	1	4	---	4	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B6-S 03112014(1-1)	B6-S 10052005(1-1)	B6-X 03112014(1-4)	B6-X 10052005(1-)	B6-X 10052005(1-4)	B7-S 03112014(1-1)
												Sample Location	B-6	B-6	B-6	B-6	B-6	B-7
												Sample ID	B6-S 03112014(1-1)	B6-S 10052005(1-1)	B6-X 03112014(1-4)	B6-X 10052005(1-)	B6-X 10052005(1-4)	B7-S 03112014(1-1)
												Sample Date	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	1	4	---	4	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	<0.0350 U	---	---	<0.0460 U	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B6-S 03112014(1-1)	B6-S 10052005(1-1)	B6-X 03112014(1-4)	B6-X 10052005(1-)	B6-X 10052005(1-4)	B7-S 03112014(1-1)
												Sample Location	B-6	B-6	B-6	B-6	B-6	B-7
												Sample ID	B6-S 03112014(1-1)	B6-S 10052005(1-1)	B6-X 03112014(1-4)	B6-X 10052005(1-)	B6-X 10052005(1-4)	B7-S 03112014(1-1)
												Sample Date	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	1	4	---	4	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	<0.0790 U	---	---	<0.0490 U	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	---	<0.0700 U	---	---	<0.0430 U	---
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	---	<0.0700 U	---	---	<0.0430 U	---
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	---	<0.0930 U	---	---	<0.0580 U	---
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	0.157	---	---	<0.0430 U	---
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	---	0.162	---	---	<0.0430 U	---
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	0.192	---	---	<0.0430 U	---
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	---	<0.0700 U	---	---	<0.0430 U	---
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	0.178	---	---	<0.0440 U	---
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B6-S 03112014(1-1)	B6-S 10052005(1-1)	B6-X 03112014(1-4)	B6-X 10052005(1-)	B6-X 10052005(1-4)	B7-S 03112014(1-1)
												Sample Location	B-6	B-6	B-6	B-6	B-6	B-7
												Sample ID	B6-S 03112014(1-1)	B6-S 10052005(1-1)	B6-X 03112014(1-4)	B6-X 10052005(1-)	B6-X 10052005(1-4)	B7-S 03112014(1-1)
												Sample Date	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	1	4	---	4	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	<0.0700 U	---	---	<0.0430 U	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	---	0.167	---	---	<0.0430 U	---
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	---	<0.0850 U	---	---	<0.0530 U	---
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	<0.0700 U	---	---	<0.0430 U	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	<0.0700 U	---	---	<0.0430 U	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	0.345	---	---	<0.0480 U	---
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	<0.0700 U	---	---	<0.0430 U	---
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	<0.102 U	---	---	<0.0630 U	---
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	<0.0360 U	---	---	<0.0460 U	---
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B6-S 03112014(1-1)	B6-S 10052005(1-1)	B6-X 03112014(1-4)	B6-X 10052005(1-)	B6-X 10052005(1-4)	B7-S 03112014(1-1)
												Sample Location	B-6	B-6	B-6	B-6	B-6	B-7
												Sample ID	B6-S 03112014(1-1)	B6-S 10052005(1-1)	B6-X 03112014(1-4)	B6-X 10052005(1-)	B6-X 10052005(1-4)	B7-S 03112014(1-1)
												Sample Date	3/11/2014	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	1	4	---	4	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.151	---	<0.0430 U	---	---	0.877
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	0.318	---	---	<0.0490 U	---
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B7-S 10052005(1-1)	B7-X 03112014(1-4)	B7-X 10052005(1-)	B7-X 10052005(1-4)	B8-S 03112014(1-1)	B8-S 10052005(1-1)
												Sample Location	B-7	B-7	B-7	B-7	B-8	B-8
												Sample ID	B7-S 10052005(1-1)	B7-X 03112014(1-4)	B7-X 10052005(1-)	B7-X 10052005(1-4)	B8-S 03112014(1-1)	B8-S 10052005(1-1)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	4	---	4	1	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	9.54	---	**8.74**	---	---	1.1
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	364	---	**729**	---	---	93.2
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	2.74	---	9.54	---	---	0.367
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	19.3	---	**31.7**	---	---	4.48
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	795	---	**1970**	---	---	231
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.0774	---	0.0673	---	---	<0.0210 U
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	<0.553 U	---	**<0.561 U**	---	---	<0.525 U
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	4.33	---	1.76	---	---	<0.210 U
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	0.000953
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	0.00399
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	0.00281
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	0.00256
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	<0.000133 U
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	0.0155
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	<0.000370 U
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	0.105
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	<0.000153 U
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	<0.000133 U
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	<0.000507 U
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	0.000713
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	<0.000248 U
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	<0.000290 U
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	<0.000164 U
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	0.00975
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	<0.000145 U
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B7-S 10052005(1-1)	B7-X 03112014(1-4)	B7-X 10052005(1-)	B7-X 10052005(1-4)	B8-S 03112014(1-1)	B8-S 10052005(1-1)
												Sample Location	B-7	B-7	B-7	B-7	B-8	B-8
												Sample ID	B7-S 10052005(1-1)	B7-X 03112014(1-4)	B7-X 10052005(1-)	B7-X 10052005(1-4)	B8-S 03112014(1-1)	B8-S 10052005(1-1)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	4	---	4	1	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B7-S 10052005(1-1)	B7-X 03112014(1-4)	B7-X 10052005(1-)	B7-X 10052005(1-4)	B8-S 03112014(1-1)	B8-S 10052005(1-1)
												Sample Location	B-7	B-7	B-7	B-7	B-8	B-8
												Sample ID	B7-S 10052005(1-1)	B7-X 03112014(1-4)	B7-X 10052005(1-)	B7-X 10052005(1-4)	B8-S 03112014(1-1)	B8-S 10052005(1-1)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	4	---	4	1	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B7-S 10052005(1-1)	B7-X 03112014(1-4)	B7-X 10052005(1-)	B7-X 10052005(1-4)	B8-S 03112014(1-1)	B8-S 10052005(1-1)
												Sample Location	B-7	B-7	B-7	B-7	B-8	B-8
												Sample ID	B7-S 10052005(1-1)	B7-X 03112014(1-4)	B7-X 10052005(1-)	B7-X 10052005(1-4)	B8-S 03112014(1-1)	B8-S 10052005(1-1)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	4	---	4	1	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	<0.0840 U	---	---	<0.0420 U	---	<0.200 U
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B7-S 10052005(1-1)	B7-X 03112014(1-4)	B7-X 10052005(1-)	B7-X 10052005(1-4)	B8-S 03112014(1-1)	B8-S 10052005(1-1)
												Sample Location	B-7	B-7	B-7	B-7	B-8	B-8
												Sample ID	B7-S 10052005(1-1)	B7-X 03112014(1-4)	B7-X 10052005(1-)	B7-X 10052005(1-4)	B8-S 03112014(1-1)	B8-S 10052005(1-1)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	4	---	4	1	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	<0.0900 U	---	---	<0.0460 U	---	<0.216 U
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	<0.0800 U	---	---	<0.0400 U	---	<0.191 U
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	0.084	---	---	<0.0400 U	---	<0.191 U
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	0.204	---	---	<0.0540 U	---	<0.255 U
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	1.04	---	---	0.249	---	<0.191 U
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	1.18	---	---	0.265	---	<0.191 U
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	1.5	---	---	0.37	---	<0.191 U
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	0.322	---	---	0.185	---	<0.191 U
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	1.07	---	---	0.231	---	<0.194 U
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B7-S 10052005(1-1)	B7-X 03112014(1-4)	B7-X 10052005(1-)	B7-X 10052005(1-4)	B8-S 03112014(1-1)	B8-S 10052005(1-1)
												Sample Location	B-7	B-7	B-7	B-7	B-8	B-8
												Sample ID	B7-S 10052005(1-1)	B7-X 03112014(1-4)	B7-X 10052005(1-)	B7-X 10052005(1-4)	B8-S 03112014(1-1)	B8-S 10052005(1-1)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	4	---	4	1	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	<0.0800 U	---	---	<0.0400 U	---	<0.191 U
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	1.03	---	---	0.31	---	<0.191 U
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	0.119	---	---	0.068	---	<0.231 U
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	<0.217 U	---	---	<0.126 U	---	<0.191 U
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	<0.0800 U	---	---	<0.0400 U	---	<0.191 U
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	1.85	---	---	0.377	---	<0.210 U
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	<0.0800 U	---	---	<0.0400 U	---	<0.191 U
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.419	---	---	0.197	---	<0.278 U
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.0850 U	---	---	<0.0430 U	---	<0.204 U
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B7-S 10052005(1-1)	B7-X 03112014(1-4)	B7-X 10052005(1-)	B7-X 10052005(1-4)	B8-S 03112014(1-1)	B8-S 10052005(1-1)
												Sample Location	B-7	B-7	B-7	B-7	B-8	B-8
												Sample ID	B7-S 10052005(1-1)	B7-X 03112014(1-4)	B7-X 10052005(1-)	B7-X 10052005(1-4)	B8-S 03112014(1-1)	B8-S 10052005(1-1)
												Sample Date	10/5/2005	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	1	4	---	4	1	1
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	0.142	---	---	<0.191 U	---
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	1.84	---	---	0.323	---	<0.217 U
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B8-X 03112014(1-4)	B8-X 10052005(1-)	B8-X 10052005(1-4)	B9-S 03112014(1-1)	B9-S 10052005(1-1)	B9-X 03112014(1-4)
												Sample Location	B-8	B-8	B-8	B-9	B-9	B-9
												Sample ID	B8-X 03112014(1-4)	B8-X 10052005(1-)	B8-X 10052005(1-4)	B9-S 03112014(1-1)	B9-S 10052005(1-1)	B9-X 03112014(1-4)
												Sample Date	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	---	4	1	1	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	---	**14**	---	---	8.42	---
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	---	**321**	---	---	695	---
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	---	2.81	---	---	5	---
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	---	**34.4**	---	---	24.9	---
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	---	**662**	---	---	1070	---
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	0.243	---	---	0.135	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	---	**<0.639 U**	---	---	<0.563 U	---
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	---	4.89	---	---	4.28	---
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	0.00356	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	0.0529	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	0.0369	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000172 U	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	0.00025	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	0.00179	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	0.00185	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	0.0232	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	0.0011	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000143 U	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	0.00155	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000155 U	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000265 U	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	0.00111	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	0.000715	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	0.00197	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.000155 U	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B8-X 03112014(1-4)	B8-X 10052005(1-)	B8-X 10052005(1-4)	B9-S 03112014(1-1)	B9-S 10052005(1-1)	B9-X 03112014(1-4)
												Sample Location	B-8	B-8	B-8	B-9	B-9	B-9
												Sample ID	B8-X 03112014(1-4)	B8-X 10052005(1-)	B8-X 10052005(1-4)	B9-S 03112014(1-1)	B9-S 10052005(1-1)	B9-X 03112014(1-4)
												Sample Date	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	---	4	1	1	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B8-X 03112014(1-4)	B8-X 10052005(1-)	B8-X 10052005(1-4)	B9-S 03112014(1-1)	B9-S 10052005(1-1)	B9-X 03112014(1-4)
												Sample Location	B-8	B-8	B-8	B-9	B-9	B-9
												Sample ID	B8-X 03112014(1-4)	B8-X 10052005(1-)	B8-X 10052005(1-4)	B9-S 03112014(1-1)	B9-S 10052005(1-1)	B9-X 03112014(1-4)
												Sample Date	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	---	4	1	1	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B8-X 03112014(1-4)	B8-X 10052005(1-)	B8-X 10052005(1-4)	B9-S 03112014(1-1)	B9-S 10052005(1-1)	B9-X 03112014(1-4)
												Sample Location	B-8	B-8	B-8	B-9	B-9	B-9
												Sample ID	B8-X 03112014(1-4)	B8-X 10052005(1-)	B8-X 10052005(1-4)	B9-S 03112014(1-1)	B9-S 10052005(1-1)	B9-X 03112014(1-4)
												Sample Date	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	---	4	1	1	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	<0.474 U	---	<0.0430 U	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B8-X 03112014(1-4)	B8-X 10052005(1-)	B8-X 10052005(1-4)	B9-S 03112014(1-1)	B9-S 10052005(1-1)	B9-X 03112014(1-4)
												Sample Location	B-8	B-8	B-8	B-9	B-9	B-9
												Sample ID	B8-X 03112014(1-4)	B8-X 10052005(1-)	B8-X 10052005(1-4)	B9-S 03112014(1-1)	B9-S 10052005(1-1)	B9-X 03112014(1-4)
												Sample Date	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	---	4	1	1	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	<0.511 U	---	<0.0460 U	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	---	---	<0.451 U	---	<0.0410 U	---
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	---	---	<0.451 U	---	<0.0410 U	---
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	---	---	0.637	---	<0.0550 U	---
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	2.67	---	0.219	---
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	---	---	2.46	---	0.229	---
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	2.93	---	0.238	---
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	---	---	0.894	---	0.101	---
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	2.3	---	0.21	---
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B8-X 03112014(1-4)	B8-X 10052005(1-)	B8-X 10052005(1-4)	B9-S 03112014(1-1)	B9-S 10052005(1-1)	B9-X 03112014(1-4)
												Sample Location	B-8	B-8	B-8	B-9	B-9	B-9
												Sample ID	B8-X 03112014(1-4)	B8-X 10052005(1-)	B8-X 10052005(1-4)	B9-S 03112014(1-1)	B9-S 10052005(1-1)	B9-X 03112014(1-4)
												Sample Date	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	---	4	1	1	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	<0.451 U	---	<0.0410 U	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	---	---	2.86	---	0.226	---
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	---	---	<0.548 U	---	<0.0500 U	---
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	<0.451 U	---	<0.220 U	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	<0.451 U	---	<0.0950 U	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	---	4.92	---	0.434	---
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	---	<0.451 U	---	<0.0410 U	---
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	0.993	---	0.114	---
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	<0.483 U	---	<0.0440 U	---
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B8-X 03112014(1-4)	B8-X 10052005(1-)	B8-X 10052005(1-4)	B9-S 03112014(1-1)	B9-S 10052005(1-1)	B9-X 03112014(1-4)
												Sample Location	B-8	B-8	B-8	B-9	B-9	B-9
												Sample ID	B8-X 03112014(1-4)	B8-X 10052005(1-)	B8-X 10052005(1-4)	B9-S 03112014(1-1)	B9-S 10052005(1-1)	B9-X 03112014(1-4)
												Sample Date	3/11/2014	10/5/2005	10/5/2005	3/11/2014	10/5/2005	3/11/2014
												Top Depth (ft bags)	1	1	1	1	1	1
												Bottom Depth (ft bags)	4	---	4	1	1	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	2.99	---	---	0.218	---	<0.0450 U
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	---	4.37	---	0.37	---
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B9-X 10052005(1-)	B9-X 10052005(1-4)	INC-SB01-010 06252015(0-.5)	INC-SB01-011 06252015(0-.5)	INC-SB01-020 06252015(2.5-3.5)	INC-SB02-010 06252015(0-.5)
												Sample Location	B-9	B-9	INC-SB01	INC-SB01	INC-SB01	INC-SB02
												Sample ID	B9-X 10052005(1-)	B9-X 10052005(1-4)	INC-SB01-010 06252015(0-.5)	INC-SB01-011 06252015(0-.5)	INC-SB01-020 06252015(2.5-3.5)	INC-SB02-010 06252015(0-.5)
												Sample Date	10/5/2005	10/5/2005	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	1	1	0	0	2.5	0
												Bottom Depth (ft bags)	---	4	0.5	0.5	3.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	5.2	---	9.29 J	9.78 J	46.9 J	20.7 J
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	**632**	---	509	412	1200	561
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	5.78	---	2.22	1.42	3.73	5.53
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	27.4	---	31.1	21	73.5	41.9
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	**2810**	---	656	430	**2090**	**3850**
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.114	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	**<0.633 U**	---	0.486	0.565	0.55	0.347 J
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	1.27	---	5.97	5.44	5.91	3.69
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	0.0838	0.0854	0.704	0.821
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	B9-X 10052005(1-)	B9-X 10052005(1-4)	INC-SB01-010 06252015(0-.5)	INC-SB01-011 06252015(0-.5)	INC-SB01-020 06252015(2.5-3.5)	INC-SB02-010 06252015(0-.5)
												Sample Location	B-9	B-9	INC-SB01	INC-SB01	INC-SB01	INC-SB02
												Sample ID	B9-X 10052005(1-)	B9-X 10052005(1-4)	INC-SB01-010 06252015(0-.5)	INC-SB01-011 06252015(0-.5)	INC-SB01-020 06252015(2.5-3.5)	INC-SB02-010 06252015(0-.5)
												Sample Date	10/5/2005	10/5/2005	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	1	1	0	0	2.5	0
												Bottom Depth (ft bags)	---	4	0.5	0.5	3.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	<0.00624 UJL	<0.00540 UJL	<0.00685 UJL	<0.00608 UJL
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 UJL
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	<0.00624 U	<0.00540 U	<0.00685 U	<0.00608 U
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U

												UNIT	B9-X 10052005(1-)	B9-X 10052005(1-4)	INC-SB01-010 06252015(0-.5)	INC-SB01-011 06252015(0-.5)	INC-SB01-020 06252015(2.5-3.5)	INC-SB02-010 06252015(0-.5)
												Sample Location	B-9	B-9	INC-SB01	INC-SB01	INC-SB01	INC-SB02
												Sample ID	B9-X 10052005(1-)	B9-X 10052005(1-4)	INC-SB01-010 06252015(0-.5)	INC-SB01-011 06252015(0-.5)	INC-SB01-020 06252015(2.5-3.5)	INC-SB02-010 06252015(0-.5)
												Sample Date	10/5/2005	10/5/2005	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	1	1	0	0	2.5	0
												Bottom Depth (ft bags)	---	4	0.5	0.5	3.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	<0.00624 U	<0.00540 U	<0.00685 U	<0.00608 U
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	<0.00624 U	<0.00540 U	<0.00685 U	<0.00608 U
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	<0.0187 U	<0.0162 U	0.0903	0.0552 J
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	0.00212 J	<0.00122 U
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	<0.00624 U	<0.00540 U	<0.00685 U	<0.00608 U
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	<0.00624 UX7	<0.00540 UX7	<0.00685 UX7	<0.00608 UX7
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	<0.00624 U	<0.00540 U	<0.00685 U	<0.00608 U
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	<0.00624 U	<0.00540 U	<0.00685 U	<0.00608 U

												UNIT	B9-X 10052005(1-)	B9-X 10052005(1-4)	INC-SB01-010 06252015(0-.5)	INC-SB01-011 06252015(0-.5)	INC-SB01-020 06252015(2.5-3.5)	INC-SB02-010 06252015(0-.5)
												Sample Location	B-9	B-9	INC-SB01	INC-SB01	INC-SB01	INC-SB02
												Sample ID	B9-X 10052005(1-)	B9-X 10052005(1-4)	INC-SB01-010 06252015(0-.5)	INC-SB01-011 06252015(0-.5)	INC-SB01-020 06252015(2.5-3.5)	INC-SB02-010 06252015(0-.5)
												Sample Date	10/5/2005	10/5/2005	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	1	1	0	0	2.5	0
												Bottom Depth (ft bags)	---	4	0.5	0.5	3.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	<0.00624 U	<0.00540 U	<0.00685 U	<0.00608 U
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	<0.00624 UJL	<0.00540 UJL	<0.00685 UJL	<0.00608 U
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 UJL	<0.00108 UJL	<0.00137 UJL	<0.00122 U
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	<0.00624 U	<0.00540 U	<0.00685 U	<0.00608 U
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	<0.00125 U	<0.00108 U	<0.00137 U	<0.00122 U
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	<0.0507 U	<0.0518 U	<0.0566 U	<0.0557 U
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	<0.0470 U	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U

												UNIT	B9-X 10052005(1-)	B9-X 10052005(1-4)	INC-SB01-010 06252015(0-.5)	INC-SB01-011 06252015(0-.5)	INC-SB01-020 06252015(2.5-3.5)	INC-SB02-010 06252015(0-.5)
												Sample Location	B-9	B-9	INC-SB01	INC-SB01	INC-SB01	INC-SB02
												Sample ID	B9-X 10052005(1-)	B9-X 10052005(1-4)	INC-SB01-010 06252015(0-.5)	INC-SB01-011 06252015(0-.5)	INC-SB01-020 06252015(2.5-3.5)	INC-SB02-010 06252015(0-.5)
												Sample Date	10/5/2005	10/5/2005	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	1	1	0	0	2.5	0
												Bottom Depth (ft bags)	---	4	0.5	0.5	3.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	<0.0510 U	<0.0304 U	<0.0311 U	<0.0340 U	<0.0334 U
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	<0.0304 U	<0.0311 U	<0.0340 U	<0.0334 U
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	<0.0203 U	<0.0207 U	<0.0226 U	<0.0223 U
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	<0.0507 U	<0.0518 U	<0.0566 U	<0.0557 U
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	---	<0.0450 U	<0.0101 U	<0.0104 U	<0.0113 U	0.0260 J
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	---	<0.0450 U	0.0372	0.038	0.0158 J	0.135
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	---	<0.0600 U	0.0588	0.0684	<0.0113 U	0.135
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	<0.0169 U	<0.0173 U	<0.0189 U	<0.0186 U
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	<0.0169 U	<0.0173 U	<0.0189 U	<0.0186 U
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	<0.0169 U	<0.0173 U	<0.0189 U	<0.0186 U
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	<0.0169 U	<0.0173 U	<0.0189 U	<0.0186 U
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	<0.0169 U	<0.0173 U	<0.0189 U	<0.0186 U
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	<0.0169 U	<0.0173 U	<0.0189 U	<0.0186 U
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	<0.0169 U	<0.0173 U	<0.0189 U	0.0491
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 UX7	<0.0104 UX7	<0.0113 UX7	<0.0111 UX7
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	<0.0450 U	0.355	0.442	0.0287 J	0.521
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	---	<0.0450 U	0.353	0.443	0.0385	0.586
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	<0.0450 U	0.396	0.584	0.0287 J	0.629
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	---	<0.0450 U	0.251	0.314	0.0166 J	0.495
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	<0.0460 U	0.274	0.334	0.0143 J	0.318
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	0.0737 J	0.0801 J	0.0657 J	0.0905 J

												UNIT	B9-X 10052005(1-)	B9-X 10052005(1-4)	INC-SB01-010 06252015(0-.5)	INC-SB01-011 06252015(0-.5)	INC-SB01-020 06252015(2.5-3.5)	INC-SB02-010 06252015(0-.5)
												Sample Location	B-9	B-9	INC-SB01	INC-SB01	INC-SB01	INC-SB02
												Sample ID	B9-X 10052005(1-)	B9-X 10052005(1-4)	INC-SB01-010 06252015(0-.5)	INC-SB01-011 06252015(0-.5)	INC-SB01-020 06252015(2.5-3.5)	INC-SB02-010 06252015(0-.5)
												Sample Date	10/5/2005	10/5/2005	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	1	1	0	0	2.5	0
												Bottom Depth (ft bags)	---	4	0.5	0.5	3.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	<0.0450 U	0.0466 J	0.0511 J	0.0438 J	1.44
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	0.0493 J	0.0511 J	<0.0453 U	<0.0445 U
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	<0.0203 U	<0.0207 U	<0.0226 U	<0.0223 U
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	0.0345	0.0449	<0.0113 U	0.0705
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	---	<0.0450 U	0.357	0.443	0.0287 J	0.545
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	---	<0.0550 U	0.0818	0.131	<0.0113 U	0.182
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	0.0156 J
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	<0.312 U	<0.0405 U	<0.0414 U	<0.0453 U	<0.0445 U
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	<0.0405 U	<0.0414 U	<0.0453 U	<0.0445 U
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	<0.0790 U	<0.0405 U	<0.0414 U	<0.0453 U	0.0601 J
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	<0.0405 U	0.0421 J	0.115	0.174
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	0.057	0.638	0.736	0.0506	0.949
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	<0.0450 U	<0.0101 U	<0.0104 U	<0.0113 U	0.0312
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	<0.0304 U	<0.0311 U	<0.0340 U	<0.0334 U
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	<0.0660 U	0.222	0.28	0.0151 J	0.393
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	<0.0304 U	<0.0311 U	<0.0340 U	<0.0334 U
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	<0.0480 U	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U

												UNIT	B9-X 10052005(1-)	B9-X 10052005(1-4)	INC-SB01-010 06252015(0-.5)	INC-SB01-011 06252015(0-.5)	INC-SB01-020 06252015(2.5-3.5)	INC-SB02-010 06252015(0-.5)
												Sample Location	B-9	B-9	INC-SB01	INC-SB01	INC-SB01	INC-SB02
												Sample ID	B9-X 10052005(1-)	B9-X 10052005(1-4)	INC-SB01-010 06252015(0-.5)	INC-SB01-011 06252015(0-.5)	INC-SB01-020 06252015(2.5-3.5)	INC-SB02-010 06252015(0-.5)
												Sample Date	10/5/2005	10/5/2005	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	1	1	0	0	2.5	0
												Bottom Depth (ft bags)	---	4	0.5	0.5	3.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	---	0.247	0.265	0.0309	0.408
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0104 U	<0.0113 U	<0.0111 U
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	0.058	0.547	0.454	0.0377	0.807
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	0.000100 JH	0.000137 J	0.000283	0.000258
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	0.0000170 J	0.0000200 J	0.000051	0.0000540 J
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	0.00000100 JH	0.00000100 J	0.00000700 J	0.00000200 JH
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	0.00000100 J	0.00000100 J	0.00000600 JH	0.00000100 J
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	0.00000200 U	0.00000200 U	0.0000180 U	0.00000600 U
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	0.00000900 U	0.0000120 U	0.0000420 U	0.0000140 U
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	0.00000300 JH	0.00000200 JH	0.0000140 J	0.00000700 JH
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	0.00000700 U	0.00000800 U	0.0000260 U	0.0000100 U
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	0.00000100 JH	0.00000200 JH	<0.00000100 U	0.00000300 J
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	0.00000300 JH	0.00000200 JH	0.00000900 J	0.00000500 J
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	0.00000200 J	0.00000200 JH	0.0000170 J	0.00000500 JH
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	0.00000400 JH	0.00000300 J	0.0000190 J	0.0000100 J
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	0.00000500 J	0.00000200 JH	0.0000220 J	<0.00 U
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	0.00000100 JH	<0.00 U	0.00000300 JH	0.00000200 JH
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	0.000009	0.000007	0.000037	0.000016
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	<0.00000100 U	0.00000100 JH	0.000023	0.00000700 J
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	0.000561 U	0.000765 U	0.000732 U	0.00144 U
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	0.0000130 J	0.0000210 J	0.0000310 J	0.0000560 J
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB02-020 06252015(2.5-3.5)	INC-SB03-013 06252015(0-.5)	INC-SB03-020 06252015(2-3)	INC-SB04-010 06252015(0-.5)	INC-SB04-020 06252015(2-3)	INC-SB05-010 06252015(0-.5)
												Sample Location	INC-SB02	INC-SB03	INC-SB03	INC-SB04	INC-SB04	INC-SB05
												Sample ID	INC-SB02-020 06252015(2.5-3.5)	INC-SB03-013 06252015(0-.5)	INC-SB03-020 06252015(2-3)	INC-SB04-010 06252015(0-.5)	INC-SB04-020 06252015(2-3)	INC-SB05-010 06252015(0-.5)
												Sample Date	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	2.5	0	2	0	2	0
												Bottom Depth (ft bags)	3.5	0.5	3	0.5	3	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	20.1 J	27.1 J	12.2 J	4.87 J	1.21 J	30.9 J
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	1570	356	387	235	10.8	970
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	5.06	3.74	7.28	0.927	<0.103 U	2.05
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	114	39.3	40.7	10.4	4.35	52.3
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	**1980**	857	696	253	3.52	1070
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	0.402 J	0.528 J	0.517 J	0.205 J	0.418 J	0.345 J
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	5.02	2.34	5.25	0.633	<0.103 U	3.06
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.644	0.124	0.21	0.0389	<0.0175 U	0.0702
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB02-020 06252015(2.5-3.5)	INC-SB03-013 06252015(0-.5)	INC-SB03-020 06252015(2-3)	INC-SB04-010 06252015(0-.5)	INC-SB04-020 06252015(2-3)	INC-SB05-010 06252015(0-.5)
												Sample Location	INC-SB02	INC-SB03	INC-SB03	INC-SB04	INC-SB04	INC-SB05
												Sample ID	INC-SB02-020 06252015(2.5-3.5)	INC-SB03-013 06252015(0-.5)	INC-SB03-020 06252015(2-3)	INC-SB04-010 06252015(0-.5)	INC-SB04-020 06252015(2-3)	INC-SB05-010 06252015(0-.5)
												Sample Date	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	2.5	0	2	0	2	0
												Bottom Depth (ft bags)	3.5	0.5	3	0.5	3	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	<0.00665 UJL	<0.00661 UJL	<0.00618 UJL	<0.00672 UJL	<0.00616 UJL	<0.00490 UJL
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	<0.00133 UJL	<0.00132 UJL	<0.00124 UJL	<0.00134 UJL	<0.00123 UJL	<0.000980 UJL
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	<0.00665 U	<0.00661 U	<0.00618 U	<0.00672 U	<0.00616 U	<0.00490 U
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL

												UNIT	INC-SB02-020 06252015(2.5-3.5)	INC-SB03-013 06252015(0-.5)	INC-SB03-020 06252015(2-3)	INC-SB04-010 06252015(0-.5)	INC-SB04-020 06252015(2-3)	INC-SB05-010 06252015(0-.5)
												Sample Location	INC-SB02	INC-SB03	INC-SB03	INC-SB04	INC-SB04	INC-SB05
												Sample ID	INC-SB02-020 06252015(2.5-3.5)	INC-SB03-013 06252015(0-.5)	INC-SB03-020 06252015(2-3)	INC-SB04-010 06252015(0-.5)	INC-SB04-020 06252015(2-3)	INC-SB05-010 06252015(0-.5)
												Sample Date	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	2.5	0	2	0	2	0
												Bottom Depth (ft bags)	3.5	0.5	3	0.5	3	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	<0.00665 U	<0.00661 U	<0.00618 U	<0.00672 U	<0.00616 U	<0.00490 U
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	<0.00665 U	<0.00661 U	<0.00618 U	<0.00672 U	<0.00616 U	<0.00490 U
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	0.142	<0.0198 U	0.131	<0.0201 U	0.187	<0.0147 U
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	0.00260 J	<0.00132 U	0.00153 J	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	<0.00665 U	<0.00661 U	<0.00618 U	<0.00672 U	<0.00616 U	<0.00490 U
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	<0.00665 UX7	<0.00661 UX7	<0.00618 UX7	<0.00672 UX7	<0.00616 UX7	<0.00490 UX7
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	<0.00665 U	<0.00661 U	<0.00618 U	<0.00672 U	<0.00616 U	<0.00490 U
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	<0.00665 U	<0.00661 U	<0.00618 U	<0.00672 U	<0.00616 U	<0.00490 U

												UNIT	INC-SB02-020 06252015(2.5-3.5)	INC-SB03-013 06252015(0-.5)	INC-SB03-020 06252015(2-3)	INC-SB04-010 06252015(0-.5)	INC-SB04-020 06252015(2-3)	INC-SB05-010 06252015(0-.5)
												Sample Location	INC-SB02	INC-SB03	INC-SB03	INC-SB04	INC-SB04	INC-SB05
												Sample ID	INC-SB02-020 06252015(2.5-3.5)	INC-SB03-013 06252015(0-.5)	INC-SB03-020 06252015(2-3)	INC-SB04-010 06252015(0-.5)	INC-SB04-020 06252015(2-3)	INC-SB05-010 06252015(0-.5)
												Sample Date	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	2.5	0	2	0	2	0
												Bottom Depth (ft bags)	3.5	0.5	3	0.5	3	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	<0.00665 U	<0.00661 U	<0.00618 U	<0.00672 U	<0.00616 U	<0.00490 U
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.00665 U	<0.00661 UJL	<0.00618 U	<0.00672 U	<0.00616 U	<0.00490 UJL
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 UJL	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 UJL
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	<0.00665 U	<0.00661 U	<0.00618 U	<0.00672 U	<0.00616 U	<0.00490 U
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	<0.00133 U	<0.00132 U	<0.00124 U	<0.00134 U	<0.00123 U	<0.000980 U
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	<0.0121 U	0.0318	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	<0.0603 UJL	<0.0568 UJL	<0.0604 UJL	<0.0502 U	<0.0555 U	<0.0538 U
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	<0.0121 U	0.426	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	<0.0121 U	0.0159 J	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U

												UNIT	INC-SB02-020 06252015(2.5-3.5)	INC-SB03-013 06252015(0-.5)	INC-SB03-020 06252015(2-3)	INC-SB04-010 06252015(0-.5)	INC-SB04-020 06252015(2-3)	INC-SB05-010 06252015(0-.5)
												Sample Location	INC-SB02	INC-SB03	INC-SB03	INC-SB04	INC-SB04	INC-SB05
												Sample ID	INC-SB02-020 06252015(2.5-3.5)	INC-SB03-013 06252015(0-.5)	INC-SB03-020 06252015(2-3)	INC-SB04-010 06252015(0-.5)	INC-SB04-020 06252015(2-3)	INC-SB05-010 06252015(0-.5)
												Sample Date	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	2.5	0	2	0	2	0
												Bottom Depth (ft bags)	3.5	0.5	3	0.5	3	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	<0.0121 UJ	<0.0114 UJ	<0.0121 UJ	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	<0.0362 U	<0.0341 U	<0.0362 U	<0.0301 U	<0.0333 U	<0.0323 U
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	<0.0362 U	<0.0341 U	<0.0362 U	<0.0301 U	<0.0333 U	<0.0323 U
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	<0.0241 U	0.0356	<0.0241 U	<0.0201 U	<0.0222 U	<0.0215 U
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	<0.0603 U	<0.0568 U	<0.0604 U	<0.0502 U	<0.0555 U	<0.0538 U
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	0.0217 JL	1.10 JL	<0.0121 UJL	0.0194 J	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	0.0691	0.118	0.0185 J	0.0489	<0.0111 U	0.0215 J
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	0.0803 JL	2.33 JL	<0.0121 R	0.071	<0.0111 U	0.0136 J
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	<0.0201 U	<0.0189 U	<0.0201 U	<0.0167 U	<0.0185 U	<0.0179 U
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	<0.0201 U	<0.0189 U	<0.0201 U	<0.0167 U	<0.0185 U	<0.0179 U
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	<0.0201 U	<0.0189 U	<0.0201 U	<0.0167 U	<0.0185 U	<0.0179 U
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	<0.0201 U	<0.0189 U	<0.0201 U	<0.0167 U	<0.0185 U	<0.0179 U
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	<0.0201 U	<0.0189 U	<0.0201 U	<0.0167 U	<0.0185 U	<0.0179 U
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	<0.0201 U	<0.0189 U	<0.0201 U	<0.0167 U	<0.0185 U	<0.0179 U
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	0.0359 J	<0.0189 U	<0.0201 U	<0.0167 U	<0.0185 U	<0.0179 U
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	<0.0121 UX7	<0.0114 UX7	<0.0121 UX7	<0.0100 UX7	<0.0111 UX7	<0.0108 UX7
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.364	3.88	0.033	0.509	<0.0111 U	0.0688
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	0.384	3.31	0.0467	0.542	<0.0111 U	0.102
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.402	2.83	0.0346	0.615	<0.0111 U	0.108
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	0.308 JL	1.85 JL	0.0314 JL	0.417	<0.0111 UJL	0.0724 JL
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	0.299	2.21	0.0258 J	0.445	<0.0111 U	0.0631
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	0.0924 J	<0.0568 UJ	0.0652 J	0.0743 J	0.0570 J	0.0731 J

												UNIT	INC-SB02-020 06252015(2.5-3.5)	INC-SB03-013 06252015(0-.5)	INC-SB03-020 06252015(2-3)	INC-SB04-010 06252015(0-.5)	INC-SB04-020 06252015(2-3)	INC-SB05-010 06252015(0-.5)
												Sample Location	INC-SB02	INC-SB03	INC-SB03	INC-SB04	INC-SB04	INC-SB05
												Sample ID	INC-SB02-020 06252015(2.5-3.5)	INC-SB03-013 06252015(0-.5)	INC-SB03-020 06252015(2-3)	INC-SB04-010 06252015(0-.5)	INC-SB04-020 06252015(2-3)	INC-SB05-010 06252015(0-.5)
												Sample Date	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	2.5	0	2	0	2	0
												Bottom Depth (ft bags)	3.5	0.5	3	0.5	3	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	<0.0121 U	0.104	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	0.0498 J	0.0568 J	0.0402 J	0.0616 J	0.0400 J	0.0609 J
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	<0.0482 U	0.0735 J	<0.0483 U	<0.0402 U	<0.0444 U	<0.0430 U
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	<0.0241 U	<0.0227 U	<0.0241 U	<0.0201 U	0.0252 J	<0.0215 U
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	0.0426 JL	1.22 JL	<0.0121 UJL	0.0475	<0.0111 U	0.0108 J
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	0.362	3.67	0.0306 J	0.528	<0.0111 U	0.0882
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	0.101 JL	1.06 JL	<0.0121 UJL	0.178	<0.0111 U	0.0272 J
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	<0.0121 UJL	0.749 JL	<0.0121 UJL	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	<0.0482 U	<0.0454 U	<0.0483 U	<0.0402 U	<0.0444 U	<0.0430 U
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	<0.0482 U	<0.0454 U	<0.0483 U	<0.0402 U	<0.0444 U	<0.0430 U
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	<0.0482 U	<0.0454 U	<0.0483 U	<0.0402 U	<0.0444 U	0.0437 J
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	0.133	<0.0454 U	0.0523 J	0.0529 J	0.0563 J	<0.0430 U
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.703	7.92	0.0475	0.953	<0.0111 U	0.166
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.0209 JL	1.20 JL	<0.0121 UJL	0.0141 J	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	<0.0362 U	<0.0341 U	<0.0362 U	<0.0301 UJL	<0.0333 U	<0.0323 U
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.263 JL	1.83 JL	0.0241 JL	0.374	<0.0111 U	0.0588
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	<0.0362 U	<0.0341 U	<0.0362 U	<0.0301 U	<0.0333 U	<0.0323 U
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	0.0121 JL	0.670 JL	<0.0121 UJL	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	0.0174 J	<0.0111 U	<0.0108 U

												UNIT	INC-SB02-020 06252015(2.5-3.5)	INC-SB03-013 06252015(0-.5)	INC-SB03-020 06252015(2-3)	INC-SB04-010 06252015(0-.5)	INC-SB04-020 06252015(2-3)	INC-SB05-010 06252015(0-.5)
												Sample Location	INC-SB02	INC-SB03	INC-SB03	INC-SB04	INC-SB04	INC-SB05
												Sample ID	INC-SB02-020 06252015(2.5-3.5)	INC-SB03-013 06252015(0-.5)	INC-SB03-020 06252015(2-3)	INC-SB04-010 06252015(0-.5)	INC-SB04-020 06252015(2-3)	INC-SB05-010 06252015(0-.5)
												Sample Date	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	2.5	0	2	0	2	0
												Bottom Depth (ft bags)	3.5	0.5	3	0.5	3	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.32	7.84	0.0217 J	0.315	<0.0111 U	0.0545
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	<0.0121 U	<0.0114 U	<0.0121 U	<0.0100 U	<0.0111 U	<0.0108 U
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.586	6.2	0.0419	0.796	<0.0111 UJL	0.130 JL
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.000348	0.000189	0.000144	0.0000510 J	0.00000200 U	0.000142
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.000093	0.0000580 J	0.0000320 J	0.0000180 J	0.00 JH	0.0000390 J
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.00000700 JH	0.00000400 J	0.00000800 J	0.00000100 JH	0.00 U	0.00000400 JH
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.00000500 JH	0.00000500 JH	0.00000600 JH	0.00000100 JH	<0.00 U	0.00000300 JH
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.0000140 U	0.00000800 U	0.00000600 U	0.00000100 U	0.00000100 U	0.00000700 U
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.0000190 U	0.0000130 U	0.0000120 U	0.00000600 U	<0.00 U	0.00000800 U
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.0000110 J	0.00000800 J	0.00000600 J	0.00000300 JH	<0.00 U	0.00000600 JH
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.0000140 U	0.00000900 U	0.0000100 U	0.00000300 U	0.00 U	0.00000800 U
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.00000500 JH	0.00000300 JH	0.00000800 J	<0.00000100 U	0.00000100 U	0.00000200 JH
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.00000800 J	0.00000600 J	0.00000800 J	0.00000100 JH	<0.00 U	0.00000200 JH
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.00000900 J	0.00000700 J	0.00000700 J	0.00000200 J	0.00000100 JH	0.00000600 J
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.0000140 J	0.00000900 J	0.00000800 J	0.00000600 JH	0.00 U	0.00000900 JH
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.0000150 J	0.0000100 J	0.00000700 JH	0.00000200 JH	0.00 JH	0.00000700 JH
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.00000200 JH	0.00000100 JH	0.00000100 JH	0.00000100 JH	0.00 JH	<0.00000100 U
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	0.000029	0.00002	0.000019	0.000006	0.000001	0.000011
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.0000110 J	0.00000600 J	0.00000200 J	0.00000100 JH	<0.00 U	0.00000600 J
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.00204	0.00102 U	0.000909 U	0.000287 U	0.0000320 U	0.000821 U
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.000118	0.0000650 J	0.0000470 J	0.0000180 J	0.00000100 U	0.0000470 J
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB05-020 06252015(2.5-3.5)	INC-SB05-021 06252015(2.5-3.5)	INC-SB06-010 06242015(0-.5)	INC-SB06-020 06242015(3-4)	INC-SB07-010 06242015(0-.5)	INC-SB07-020 06242015(2-3)
												Sample Location	INC-SB05	INC-SB05	INC-SB06	INC-SB06	INC-SB07	INC-SB07
												Sample ID	INC-SB05-020 06252015(2.5-3.5)	INC-SB05-021 06252015(2.5-3.5)	INC-SB06-010 06242015(0-.5)	INC-SB06-020 06242015(3-4)	INC-SB07-010 06242015(0-.5)	INC-SB07-020 06242015(2-3)
												Sample Date	6/25/2015	6/25/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015
												Top Depth (ft bags)	2.5	2.5	0	3	0	2
												Bottom Depth (ft bags)	3.5	3.5	0.5	4	0.5	3
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	81.8 J	66.7 J	37.2 J	68.7 J	<5.43 U	37.1
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	992 J	583 J	56.6	411	157	1190
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	4.13	2.96	5.25	4.62	1.11 J	7.72
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	86.3	79.4	41.9	66.5	13.5 J	88.4
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	**2310**	**2230**	**2250**	1300	306	**1970**
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	0.381 J	0.346 J	0.792	0.639	<1.63 U	0.57
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	2.68	3.22	4.1	2.04	<1.09 U	23
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.108	0.102	0.659	0.215	0.0604	0.572
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB05-020 06252015(2.5-3.5)	INC-SB05-021 06252015(2.5-3.5)	INC-SB06-010 06242015(0-.5)	INC-SB06-020 06242015(3-4)	INC-SB07-010 06242015(0-.5)	INC-SB07-020 06242015(2-3)
												Sample Location	INC-SB05	INC-SB05	INC-SB06	INC-SB06	INC-SB07	INC-SB07
												Sample ID	INC-SB05-020 06252015(2.5-3.5)	INC-SB05-021 06252015(2.5-3.5)	INC-SB06-010 06242015(0-.5)	INC-SB06-020 06242015(3-4)	INC-SB07-010 06242015(0-.5)	INC-SB07-020 06242015(2-3)
												Sample Date	6/25/2015	6/25/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015
												Top Depth (ft bags)	2.5	2.5	0	3	0	2
												Bottom Depth (ft bags)	3.5	3.5	0.5	4	0.5	3
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	<0.00140 UJL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	<0.00526 UJL	<0.00631 UJL	<0.00698 UJL	<0.00698 UJL	<0.00698 UJL	<0.00657 UJL
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	<0.00140 UJL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 UJL	<0.00140 UJL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	<0.00140 UJL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	0.207 JL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	<0.00140 UJL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	0.0548 JL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	<0.00140 UJL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	<0.00140 UJL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	<0.00140 UJL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	<0.00140 UJL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	0.0353	0.00837 J	<0.00698 U	0.0632	<0.00698 U	0.0318
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	<0.00140 UJL	<0.00140 UJL	<0.00131 UJL

												UNIT	INC-SB05-020 06252015(2.5-3.5)	INC-SB05-021 06252015(2.5-3.5)	INC-SB06-010 06242015(0-.5)	INC-SB06-020 06242015(3-4)	INC-SB07-010 06242015(0-.5)	INC-SB07-020 06242015(2-3)
												Sample Location	INC-SB05	INC-SB05	INC-SB06	INC-SB06	INC-SB07	INC-SB07
												Sample ID	INC-SB05-020 06252015(2.5-3.5)	INC-SB05-021 06252015(2.5-3.5)	INC-SB06-010 06242015(0-.5)	INC-SB06-020 06242015(3-4)	INC-SB07-010 06242015(0-.5)	INC-SB07-020 06242015(2-3)
												Sample Date	6/25/2015	6/25/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015
												Top Depth (ft bags)	2.5	2.5	0	3	0	2
												Bottom Depth (ft bags)	3.5	3.5	0.5	4	0.5	3
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	<0.00526 U	<0.00631 U	<0.00698 U	<0.00698 U	<0.00698 U	<0.00657 U
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	<0.00140 UJL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	<0.00526 U	<0.00631 U	<0.00698 U	<0.00698 U	<0.00698 U	<0.00657 U
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	0.259	0.13	<0.0209 U	0.387	<0.0209 U	0.154
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	0.00174 J	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	<0.00140 UJL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 UJL	<0.00140 UJL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	<0.00526 U	<0.00631 U	<0.00698 U	0.00760 J	<0.00698 U	<0.00657 U
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	<0.00140 UJL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	0.00259 J	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	<0.00526 UX7	<0.00631 UX7	<0.00698 UX7	0.0228 X7	<0.00698 UX7	<0.00657 UX7
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	0.0205 JL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	<0.00140 UJL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	0.0127 JL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	0.0553 JL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	<0.00526 U	<0.00631 U	<0.00698 U	<0.00698 U	<0.00698 U	<0.00657 U
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 UJL	<0.00140 UJL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	<0.00526 U	<0.00631 U	<0.00698 U	0.0835	<0.00698 U	<0.00657 U

												UNIT	INC-SB05-020 06252015(2.5-3.5)	INC-SB05-021 06252015(2.5-3.5)	INC-SB06-010 06242015(0-.5)	INC-SB06-020 06242015(3-4)	INC-SB07-010 06242015(0-.5)	INC-SB07-020 06242015(2-3)
												Sample Location	INC-SB05	INC-SB05	INC-SB06	INC-SB06	INC-SB07	INC-SB07
												Sample ID	INC-SB05-020 06252015(2.5-3.5)	INC-SB05-021 06252015(2.5-3.5)	INC-SB06-010 06242015(0-.5)	INC-SB06-020 06242015(3-4)	INC-SB07-010 06242015(0-.5)	INC-SB07-020 06242015(2-3)
												Sample Date	6/25/2015	6/25/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015
												Top Depth (ft bags)	2.5	2.5	0	3	0	2
												Bottom Depth (ft bags)	3.5	3.5	0.5	4	0.5	3
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	<0.00526 U	<0.00631 U	<0.00698 U	<0.00698 U	<0.00698 U	<0.00657 U
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.00526 UJL	<0.00631 UJL	<0.00698 UJL	0.0931 JL	<0.00698 UJL	<0.00657 UJL
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	0.00567 JL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	0.0192 JL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	0.0213 JL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	0.0101 JL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	0.00522 JL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	<0.00140 UJL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	<0.00140 UJL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	<0.00105 UJL	<0.00126 UJL	<0.00140 UJL	<0.00140 UJL	<0.00140 UJL	<0.00131 UJL
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	0.00686 J	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	<0.00526 U	<0.00631 U	<0.00698 U	<0.00698 U	<0.00698 U	<0.00657 U
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00126 U	<0.00140 U	<0.00140 U	<0.00140 U	<0.00131 U
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	<0.0564 U	<0.0537 U	<0.0517 U	<0.548 U	<0.0548 U	<0.605 U
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U

												UNIT	INC-SB05-020 06252015(2.5-3.5)	INC-SB05-021 06252015(2.5-3.5)	INC-SB06-010 06242015(0-.5)	INC-SB06-020 06242015(3-4)	INC-SB07-010 06242015(0-.5)	INC-SB07-020 06242015(2-3)
												Sample Location	INC-SB05	INC-SB05	INC-SB06	INC-SB06	INC-SB07	INC-SB07
												Sample ID	INC-SB05-020 06252015(2.5-3.5)	INC-SB05-021 06252015(2.5-3.5)	INC-SB06-010 06242015(0-.5)	INC-SB06-020 06242015(3-4)	INC-SB07-010 06242015(0-.5)	INC-SB07-020 06242015(2-3)
												Sample Date	6/25/2015	6/25/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015
												Top Depth (ft bags)	2.5	2.5	0	3	0	2
												Bottom Depth (ft bags)	3.5	3.5	0.5	4	0.5	3
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	<0.0338 U	<0.0322 U	<0.0310 U	<0.329 U	<0.0329 U	<0.363 U
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	<0.0338 U	<0.0322 U	<0.0310 U	<0.329 U	<0.0329 U	<0.363 U
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	<0.0225 U	<0.0215 U	<0.0207 U	<0.219 U	<0.0219 U	<0.242 U
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	<0.0564 U	<0.0537 U	<0.0517 U	<0.548 U	<0.0548 U	<0.605 U
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	0.117 J	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	<0.0113 U	0.0179 J	0.0317	0.153 J	0.0278 J	0.185 J
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	<0.0113 U	0.0179 J	0.0289	0.183 J	0.0205 J	<0.121 U
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	<0.0188 U	<0.0179 U	<0.0172 U	<0.0183 U	<0.0183 U	<0.0202 U
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	<0.0188 U	<0.0179 U	<0.0172 U	<0.0183 U	<0.0183 U	<0.0202 U
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	<0.0188 U	<0.0179 U	<0.0172 U	<0.0183 U	<0.0183 U	<0.0202 U
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	<0.0188 U	<0.0179 U	<0.0172 U	<0.0183 U	<0.0183 U	<0.0202 U
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	<0.0188 U	<0.0179 U	<0.0172 U	<0.0183 U	<0.0183 U	<0.0202 U
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	<0.0188 U	<0.0179 U	0.0436	<0.0183 U	<0.0183 U	<0.0202 U
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	<0.0188 U	<0.0179 U	0.0297 J	<0.0183 U	<0.0183 U	<0.0202 U
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	<0.0113 UX7	<0.0107 UX7	<0.0103 UX7	<0.110 UX7	<0.0110 UX7	<0.121 UX7
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.0443	0.217	0.172	0.153 J	0.0863	0.234 J
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	0.0601 J	0.239 J	0.212	0.285 J	0.105	0.379
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.0443	0.246	0.245	0.146 J	0.0994	0.194 J
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	0.0383 JL	0.166 JL	0.166 JL	0.117 JL	0.0702 JL	0.169 JL
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	0.0323	0.141	0.131	<0.110 U	0.057	0.153 J
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	0.0759 J	0.0659 J	0.0758 J	<0.548 U	0.0804 J	<0.605 U

												UNIT	INC-SB05-020 06252015(2.5-3.5)	INC-SB05-021 06252015(2.5-3.5)	INC-SB06-010 06242015(0-.5)	INC-SB06-020 06242015(3-4)	INC-SB07-010 06242015(0-.5)	INC-SB07-020 06242015(2-3)
												Sample Location	INC-SB05	INC-SB05	INC-SB06	INC-SB06	INC-SB07	INC-SB07
												Sample ID	INC-SB05-020 06252015(2.5-3.5)	INC-SB05-021 06252015(2.5-3.5)	INC-SB06-010 06242015(0-.5)	INC-SB06-020 06242015(3-4)	INC-SB07-010 06242015(0-.5)	INC-SB07-020 06242015(2-3)
												Sample Date	6/25/2015	6/25/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015
												Top Depth (ft bags)	2.5	2.5	0	3	0	2
												Bottom Depth (ft bags)	3.5	3.5	0.5	4	0.5	3
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	0.0406 J	0.0516 J	0.0503 J	83.9	0.0431 J	<0.363 U
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	<0.0451 U	<0.0430 U	<0.0413 U	<0.438 U	<0.0439 U	<0.484 U
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	0.0398	<0.0215 U	<0.0207 U	<0.219 U	0.0833	<0.242 U
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	0.0193 J	0.168 J	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	0.0443	0.216 J	0.172	0.124 J	0.0877	0.194 J
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	0.0158 J	0.0645	0.0675	<0.110 U	0.0263 J	<0.121 U
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	<0.0451 U	<0.0430 U	<0.0413 U	<0.438 U	<0.0439 U	<0.484 U
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	<0.0451 U	<0.0430 U	<0.0413 U	<0.438 U	<0.0439 U	<0.484 U
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	0.0503 J	<0.0430 U	0.0434 J	<0.438 U	<0.0439 U	<0.484 U
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	0.0639 J	0.0975	<0.0413 U	0.884	0.0446 J	<0.484 U
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.0631 J	0.362 J	0.283	0.153 J	0.164	0.331
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	<0.0338 U	<0.0322 U	<0.0310 U	<0.329 U	<0.0329 U	<0.363 U
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.0346	0.143	0.141	<0.110 U	0.0578	0.169 J
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	<0.0338 U	<0.0322 U	<0.0310 U	<0.329 U	<0.0329 U	<0.363 U
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	0.175 J	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U

												UNIT	INC-SB05-020 06252015(2.5-3.5)	INC-SB05-021 06252015(2.5-3.5)	INC-SB06-010 06242015(0-.5)	INC-SB06-020 06242015(3-4)	INC-SB07-010 06242015(0-.5)	INC-SB07-020 06242015(2-3)
												Sample Location	INC-SB05	INC-SB05	INC-SB06	INC-SB06	INC-SB07	INC-SB07
												Sample ID	INC-SB05-020 06252015(2.5-3.5)	INC-SB05-021 06252015(2.5-3.5)	INC-SB06-010 06242015(0-.5)	INC-SB06-020 06242015(3-4)	INC-SB07-010 06242015(0-.5)	INC-SB07-020 06242015(2-3)
												Sample Date	6/25/2015	6/25/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015
												Top Depth (ft bags)	2.5	2.5	0	3	0	2
												Bottom Depth (ft bags)	3.5	3.5	0.5	4	0.5	3
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.0173 J	0.076	0.107	0.175 J	0.0687	0.169 J
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.0107 U	<0.0103 U	<0.110 U	<0.0110 U	<0.121 U
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.0564 JL	0.325 JL	0.249 JL	0.146 JL	0.130 JL	0.290 JL
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.000242 J	0.000249 J	0.000448	0.000772	0.00017	0.000489
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.0000490 J	0.0000320 J	0.000099	0.000074	0.0000320 J	0.000098
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.00000600 JH	0.00000200 J	0.00000800 J	0.00000700 JH	0.00000200 J	0.00000900 JH
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.00000500 JH	0.00000400 J	0.00000900 J	0.0000170 JH	0.00000300 JH	0.0000100 J
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.00000700 U	0.00000500 U	0.0000160 J	0.0000110 J	0.00000500 J	0.0000290 J
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.0000230 U	0.0000200 U	0.0000270 JH	0.0000380 J	0.0000120 JH	0.0000430 J
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.00000800 J	0.00000400 JH	0.0000170 JH	0.0000110 J	0.00000500 J	0.0000270 J
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.0000180 U	0.0000150 U	0.0000200 JH	0.0000380 J	0.00000900 J	0.0000310 J
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.00000500 JH	0.00000300 J	<0.00000100 U	0.00000400 J	<0.00000100 U	0.0000160 JH
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.00000700 J	0.00000800 J	0.00000700 JH	0.0000130 JH	0.00000300 J	0.0000160 JH
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.00000700 JH	0.00000400 J	0.0000150 JH	0.00000700 J	0.00000600 JH	0.0000120 J
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.00000700 J	0.00000700 J	0.0000250 J	0.0000140 J	0.00000800 J	0.0000330 J
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.0000100 J	0.00000600 J	0.0000220 J	0.0000120 J	0.00000800 J	<0.00000100 U
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.00000100 JH	0.00000200 JH	<0.00000100 U	0.00000400 JH	<0.00000100 U	0.00000600 JH
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	0.000023	0.000022	0.000033	0.000044	0.000013	0.000049
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.0000110 J	0.00000700 J	0.0000130 JH	0.00000800 JH	0.00000500 J	0.0000170 JH
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.00117 U	0.00104 U	0.0023	0.00376	0.000682	0.00193
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.0000580 J	0.0000320 J	0.000116	0.0000920 J	0.0000320 JH	0.0000640 J
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB08-010 06242015(0-.5)	INC-SB08-020 06242015(2-3)	INC-SB09-010 06252015(0-.5)	INC-SB09-020 06252015(2.5-3.5)	INC-SB10-010 06252015(0-.5)	INC-SB10-020 06252015(2.5-3.5)
												Sample Location	INC-SB08	INC-SB08	INC-SB09	INC-SB09	INC-SB10	INC-SB10
												Sample ID	INC-SB08-010 06242015(0-.5)	INC-SB08-020 06242015(2-3)	INC-SB09-010 06252015(0-.5)	INC-SB09-020 06252015(2.5-3.5)	INC-SB10-010 06252015(0-.5)	INC-SB10-020 06252015(2.5-3.5)
												Sample Date	6/24/2015	6/24/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	0	2	0	2.5	0	2.5
												Bottom Depth (ft bags)	0.5	3	0.5	3.5	0.5	3.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	56.5	53.3	11.8 J	**229**	2.93 J	54.6 J
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	1100	975	816	1530	43.9	757
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	10	68.4	6.15	14.5	0.345	6.08
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	100	135	48.6	75.8	5.31	96.6
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	**2710**	**20400**	969	**1890**	58.3	**2370**
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	<1.72 U	1.88 J	1.04	<1.76 U	0.318 J	0.571 J
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	6.84	4.17	2.33	12.9	0.148 J	9.35
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.903	0.293	0.187	0.854	<0.0155 U	1.39
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB08-010 06242015(0-.5)	INC-SB08-020 06242015(2-3)	INC-SB09-010 06252015(0-.5)	INC-SB09-020 06252015(2.5-3.5)	INC-SB10-010 06252015(0-.5)	INC-SB10-020 06252015(2.5-3.5)
												Sample Location	INC-SB08	INC-SB08	INC-SB09	INC-SB09	INC-SB10	INC-SB10
												Sample ID	INC-SB08-010 06242015(0-.5)	INC-SB08-020 06242015(2-3)	INC-SB09-010 06252015(0-.5)	INC-SB09-020 06252015(2.5-3.5)	INC-SB10-010 06252015(0-.5)	INC-SB10-020 06252015(2.5-3.5)
												Sample Date	6/24/2015	6/24/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	0	2	0	2.5	0	2.5
												Bottom Depth (ft bags)	0.5	3	0.5	3.5	0.5	3.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	<0.00652 UJL	<0.00550 UJL	<0.00985 UJL	<0.00825 UJL	<0.00687 UJL	<0.00803 UJL
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 UJL	<0.00137 UJL	<0.00161 UJL
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	<0.00652 U	0.0106 J	<0.00985 U	0.00948 J	<0.00687 U	<0.00803 U
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U

												UNIT	INC-SB08-010 06242015(0-.5)	INC-SB08-020 06242015(2-3)	INC-SB09-010 06252015(0-.5)	INC-SB09-020 06252015(2.5-3.5)	INC-SB10-010 06252015(0-.5)	INC-SB10-020 06252015(2.5-3.5)
												Sample Location	INC-SB08	INC-SB08	INC-SB09	INC-SB09	INC-SB10	INC-SB10
												Sample ID	INC-SB08-010 06242015(0-.5)	INC-SB08-020 06242015(2-3)	INC-SB09-010 06252015(0-.5)	INC-SB09-020 06252015(2.5-3.5)	INC-SB10-010 06252015(0-.5)	INC-SB10-020 06252015(2.5-3.5)
												Sample Date	6/24/2015	6/24/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	0	2	0	2.5	0	2.5
												Bottom Depth (ft bags)	0.5	3	0.5	3.5	0.5	3.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	<0.00652 U	<0.00550 U	<0.00985 U	<0.00825 U	<0.00687 U	<0.00803 U
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	<0.00652 U	<0.00550 U	<0.00985 U	<0.00825 U	<0.00687 U	<0.00803 U
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	<0.0196 U	0.0368 J	<0.0296 U	0.273	0.0347 J	0.129
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	0.00211 J	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	<0.00652 U	<0.00550 U	<0.00985 U	<0.00825 U	<0.00687 U	<0.00803 U
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	<0.00652 UX7	<0.00550 UX7	<0.00985 UX7	<0.00825 UX7	<0.00687 UX7	<0.00803 UX7
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 UJL	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	<0.00652 U	<0.00550 U	<0.00985 U	<0.00825 U	<0.00687 U	<0.00803 U
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	<0.00652 U	<0.00550 U	<0.00985 U	<0.00825 U	<0.00687 U	<0.00803 U

												UNIT	INC-SB08-010 06242015(0-.5)	INC-SB08-020 06242015(2-3)	INC-SB09-010 06252015(0-.5)	INC-SB09-020 06252015(2.5-3.5)	INC-SB10-010 06252015(0-.5)	INC-SB10-020 06252015(2.5-3.5)
												Sample Location	INC-SB08	INC-SB08	INC-SB09	INC-SB09	INC-SB10	INC-SB10
												Sample ID	INC-SB08-010 06242015(0-.5)	INC-SB08-020 06242015(2-3)	INC-SB09-010 06252015(0-.5)	INC-SB09-020 06252015(2.5-3.5)	INC-SB10-010 06252015(0-.5)	INC-SB10-020 06252015(2.5-3.5)
												Sample Date	6/24/2015	6/24/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	0	2	0	2.5	0	2.5
												Bottom Depth (ft bags)	0.5	3	0.5	3.5	0.5	3.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	<0.00652 U	<0.00550 U	<0.00985 U	<0.00825 U	<0.00687 U	<0.00803 U
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.00652 UJL	<0.00550 UJL	<0.00985 U	<0.00825 U	<0.00687 U	<0.00803 U
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	<0.00130 UJL	<0.00110 UJL	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	0.00520 JH	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	<0.00652 U	<0.00550 U	0.0191 J	<0.00825 U	<0.00687 U	<0.00803 U
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	<0.00130 U	<0.00110 U	<0.00197 U	<0.00165 U	<0.00137 U	<0.00161 U
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	<0.0577 U	<0.117 U	<0.570 UJL	<0.309 UJL	<0.0514 UJL	<0.0623 UJL
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	0.167 J	0.461	<0.0103 U	0.135
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U

												UNIT	INC-SB08-010 06242015(0-.5)	INC-SB08-020 06242015(2-3)	INC-SB09-010 06252015(0-.5)	INC-SB09-020 06252015(2.5-3.5)	INC-SB10-010 06252015(0-.5)	INC-SB10-020 06252015(2.5-3.5)
												Sample Location	INC-SB08	INC-SB08	INC-SB09	INC-SB09	INC-SB10	INC-SB10
												Sample ID	INC-SB08-010 06242015(0-.5)	INC-SB08-020 06242015(2-3)	INC-SB09-010 06252015(0-.5)	INC-SB09-020 06252015(2.5-3.5)	INC-SB10-010 06252015(0-.5)	INC-SB10-020 06252015(2.5-3.5)
												Sample Date	6/24/2015	6/24/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	0	2	0	2.5	0	2.5
												Bottom Depth (ft bags)	0.5	3	0.5	3.5	0.5	3.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 UJ	<0.0618 UJ	<0.0103 UJ	<0.0125 UJ
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	<0.0346 U	<0.0702 U	<0.342 U	<0.185 U	<0.0308 U	<0.0374 U
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	<0.0346 U	<0.0702 U	<0.342 U	<0.185 U	<0.0308 U	<0.0374 U
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	<0.0231 U	<0.0468 U	<0.228 U	<0.124 U	<0.0205 U	<0.0249 U
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	<0.0577 U	<0.117 U	<0.570 U	<0.309 U	<0.0514 U	<0.0623 U
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	0.0200 J	<0.0234 U	<0.114 UJL	0.0823 JL	<0.0103 UJL	<0.0125 UJL
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	0.0723	0.0515 J	0.806	0.128 J	0.0233 J	0.177
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	0.08	0.0499 J	0.638 JL	<0.0618 R	0.0288 JL	0.0897 JL
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	<0.0192 U	<0.0195 U	<0.0190 U	<0.0206 U	<0.0171 U	<0.0208 U
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	<0.0192 U	<0.0195 U	<0.0190 U	<0.0206 U	<0.0171 U	<0.0208 U
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	<0.0192 U	<0.0195 U	<0.0190 U	<0.0206 U	<0.0171 U	<0.0208 U
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	<0.0192 U	<0.0195 U	<0.0190 U	<0.0206 U	<0.0171 U	<0.0208 U
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	<0.0192 U	<0.0195 U	<0.0190 U	<0.0206 U	<0.0171 U	<0.0208 U
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	0.11	0.0461	<0.0190 U	<0.0206 U	<0.0171 U	<0.0208 U
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	0.0855	0.0735	4.78	0.24	0.246	0.0547
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	<0.0115 UX7	<0.0234 UX7	<0.114 UX7	<0.0618 UX7	<0.0103 UX7	<0.0125 UX7
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.425	0.182	0.198 J	0.0659 J	0.0144 J	0.0532
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	0.476	0.193	0.312	0.144 J	0.0253 J	0.11
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.533	0.209	0.190 J	0.0659 J	0.0123 J	0.106
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	0.387 JL	0.173 JL	0.312 JL	0.0659 JL	0.0219 JL	0.149 JL
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	0.398	0.108	<0.114 U	<0.0618 U	<0.0103 U	0.0673
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	0.104 J	<0.117 U	1.07 J	<0.309 UJ	0.0774 J	0.111 J

												UNIT	INC-SB08-010 06242015(0-.5)	INC-SB08-020 06242015(2-3)	INC-SB09-010 06252015(0-.5)	INC-SB09-020 06252015(2.5-3.5)	INC-SB10-010 06252015(0-.5)	INC-SB10-020 06252015(2.5-3.5)
												Sample Location	INC-SB08	INC-SB08	INC-SB09	INC-SB09	INC-SB10	INC-SB10
												Sample ID	INC-SB08-010 06242015(0-.5)	INC-SB08-020 06242015(2-3)	INC-SB09-010 06252015(0-.5)	INC-SB09-020 06252015(2.5-3.5)	INC-SB10-010 06252015(0-.5)	INC-SB10-020 06252015(2.5-3.5)
												Sample Date	6/24/2015	6/24/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	0	2	0	2.5	0	2.5
												Bottom Depth (ft bags)	0.5	3	0.5	3.5	0.5	3.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	0.325	0.0998 J	0.448 J	0.292 J	0.0404 J	0.0681 J
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	0.0477 J	<0.0936 U	<0.456 U	<0.247 U	<0.0411 U	<0.0498 U
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	<0.0231 U	<0.0468 U	<0.228 U	<0.124 U	<0.0205 U	<0.0249 U
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	0.0462	0.0374 J	<0.114 UJL	<0.0618 UJL	<0.0103 UJL	<0.0125 UJL
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	0.425	0.178	0.144 J	<0.0618 U	<0.0103 U	0.0482
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	0.163	0.0561 J	<0.114 UJL	<0.0618 UJL	<0.0103 UJL	0.0449 JL
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 UJL	<0.0618 UJL	<0.0103 UJL	0.0233 JL
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	<0.0462 U	<0.0936 U	<0.456 U	<0.247 U	<0.0411 U	<0.0498 U
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	<0.0462 U	<0.0936 U	<0.456 U	<0.247 U	<0.0411 U	<0.0498 U
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	0.0477 J	<0.0936 U	0.471 J	<0.247 U	0.0411 J	<0.0498 U
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	0.0677 J	0.443	<0.456 U	<0.247 U	<0.0411 U	<0.0498 U
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.757	0.352	0.220 J	0.0782 J	0.0151 J	0.0233 J
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.0216 J	<0.0234 U	0.243 JL	0.0865 JL	<0.0103 UJL	<0.0125 UJL
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	0.464	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	<0.0346 U	<0.0702 U	<0.342 U	<0.185 U	<0.0308 U	<0.0374 U
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.351	0.114	0.152 JL	<0.0618 R	0.0103 JL	0.110 JL
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	<0.0346 U	<0.0702 U	<0.342 U	<0.185 U	<0.0308 U	<0.0374 U
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 UJL	<0.0618 UJL	<0.0103 UJL	0.0440 JL
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U

												UNIT	INC-SB08-010 06242015(0-.5)	INC-SB08-020 06242015(2-3)	INC-SB09-010 06252015(0-.5)	INC-SB09-020 06252015(2.5-3.5)	INC-SB10-010 06252015(0-.5)	INC-SB10-020 06252015(2.5-3.5)
												Sample Location	INC-SB08	INC-SB08	INC-SB09	INC-SB09	INC-SB10	INC-SB10
												Sample ID	INC-SB08-010 06242015(0-.5)	INC-SB08-020 06242015(2-3)	INC-SB09-010 06252015(0-.5)	INC-SB09-020 06252015(2.5-3.5)	INC-SB10-010 06252015(0-.5)	INC-SB10-020 06252015(2.5-3.5)
												Sample Date	6/24/2015	6/24/2015	6/25/2015	6/25/2015	6/25/2015	6/25/2015
												Top Depth (ft bags)	0	2	0	2.5	0	2.5
												Bottom Depth (ft bags)	0.5	3	0.5	3.5	0.5	3.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.326	0.229	0.190 J	0.0988 J	0.0116 J	0.113
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	<0.0115 U	<0.0234 U	<0.114 U	<0.0618 U	<0.0103 U	<0.0125 U
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.493 JL	0.313 JL	0.220 J	0.0741 J	0.0144 J	0.0449
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.00153	0.000883	0.00256	0.00231	0.000072	0.00103
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.00031	0.000824	0.00262	0.000443	0.000095	0.000148
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.0000180 J	0.000083	0.000073	0.0000370 J	0.00000400 J	0.0000110 J
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.0000310 J	0.0000310 J	0.0000410 J	0.0000490 J	0.00000200 JH	0.0000140 J
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.0000490 J	0.000266	0.0000450 U	0.000137	0.00000200 U	0.0000290 U
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.0000980 JH	0.000062	0.000114	0.000139	0.00000500 U	0.0000520 U
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.0000450 J	0.000268	0.0000490 J	0.000127	0.00000300 JH	0.0000290 J
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.000088	0.0000580 J	0.000104	0.000118	0.00000400 U	0.0000430 U
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	<0.00000100 U	0.000065	0.0000130 JH	0.0000400 J	0.00000200 JH	0.0000110 JH
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.0000360 J	0.0000310 J	<0.00000100 U	0.0000510 JH	0.00000200 JH	0.0000150 J
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.0000410 J	0.000127	0.0000230 J	0.000096	0.00000700 JH	0.0000220 J
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.0000550 J	0.000293	0.0000550 J	0.000207	0.00000400 J	0.0000330 J
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.000063	0.00025	0.0000270 J	0.000204	0.00000100 JH	0.0000360 J
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.0000110 J	0.00000800 JH	<0.00000100 U	0.000015	0.00000100 JH	0.00000800 JH
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	0.000131	0.000249	0.000114	0.000256	0.000008	0.000073
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.000071	0.0000720 JH	0.00002	0.000143	0.00000100 JH	0.000041
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	0.00604	0.00375	0.0143	0.0084	0.000367 U	0.00488
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	0.000206	0.0003	0.016	0.000522	0.000408	0.000193
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	1740	315	122	182
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	327	60.2	41.5	<11.5 U
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	<11.4 U	<11.6 U	<9.37 U	<11.5 U
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	2070	375	164	182

												UNIT	INC-SB11-010 06232015(0-.5)	INC-SB11-011 06232015(0-.5)	INC-SB11-020 06232015(.5-1.5)	INC-SB12-010 06232015(0-.5)	INC-SB12-020 06232015(1.5-2.5)	INC-SB13-010 06232015(0-.5)
												Sample Location	INC-SB11	INC-SB11	INC-SB11	INC-SB12	INC-SB12	INC-SB13
												Sample ID	INC-SB11-010 06232015(0-.5)	INC-SB11-011 06232015(0-.5)	INC-SB11-020 06232015(.5-1.5)	INC-SB12-010 06232015(0-.5)	INC-SB12-020 06232015(1.5-2.5)	INC-SB13-010 06232015(0-.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	0	0.5	0	1.5	0
												Bottom Depth (ft bags)	0.5	0.5	1.5	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	29.8	26.5	53.3	41.3	48.1	10.9 J
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	506	489	641	1790	994	544
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	6.82	8.17	12.4	8.54	22.2	2.12 J
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	42.9 JH	43.5 JH	96.3	142	95.2	31.4
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	**3240 J**	1270 J	**4800**	**4190**	**30400**	**511**
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	0.622	0.768	<1.63 U	<1.64 U	<1.98 U	<1.74 U
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	3.79	2.35	4.25	17.4	5.15	3.14
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.238	0.23	0.125	0.962	0.493	0.402
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB11-010 06232015(0-.5)	INC-SB11-011 06232015(0-.5)	INC-SB11-020 06232015(.5-1.5)	INC-SB12-010 06232015(0-.5)	INC-SB12-020 06232015(1.5-2.5)	INC-SB13-010 06232015(0-.5)
												Sample Location	INC-SB11	INC-SB11	INC-SB11	INC-SB12	INC-SB12	INC-SB13
												Sample ID	INC-SB11-010 06232015(0-.5)	INC-SB11-011 06232015(0-.5)	INC-SB11-020 06232015(.5-1.5)	INC-SB12-010 06232015(0-.5)	INC-SB12-020 06232015(1.5-2.5)	INC-SB13-010 06232015(0-.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	0	0.5	0	1.5	0
												Bottom Depth (ft bags)	0.5	0.5	1.5	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB11-010 06232015(0-.5)	INC-SB11-011 06232015(0-.5)	INC-SB11-020 06232015(.5-1.5)	INC-SB12-010 06232015(0-.5)	INC-SB12-020 06232015(1.5-2.5)	INC-SB13-010 06232015(0-.5)
												Sample Location	INC-SB11	INC-SB11	INC-SB11	INC-SB12	INC-SB12	INC-SB13
												Sample ID	INC-SB11-010 06232015(0-.5)	INC-SB11-011 06232015(0-.5)	INC-SB11-020 06232015(.5-1.5)	INC-SB12-010 06232015(0-.5)	INC-SB12-020 06232015(1.5-2.5)	INC-SB13-010 06232015(0-.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	0	0.5	0	1.5	0
												Bottom Depth (ft bags)	0.5	0.5	1.5	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB11-010 06232015(0-.5)	INC-SB11-011 06232015(0-.5)	INC-SB11-020 06232015(.5-1.5)	INC-SB12-010 06232015(0-.5)	INC-SB12-020 06232015(1.5-2.5)	INC-SB13-010 06232015(0-.5)
												Sample Location	INC-SB11	INC-SB11	INC-SB11	INC-SB12	INC-SB12	INC-SB13
												Sample ID	INC-SB11-010 06232015(0-.5)	INC-SB11-011 06232015(0-.5)	INC-SB11-020 06232015(.5-1.5)	INC-SB12-010 06232015(0-.5)	INC-SB12-020 06232015(1.5-2.5)	INC-SB13-010 06232015(0-.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	0	0.5	0	1.5	0
												Bottom Depth (ft bags)	0.5	0.5	1.5	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB11-010 06232015(0-.5)	INC-SB11-011 06232015(0-.5)	INC-SB11-020 06232015(.5-1.5)	INC-SB12-010 06232015(0-.5)	INC-SB12-020 06232015(1.5-2.5)	INC-SB13-010 06232015(0-.5)
												Sample Location	INC-SB11	INC-SB11	INC-SB11	INC-SB12	INC-SB12	INC-SB13
												Sample ID	INC-SB11-010 06232015(0-.5)	INC-SB11-011 06232015(0-.5)	INC-SB11-020 06232015(.5-1.5)	INC-SB12-010 06232015(0-.5)	INC-SB12-020 06232015(1.5-2.5)	INC-SB13-010 06232015(0-.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	0	0.5	0	1.5	0
												Bottom Depth (ft bags)	0.5	0.5	1.5	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	<0.0544 U	<0.0526 U	<0.0121 U	<0.0115 U	<0.0124 U	<0.0572 U
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	<0.0544 U	0.0655 J	0.0271	<0.0115 U	<0.0124 U	<0.0572 U
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	<0.0544 U	0.0762 JH	0.0257 JH	<0.0115 U	<0.0124 U	<0.0572 U
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.157 JH	0.253 JH	0.120 JH	0.0176 JH	0.0466 JH	0.634
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	0.198 JH	0.370 JH	0.134 JH	0.0135 JH	0.0458 JH	0.56
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.245 JH	0.372 JH	0.147 JH	0.0385 JH	0.102 JH	0.725
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	0.451 JH	0.512 JH	0.195 JH	0.0459 JH	0.100 JH	0.402 JL
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	0.0898 JH	<0.263 U	0.0667 JH	<0.0115 U	0.0293 JH	0.441
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB11-010 06232015(0-.5)	INC-SB11-011 06232015(0-.5)	INC-SB11-020 06232015(.5-1.5)	INC-SB12-010 06232015(0-.5)	INC-SB12-020 06232015(1.5-2.5)	INC-SB13-010 06232015(0-.5)
												Sample Location	INC-SB11	INC-SB11	INC-SB11	INC-SB12	INC-SB12	INC-SB13
												Sample ID	INC-SB11-010 06232015(0-.5)	INC-SB11-011 06232015(0-.5)	INC-SB11-020 06232015(.5-1.5)	INC-SB12-010 06232015(0-.5)	INC-SB12-020 06232015(1.5-2.5)	INC-SB13-010 06232015(0-.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	0	0.5	0	1.5	0
												Bottom Depth (ft bags)	0.5	0.5	1.5	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	0.252 JH	0.343 JH	0.146 JH	0.0707 JH	0.0909 JH	0.635
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	<0.0544 UJ	<0.263 UJ	0.0416 J	<0.0115 UJ	0.0147 J	<0.0572 U
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.296 JH	0.616 JH	0.202 JH	0.0298 JH	0.0708 JH	1.16 JL
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	<0.0544 U	<0.0526 U	<0.0121 U	<0.0115 U	<0.0124 U	<0.0572 U
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.175 JH	<0.263 U	0.145 JH	0.0145 JH	0.0531 JH	0.493
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.0544 UJ	<0.0526 UJ	<0.0121 UJ	0.0212 J	0.176 J	<0.0572 U
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB11-010 06232015(0-.5)	INC-SB11-011 06232015(0-.5)	INC-SB11-020 06232015(.5-1.5)	INC-SB12-010 06232015(0-.5)	INC-SB12-020 06232015(1.5-2.5)	INC-SB13-010 06232015(0-.5)
												Sample Location	INC-SB11	INC-SB11	INC-SB11	INC-SB12	INC-SB12	INC-SB13
												Sample ID	INC-SB11-010 06232015(0-.5)	INC-SB11-011 06232015(0-.5)	INC-SB11-020 06232015(.5-1.5)	INC-SB12-010 06232015(0-.5)	INC-SB12-020 06232015(1.5-2.5)	INC-SB13-010 06232015(0-.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	0	0.5	0	1.5	0
												Bottom Depth (ft bags)	0.5	0.5	1.5	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.127 JH	0.171 JH	0.0775 JH	0.0441 JH	0.0689 JH	0.447
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.281 JH	0.548 JH	0.266 JH	0.0340 JH	0.0749 JH	0.986
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB13-020 06232015(2-3)	INC-SB14-013 06242015(0-.5)	INC-SB14-020 06242015(3-4)	INC-SB15-010 06242015(0-.5)	INC-SB15-020 06242015(2-3)	INC-SB15-021 06242015(2-3)
												Sample Location	INC-SB13	INC-SB14	INC-SB14	INC-SB15	INC-SB15	INC-SB15
												Sample ID	INC-SB13-020 06232015(2-3)	INC-SB14-013 06242015(0-.5)	INC-SB14-020 06242015(3-4)	INC-SB15-010 06242015(0-.5)	INC-SB15-020 06242015(2-3)	INC-SB15-021 06242015(2-3)
												Sample Date	6/23/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015
												Top Depth (ft bags)	2	0	3	0	2	2
												Bottom Depth (ft bags)	3	0.5	4	0.5	3	3
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	**32.8**	<5.01 U	<5.94 U	<4.90 U	<6.84 U	<5.74 U
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	325	140	25.7	28	164 J	110 J
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	8.47	<1.00 U	<1.19 U	<0.981 U	<1.37 U	<1.15 U
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	61.6	17.6 J	7.47 J	8.66 J	11.1 J	11.7 J
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	**676**	149	16.3	18.3	27.1	37.9
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	<1.80 U	<1.50 U	<1.78 U	<1.47 U	<2.05 U	<1.72 U
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	5.8	<1.00 U	<1.19 U	<0.981 U	<1.37 U	<1.15 U
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.286	0.0676	0.0248 J	<0.0148 U	0.0329 J	0.0387 J
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB13-020 06232015(2-3)	INC-SB14-013 06242015(0-.5)	INC-SB14-020 06242015(3-4)	INC-SB15-010 06242015(0-.5)	INC-SB15-020 06242015(2-3)	INC-SB15-021 06242015(2-3)
												Sample Location	INC-SB13	INC-SB14	INC-SB14	INC-SB15	INC-SB15	INC-SB15
												Sample ID	INC-SB13-020 06232015(2-3)	INC-SB14-013 06242015(0-.5)	INC-SB14-020 06242015(3-4)	INC-SB15-010 06242015(0-.5)	INC-SB15-020 06242015(2-3)	INC-SB15-021 06242015(2-3)
												Sample Date	6/23/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015
												Top Depth (ft bags)	2	0	3	0	2	2
												Bottom Depth (ft bags)	3	0.5	4	0.5	3	3
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB13-020 06232015(2-3)	INC-SB14-013 06242015(0-.5)	INC-SB14-020 06242015(3-4)	INC-SB15-010 06242015(0-.5)	INC-SB15-020 06242015(2-3)	INC-SB15-021 06242015(2-3)
												Sample Location	INC-SB13	INC-SB14	INC-SB14	INC-SB15	INC-SB15	INC-SB15
												Sample ID	INC-SB13-020 06232015(2-3)	INC-SB14-013 06242015(0-.5)	INC-SB14-020 06242015(3-4)	INC-SB15-010 06242015(0-.5)	INC-SB15-020 06242015(2-3)	INC-SB15-021 06242015(2-3)
												Sample Date	6/23/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015
												Top Depth (ft bags)	2	0	3	0	2	2
												Bottom Depth (ft bags)	3	0.5	4	0.5	3	3
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB13-020 06232015(2-3)	INC-SB14-013 06242015(0-.5)	INC-SB14-020 06242015(3-4)	INC-SB15-010 06242015(0-.5)	INC-SB15-020 06242015(2-3)	INC-SB15-021 06242015(2-3)
												Sample Location	INC-SB13	INC-SB14	INC-SB14	INC-SB15	INC-SB15	INC-SB15
												Sample ID	INC-SB13-020 06232015(2-3)	INC-SB14-013 06242015(0-.5)	INC-SB14-020 06242015(3-4)	INC-SB15-010 06242015(0-.5)	INC-SB15-020 06242015(2-3)	INC-SB15-021 06242015(2-3)
												Sample Date	6/23/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015
												Top Depth (ft bags)	2	0	3	0	2	2
												Bottom Depth (ft bags)	3	0.5	4	0.5	3	3
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB13-020 06232015(2-3)	INC-SB14-013 06242015(0-.5)	INC-SB14-020 06242015(3-4)	INC-SB15-010 06242015(0-.5)	INC-SB15-020 06242015(2-3)	INC-SB15-021 06242015(2-3)
												Sample Location	INC-SB13	INC-SB14	INC-SB14	INC-SB15	INC-SB15	INC-SB15
												Sample ID	INC-SB13-020 06232015(2-3)	INC-SB14-013 06242015(0-.5)	INC-SB14-020 06242015(3-4)	INC-SB15-010 06242015(0-.5)	INC-SB15-020 06242015(2-3)	INC-SB15-021 06242015(2-3)
												Sample Date	6/23/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015
												Top Depth (ft bags)	2	0	3	0	2	2
												Bottom Depth (ft bags)	3	0.5	4	0.5	3	3
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.103 U	<0.0580 U	<0.105 U	<0.319 U	<0.113 U
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.103 U	<0.0580 U	<0.105 U	<0.319 U	<0.113 U
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.103 U	<0.0580 U	<0.105 U	<0.319 U	<0.113 U
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.0261	0.691	0.23	<0.105 U	<0.319 U	<0.113 U
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	0.0562	0.793	0.324	<0.105 U	<0.319 U	0.334
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.0694	1.03	0.323	<0.105 U	0.646	0.399
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	0.0535 JL	0.723 JL	0.217 JL	<0.105 UJL	<0.319 UJL	<0.113 UJL
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	0.0516	0.608	0.209	<0.105 U	0.473 J	0.269
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB13-020 06232015(2-3)	INC-SB14-013 06242015(0-.5)	INC-SB14-020 06242015(3-4)	INC-SB15-010 06242015(0-.5)	INC-SB15-020 06242015(2-3)	INC-SB15-021 06242015(2-3)
												Sample Location	INC-SB13	INC-SB14	INC-SB14	INC-SB15	INC-SB15	INC-SB15
												Sample ID	INC-SB13-020 06232015(2-3)	INC-SB14-013 06242015(0-.5)	INC-SB14-020 06242015(3-4)	INC-SB15-010 06242015(0-.5)	INC-SB15-020 06242015(2-3)	INC-SB15-021 06242015(2-3)
												Sample Date	6/23/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015
												Top Depth (ft bags)	2	0	3	0	2	2
												Bottom Depth (ft bags)	3	0.5	4	0.5	3	3
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	0.0488	0.746	0.247	<0.105 U	<0.319 U	0.33
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.103 U	<0.0580 U	<0.105 U	<0.319 U	<0.113 U
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.0640 JL	1.21 JL	0.641 JL	<0.105 UJL	0.787 JL	0.565 JL
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.103 U	<0.0580 U	<0.105 U	<0.319 U	<0.113 U
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.0551	0.794	0.257	<0.105 U	<0.319 U	0.297
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.0113 U	<0.103 U	<0.0580 U	<0.105 U	<0.319 U	<0.113 U
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB13-020 06232015(2-3)	INC-SB14-013 06242015(0-.5)	INC-SB14-020 06242015(3-4)	INC-SB15-010 06242015(0-.5)	INC-SB15-020 06242015(2-3)	INC-SB15-021 06242015(2-3)
												Sample Location	INC-SB13	INC-SB14	INC-SB14	INC-SB15	INC-SB15	INC-SB15
												Sample ID	INC-SB13-020 06232015(2-3)	INC-SB14-013 06242015(0-.5)	INC-SB14-020 06242015(3-4)	INC-SB15-010 06242015(0-.5)	INC-SB15-020 06242015(2-3)	INC-SB15-021 06242015(2-3)
												Sample Date	6/23/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015	6/24/2015
												Top Depth (ft bags)	2	0	3	0	2	2
												Bottom Depth (ft bags)	3	0.5	4	0.5	3	3
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.0233	0.469	0.313	<0.105 U	<0.319 U	0.252
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.0592	1.09	0.609	<0.105 U	0.67	0.477
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB16-010 06232015(0-.5)	INC-SB16-020 06232015(2-3)	INC-SB17-010 06232015(0-.5)	INC-SB17-020 06232015(2-3)	INC-SB18-010 06232015(0-.5)	INC-SB18-023 06232015(1.5-2.5)
												Sample Location	INC-SB16	INC-SB16	INC-SB17	INC-SB17	INC-SB18	INC-SB18
												Sample ID	INC-SB16-010 06232015(0-.5)	INC-SB16-020 06232015(2-3)	INC-SB17-010 06232015(0-.5)	INC-SB17-020 06232015(2-3)	INC-SB18-010 06232015(0-.5)	INC-SB18-023 06232015(1.5-2.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	2	0	2	0	1.5
												Bottom Depth (ft bags)	0.5	3	0.5	3	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	89.9	61.5	7.20 J	53	6.77	19.1
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	2360	974	739	418	569	1580
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	8.39	13.1	<1.06 U	<1.05 U	2.53	3
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	51.6	93.6	17.7 J	12.2 J	21.4 JH	176 JH
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	**3760**	**2020**	61.6	189	401	**3830**
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	<1.70 U	<1.69 U	<1.59 U	<1.57 U	0.562 J	0.513 J
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	3.86	1.29 J	<1.06 U	<1.05 U	0.628	2.52
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.16	0.177	0.0587	0.531	0.217	0.462
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB16-010 06232015(0-.5)	INC-SB16-020 06232015(2-3)	INC-SB17-010 06232015(0-.5)	INC-SB17-020 06232015(2-3)	INC-SB18-010 06232015(0-.5)	INC-SB18-023 06232015(1.5-2.5)
												Sample Location	INC-SB16	INC-SB16	INC-SB17	INC-SB17	INC-SB18	INC-SB18
												Sample ID	INC-SB16-010 06232015(0-.5)	INC-SB16-020 06232015(2-3)	INC-SB17-010 06232015(0-.5)	INC-SB17-020 06232015(2-3)	INC-SB18-010 06232015(0-.5)	INC-SB18-023 06232015(1.5-2.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	2	0	2	0	1.5
												Bottom Depth (ft bags)	0.5	3	0.5	3	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB16-010 06232015(0-.5)	INC-SB16-020 06232015(2-3)	INC-SB17-010 06232015(0-.5)	INC-SB17-020 06232015(2-3)	INC-SB18-010 06232015(0-.5)	INC-SB18-023 06232015(1.5-2.5)
												Sample Location	INC-SB16	INC-SB16	INC-SB17	INC-SB17	INC-SB18	INC-SB18
												Sample ID	INC-SB16-010 06232015(0-.5)	INC-SB16-020 06232015(2-3)	INC-SB17-010 06232015(0-.5)	INC-SB17-020 06232015(2-3)	INC-SB18-010 06232015(0-.5)	INC-SB18-023 06232015(1.5-2.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	2	0	2	0	1.5
												Bottom Depth (ft bags)	0.5	3	0.5	3	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB16-010 06232015(0-.5)	INC-SB16-020 06232015(2-3)	INC-SB17-010 06232015(0-.5)	INC-SB17-020 06232015(2-3)	INC-SB18-010 06232015(0-.5)	INC-SB18-023 06232015(1.5-2.5)
												Sample Location	INC-SB16	INC-SB16	INC-SB17	INC-SB17	INC-SB18	INC-SB18
												Sample ID	INC-SB16-010 06232015(0-.5)	INC-SB16-020 06232015(2-3)	INC-SB17-010 06232015(0-.5)	INC-SB17-020 06232015(2-3)	INC-SB18-010 06232015(0-.5)	INC-SB18-023 06232015(1.5-2.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	2	0	2	0	1.5
												Bottom Depth (ft bags)	0.5	3	0.5	3	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB16-010 06232015(0-.5)	INC-SB16-020 06232015(2-3)	INC-SB17-010 06232015(0-.5)	INC-SB17-020 06232015(2-3)	INC-SB18-010 06232015(0-.5)	INC-SB18-023 06232015(1.5-2.5)
												Sample Location	INC-SB16	INC-SB16	INC-SB17	INC-SB17	INC-SB18	INC-SB18
												Sample ID	INC-SB16-010 06232015(0-.5)	INC-SB16-020 06232015(2-3)	INC-SB17-010 06232015(0-.5)	INC-SB17-020 06232015(2-3)	INC-SB18-010 06232015(0-.5)	INC-SB18-023 06232015(1.5-2.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	2	0	2	0	1.5
												Bottom Depth (ft bags)	0.5	3	0.5	3	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	0.129 J	<0.0281 U	<0.0250 U	1.57	0.0906 J	0.307
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	<0.120 U	<0.0281 U	0.0935	1.27	0.253	0.42
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	4.61 JH	0.0356 JH	0.118 JH	3.87 JH	0.417 JH	0.995 JH
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	59.7 JH	0.127 JH	0.419 JH	14.2 JH	1.85 JH	3.58 JH
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	**52.6 JH**	0.145 JH	0.460 JH	13.3 JH	2.47 JH	3.16 JH
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	49.3 JH	0.142 JH	0.478 JH	14.0 JH	3.36 JH	3.08 JH
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	26.5 JH	0.139 JH	0.417 JH	12.4 JH	2.55 JH	2.03 JH
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	22.8 JH	0.0575 JH	0.226 JH	6.67 JH	1.47 JH	1.55 JH
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB16-010 06232015(0-.5)	INC-SB16-020 06232015(2-3)	INC-SB17-010 06232015(0-.5)	INC-SB17-020 06232015(2-3)	INC-SB18-010 06232015(0-.5)	INC-SB18-023 06232015(1.5-2.5)
												Sample Location	INC-SB16	INC-SB16	INC-SB17	INC-SB17	INC-SB18	INC-SB18
												Sample ID	INC-SB16-010 06232015(0-.5)	INC-SB16-020 06232015(2-3)	INC-SB17-010 06232015(0-.5)	INC-SB17-020 06232015(2-3)	INC-SB18-010 06232015(0-.5)	INC-SB18-023 06232015(1.5-2.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	2	0	2	0	1.5
												Bottom Depth (ft bags)	0.5	3	0.5	3	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	59.6 JH	0.149 JH	0.467 JH	15.4 JH	2.27 JH	3.57 JH
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	5.87 J	0.0283 J	0.0882 J	3.06 J	0.462 J	0.540 J
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	101 JH	0.200 JH	0.810 JH	31.4 JH	4.03 JH	6.18 JH
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	<0.120 U	<0.0281 U	0.0299 JH	1.26 JH	0.0974 JH	0.451 JH
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	25.3 JH	0.0941 JH	0.318 JH	10.3 JH	1.97 JH	1.81 JH
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.120 UJ	<0.0281 UJ	<0.0250 UJ	0.837 J	0.0670 J	0.156 J
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB16-010 06232015(0-.5)	INC-SB16-020 06232015(2-3)	INC-SB17-010 06232015(0-.5)	INC-SB17-020 06232015(2-3)	INC-SB18-010 06232015(0-.5)	INC-SB18-023 06232015(1.5-2.5)
												Sample Location	INC-SB16	INC-SB16	INC-SB17	INC-SB17	INC-SB18	INC-SB18
												Sample ID	INC-SB16-010 06232015(0-.5)	INC-SB16-020 06232015(2-3)	INC-SB17-010 06232015(0-.5)	INC-SB17-020 06232015(2-3)	INC-SB18-010 06232015(0-.5)	INC-SB18-023 06232015(1.5-2.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	2	0	2	0	1.5
												Bottom Depth (ft bags)	0.5	3	0.5	3	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	19.5 JH	0.104 JH	0.288 JH	21.0 JH	1.57 JH	4.89 JH
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	73.2 JH	0.175 JH	0.686 JH	33.0 JH	2.99 JH	4.87 JH
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB19-010 06232015(0-.5)	INC-SB19-020 06232015(1.5-2.5)	INC-SB20-010 06232015(0-.5)	INC-SB20-011 06232015(0-.5)	INC-SB20-020 06232015(1.5-2.5)	INC-SB22-010 06232015(0-.5)
												Sample Location	INC-SB19	INC-SB19	INC-SB20	INC-SB20	INC-SB20	INC-SB22
												Sample ID	INC-SB19-010 06232015(0-.5)	INC-SB19-020 06232015(1.5-2.5)	INC-SB20-010 06232015(0-.5)	INC-SB20-011 06232015(0-.5)	INC-SB20-020 06232015(1.5-2.5)	INC-SB22-010 06232015(0-.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	1.5	0	0	1.5	0
												Bottom Depth (ft bags)	0.5	2.5	0.5	0.5	2.5	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	17.2	18.2	2.61	2.95	5.13	3.94
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	385	289	58.9	56.5	120	109
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	3.32	2.83	0.203 J	0.200 J	1.42	0.673
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	43.3 JH	29.0 JH	6.77 JH	6.45 JH	10.2 JH	7.52 JH
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	**686**	**987**	41.6	46.6	256	190
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	0.331 J	0.455 J	0.426 J	0.361 J	0.397 J	0.348 J
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	0.984	1.23	0.481	<0.102 U	1.11	<0.0945 U
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.208	0.447	0.0371 J	0.0272 J	0.137	0.232
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB19-010 06232015(0-.5)	INC-SB19-020 06232015(1.5-2.5)	INC-SB20-010 06232015(0-.5)	INC-SB20-011 06232015(0-.5)	INC-SB20-020 06232015(1.5-2.5)	INC-SB22-010 06232015(0-.5)
												Sample Location	INC-SB19	INC-SB19	INC-SB20	INC-SB20	INC-SB20	INC-SB22
												Sample ID	INC-SB19-010 06232015(0-.5)	INC-SB19-020 06232015(1.5-2.5)	INC-SB20-010 06232015(0-.5)	INC-SB20-011 06232015(0-.5)	INC-SB20-020 06232015(1.5-2.5)	INC-SB22-010 06232015(0-.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	1.5	0	0	1.5	0
												Bottom Depth (ft bags)	0.5	2.5	0.5	0.5	2.5	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB19-010 06232015(0-.5)	INC-SB19-020 06232015(1.5-2.5)	INC-SB20-010 06232015(0-.5)	INC-SB20-011 06232015(0-.5)	INC-SB20-020 06232015(1.5-2.5)	INC-SB22-010 06232015(0-.5)
												Sample Location	INC-SB19	INC-SB19	INC-SB20	INC-SB20	INC-SB20	INC-SB22
												Sample ID	INC-SB19-010 06232015(0-.5)	INC-SB19-020 06232015(1.5-2.5)	INC-SB20-010 06232015(0-.5)	INC-SB20-011 06232015(0-.5)	INC-SB20-020 06232015(1.5-2.5)	INC-SB22-010 06232015(0-.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	1.5	0	0	1.5	0
												Bottom Depth (ft bags)	0.5	2.5	0.5	0.5	2.5	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB19-010 06232015(0-.5)	INC-SB19-020 06232015(1.5-2.5)	INC-SB20-010 06232015(0-.5)	INC-SB20-011 06232015(0-.5)	INC-SB20-020 06232015(1.5-2.5)	INC-SB22-010 06232015(0-.5)
												Sample Location	INC-SB19	INC-SB19	INC-SB20	INC-SB20	INC-SB20	INC-SB22
												Sample ID	INC-SB19-010 06232015(0-.5)	INC-SB19-020 06232015(1.5-2.5)	INC-SB20-010 06232015(0-.5)	INC-SB20-011 06232015(0-.5)	INC-SB20-020 06232015(1.5-2.5)	INC-SB22-010 06232015(0-.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	1.5	0	0	1.5	0
												Bottom Depth (ft bags)	0.5	2.5	0.5	0.5	2.5	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB19-010 06232015(0-.5)	INC-SB19-020 06232015(1.5-2.5)	INC-SB20-010 06232015(0-.5)	INC-SB20-011 06232015(0-.5)	INC-SB20-020 06232015(1.5-2.5)	INC-SB22-010 06232015(0-.5)
												Sample Location	INC-SB19	INC-SB19	INC-SB20	INC-SB20	INC-SB20	INC-SB22
												Sample ID	INC-SB19-010 06232015(0-.5)	INC-SB19-020 06232015(1.5-2.5)	INC-SB20-010 06232015(0-.5)	INC-SB20-011 06232015(0-.5)	INC-SB20-020 06232015(1.5-2.5)	INC-SB22-010 06232015(0-.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	1.5	0	0	1.5	0
												Bottom Depth (ft bags)	0.5	2.5	0.5	0.5	2.5	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	0.0932 J	0.00812 J	0.0764	<0.0108 U	<0.0300 U	0.636
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	0.111	0.00722 J	0.0401	0.0319	<0.0300 U	0.392
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	0.328 JH	0.0162 JH	0.191 JH	0.0356 JH	0.0426 JH	2.00 JH
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	1.57 JH	0.105 JH	0.595 JH	0.124 JH	0.146 JH	5.73 JH
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	1.51 JH	0.101 JH	0.547 JH	0.140 JH	0.151 JH	**4.79 JH**
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	1.68 JH	0.114 JH	0.574 JH	0.153 JH	0.161 JH	4.86 JH
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	1.14 JH	0.0795 JH	0.331 JH	0.172 JH	0.143 JH	2.76 JH
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	0.781 JH	0.0516 JH	0.277 JH	0.0670 JH	0.0758 JH	2.35 JH
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB19-010 06232015(0-.5)	INC-SB19-020 06232015(1.5-2.5)	INC-SB20-010 06232015(0-.5)	INC-SB20-011 06232015(0-.5)	INC-SB20-020 06232015(1.5-2.5)	INC-SB22-010 06232015(0-.5)
												Sample Location	INC-SB19	INC-SB19	INC-SB20	INC-SB20	INC-SB20	INC-SB22
												Sample ID	INC-SB19-010 06232015(0-.5)	INC-SB19-020 06232015(1.5-2.5)	INC-SB20-010 06232015(0-.5)	INC-SB20-011 06232015(0-.5)	INC-SB20-020 06232015(1.5-2.5)	INC-SB22-010 06232015(0-.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	1.5	0	0	1.5	0
												Bottom Depth (ft bags)	0.5	2.5	0.5	0.5	2.5	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	1.74 JH	0.124 JH	0.678 JH	0.156 JH	0.168 JH	5.60 JH
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	0.287 J	0.0198 J	0.0931 J	0.0288 J	<0.0300 UJ	0.930 J
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	2.29 JH	0.184 JH	1.65 JH	0.200 JH	0.288 JH	13.3 JH
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.110 JH	0.0138 JH	0.0408 JH	<0.0108 U	<0.0300 U	0.897 JH
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.991 JH	0.0666 JH	0.345 JH	0.0980 JH	0.0954 JH	3.22 JH
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.0542 UJ	0.0108 J	0.151 J	0.0285 J	<0.0300 UJ	0.193 J
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB19-010 06232015(0-.5)	INC-SB19-020 06232015(1.5-2.5)	INC-SB20-010 06232015(0-.5)	INC-SB20-011 06232015(0-.5)	INC-SB20-020 06232015(1.5-2.5)	INC-SB22-010 06232015(0-.5)
												Sample Location	INC-SB19	INC-SB19	INC-SB20	INC-SB20	INC-SB20	INC-SB22
												Sample ID	INC-SB19-010 06232015(0-.5)	INC-SB19-020 06232015(1.5-2.5)	INC-SB20-010 06232015(0-.5)	INC-SB20-011 06232015(0-.5)	INC-SB20-020 06232015(1.5-2.5)	INC-SB22-010 06232015(0-.5)
												Sample Date	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015	6/23/2015
												Top Depth (ft bags)	0	1.5	0	0	1.5	0
												Bottom Depth (ft bags)	0.5	2.5	0.5	0.5	2.5	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	1.92 JH	0.0891 JH	1.51 JH	0.148 JH	0.129 JH	8.86 JH
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	1.83 JH	0.150 JH	1.33 JH	0.184 JH	0.177 JH	8.31 JH
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB22-020 06232015(2.5-3.5)	INC-SB24-010 06252015(0-.5)	INC-SB24-020 06252015(3-4)	INC-SB27-010 06232015(0-.5)	INC-SB27-020 06232015(2-3)	INC-SB28-013 08252015(0-.5)
												Sample Location	INC-SB22	INC-SB24	INC-SB24	INC-SB27	INC-SB27	INC-SB28
												Sample ID	INC-SB22-020 06232015(2.5-3.5)	INC-SB24-010 06252015(0-.5)	INC-SB24-020 06252015(3-4)	INC-SB27-010 06232015(0-.5)	INC-SB27-020 06232015(2-3)	INC-SB28-013 08252015(0-.5)
												Sample Date	6/23/2015	6/25/2015	6/25/2015	6/23/2015	6/23/2015	8/25/2015
												Top Depth (ft bags)	2.5	0	3	0	2	0
												Bottom Depth (ft bags)	3.5	0.5	4	0.5	3	0.5
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	9.34	23.8 J	65.0 J	<5.00 U	38.6	2.49
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	172	777	809	63.7	1070	374
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	1.38	7.26	19.9	<1.00 U	5.7	0.140 J
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	15.9 JH	67.2	105	10.8 J	49.8	11.8
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	439	1450	**6970**	41.9	1360	233
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	0.409 J	0.602	1.15	<1.50 U	<1.93 U	0.677
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	0.489	3.54	3.17	<1.00 U	1.76 J	<0.117 U
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.0951	0.497	0.91	0.0533	0.0667	0.0201 J
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB22-020 06232015(2.5-3.5)	INC-SB24-010 06252015(0-.5)	INC-SB24-020 06252015(3-4)	INC-SB27-010 06232015(0-.5)	INC-SB27-020 06232015(2-3)	INC-SB28-013 08252015(0-.5)
												Sample Location	INC-SB22	INC-SB24	INC-SB24	INC-SB27	INC-SB27	INC-SB28
												Sample ID	INC-SB22-020 06232015(2.5-3.5)	INC-SB24-010 06252015(0-.5)	INC-SB24-020 06252015(3-4)	INC-SB27-010 06232015(0-.5)	INC-SB27-020 06232015(2-3)	INC-SB28-013 08252015(0-.5)
												Sample Date	6/23/2015	6/25/2015	6/25/2015	6/23/2015	6/23/2015	8/25/2015
												Top Depth (ft bags)	2.5	0	3	0	2	0
												Bottom Depth (ft bags)	3.5	0.5	4	0.5	3	0.5
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB22-020 06232015(2.5-3.5)	INC-SB24-010 06252015(0-.5)	INC-SB24-020 06252015(3-4)	INC-SB27-010 06232015(0-.5)	INC-SB27-020 06232015(2-3)	INC-SB28-013 08252015(0-.5)
												Sample Location	INC-SB22	INC-SB24	INC-SB24	INC-SB27	INC-SB27	INC-SB28
												Sample ID	INC-SB22-020 06232015(2.5-3.5)	INC-SB24-010 06252015(0-.5)	INC-SB24-020 06252015(3-4)	INC-SB27-010 06232015(0-.5)	INC-SB27-020 06232015(2-3)	INC-SB28-013 08252015(0-.5)
												Sample Date	6/23/2015	6/25/2015	6/25/2015	6/23/2015	6/23/2015	8/25/2015
												Top Depth (ft bags)	2.5	0	3	0	2	0
												Bottom Depth (ft bags)	3.5	0.5	4	0.5	3	0.5
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB22-020 06232015(2.5-3.5)	INC-SB24-010 06252015(0-.5)	INC-SB24-020 06252015(3-4)	INC-SB27-010 06232015(0-.5)	INC-SB27-020 06232015(2-3)	INC-SB28-013 08252015(0-.5)
												Sample Location	INC-SB22	INC-SB24	INC-SB24	INC-SB27	INC-SB27	INC-SB28
												Sample ID	INC-SB22-020 06232015(2.5-3.5)	INC-SB24-010 06252015(0-.5)	INC-SB24-020 06252015(3-4)	INC-SB27-010 06232015(0-.5)	INC-SB27-020 06232015(2-3)	INC-SB28-013 08252015(0-.5)
												Sample Date	6/23/2015	6/25/2015	6/25/2015	6/23/2015	6/23/2015	8/25/2015
												Top Depth (ft bags)	2.5	0	3	0	2	0
												Bottom Depth (ft bags)	3.5	0.5	4	0.5	3	0.5
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB22-020 06232015(2.5-3.5)	INC-SB24-010 06252015(0-.5)	INC-SB24-020 06252015(3-4)	INC-SB27-010 06232015(0-.5)	INC-SB27-020 06232015(2-3)	INC-SB28-013 08252015(0-.5)
												Sample Location	INC-SB22	INC-SB24	INC-SB24	INC-SB27	INC-SB27	INC-SB28
												Sample ID	INC-SB22-020 06232015(2.5-3.5)	INC-SB24-010 06252015(0-.5)	INC-SB24-020 06252015(3-4)	INC-SB27-010 06232015(0-.5)	INC-SB27-020 06232015(2-3)	INC-SB28-013 08252015(0-.5)
												Sample Date	6/23/2015	6/25/2015	6/25/2015	6/23/2015	6/23/2015	8/25/2015
												Top Depth (ft bags)	2.5	0	3	0	2	0
												Bottom Depth (ft bags)	3.5	0.5	4	0.5	3	0.5
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	0.147	<0.0285 U	<0.0313 U	<0.0240 U	<0.0322 U	<0.00640 U
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	0.0611	<0.0285 U	<0.0313 U	<0.0240 U	0.0404 J	0.0101 J
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	0.459 JH	0.0877	0.0749	0.0241 JH	0.155 JH	0.0279
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	1.05 JH	0.474	0.369	0.0842 JH	0.445 JH	0.111
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	0.861 JH	0.568	0.427	0.0913 JH	0.524 JH	0.11
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.872 JH	0.63	0.54	0.0963 JH	0.597 JH	0.119
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	0.521 JH	0.557 JL	0.510 JL	0.0815 JH	0.432 JH	0.0869
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	0.428 JH	0.397	0.343	0.0450 JH	0.271 JH	0.0528
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB22-020 06232015(2.5-3.5)	INC-SB24-010 06252015(0-.5)	INC-SB24-020 06252015(3-4)	INC-SB27-010 06232015(0-.5)	INC-SB27-020 06232015(2-3)	INC-SB28-013 08252015(0-.5)
												Sample Location	INC-SB22	INC-SB24	INC-SB24	INC-SB27	INC-SB27	INC-SB28
												Sample ID	INC-SB22-020 06232015(2.5-3.5)	INC-SB24-010 06252015(0-.5)	INC-SB24-020 06252015(3-4)	INC-SB27-010 06232015(0-.5)	INC-SB27-020 06232015(2-3)	INC-SB28-013 08252015(0-.5)
												Sample Date	6/23/2015	6/25/2015	6/25/2015	6/23/2015	6/23/2015	8/25/2015
												Top Depth (ft bags)	2.5	0	3	0	2	0
												Bottom Depth (ft bags)	3.5	0.5	4	0.5	3	0.5
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	1.02 JH	0.44	0.348	0.0980 JH	0.593 JH	0.128
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	0.139 J	0.107	0.0951	0.0263 J	0.101 J	0.0201
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	2.95 JH	0.682 JL	0.547 JL	0.174 JH	0.877 JH	0.232
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.263 JH	<0.0285 U	<0.0313 U	<0.0240 U	<0.0322 U	0.00783 J
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.470 JH	0.551	0.486	0.0882 JH	0.359 JH	0.0694
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	0.0261 J	<0.0285 U	<0.0313 U	<0.0240 UJ	0.0389 J	<0.00640 U
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB22-020 06232015(2.5-3.5)	INC-SB24-010 06252015(0-.5)	INC-SB24-020 06252015(3-4)	INC-SB27-010 06232015(0-.5)	INC-SB27-020 06232015(2-3)	INC-SB28-013 08252015(0-.5)
												Sample Location	INC-SB22	INC-SB24	INC-SB24	INC-SB27	INC-SB27	INC-SB28
												Sample ID	INC-SB22-020 06232015(2.5-3.5)	INC-SB24-010 06252015(0-.5)	INC-SB24-020 06252015(3-4)	INC-SB27-010 06232015(0-.5)	INC-SB27-020 06232015(2-3)	INC-SB28-013 08252015(0-.5)
												Sample Date	6/23/2015	6/25/2015	6/25/2015	6/23/2015	6/23/2015	8/25/2015
												Top Depth (ft bags)	2.5	0	3	0	2	0
												Bottom Depth (ft bags)	3.5	0.5	4	0.5	3	0.5
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	2.01 JH	0.35	0.235	0.0930 JH	0.533 JH	0.1
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	2.07 JH	0.65	0.463	0.149 JH	0.686 JH	0.186
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	0.000426	0.00218	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	0.000096	0.000203	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	0.00000600 JH	0.0000130 J	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	0.00000700 J	0.000091	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	0.0000110 U	0.0000430 U	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	0.0000270 U	0.000253	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	0.0000120 J	0.0000320 J	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	0.0000200 U	0.000304	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	<0.00 U	<0.00000100 U	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	0.00000900 J	0.000143	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	0.00000900 J	0.0000220 JH	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	0.0000160 J	0.0000390 J	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	0.0000180 J	<0.00000100 U	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	0.00000200 J	0.000028	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	0.000033	0.000276	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	0.000014	0.000028	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	0.0023	0.00638	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	0.0000970 J	0.000201	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB29-010 08252015(0-.5)	INC-SB30-010 08252015(0-.5)	INC-SB31-010 08252015(0-.5)	INC-SB31-011 08252015(0-.5)	INC-SB32-010 08252015(0-.5)	INC-SB33-010 08252015(0-.5)
												Sample Location	INC-SB29	INC-SB30	INC-SB31	INC-SB31	INC-SB32	INC-SB33
												Sample ID	INC-SB29-010 08252015(0-.5)	INC-SB30-010 08252015(0-.5)	INC-SB31-010 08252015(0-.5)	INC-SB31-011 08252015(0-.5)	INC-SB32-010 08252015(0-.5)	INC-SB33-010 08252015(0-.5)
												Sample Date	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	25.1	20	6.19 J	4.82 J	7.67	23.1
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	584	1170	975	717	417	335
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	5.95	3.15	3.35	2.15	3.27	0.264 J
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	33.2	49.7	43.5	29.9	46.7	53.2
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	893	818	718	449	658	387
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	1.03	1.4	0.893	0.535 J	0.533 J	0.290 J
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	0.909	2.89	2.85 J	1.51 J	0.929	<0.118 U
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.0878	1.03	2.25	1.94	0.304	0.232
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB29-010 08252015(0-.5)	INC-SB30-010 08252015(0-.5)	INC-SB31-010 08252015(0-.5)	INC-SB31-011 08252015(0-.5)	INC-SB32-010 08252015(0-.5)	INC-SB33-010 08252015(0-.5)
												Sample Location	INC-SB29	INC-SB30	INC-SB31	INC-SB31	INC-SB32	INC-SB33
												Sample ID	INC-SB29-010 08252015(0-.5)	INC-SB30-010 08252015(0-.5)	INC-SB31-010 08252015(0-.5)	INC-SB31-011 08252015(0-.5)	INC-SB32-010 08252015(0-.5)	INC-SB33-010 08252015(0-.5)
												Sample Date	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB29-010 08252015(0-.5)	INC-SB30-010 08252015(0-.5)	INC-SB31-010 08252015(0-.5)	INC-SB31-011 08252015(0-.5)	INC-SB32-010 08252015(0-.5)	INC-SB33-010 08252015(0-.5)
												Sample Location	INC-SB29	INC-SB30	INC-SB31	INC-SB31	INC-SB32	INC-SB33
												Sample ID	INC-SB29-010 08252015(0-.5)	INC-SB30-010 08252015(0-.5)	INC-SB31-010 08252015(0-.5)	INC-SB31-011 08252015(0-.5)	INC-SB32-010 08252015(0-.5)	INC-SB33-010 08252015(0-.5)
												Sample Date	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB29-010 08252015(0-.5)	INC-SB30-010 08252015(0-.5)	INC-SB31-010 08252015(0-.5)	INC-SB31-011 08252015(0-.5)	INC-SB32-010 08252015(0-.5)	INC-SB33-010 08252015(0-.5)
												Sample Location	INC-SB29	INC-SB30	INC-SB31	INC-SB31	INC-SB32	INC-SB33
												Sample ID	INC-SB29-010 08252015(0-.5)	INC-SB30-010 08252015(0-.5)	INC-SB31-010 08252015(0-.5)	INC-SB31-011 08252015(0-.5)	INC-SB32-010 08252015(0-.5)	INC-SB33-010 08252015(0-.5)
												Sample Date	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB29-010 08252015(0-.5)	INC-SB30-010 08252015(0-.5)	INC-SB31-010 08252015(0-.5)	INC-SB31-011 08252015(0-.5)	INC-SB32-010 08252015(0-.5)	INC-SB33-010 08252015(0-.5)
												Sample Location	INC-SB29	INC-SB30	INC-SB31	INC-SB31	INC-SB32	INC-SB33
												Sample ID	INC-SB29-010 08252015(0-.5)	INC-SB30-010 08252015(0-.5)	INC-SB31-010 08252015(0-.5)	INC-SB31-011 08252015(0-.5)	INC-SB32-010 08252015(0-.5)	INC-SB33-010 08252015(0-.5)
												Sample Date	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	0.26	0.135 J	<0.0363 U	<0.0384 U	<0.0617 U	0.00654 J
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	0.0664	0.334	0.118	0.14	0.131	0.0226
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	1.21	0.556	0.142	0.16	0.203	0.0342
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	4.24	2.22	0.406	0.364	0.582	0.12
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	3.33	2.59	0.474	0.444	0.619	0.147
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	3.47	2.92	0.493	0.49	0.65	0.174
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	2.18	2.32	0.414	0.417	0.566	0.126
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	1.66	1.32	0.233 J	0.221 J	0.304	0.0776
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB29-010 08252015(0-.5)	INC-SB30-010 08252015(0-.5)	INC-SB31-010 08252015(0-.5)	INC-SB31-011 08252015(0-.5)	INC-SB32-010 08252015(0-.5)	INC-SB33-010 08252015(0-.5)
												Sample Location	INC-SB29	INC-SB30	INC-SB31	INC-SB31	INC-SB32	INC-SB33
												Sample ID	INC-SB29-010 08252015(0-.5)	INC-SB30-010 08252015(0-.5)	INC-SB31-010 08252015(0-.5)	INC-SB31-011 08252015(0-.5)	INC-SB32-010 08252015(0-.5)	INC-SB33-010 08252015(0-.5)
												Sample Date	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	4.14	2.74	0.482	0.452	0.642	0.164
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	0.593	0.495	0.0938	0.0904	0.124	0.0284
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	9.39	4.88	0.871	0.734	1.16	0.286
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.262	0.142 J	0.0379 J	<0.0384 U	<0.0617 U	0.00727 J
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	1.95	1.92	0.313 J	0.306 J	0.413	0.105
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.0328 U	<0.0728 U	<0.0363 U	<0.0384 U	<0.0617 U	<0.00646 U
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB29-010 08252015(0-.5)	INC-SB30-010 08252015(0-.5)	INC-SB31-010 08252015(0-.5)	INC-SB31-011 08252015(0-.5)	INC-SB32-010 08252015(0-.5)	INC-SB33-010 08252015(0-.5)
												Sample Location	INC-SB29	INC-SB30	INC-SB31	INC-SB31	INC-SB32	INC-SB33
												Sample ID	INC-SB29-010 08252015(0-.5)	INC-SB30-010 08252015(0-.5)	INC-SB31-010 08252015(0-.5)	INC-SB31-011 08252015(0-.5)	INC-SB32-010 08252015(0-.5)	INC-SB33-010 08252015(0-.5)
												Sample Date	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	4.39	1.89	0.362 J	0.256 J	0.49	0.109
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	7.22	4.09	0.753	0.657	1.02	0.233
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB34-010 08252015(0-.5)	INC-SB35-010 08252015(0-.5)	INC-SB37-010 08252015(0-.5)	INC-SB37-011 08252015(0-.5)	INC-SB38-010 08252015(0-.5)	INC-SB39-010 08252015(0-.5)
												Sample Location	INC-SB34	INC-SB35	INC-SB37	INC-SB37	INC-SB38	INC-SB39
												Sample ID	INC-SB34-010 08252015(0-.5)	INC-SB35-010 08252015(0-.5)	INC-SB37-010 08252015(0-.5)	INC-SB37-011 08252015(0-.5)	INC-SB38-010 08252015(0-.5)	INC-SB39-010 08252015(0-.5)
												Sample Date	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Res	Res	Res	Res	Res	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	6.19	4.61	8.63	9.8	3.81	2.9
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	70.2	165	324	289	344	394
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	0.116 J	0.365	1.73 J	1.68 J	0.235 J	0.361
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	6.33	8.89	22.9	22.4	12.6	14.9
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	28.9	67.9	**1020**	**681**	119	112
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	0.404 J	0.298 J	0.692 J	0.681 J	0.605	0.368 J
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	<0.113 U	0.161 J	0.908 J	1.81 J	<0.111 U	0.193 J
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.0168 J	0.0805	0.274 J	0.236 J	0.0292 J	0.0489
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB34-010 08252015(0-.5)	INC-SB35-010 08252015(0-.5)	INC-SB37-010 08252015(0-.5)	INC-SB37-011 08252015(0-.5)	INC-SB38-010 08252015(0-.5)	INC-SB39-010 08252015(0-.5)
												Sample Location	INC-SB34	INC-SB35	INC-SB37	INC-SB37	INC-SB38	INC-SB39
												Sample ID	INC-SB34-010 08252015(0-.5)	INC-SB35-010 08252015(0-.5)	INC-SB37-010 08252015(0-.5)	INC-SB37-011 08252015(0-.5)	INC-SB38-010 08252015(0-.5)	INC-SB39-010 08252015(0-.5)
												Sample Date	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Res	Res	Res	Res	Res	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB34-010 08252015(0-.5)	INC-SB35-010 08252015(0-.5)	INC-SB37-010 08252015(0-.5)	INC-SB37-011 08252015(0-.5)	INC-SB38-010 08252015(0-.5)	INC-SB39-010 08252015(0-.5)
												Sample Location	INC-SB34	INC-SB35	INC-SB37	INC-SB37	INC-SB38	INC-SB39
												Sample ID	INC-SB34-010 08252015(0-.5)	INC-SB35-010 08252015(0-.5)	INC-SB37-010 08252015(0-.5)	INC-SB37-011 08252015(0-.5)	INC-SB38-010 08252015(0-.5)	INC-SB39-010 08252015(0-.5)
												Sample Date	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Res	Res	Res	Res	Res	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB34-010 08252015(0-.5)	INC-SB35-010 08252015(0-.5)	INC-SB37-010 08252015(0-.5)	INC-SB37-011 08252015(0-.5)	INC-SB38-010 08252015(0-.5)	INC-SB39-010 08252015(0-.5)
												Sample Location	INC-SB34	INC-SB35	INC-SB37	INC-SB37	INC-SB38	INC-SB39
												Sample ID	INC-SB34-010 08252015(0-.5)	INC-SB35-010 08252015(0-.5)	INC-SB37-010 08252015(0-.5)	INC-SB37-011 08252015(0-.5)	INC-SB38-010 08252015(0-.5)	INC-SB39-010 08252015(0-.5)
												Sample Date	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Res	Res	Res	Res	Res	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB34-010 08252015(0-.5)	INC-SB35-010 08252015(0-.5)	INC-SB37-010 08252015(0-.5)	INC-SB37-011 08252015(0-.5)	INC-SB38-010 08252015(0-.5)	INC-SB39-010 08252015(0-.5)
												Sample Location	INC-SB34	INC-SB35	INC-SB37	INC-SB37	INC-SB38	INC-SB39
												Sample ID	INC-SB34-010 08252015(0-.5)	INC-SB35-010 08252015(0-.5)	INC-SB37-010 08252015(0-.5)	INC-SB37-011 08252015(0-.5)	INC-SB38-010 08252015(0-.5)	INC-SB39-010 08252015(0-.5)
												Sample Date	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Res	Res	Res	Res	Res	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	0.0498 J	<0.0573 U	0.666 J	0.682 J	<0.0299 U	<0.117 U
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	0.115	0.0652 J	2.13	1.48	0.0314 J	0.195 J
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	0.182	0.0874 J	3.52	2.99	0.0783	0.162 J
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.557	0.222	9.96	10.3	0.342	0.497
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	0.536	0.248	**9.45**	**9.96**	0.281	0.61
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.565	0.27	9.42	9.96	0.324	0.686
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	0.392	0.24	6.48	6.84	0.213	0.562
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	0.272	0.131	4.53	4.74	0.153	0.325
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB34-010 08252015(0-.5)	INC-SB35-010 08252015(0-.5)	INC-SB37-010 08252015(0-.5)	INC-SB37-011 08252015(0-.5)	INC-SB38-010 08252015(0-.5)	INC-SB39-010 08252015(0-.5)
												Sample Location	INC-SB34	INC-SB35	INC-SB37	INC-SB37	INC-SB38	INC-SB39
												Sample ID	INC-SB34-010 08252015(0-.5)	INC-SB35-010 08252015(0-.5)	INC-SB37-010 08252015(0-.5)	INC-SB37-011 08252015(0-.5)	INC-SB38-010 08252015(0-.5)	INC-SB39-010 08252015(0-.5)
												Sample Date	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Res	Res	Res	Res	Res	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	0.586	0.251	9.72	10.3	0.368	0.656
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	0.0988	<0.0573 U	1.64	1.7	0.0577 J	0.127 J
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	1.34	0.477	21.3	21.9	0.782	1.1
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.0549	<0.0573 U	0.802 J	0.775 J	<0.0299 U	<0.117 U
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.334	0.171	5.66	5.94	0.177	0.446
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.0273 U	<0.0573 U	0.127 J	0.138 J	<0.0299 U	<0.117 U
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB34-010 08252015(0-.5)	INC-SB35-010 08252015(0-.5)	INC-SB37-010 08252015(0-.5)	INC-SB37-011 08252015(0-.5)	INC-SB38-010 08252015(0-.5)	INC-SB39-010 08252015(0-.5)
												Sample Location	INC-SB34	INC-SB35	INC-SB37	INC-SB37	INC-SB38	INC-SB39
												Sample ID	INC-SB34-010 08252015(0-.5)	INC-SB35-010 08252015(0-.5)	INC-SB37-010 08252015(0-.5)	INC-SB37-011 08252015(0-.5)	INC-SB38-010 08252015(0-.5)	INC-SB39-010 08252015(0-.5)
												Sample Date	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Res	Res	Res	Res	Res	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.704	0.21	9.64	9.66	0.336	0.41
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	1.05	0.403	16.9	17.7	0.602	0.942
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB44-010 08252015(0-.5)	INC-SB46-010 09162015(0-.5)	INC-SB47-010 09162015(0-.5)	INC-SB47-011 09162015(0-.5)	INC-SB48-010 09162015(0-.5)	INC-SB49-010 09162015(0-.5)
												Sample Location	INC-SB44	INC-SB46	INC-SB47	INC-SB47	INC-SB48	INC-SB49
												Sample ID	INC-SB44-010 08252015(0-.5)	INC-SB46-010 09162015(0-.5)	INC-SB47-010 09162015(0-.5)	INC-SB47-011 09162015(0-.5)	INC-SB48-010 09162015(0-.5)	INC-SB49-010 09162015(0-.5)
												Sample Date	8/25/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	3.48	6.46	2.4	2.7	3.41	3.31
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	1340	1680	185	285	192	259
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	0.584	0.393 J	0.82	0.86	0.240 J	0.305 J
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	9.37	10.2	7.49	8.61	11.1	7.68
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	133	120	114	135	45	72.2
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	0.619	0.824 J	0.826 J	0.837 J	0.877 J	0.611 J
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	0.171 J	0.265 J	0.247 J	0.266	<0.123 U	0.106 J
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.0481	0.0853	1.47	1.27	0.0677	0.106
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB44-010 08252015(0-.5)	INC-SB46-010 09162015(0-.5)	INC-SB47-010 09162015(0-.5)	INC-SB47-011 09162015(0-.5)	INC-SB48-010 09162015(0-.5)	INC-SB49-010 09162015(0-.5)
												Sample Location	INC-SB44	INC-SB46	INC-SB47	INC-SB47	INC-SB48	INC-SB49
												Sample ID	INC-SB44-010 08252015(0-.5)	INC-SB46-010 09162015(0-.5)	INC-SB47-010 09162015(0-.5)	INC-SB47-011 09162015(0-.5)	INC-SB48-010 09162015(0-.5)	INC-SB49-010 09162015(0-.5)
												Sample Date	8/25/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB44-010 08252015(0-.5)	INC-SB46-010 09162015(0-.5)	INC-SB47-010 09162015(0-.5)	INC-SB47-011 09162015(0-.5)	INC-SB48-010 09162015(0-.5)	INC-SB49-010 09162015(0-.5)
												Sample Location	INC-SB44	INC-SB46	INC-SB47	INC-SB47	INC-SB48	INC-SB49
												Sample ID	INC-SB44-010 08252015(0-.5)	INC-SB46-010 09162015(0-.5)	INC-SB47-010 09162015(0-.5)	INC-SB47-011 09162015(0-.5)	INC-SB48-010 09162015(0-.5)	INC-SB49-010 09162015(0-.5)
												Sample Date	8/25/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB44-010 08252015(0-.5)	INC-SB46-010 09162015(0-.5)	INC-SB47-010 09162015(0-.5)	INC-SB47-011 09162015(0-.5)	INC-SB48-010 09162015(0-.5)	INC-SB49-010 09162015(0-.5)
												Sample Location	INC-SB44	INC-SB46	INC-SB47	INC-SB47	INC-SB48	INC-SB49
												Sample ID	INC-SB44-010 08252015(0-.5)	INC-SB46-010 09162015(0-.5)	INC-SB47-010 09162015(0-.5)	INC-SB47-011 09162015(0-.5)	INC-SB48-010 09162015(0-.5)	INC-SB49-010 09162015(0-.5)
												Sample Date	8/25/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB44-010 08252015(0-.5)	INC-SB46-010 09162015(0-.5)	INC-SB47-010 09162015(0-.5)	INC-SB47-011 09162015(0-.5)	INC-SB48-010 09162015(0-.5)	INC-SB49-010 09162015(0-.5)
												Sample Location	INC-SB44	INC-SB46	INC-SB47	INC-SB47	INC-SB48	INC-SB49
												Sample ID	INC-SB44-010 08252015(0-.5)	INC-SB46-010 09162015(0-.5)	INC-SB47-010 09162015(0-.5)	INC-SB47-011 09162015(0-.5)	INC-SB48-010 09162015(0-.5)	INC-SB49-010 09162015(0-.5)
												Sample Date	8/25/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	0.0117	---	---	---	---	0.19
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	0.121	---	---	---	---	0.101
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	0.134	---	---	---	---	0.493
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.24	---	---	---	---	1.92
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	0.349	---	---	---	---	1.85
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.493	---	---	---	---	1.96
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	0.29	---	---	---	---	1.37
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	0.202	---	---	---	---	0.884
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB44-010 08252015(0-.5)	INC-SB46-010 09162015(0-.5)	INC-SB47-010 09162015(0-.5)	INC-SB47-011 09162015(0-.5)	INC-SB48-010 09162015(0-.5)	INC-SB49-010 09162015(0-.5)
												Sample Location	INC-SB44	INC-SB46	INC-SB47	INC-SB47	INC-SB48	INC-SB49
												Sample ID	INC-SB44-010 08252015(0-.5)	INC-SB46-010 09162015(0-.5)	INC-SB47-010 09162015(0-.5)	INC-SB47-011 09162015(0-.5)	INC-SB48-010 09162015(0-.5)	INC-SB49-010 09162015(0-.5)
												Sample Date	8/25/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	0.316	---	---	---	---	1.92
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	0.0718	---	---	---	---	0.318
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.388	---	---	---	---	4.6
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.0222	---	---	---	---	0.136
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.258	---	---	---	---	1.18
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	0.00771 J	---	---	---	---	0.00765 J
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB44-010 08252015(0-.5)	INC-SB46-010 09162015(0-.5)	INC-SB47-010 09162015(0-.5)	INC-SB47-011 09162015(0-.5)	INC-SB48-010 09162015(0-.5)	INC-SB49-010 09162015(0-.5)
												Sample Location	INC-SB44	INC-SB46	INC-SB47	INC-SB47	INC-SB48	INC-SB49
												Sample ID	INC-SB44-010 08252015(0-.5)	INC-SB46-010 09162015(0-.5)	INC-SB47-010 09162015(0-.5)	INC-SB47-011 09162015(0-.5)	INC-SB48-010 09162015(0-.5)	INC-SB49-010 09162015(0-.5)
												Sample Date	8/25/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
												Top Depth (ft bags)	0	0	0	0	0	0
												Bottom Depth (ft bags)	0.5	0.5	0.5	0.5	0.5	0.5
												Location Type	Res	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.0888	---	---	---	---	1.87
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.388	---	---	---	---	3.46
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB51-010 09162015(0-.5)	INC-SB52-013 09162015(0-.5)	INC-SB53-010 01162017(0-.5)	INC-SB53-020 01162017(1.5-2)	INC-SB54-010 01162017(0-.5)	INC-SB54-020 01162017(1.8-2.3)
												Sample Location	INC-SB51	INC-SB52	INC-SB53	INC-SB53	INC-SB54	INC-SB54
												Sample ID	INC-SB51-010 09162015(0-.5)	INC-SB52-013 09162015(0-.5)	INC-SB53-010 01162017(0-.5)	INC-SB53-020 01162017(1.5-2)	INC-SB54-010 01162017(0-.5)	INC-SB54-020 01162017(1.8-2.3)
												Sample Date	9/16/2015	9/16/2015	1/16/2017	1/16/2017	1/16/2017	1/16/2017
												Top Depth (ft bags)	0	0	0	1.5	0	1.8
												Bottom Depth (ft bags)	0.5	0.5	0.5	2	0.5	2.3
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	0.706 J	8.54	<0.478 U	<0.560 U
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	5.84	3.65	3.37	6.74	2.17	1.7
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	182	107	66.7	181	3130	12.4
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	0.283 J	0.121 J	3.01	<0.112 U
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	0.366	0.277 J	0.451	1.42	0.228 J	<0.112 U
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	10.6	11.8	7.78 JH	29.0 JH	53.6 JH	2.66 JH
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	112	40.1	32.2	**736**	28.4	4.95
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	5.45	17.9	32.9	1.94 J
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	0.522 J	0.779 J	0.512 J	0.500 J	2.44	0.400 J
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	0.213 J	<0.121 U	0.115 J	0.364	<0.101 U	<0.113 U
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.0809	0.0335 J	0.0299 J	0.238	<0.0161 U	<0.0168 U
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB51-010 09162015(0-.5)	INC-SB52-013 09162015(0-.5)	INC-SB53-010 01162017(0-.5)	INC-SB53-020 01162017(1.5-2)	INC-SB54-010 01162017(0-.5)	INC-SB54-020 01162017(1.8-2.3)
												Sample Location	INC-SB51	INC-SB52	INC-SB53	INC-SB53	INC-SB54	INC-SB54
												Sample ID	INC-SB51-010 09162015(0-.5)	INC-SB52-013 09162015(0-.5)	INC-SB53-010 01162017(0-.5)	INC-SB53-020 01162017(1.5-2)	INC-SB54-010 01162017(0-.5)	INC-SB54-020 01162017(1.8-2.3)
												Sample Date	9/16/2015	9/16/2015	1/16/2017	1/16/2017	1/16/2017	1/16/2017
												Top Depth (ft bags)	0	0	0	1.5	0	1.8
												Bottom Depth (ft bags)	0.5	0.5	0.5	2	0.5	2.3
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB51-010 09162015(0-.5)	INC-SB52-013 09162015(0-.5)	INC-SB53-010 01162017(0-.5)	INC-SB53-020 01162017(1.5-2)	INC-SB54-010 01162017(0-.5)	INC-SB54-020 01162017(1.8-2.3)
												Sample Location	INC-SB51	INC-SB52	INC-SB53	INC-SB53	INC-SB54	INC-SB54
												Sample ID	INC-SB51-010 09162015(0-.5)	INC-SB52-013 09162015(0-.5)	INC-SB53-010 01162017(0-.5)	INC-SB53-020 01162017(1.5-2)	INC-SB54-010 01162017(0-.5)	INC-SB54-020 01162017(1.8-2.3)
												Sample Date	9/16/2015	9/16/2015	1/16/2017	1/16/2017	1/16/2017	1/16/2017
												Top Depth (ft bags)	0	0	0	1.5	0	1.8
												Bottom Depth (ft bags)	0.5	0.5	0.5	2	0.5	2.3
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB51-010 09162015(0-.5)	INC-SB52-013 09162015(0-.5)	INC-SB53-010 01162017(0-.5)	INC-SB53-020 01162017(1.5-2)	INC-SB54-010 01162017(0-.5)	INC-SB54-020 01162017(1.8-2.3)
												Sample Location	INC-SB51	INC-SB52	INC-SB53	INC-SB53	INC-SB54	INC-SB54
												Sample ID	INC-SB51-010 09162015(0-.5)	INC-SB52-013 09162015(0-.5)	INC-SB53-010 01162017(0-.5)	INC-SB53-020 01162017(1.5-2)	INC-SB54-010 01162017(0-.5)	INC-SB54-020 01162017(1.8-2.3)
												Sample Date	9/16/2015	9/16/2015	1/16/2017	1/16/2017	1/16/2017	1/16/2017
												Top Depth (ft bags)	0	0	0	1.5	0	1.8
												Bottom Depth (ft bags)	0.5	0.5	0.5	2	0.5	2.3
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB51-010 09162015(0-.5)	INC-SB52-013 09162015(0-.5)	INC-SB53-010 01162017(0-.5)	INC-SB53-020 01162017(1.5-2)	INC-SB54-010 01162017(0-.5)	INC-SB54-020 01162017(1.8-2.3)
												Sample Location	INC-SB51	INC-SB52	INC-SB53	INC-SB53	INC-SB54	INC-SB54
												Sample ID	INC-SB51-010 09162015(0-.5)	INC-SB52-013 09162015(0-.5)	INC-SB53-010 01162017(0-.5)	INC-SB53-020 01162017(1.5-2)	INC-SB54-010 01162017(0-.5)	INC-SB54-020 01162017(1.8-2.3)
												Sample Date	9/16/2015	9/16/2015	1/16/2017	1/16/2017	1/16/2017	1/16/2017
												Top Depth (ft bags)	0	0	0	1.5	0	1.8
												Bottom Depth (ft bags)	0.5	0.5	0.5	2	0.5	2.3
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	0.0292	0.00840 J	0.0158	0.591	<0.00526 U	<0.00592 U
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	0.252	0.0238	0.0222	0.413	<0.00526 U	<0.00592 U
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	0.319	0.0378	0.059	2.19	<0.00526 U	<0.00592 U
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.944	0.23	0.201	4.2	0.0142	0.00844 J
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	0.972	0.318	0.223	4.02	0.0188	0.0101 J
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	1.15	0.361	0.205	4.07	0.022	0.0105 J
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	0.728	0.304	0.151	3.52	0.0192	0.00830 J
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	0.518	0.166	0.112	2.08	0.0109	<0.00592 U
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB51-010 09162015(0-.5)	INC-SB52-013 09162015(0-.5)	INC-SB53-010 01162017(0-.5)	INC-SB53-020 01162017(1.5-2)	INC-SB54-010 01162017(0-.5)	INC-SB54-020 01162017(1.8-2.3)
												Sample Location	INC-SB51	INC-SB52	INC-SB53	INC-SB53	INC-SB54	INC-SB54
												Sample ID	INC-SB51-010 09162015(0-.5)	INC-SB52-013 09162015(0-.5)	INC-SB53-010 01162017(0-.5)	INC-SB53-020 01162017(1.5-2)	INC-SB54-010 01162017(0-.5)	INC-SB54-020 01162017(1.8-2.3)
												Sample Date	9/16/2015	9/16/2015	1/16/2017	1/16/2017	1/16/2017	1/16/2017
												Top Depth (ft bags)	0	0	0	1.5	0	1.8
												Bottom Depth (ft bags)	0.5	0.5	0.5	2	0.5	2.3
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	1.03	0.331	0.24	4.63	0.0185	0.00978 J
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	0.176	0.0607	0.0313	0.665	<0.00526 U	<0.00592 U
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	1.43	0.564	0.453	10.1	0.0325	0.0199
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.0464	0.0115 J	0.0169	1	<0.00526 U	<0.00592 U
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.633	0.242	0.151	3.38	0.0177	0.00807 J
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	0.0156	<0.00623 U	<0.00568 U	0.311	<0.00526 U	<0.00592 U
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB51-010 09162015(0-.5)	INC-SB52-013 09162015(0-.5)	INC-SB53-010 01162017(0-.5)	INC-SB53-020 01162017(1.5-2)	INC-SB54-010 01162017(0-.5)	INC-SB54-020 01162017(1.8-2.3)
												Sample Location	INC-SB51	INC-SB52	INC-SB53	INC-SB53	INC-SB54	INC-SB54
												Sample ID	INC-SB51-010 09162015(0-.5)	INC-SB52-013 09162015(0-.5)	INC-SB53-010 01162017(0-.5)	INC-SB53-020 01162017(1.5-2)	INC-SB54-010 01162017(0-.5)	INC-SB54-020 01162017(1.8-2.3)
												Sample Date	9/16/2015	9/16/2015	1/16/2017	1/16/2017	1/16/2017	1/16/2017
												Top Depth (ft bags)	0	0	0	1.5	0	1.8
												Bottom Depth (ft bags)	0.5	0.5	0.5	2	0.5	2.3
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.573	0.158	0.244	7.88	0.0152	0.00755 J
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	1.21	0.492	0.372	7.67	0.0277	0.0173
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB55-010 01162017(0-.5)	INC-SB55-020 01162017(1.5-1.9)	INC-SB56-010 01162017(0-.5)	INC-SB56-020 01162017(1.3-1.8)	INC-SB57-010 01262017(0-.5)	INC-SB57-020 01262017(1.5-2)
												Sample Location	INC-SB55	INC-SB55	INC-SB56	INC-SB56	INC-SB57	INC-SB57
												Sample ID	INC-SB55-010 01162017(0-.5)	INC-SB55-020 01162017(1.5-1.9)	INC-SB56-010 01162017(0-.5)	INC-SB56-020 01162017(1.3-1.8)	INC-SB57-010 01262017(0-.5)	INC-SB57-020 01262017(1.5-2)
												Sample Date	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/26/2017	1/26/2017
												Top Depth (ft bags)	0	1.5	0	1.3	0	1.5
												Bottom Depth (ft bags)	0.5	1.9	0.5	1.8	0.5	2
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	10.1	76.6	34.2	25.1	8.68	148
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	11.6	64.2	55.9	31.1	11.5	49.1
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	577	1820	1210	1040	675	936
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	0.295 J	0.134 J	0.264 J	0.407	0.349 J	0.190 J
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	3.54	6.58	11.4	8.66	8.61	15.9
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	55.2 JH	117 JH	157 JH	73.9 JH	66.5	121
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	1030	**6140**	**2010**	1390	701 JL	**28000 JL**
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	49.5	129	87.7	65.6	43.7	95.7
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	0.590 J	0.816	0.776	0.922	3.78 J	1.18 J
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	7.13	11.7	9.42	8.16	3.04	9.46
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.154	1.51	1.21	0.504	0.177	0.597
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.0616 UJ	<0.0568 U
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.0616 U	<0.0568 U
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.0616 U	<0.0568 U

												UNIT	INC-SB55-010 01162017(0-.5)	INC-SB55-020 01162017(1.5-1.9)	INC-SB56-010 01162017(0-.5)	INC-SB56-020 01162017(1.3-1.8)	INC-SB57-010 01262017(0-.5)	INC-SB57-020 01262017(1.5-2)
												Sample Location	INC-SB55	INC-SB55	INC-SB56	INC-SB56	INC-SB57	INC-SB57
												Sample ID	INC-SB55-010 01162017(0-.5)	INC-SB55-020 01162017(1.5-1.9)	INC-SB56-010 01162017(0-.5)	INC-SB56-020 01162017(1.3-1.8)	INC-SB57-010 01262017(0-.5)	INC-SB57-020 01262017(1.5-2)
												Sample Date	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/26/2017	1/26/2017
												Top Depth (ft bags)	0	1.5	0	1.3	0	1.5
												Bottom Depth (ft bags)	0.5	1.9	0.5	1.8	0.5	2
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.0616 UJ	<0.0568 UJ
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.0616 UJ	<0.0568 UJ
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.0616 UJ	<0.0568 UJ
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	0.0974 JL	<0.0568 UJ
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00832 U	<0.00642 U
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	<0.00128 UJL
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	<0.00128 UJL
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	0.00460 JL
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	<0.00128 UJL
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	<0.00128 UJL
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	<0.00128 UJL
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	<0.00128 UJL
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	<0.00128 UJL
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00832 U	0.141
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	<0.00128 UJL

												UNIT	INC-SB55-010 01162017(0-.5)	INC-SB55-020 01162017(1.5-1.9)	INC-SB56-010 01162017(0-.5)	INC-SB56-020 01162017(1.3-1.8)	INC-SB57-010 01262017(0-.5)	INC-SB57-020 01262017(1.5-2)
												Sample Location	INC-SB55	INC-SB55	INC-SB56	INC-SB56	INC-SB57	INC-SB57
												Sample ID	INC-SB55-010 01162017(0-.5)	INC-SB55-020 01162017(1.5-1.9)	INC-SB56-010 01162017(0-.5)	INC-SB56-020 01162017(1.3-1.8)	INC-SB57-010 01262017(0-.5)	INC-SB57-020 01262017(1.5-2)
												Sample Date	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/26/2017	1/26/2017
												Top Depth (ft bags)	0	1.5	0	1.3	0	1.5
												Bottom Depth (ft bags)	0.5	1.9	0.5	1.8	0.5	2
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00832 U	<0.00642 U
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	<0.00128 UJL
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00832 U	<0.00642 U
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.0249 U	0.44
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	0.00139 J
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00832 U	0.00690 J
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00832 UX7	<0.00642 UX7
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	<0.00128 UJL
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	<0.00128 UJL
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	0.00897 JL
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	0.00148 JL
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00832 U	<0.00642 U
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00832 U	0.0283

												UNIT	INC-SB55-010 01162017(0-.5)	INC-SB55-020 01162017(1.5-1.9)	INC-SB56-010 01162017(0-.5)	INC-SB56-020 01162017(1.3-1.8)	INC-SB57-010 01262017(0-.5)	INC-SB57-020 01262017(1.5-2)
												Sample Location	INC-SB55	INC-SB55	INC-SB56	INC-SB56	INC-SB57	INC-SB57
												Sample ID	INC-SB55-010 01162017(0-.5)	INC-SB55-020 01162017(1.5-1.9)	INC-SB56-010 01162017(0-.5)	INC-SB56-020 01162017(1.3-1.8)	INC-SB57-010 01262017(0-.5)	INC-SB57-020 01262017(1.5-2)
												Sample Date	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/26/2017	1/26/2017
												Top Depth (ft bags)	0	1.5	0	1.3	0	1.5
												Bottom Depth (ft bags)	0.5	1.9	0.5	1.8	0.5	2
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00832 U	<0.00642 U
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00832 UJL	0.0179 JL
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	0.0327 JL
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	0.0218
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	0.00221 JL
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	<0.00128 UJL
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	0.0467 JL
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	<0.00128 UJL
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	0.00457 JL
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 UJL	<0.00128 UJL
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00832 U	<0.00642 U
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<0.00166 U	<0.00128 U
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB55-010 01162017(0-.5)	INC-SB55-020 01162017(1.5-1.9)	INC-SB56-010 01162017(0-.5)	INC-SB56-020 01162017(1.3-1.8)	INC-SB57-010 01262017(0-.5)	INC-SB57-020 01262017(1.5-2)
												Sample Location	INC-SB55	INC-SB55	INC-SB56	INC-SB56	INC-SB57	INC-SB57
												Sample ID	INC-SB55-010 01162017(0-.5)	INC-SB55-020 01162017(1.5-1.9)	INC-SB56-010 01162017(0-.5)	INC-SB56-020 01162017(1.3-1.8)	INC-SB57-010 01262017(0-.5)	INC-SB57-020 01262017(1.5-2)
												Sample Date	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/26/2017	1/26/2017
												Top Depth (ft bags)	0	1.5	0	1.3	0	1.5
												Bottom Depth (ft bags)	0.5	1.9	0.5	1.8	0.5	2
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	0.00605 J	0.834	0.0297	0.014	<0.0302 U	1.15
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	0.087	0.28	0.858	0.152	0.211	<0.0300 U
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	0.457	<0.0311 U	1.76	0.775	0.963	<0.0300 U
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.0924	1.68	0.217	0.179	0.193	0.193
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	0.0985	2.53	0.186	0.18	0.232	0.205
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.116	2.18	0.218	0.189	0.278	0.214
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	0.169	2.01	0.336	0.212	0.339	0.245
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	0.0521	0.935	0.0922	0.0926	0.131	0.0975
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB55-010 01162017(0-.5)	INC-SB55-020 01162017(1.5-1.9)	INC-SB56-010 01162017(0-.5)	INC-SB56-020 01162017(1.3-1.8)	INC-SB57-010 01262017(0-.5)	INC-SB57-020 01262017(1.5-2)
												Sample Location	INC-SB55	INC-SB55	INC-SB56	INC-SB56	INC-SB57	INC-SB57
												Sample ID	INC-SB55-010 01162017(0-.5)	INC-SB55-020 01162017(1.5-1.9)	INC-SB56-010 01162017(0-.5)	INC-SB56-020 01162017(1.3-1.8)	INC-SB57-010 01262017(0-.5)	INC-SB57-020 01262017(1.5-2)
												Sample Date	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/26/2017	1/26/2017
												Top Depth (ft bags)	0	1.5	0	1.3	0	1.5
												Bottom Depth (ft bags)	0.5	1.9	0.5	1.8	0.5	2
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	0.124	1.99	0.231	0.208	0.248	0.635
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	0.0163	0.434	0.0285	0.0289	0.0448 J	0.0311 J
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.177	1.97	0.337	0.318	0.413	0.809
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.0393	1.18	0.392	0.0793	0.302	1.48
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.115	2	0.219	0.168	0.29	0.169
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	0.00996 J	0.0841	0.0266	0.0146	<0.0302 U	0.372
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB55-010 01162017(0-.5)	INC-SB55-020 01162017(1.5-1.9)	INC-SB56-010 01162017(0-.5)	INC-SB56-020 01162017(1.3-1.8)	INC-SB57-010 01262017(0-.5)	INC-SB57-020 01262017(1.5-2)
												Sample Location	INC-SB55	INC-SB55	INC-SB56	INC-SB56	INC-SB57	INC-SB57
												Sample ID	INC-SB55-010 01162017(0-.5)	INC-SB55-020 01162017(1.5-1.9)	INC-SB56-010 01162017(0-.5)	INC-SB56-020 01162017(1.3-1.8)	INC-SB57-010 01262017(0-.5)	INC-SB57-020 01262017(1.5-2)
												Sample Date	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/26/2017	1/26/2017
												Top Depth (ft bags)	0	1.5	0	1.3	0	1.5
												Bottom Depth (ft bags)	0.5	1.9	0.5	1.8	0.5	2
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.11	1.23	0.323	0.202	0.337	2.2
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.163	2.22	0.419	0.29	0.394	0.908
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	336	**22900 JH**
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	46.9	<879 U
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	<9.85 U	**13300 JH**
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	383	**36200 JH**

												UNIT	INC-SB58-013 01162017(0-.6)	INC-SB58-020 01162017(2.1-2.6)	INC-SB59-010 01162017(0-.5)	INC-SB59-020 01162017(10-10.5)	INC-SB60-010 01162017(0-.5)	INC-SB60-011 01162017(0-.5)
												Sample Location	INC-SB58	INC-SB58	INC-SB59	INC-SB59	INC-SB60	INC-SB60
												Sample ID	INC-SB58-013 01162017(0-.6)	INC-SB58-020 01162017(2.1-2.6)	INC-SB59-010 01162017(0-.5)	INC-SB59-020 01162017(10-10.5)	INC-SB60-010 01162017(0-.5)	INC-SB60-011 01162017(0-.5)
												Sample Date	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017
												Top Depth (ft bags)	0	2.1	0	10	0	0
												Bottom Depth (ft bags)	0.6	2.6	0.5	10.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	3.39	32.6	1.36	0.965 J	15.2	20.9
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	9.08	70.8	1.36	3.55	31.2	29.3
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	487	504	37.2	49	857	932
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	0.236 J	0.198 J	<0.102 U	0.130 J	0.177 J	0.207 J
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	1.45	24.9	0.128 J	0.63	8.36	10.8
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	23.1 JH	74.8 JH	4.06 JH	23.2 JH	60.6 JH	83.2 JH
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	507	**1780**	114	**138**	1150	1420
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	21.2	76.3	2.41	9.28	36.3 J	99.5 J
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	0.672	4.11	0.401 J	**0.429 J**	0.738	1.33
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	0.635	3.32	<0.100 U	<0.104 U	2.88	3.24
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.0821	0.188	0.0358 J	0.0431	0.367	0.359
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB58-013 01162017(0-.6)	INC-SB58-020 01162017(2.1-2.6)	INC-SB59-010 01162017(0-.5)	INC-SB59-020 01162017(10-10.5)	INC-SB60-010 01162017(0-.5)	INC-SB60-011 01162017(0-.5)
												Sample Location	INC-SB58	INC-SB58	INC-SB59	INC-SB59	INC-SB60	INC-SB60
												Sample ID	INC-SB58-013 01162017(0-.6)	INC-SB58-020 01162017(2.1-2.6)	INC-SB59-010 01162017(0-.5)	INC-SB59-020 01162017(10-10.5)	INC-SB60-010 01162017(0-.5)	INC-SB60-011 01162017(0-.5)
												Sample Date	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017
												Top Depth (ft bags)	0	2.1	0	10	0	0
												Bottom Depth (ft bags)	0.6	2.6	0.5	10.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB58-013 01162017(0-.6)	INC-SB58-020 01162017(2.1-2.6)	INC-SB59-010 01162017(0-.5)	INC-SB59-020 01162017(10-10.5)	INC-SB60-010 01162017(0-.5)	INC-SB60-011 01162017(0-.5)
												Sample Location	INC-SB58	INC-SB58	INC-SB59	INC-SB59	INC-SB60	INC-SB60
												Sample ID	INC-SB58-013 01162017(0-.6)	INC-SB58-020 01162017(2.1-2.6)	INC-SB59-010 01162017(0-.5)	INC-SB59-020 01162017(10-10.5)	INC-SB60-010 01162017(0-.5)	INC-SB60-011 01162017(0-.5)
												Sample Date	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017
												Top Depth (ft bags)	0	2.1	0	10	0	0
												Bottom Depth (ft bags)	0.6	2.6	0.5	10.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB58-013 01162017(0-.6)	INC-SB58-020 01162017(2.1-2.6)	INC-SB59-010 01162017(0-.5)	INC-SB59-020 01162017(10-10.5)	INC-SB60-010 01162017(0-.5)	INC-SB60-011 01162017(0-.5)
												Sample Location	INC-SB58	INC-SB58	INC-SB59	INC-SB59	INC-SB60	INC-SB60
												Sample ID	INC-SB58-013 01162017(0-.6)	INC-SB58-020 01162017(2.1-2.6)	INC-SB59-010 01162017(0-.5)	INC-SB59-020 01162017(10-10.5)	INC-SB60-010 01162017(0-.5)	INC-SB60-011 01162017(0-.5)
												Sample Date	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017
												Top Depth (ft bags)	0	2.1	0	10	0	0
												Bottom Depth (ft bags)	0.6	2.6	0.5	10.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB58-013 01162017(0-.6)	INC-SB58-020 01162017(2.1-2.6)	INC-SB59-010 01162017(0-.5)	INC-SB59-020 01162017(10-10.5)	INC-SB60-010 01162017(0-.5)	INC-SB60-011 01162017(0-.5)
												Sample Location	INC-SB58	INC-SB58	INC-SB59	INC-SB59	INC-SB60	INC-SB60
												Sample ID	INC-SB58-013 01162017(0-.6)	INC-SB58-020 01162017(2.1-2.6)	INC-SB59-010 01162017(0-.5)	INC-SB59-020 01162017(10-10.5)	INC-SB60-010 01162017(0-.5)	INC-SB60-011 01162017(0-.5)
												Sample Date	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017
												Top Depth (ft bags)	0	2.1	0	10	0	0
												Bottom Depth (ft bags)	0.6	2.6	0.5	10.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	0.029	6.66	0.00758 J	0.0124	0.105	0.0722
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	0.0287	<0.0327 U	0.0101 J	0.0194	0.122	0.113
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	0.183	<0.0327 U	0.0142	0.0321	0.314	0.199
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.232	0.346	0.0867	0.0957	1.27	1.04
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	0.24	0.301	0.0891	0.108	1.42	1.21
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.238	0.316	0.0918	0.105	1.35	1.16
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	0.199	0.378	0.0647	0.092	1.06	0.917
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	0.0994	0.134	0.0433	0.0558	0.604	0.641
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB58-013 01162017(0-.6)	INC-SB58-020 01162017(2.1-2.6)	INC-SB59-010 01162017(0-.5)	INC-SB59-020 01162017(10-10.5)	INC-SB60-010 01162017(0-.5)	INC-SB60-011 01162017(0-.5)
												Sample Location	INC-SB58	INC-SB58	INC-SB59	INC-SB59	INC-SB60	INC-SB60
												Sample ID	INC-SB58-013 01162017(0-.6)	INC-SB58-020 01162017(2.1-2.6)	INC-SB59-010 01162017(0-.5)	INC-SB59-020 01162017(10-10.5)	INC-SB60-010 01162017(0-.5)	INC-SB60-011 01162017(0-.5)
												Sample Date	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017
												Top Depth (ft bags)	0	2.1	0	10	0	0
												Bottom Depth (ft bags)	0.6	2.6	0.5	10.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	0.258	0.653	0.0992	0.11	1.54	1.35
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	0.034	0.0372 J	0.0159	0.0148	0.26	0.228
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.53	1.81	0.232	0.23	2.95	2.39
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.0311	<0.0327 U	0.00758 J	0.0159	0.0939	0.0648 J
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.193	0.301	0.0671	0.0756	1.07	0.968
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	0.00730 J	<0.0327 U	<0.00512 U	0.0185	<0.0329 U	0.0416 J
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB58-013 01162017(0-.6)	INC-SB58-020 01162017(2.1-2.6)	INC-SB59-010 01162017(0-.5)	INC-SB59-020 01162017(10-10.5)	INC-SB60-010 01162017(0-.5)	INC-SB60-011 01162017(0-.5)
												Sample Location	INC-SB58	INC-SB58	INC-SB59	INC-SB59	INC-SB60	INC-SB60
												Sample ID	INC-SB58-013 01162017(0-.6)	INC-SB58-020 01162017(2.1-2.6)	INC-SB59-010 01162017(0-.5)	INC-SB59-020 01162017(10-10.5)	INC-SB60-010 01162017(0-.5)	INC-SB60-011 01162017(0-.5)
												Sample Date	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017
												Top Depth (ft bags)	0	2.1	0	10	0	0
												Bottom Depth (ft bags)	0.6	2.6	0.5	10.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.288	<0.0327 U	0.0769	0.139	1.65	1.21
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.401	2.47	0.178	0.175	2.37	1.94
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB60-020 01162017(.9-1.35)	INC-SB61-010 01252017(0-.5)	INC-SB63-010 01252017(0-.5)	INC-SB64-010 01262017(0-.5)	INC-SB64-011 01262017(0-.5)	INC-SB66-010 01252017(0-.5)
												Sample Location	INC-SB60	INC-SB61	INC-SB63	INC-SB64	INC-SB64	INC-SB66
												Sample ID	INC-SB60-020 01162017(.9-1.35)	INC-SB61-010 01252017(0-.5)	INC-SB63-010 01252017(0-.5)	INC-SB64-010 01262017(0-.5)	INC-SB64-011 01262017(0-.5)	INC-SB66-010 01252017(0-.5)
												Sample Date	1/16/2017	1/25/2017	1/25/2017	1/26/2017	1/26/2017	1/25/2017
												Top Depth (ft bags)	0.9	0	0	0	0	0
												Bottom Depth (ft bags)	1.35	0.5	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	0.839 J	<0.598 U	1.73	14.4	9.46	0.651 J
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	2.27	5.67	6.99	60.2	55.7	3.5
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	31.5	54.9	208	1000	656	535
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	<0.117 U	0.190 J	0.124 J	0.234 J	0.135 J	0.172 J
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	0.351 J	0.236 J	0.794	12.7	16.5	0.577
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	4.77 JH	5.18	40.5	72.9 J	135 J	12.3
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	32.9	15.8 JL	137 JL	**2230 JL**	**2670 JL**	117 JL
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	2.58	3.95	104	412 J	134 J	7.38
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	0.365 J	0.668	0.453 J	1.37 J	0.870 J	0.728
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	0.215 J	<0.120 U	<0.117 U	1.59	1.15	<0.109 U
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.0299 J	0.0207 J	0.0288 J	1.19	0.413	0.0832
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB60-020 01162017(.9-1.35)	INC-SB61-010 01252017(0-.5)	INC-SB63-010 01252017(0-.5)	INC-SB64-010 01262017(0-.5)	INC-SB64-011 01262017(0-.5)	INC-SB66-010 01252017(0-.5)
												Sample Location	INC-SB60	INC-SB61	INC-SB63	INC-SB64	INC-SB64	INC-SB66
												Sample ID	INC-SB60-020 01162017(.9-1.35)	INC-SB61-010 01252017(0-.5)	INC-SB63-010 01252017(0-.5)	INC-SB64-010 01262017(0-.5)	INC-SB64-011 01262017(0-.5)	INC-SB66-010 01252017(0-.5)
												Sample Date	1/16/2017	1/25/2017	1/25/2017	1/26/2017	1/26/2017	1/25/2017
												Top Depth (ft bags)	0.9	0	0	0	0	0
												Bottom Depth (ft bags)	1.35	0.5	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB60-020 01162017(.9-1.35)	INC-SB61-010 01252017(0-.5)	INC-SB63-010 01252017(0-.5)	INC-SB64-010 01262017(0-.5)	INC-SB64-011 01262017(0-.5)	INC-SB66-010 01252017(0-.5)
												Sample Location	INC-SB60	INC-SB61	INC-SB63	INC-SB64	INC-SB64	INC-SB66
												Sample ID	INC-SB60-020 01162017(.9-1.35)	INC-SB61-010 01252017(0-.5)	INC-SB63-010 01252017(0-.5)	INC-SB64-010 01262017(0-.5)	INC-SB64-011 01262017(0-.5)	INC-SB66-010 01252017(0-.5)
												Sample Date	1/16/2017	1/25/2017	1/25/2017	1/26/2017	1/26/2017	1/25/2017
												Top Depth (ft bags)	0.9	0	0	0	0	0
												Bottom Depth (ft bags)	1.35	0.5	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB60-020 01162017(.9-1.35)	INC-SB61-010 01252017(0-.5)	INC-SB63-010 01252017(0-.5)	INC-SB64-010 01262017(0-.5)	INC-SB64-011 01262017(0-.5)	INC-SB66-010 01252017(0-.5)
												Sample Location	INC-SB60	INC-SB61	INC-SB63	INC-SB64	INC-SB64	INC-SB66
												Sample ID	INC-SB60-020 01162017(.9-1.35)	INC-SB61-010 01252017(0-.5)	INC-SB63-010 01252017(0-.5)	INC-SB64-010 01262017(0-.5)	INC-SB64-011 01262017(0-.5)	INC-SB66-010 01252017(0-.5)
												Sample Date	1/16/2017	1/25/2017	1/25/2017	1/26/2017	1/26/2017	1/25/2017
												Top Depth (ft bags)	0.9	0	0	0	0	0
												Bottom Depth (ft bags)	1.35	0.5	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB60-020 01162017(.9-1.35)	INC-SB61-010 01252017(0-.5)	INC-SB63-010 01252017(0-.5)	INC-SB64-010 01262017(0-.5)	INC-SB64-011 01262017(0-.5)	INC-SB66-010 01252017(0-.5)
												Sample Location	INC-SB60	INC-SB61	INC-SB63	INC-SB64	INC-SB64	INC-SB66
												Sample ID	INC-SB60-020 01162017(.9-1.35)	INC-SB61-010 01252017(0-.5)	INC-SB63-010 01252017(0-.5)	INC-SB64-010 01262017(0-.5)	INC-SB64-011 01262017(0-.5)	INC-SB66-010 01252017(0-.5)
												Sample Date	1/16/2017	1/25/2017	1/25/2017	1/26/2017	1/26/2017	1/25/2017
												Top Depth (ft bags)	0.9	0	0	0	0	0
												Bottom Depth (ft bags)	1.35	0.5	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	<0.00562 U	0.0122	0.0283 J	<0.0314 U	<0.0308 U	0.156
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	<0.00562 U	<0.00608 U	<0.0253 U	<0.0314 U	<0.0308 U	0.162
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	<0.00562 U	0.033	0.213	0.0635	0.0315 J	0.501
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.00665 J	0.105	1.7	0.283	0.154	1.73
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	0.00706 J	0.108	1.52	0.354	0.234	1.81
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.00746 J	0.106	1.47	0.348	0.24	1.53
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	0.00613 J	0.0852	1.11	0.344	0.264	1.33
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	<0.00562 U	0.0538	0.778	0.18	0.115	0.828
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB60-020 01162017(.9-1.35)	INC-SB61-010 01252017(0-.5)	INC-SB63-010 01252017(0-.5)	INC-SB64-010 01262017(0-.5)	INC-SB64-011 01262017(0-.5)	INC-SB66-010 01252017(0-.5)
												Sample Location	INC-SB60	INC-SB61	INC-SB63	INC-SB64	INC-SB64	INC-SB66
												Sample ID	INC-SB60-020 01162017(.9-1.35)	INC-SB61-010 01252017(0-.5)	INC-SB63-010 01252017(0-.5)	INC-SB64-010 01262017(0-.5)	INC-SB64-011 01262017(0-.5)	INC-SB66-010 01252017(0-.5)
												Sample Date	1/16/2017	1/25/2017	1/25/2017	1/26/2017	1/26/2017	1/25/2017
												Top Depth (ft bags)	0.9	0	0	0	0	0
												Bottom Depth (ft bags)	1.35	0.5	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	0.00680 J	0.108	1.83	0.318	0.176	1.94
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	<0.00562 U	0.0198	0.288	0.0812	0.0581 J	0.254
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.0134	0.244	3.2	0.449 J	0.231 J	3.3
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	<0.00562 U	0.0109 J	<0.0253 U	<0.0314 U	<0.0308 U	0.191
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.00580 J	0.0858	1.15	0.324	0.238	1.26
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.00562 U	<0.00608 U	<0.0253 U	<0.0314 U	<0.0308 U	0.0822
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB60-020 01162017(.9-1.35)	INC-SB61-010 01252017(0-.5)	INC-SB63-010 01252017(0-.5)	INC-SB64-010 01262017(0-.5)	INC-SB64-011 01262017(0-.5)	INC-SB66-010 01252017(0-.5)
												Sample Location	INC-SB60	INC-SB61	INC-SB63	INC-SB64	INC-SB64	INC-SB66
												Sample ID	INC-SB60-020 01162017(.9-1.35)	INC-SB61-010 01252017(0-.5)	INC-SB63-010 01252017(0-.5)	INC-SB64-010 01262017(0-.5)	INC-SB64-011 01262017(0-.5)	INC-SB66-010 01252017(0-.5)
												Sample Date	1/16/2017	1/25/2017	1/25/2017	1/26/2017	1/26/2017	1/25/2017
												Top Depth (ft bags)	0.9	0	0	0	0	0
												Bottom Depth (ft bags)	1.35	0.5	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.0105 J	0.124	0.771	0.208	0.0789	2.15
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.0113	0.179	2.61	0.385 J	0.203 J	2.71
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB66-020 01252017(6.5-7)	INC-SB66-021 01252017(6.5-7)	INC-SB67-010 01252017(0-.5)	INC-SB67-023 01252017(2.2-2.7)	INC-SB68-010 01172017(0-.5)	INC-SB68-020 01172017(.8-1.3)
												Sample Location	INC-SB66	INC-SB66	INC-SB67	INC-SB67	INC-SB68	INC-SB68
												Sample ID	INC-SB66-020 01252017(6.5-7)	INC-SB66-021 01252017(6.5-7)	INC-SB67-010 01252017(0-.5)	INC-SB67-023 01252017(2.2-2.7)	INC-SB68-010 01172017(0-.5)	INC-SB68-020 01172017(.8-1.3)
												Sample Date	1/25/2017	1/25/2017	1/25/2017	1/25/2017	1/17/2017	1/17/2017
												Top Depth (ft bags)	6.5	6.5	0	2.2	0	0.8
												Bottom Depth (ft bags)	7	7	0.5	2.7	0.5	1.3
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	<0.522 U	<0.552 U	<0.542 U	1.10 J	1.20 J	1.28
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	3.12	3.03	2.39	4.55	5.3	4.34
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	86	89.2	99.8	200	63.8	286
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	0.162 J	0.148 J	0.110 J	0.201 J	0.158 J	0.196 J
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	0.206 J	0.213 J	0.173 J	1.02	0.471	0.533
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	6.37	6.63	13.5	10.8	10.6 JH	11.3 JH
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	**47.3 JL**	**50.7 JL**	35.7 JL	207 JL	200	172
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	4.8	4.75	15.5	8.03	8.97	6.95
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	**0.65**	**0.661**	0.501 J	0.919 J	0.663 J	0.382 J
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	<0.104 U	<0.110 U	<0.108 U	0.144 J	0.252 J	1.02
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.071	0.0559	0.0340 J	0.111	0.0835	0.0525
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB66-020 01252017(6.5-7)	INC-SB66-021 01252017(6.5-7)	INC-SB67-010 01252017(0-.5)	INC-SB67-023 01252017(2.2-2.7)	INC-SB68-010 01172017(0-.5)	INC-SB68-020 01172017(.8-1.3)
												Sample Location	INC-SB66	INC-SB66	INC-SB67	INC-SB67	INC-SB68	INC-SB68
												Sample ID	INC-SB66-020 01252017(6.5-7)	INC-SB66-021 01252017(6.5-7)	INC-SB67-010 01252017(0-.5)	INC-SB67-023 01252017(2.2-2.7)	INC-SB68-010 01172017(0-.5)	INC-SB68-020 01172017(.8-1.3)
												Sample Date	1/25/2017	1/25/2017	1/25/2017	1/25/2017	1/17/2017	1/17/2017
												Top Depth (ft bags)	6.5	6.5	0	2.2	0	0.8
												Bottom Depth (ft bags)	7	7	0.5	2.7	0.5	1.3
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB66-020 01252017(6.5-7)	INC-SB66-021 01252017(6.5-7)	INC-SB67-010 01252017(0-.5)	INC-SB67-023 01252017(2.2-2.7)	INC-SB68-010 01172017(0-.5)	INC-SB68-020 01172017(.8-1.3)
												Sample Location	INC-SB66	INC-SB66	INC-SB67	INC-SB67	INC-SB68	INC-SB68
												Sample ID	INC-SB66-020 01252017(6.5-7)	INC-SB66-021 01252017(6.5-7)	INC-SB67-010 01252017(0-.5)	INC-SB67-023 01252017(2.2-2.7)	INC-SB68-010 01172017(0-.5)	INC-SB68-020 01172017(.8-1.3)
												Sample Date	1/25/2017	1/25/2017	1/25/2017	1/25/2017	1/17/2017	1/17/2017
												Top Depth (ft bags)	6.5	6.5	0	2.2	0	0.8
												Bottom Depth (ft bags)	7	7	0.5	2.7	0.5	1.3
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB66-020 01252017(6.5-7)	INC-SB66-021 01252017(6.5-7)	INC-SB67-010 01252017(0-.5)	INC-SB67-023 01252017(2.2-2.7)	INC-SB68-010 01172017(0-.5)	INC-SB68-020 01172017(.8-1.3)
												Sample Location	INC-SB66	INC-SB66	INC-SB67	INC-SB67	INC-SB68	INC-SB68
												Sample ID	INC-SB66-020 01252017(6.5-7)	INC-SB66-021 01252017(6.5-7)	INC-SB67-010 01252017(0-.5)	INC-SB67-023 01252017(2.2-2.7)	INC-SB68-010 01172017(0-.5)	INC-SB68-020 01172017(.8-1.3)
												Sample Date	1/25/2017	1/25/2017	1/25/2017	1/25/2017	1/17/2017	1/17/2017
												Top Depth (ft bags)	6.5	6.5	0	2.2	0	0.8
												Bottom Depth (ft bags)	7	7	0.5	2.7	0.5	1.3
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB66-020 01252017(6.5-7)	INC-SB66-021 01252017(6.5-7)	INC-SB67-010 01252017(0-.5)	INC-SB67-023 01252017(2.2-2.7)	INC-SB68-010 01172017(0-.5)	INC-SB68-020 01172017(.8-1.3)
												Sample Location	INC-SB66	INC-SB66	INC-SB67	INC-SB67	INC-SB68	INC-SB68
												Sample ID	INC-SB66-020 01252017(6.5-7)	INC-SB66-021 01252017(6.5-7)	INC-SB67-010 01252017(0-.5)	INC-SB67-023 01252017(2.2-2.7)	INC-SB68-010 01172017(0-.5)	INC-SB68-020 01172017(.8-1.3)
												Sample Date	1/25/2017	1/25/2017	1/25/2017	1/25/2017	1/17/2017	1/17/2017
												Top Depth (ft bags)	6.5	6.5	0	2.2	0	0.8
												Bottom Depth (ft bags)	7	7	0.5	2.7	0.5	1.3
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	<0.0273 U	<0.0274 U	<0.0270 U	0.431	0.945	0.00823 J
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	0.0757	0.0765	0.0485 J	0.276	1.16	0.0203
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	0.0752	0.0896	0.0552	1.26	3.52	0.0281
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.269	0.262	0.0906	3.4	15	0.123
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	0.341	0.331	0.184	3.04	16.8	0.146
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.306	0.282	0.192	2.66	15.4	0.13
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	0.309	0.294	0.347	1.93	12	0.109
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	0.159	0.153	0.0633	1.48	7.14	0.0696
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB66-020 01252017(6.5-7)	INC-SB66-021 01252017(6.5-7)	INC-SB67-010 01252017(0-.5)	INC-SB67-023 01252017(2.2-2.7)	INC-SB68-010 01172017(0-.5)	INC-SB68-020 01172017(.8-1.3)
												Sample Location	INC-SB66	INC-SB66	INC-SB67	INC-SB67	INC-SB68	INC-SB68
												Sample ID	INC-SB66-020 01252017(6.5-7)	INC-SB66-021 01252017(6.5-7)	INC-SB67-010 01252017(0-.5)	INC-SB67-023 01252017(2.2-2.7)	INC-SB68-010 01172017(0-.5)	INC-SB68-020 01172017(.8-1.3)
												Sample Date	1/25/2017	1/25/2017	1/25/2017	1/25/2017	1/17/2017	1/17/2017
												Top Depth (ft bags)	6.5	6.5	0	2.2	0	0.8
												Bottom Depth (ft bags)	7	7	0.5	2.7	0.5	1.3
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	0.324	0.315	0.288	3.48	17.3	0.133
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	0.072	0.0540 J	0.0339 J	0.538	2.42	0.0224
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.491	0.499	0.133	7.84	30.8	0.265
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.0334 J	0.0343 J	0.0325 J	0.639	1	0.0103 J
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.267	0.252	0.155	2.06	12.6	0.106
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.0273 U	<0.0274 U	0.0603	0.108	0.252	<0.00551 U
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB66-020 01252017(6.5-7)	INC-SB66-021 01252017(6.5-7)	INC-SB67-010 01252017(0-.5)	INC-SB67-023 01252017(2.2-2.7)	INC-SB68-010 01172017(0-.5)	INC-SB68-020 01172017(.8-1.3)
												Sample Location	INC-SB66	INC-SB66	INC-SB67	INC-SB67	INC-SB68	INC-SB68
												Sample ID	INC-SB66-020 01252017(6.5-7)	INC-SB66-021 01252017(6.5-7)	INC-SB67-010 01252017(0-.5)	INC-SB67-023 01252017(2.2-2.7)	INC-SB68-010 01172017(0-.5)	INC-SB68-020 01172017(.8-1.3)
												Sample Date	1/25/2017	1/25/2017	1/25/2017	1/25/2017	1/17/2017	1/17/2017
												Top Depth (ft bags)	6.5	6.5	0	2.2	0	0.8
												Bottom Depth (ft bags)	7	7	0.5	2.7	0.5	1.3
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.22	0.258	0.0581	6.01	15.1	0.123
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.419	0.457	0.388	5.86	25.3	0.216
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB69-010 01262017(1.4-1.9)	INC-SB70-010 01262017(.7-1.2)	INC-SB71 03302017(0-.5)	MW-1 03112014(.5-.5)	MW-1 DUP 03112014(.5-.5)	MW-2 03112014(.5-.5)
												Sample Location	INC-SB69	INC-SB70	INC-SB71	MW1	MW1	MW2
												Sample ID	INC-SB69-010 01262017(1.4-1.9)	INC-SB70-010 01262017(.7-1.2)	INC-SB71 03302017(0-.5)	MW-1 03112014(.5-.5)	MW-1 DUP 03112014(.5-.5)	MW-2 03112014(.5-.5)
												Sample Date	1/26/2017	1/26/2017	3/30/2017	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	1.4	0.7	0	0.5	0.5	0.5
												Bottom Depth (ft bags)	1.9	1.2	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Res	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	<0.508 U	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	---	---	3.96	1.30 J	1.29 J	1.92 J
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	---	---	68.6	10.2	7.29	10.4
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	0.269 J	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	---	---	0.118 J	<0.284 U	<0.244 U	<0.250 U
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	---	---	12.9	3.57	1.84	4.11
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	---	---	22.9	2.55	1.93 J	5.83
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	0.00343 J	<0.00160 U	0.000646 J
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	9.48	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	---	---	0.975	<0.592 U	<0.509 U	<0.522 U
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	---	---	<0.102 U	<0.116 U	<0.113 U	<0.126 U
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	0.0199 J	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.000184 U	<0.000177 U	<0.000181 U
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.0000550 U	<0.0000530 U	<0.0000540 U
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.0000600 U	<0.0000580 U	<0.0000600 U
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.0000860 U	<0.0000830 U	<0.0000850 U
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.000162 U	<0.000156 U	<0.000159 U
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.000136 U	<0.000131 U	<0.000134 U
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.000113 U	<0.000108 U	<0.000111 U
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.00569 U	<0.00547 U	<0.00560 U
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.0000810 U	<0.0000780 U	<0.0000800 U
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.0000480 U	<0.0000460 U	<0.0000470 U
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.0000660 U	---	<0.0000650 U
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.0000690 U	<0.0000670 U	<0.0000680 U
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.0000590 U	<0.0000570 U	<0.0000580 U
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.0000860 U	<0.0000830 U	<0.0000850 U
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.000104 U	<0.000100 U	<0.000103 U
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.000182 U	<0.000175 U	<0.000179 U
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.0000580 U	<0.0000560 U	<0.0000570 U
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB69-010 01262017(1.4-1.9)	INC-SB70-010 01262017(.7-1.2)	INC-SB71 03302017(0-.5)	MW-1 03112014(.5-.5)	MW-1 DUP 03112014(.5-.5)	MW-2 03112014(.5-.5)
												Sample Location	INC-SB69	INC-SB70	INC-SB71	MW1	MW1	MW2
												Sample ID	INC-SB69-010 01262017(1.4-1.9)	INC-SB70-010 01262017(.7-1.2)	INC-SB71 03302017(0-.5)	MW-1 03112014(.5-.5)	MW-1 DUP 03112014(.5-.5)	MW-2 03112014(.5-.5)
												Sample Date	1/26/2017	1/26/2017	3/30/2017	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	1.4	0.7	0	0.5	0.5	0.5
												Bottom Depth (ft bags)	1.9	1.2	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Res	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	<0.00670 U	<0.00578	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	<0.00670 U	<0.00578	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---

												UNIT	INC-SB69-010 01262017(1.4-1.9)	INC-SB70-010 01262017(.7-1.2)	INC-SB71 03302017(0-.5)	MW-1 03112014(.5-.5)	MW-1 DUP 03112014(.5-.5)	MW-2 03112014(.5-.5)
												Sample Location	INC-SB69	INC-SB70	INC-SB71	MW1	MW1	MW2
												Sample ID	INC-SB69-010 01262017(1.4-1.9)	INC-SB70-010 01262017(.7-1.2)	INC-SB71 03302017(0-.5)	MW-1 03112014(.5-.5)	MW-1 DUP 03112014(.5-.5)	MW-2 03112014(.5-.5)
												Sample Date	1/26/2017	1/26/2017	3/30/2017	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	1.4	0.7	0	0.5	0.5	0.5
												Bottom Depth (ft bags)	1.9	1.2	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Res	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	<0.00670 U	<0.00578	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	<0.00670 U	<0.00578	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	<0.0201 U	<0.0173	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	0.00139 J	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	<0.00670 U	<0.00578	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	<0.00670 UX7	<0.00578	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	<0.00670 U	<0.00578	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	<0.00670 U	<0.00578	---	---	---	---

												UNIT	INC-SB69-010 01262017(1.4-1.9)	INC-SB70-010 01262017(.7-1.2)	INC-SB71 03302017(0-.5)	MW-1 03112014(.5-.5)	MW-1 DUP 03112014(.5-.5)	MW-2 03112014(.5-.5)
												Sample Location	INC-SB69	INC-SB70	INC-SB71	MW1	MW1	MW2
												Sample ID	INC-SB69-010 01262017(1.4-1.9)	INC-SB70-010 01262017(.7-1.2)	INC-SB71 03302017(0-.5)	MW-1 03112014(.5-.5)	MW-1 DUP 03112014(.5-.5)	MW-2 03112014(.5-.5)
												Sample Date	1/26/2017	1/26/2017	3/30/2017	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	1.4	0.7	0	0.5	0.5	0.5
												Bottom Depth (ft bags)	1.9	1.2	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Res	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	<0.00670 U	<0.00578	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.00670 UJL	<0.00578	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	<0.00134 UJL	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	<0.00670 U	<0.00578	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00116	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB69-010 01262017(1.4-1.9)	INC-SB70-010 01262017(.7-1.2)	INC-SB71 03302017(0-.5)	MW-1 03112014(.5-.5)	MW-1 DUP 03112014(.5-.5)	MW-2 03112014(.5-.5)
												Sample Location	INC-SB69	INC-SB70	INC-SB71	MW1	MW1	MW2
												Sample ID	INC-SB69-010 01262017(1.4-1.9)	INC-SB70-010 01262017(.7-1.2)	INC-SB71 03302017(0-.5)	MW-1 03112014(.5-.5)	MW-1 DUP 03112014(.5-.5)	MW-2 03112014(.5-.5)
												Sample Date	1/26/2017	1/26/2017	3/30/2017	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	1.4	0.7	0	0.5	0.5	0.5
												Bottom Depth (ft bags)	1.9	1.2	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Res	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	---	---	0.0136	<0.000182 U	<0.000175 U	<0.000179 U
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	---	---	0.0168	<0.000111 U	<0.000107 U	<0.000110 U
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	---	---	0.0481	<0.000198 U	<0.000190 U	<0.000195 U
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	0.131	<0.000120 U	<0.000115 U	<0.000118 U
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	---	---	0.138	<0.000152 U	<0.000146 U	<0.000150 U
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	0.144	<0.000261 U	<0.000251 U	<0.000257 U
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	---	---	0.105	<0.000235 U	<0.000226 U	<0.000231 U
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	0.0785	<0.000264 U	<0.000253 U	<0.000260 U
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB69-010 01262017(1.4-1.9)	INC-SB70-010 01262017(.7-1.2)	INC-SB71 03302017(0-.5)	MW-1 03112014(.5-.5)	MW-1 DUP 03112014(.5-.5)	MW-2 03112014(.5-.5)
												Sample Location	INC-SB69	INC-SB70	INC-SB71	MW1	MW1	MW2
												Sample ID	INC-SB69-010 01262017(1.4-1.9)	INC-SB70-010 01262017(.7-1.2)	INC-SB71 03302017(0-.5)	MW-1 03112014(.5-.5)	MW-1 DUP 03112014(.5-.5)	MW-2 03112014(.5-.5)
												Sample Date	1/26/2017	1/26/2017	3/30/2017	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	1.4	0.7	0	0.5	0.5	0.5
												Bottom Depth (ft bags)	1.9	1.2	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Res	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	---	---	0.14	<0.000116 U	<0.000112 U	<0.000115 U
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	---	---	0.0169	<0.000159 U	<0.000153 U	<0.000157 U
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	---	<0.000159 U	<0.000153 U	<0.000157 U
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	---	0.357 JH	<0.000147 U	<0.000142 U	<0.000145 U
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	---	0.0116	<0.000110 U	<0.000106 U	<0.000109 U
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	0.118	<0.000289 U	<0.000277 U	<0.000284 U
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	<0.00533 U	<0.000260 U	<0.000250 U	<0.000256 U
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	INC-SB69-010 01262017(1.4-1.9)	INC-SB70-010 01262017(.7-1.2)	INC-SB71 03302017(0-.5)	MW-1 03112014(.5-.5)	MW-1 DUP 03112014(.5-.5)	MW-2 03112014(.5-.5)
												Sample Location	INC-SB69	INC-SB70	INC-SB71	MW1	MW1	MW2
												Sample ID	INC-SB69-010 01262017(1.4-1.9)	INC-SB70-010 01262017(.7-1.2)	INC-SB71 03302017(0-.5)	MW-1 03112014(.5-.5)	MW-1 DUP 03112014(.5-.5)	MW-2 03112014(.5-.5)
												Sample Date	1/26/2017	1/26/2017	3/30/2017	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	1.4	0.7	0	0.5	0.5	0.5
												Bottom Depth (ft bags)	1.9	1.2	0.5	0.5	0.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Res	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	---	0.178	<0.000251 U	<0.000241 U	<0.000247 U
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	---	0.267 JH	<0.000132 U	<0.000127 U	<0.000130 U
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	134	15.6	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	9.60 J	<8.45	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	<9.24 U	<8.45	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	144	15.6	---	---	---	---

												UNIT	MW-2 03112014(2.5-2.5)	MW-3 03112014(.5-.5)	MW-3 03112014(2.5-2.5)	MW-4 03112014(.5-.5)	MW-4 03112014(2.5-2.5)	MW-5 03112014(.5-.5)
												Sample Location	MW2	MW3	MW3	MW4	MW4	MW5
												Sample ID	MW-2 03112014(2.5-2.5)	MW-3 03112014(.5-.5)	MW-3 03112014(2.5-2.5)	MW-4 03112014(.5-.5)	MW-4 03112014(2.5-2.5)	MW-5 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2.5	0.5	2.5	0.5	2.5	0.5
												Bottom Depth (ft bags)	2.5	0.5	2.5	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	0.711 J	2.34 J	<0.499 U	59.8	2.98	12.3
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	3.61	28.4	6.51	770	36.2	333
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	<0.279 U	0.308 J	<0.281 U	24.1	0.459 J	2.75
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	1.59	4.83	2.45	55.7	7.82	45.6
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	2.21 J	47.5	1.20 J	**3740**	46.8	1070
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.00245 J	0.0110 J	0.00630 J	0.37	0.0117	0.235
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	<0.581 U	<0.605 U	<0.586 U	4.99	<0.0579 U	4.95
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	<0.125 U	<0.120 U	<0.126 U	4.3	<0.122 U	3.14
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	<0.000191 U	<0.00375 U	0.0013	<0.0223 U	<0.000190 U	2.07
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	<0.0000570 U	0.00165	0.00066	<0.000671 U	<0.0000570 U	1.47
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	0.000071	<0.00123 U	0.00011	<0.000735 U	<0.0000630 U	1.97
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	<0.0000900 U	<0.00176 U	<0.0000920 U	<0.0105 U	<0.0000890 U	<0.00419 U
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	<0.000168 U	<0.00331 U	<0.000173 U	<0.0197 U	<0.000167 U	<0.00785 U
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	<0.000141 U	<0.00278 U	<0.000145 U	<0.0165 U	<0.000140 U	<0.00659 U
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	<0.000117 U	<0.00230 U	<0.000120 U	<0.0137 U	<0.000117 U	<0.00547 U
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	<0.00591 U	<0.116 U	<0.00607 U	<0.692 U	<0.00588 U	<0.276 U
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	<0.0000840 U	<0.00165 U	<0.0000860 U	<0.00983 U	<0.0000840 U	<0.00392 U
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	<0.0000500 U	<0.000982 U	<0.0000510 U	<0.00584 U	<0.0000500 U	<0.00233 U
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	<0.0000680 U	<0.00134 U	<0.0000700 U	<0.00798 U	<0.0000680 U	<0.00318 U
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	<0.0000720 U	<0.00141 U	<0.0000740 U	<0.00842 U	<0.0000720 U	<0.00336 U
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	<0.0000610 U	<0.00120 U	<0.0000630 U	<0.00716 U	<0.0000610 U	<0.00285 U
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	<0.0000890 U	<0.00176 U	<0.0000920 U	<0.0104 U	<0.0000890 U	<0.00416 U
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	<0.000108 U	<0.00213 U	<0.000111 U	<0.0127 U	<0.000108 U	<0.00506 U
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	<0.000189 U	<0.00371 U	<0.000194 U	<0.0221 U	<0.000188 U	<0.00881 U
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	<0.0000610 U	<0.00119 U	<0.0000620 U	<0.00709 U	<0.0000600 U	<0.00283 U
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	MW-2 03112014(2.5-2.5)	MW-3 03112014(.5-.5)	MW-3 03112014(2.5-2.5)	MW-4 03112014(.5-.5)	MW-4 03112014(2.5-2.5)	MW-5 03112014(.5-.5)
												Sample Location	MW2	MW3	MW3	MW4	MW4	MW5
												Sample ID	MW-2 03112014(2.5-2.5)	MW-3 03112014(.5-.5)	MW-3 03112014(2.5-2.5)	MW-4 03112014(.5-.5)	MW-4 03112014(2.5-2.5)	MW-5 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2.5	0.5	2.5	0.5	2.5	0.5
												Bottom Depth (ft bags)	2.5	0.5	2.5	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	MW-2 03112014(2.5-2.5)	MW-3 03112014(.5-.5)	MW-3 03112014(2.5-2.5)	MW-4 03112014(.5-.5)	MW-4 03112014(2.5-2.5)	MW-5 03112014(.5-.5)
												Sample Location	MW2	MW3	MW3	MW4	MW4	MW5
												Sample ID	MW-2 03112014(2.5-2.5)	MW-3 03112014(.5-.5)	MW-3 03112014(2.5-2.5)	MW-4 03112014(.5-.5)	MW-4 03112014(2.5-2.5)	MW-5 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2.5	0.5	2.5	0.5	2.5	0.5
												Bottom Depth (ft bags)	2.5	0.5	2.5	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	MW-2 03112014(2.5-2.5)	MW-3 03112014(.5-.5)	MW-3 03112014(2.5-2.5)	MW-4 03112014(.5-.5)	MW-4 03112014(2.5-2.5)	MW-5 03112014(.5-.5)
												Sample Location	MW2	MW3	MW3	MW4	MW4	MW5
												Sample ID	MW-2 03112014(2.5-2.5)	MW-3 03112014(.5-.5)	MW-3 03112014(2.5-2.5)	MW-4 03112014(.5-.5)	MW-4 03112014(2.5-2.5)	MW-5 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2.5	0.5	2.5	0.5	2.5	0.5
												Bottom Depth (ft bags)	2.5	0.5	2.5	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	MW-2 03112014(2.5-2.5)	MW-3 03112014(.5-.5)	MW-3 03112014(2.5-2.5)	MW-4 03112014(.5-.5)	MW-4 03112014(2.5-2.5)	MW-5 03112014(.5-.5)
												Sample Location	MW2	MW3	MW3	MW4	MW4	MW5
												Sample ID	MW-2 03112014(2.5-2.5)	MW-3 03112014(.5-.5)	MW-3 03112014(2.5-2.5)	MW-4 03112014(.5-.5)	MW-4 03112014(2.5-2.5)	MW-5 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2.5	0.5	2.5	0.5	2.5	0.5
												Bottom Depth (ft bags)	2.5	0.5	2.5	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	<0.000189 U	<0.000186 U	<0.000194 U	0.0268	<0.000188 U	0.0116
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	<0.000116 U	0.0113	<0.000119 U	0.0398	<0.000115 U	0.0142
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	<0.000206 U	0.00348	<0.000211 U	0.125	<0.000205 U	0.0405
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	<0.000124 U	0.0243	<0.000128 U	1.13	0.0493	0.158
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	<0.000158 U	0.028	<0.000162 U	1.13	0.0332	0.181
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	<0.000271 U	0.0366	<0.000278 U	1.75	0.0364	0.252
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	<0.000244 U	0.0259	<0.000251 U	0.943	0.0428	0.13
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	<0.000274 U	0.0179	<0.000281 U	0.674	0.0106	0.0861
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	MW-2 03112014(2.5-2.5)	MW-3 03112014(.5-.5)	MW-3 03112014(2.5-2.5)	MW-4 03112014(.5-.5)	MW-4 03112014(2.5-2.5)	MW-5 03112014(.5-.5)
												Sample Location	MW2	MW3	MW3	MW4	MW4	MW5
												Sample ID	MW-2 03112014(2.5-2.5)	MW-3 03112014(.5-.5)	MW-3 03112014(2.5-2.5)	MW-4 03112014(.5-.5)	MW-4 03112014(2.5-2.5)	MW-5 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2.5	0.5	2.5	0.5	2.5	0.5
												Bottom Depth (ft bags)	2.5	0.5	2.5	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	<0.000121 U	0.0206	<0.000124 U	1.16	0.00835	0.164
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	<0.000166 U	<0.000162 U	<0.000170 U	0.162	0.00551	0.0297
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	<0.000166 U	<0.000163 U	<0.000170 U	0.00798	<0.000165 U	0.00862
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	<0.000153 U	0.0443	<0.000157 U	1.92	0.00267	0.342
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	<0.000115 U	<0.000112 U	<0.000118 U	0.0224	<0.000114 U	0.0101
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	<0.000300 U	0.0259	<0.000308 U	0.894	0.0315	0.112
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.000270 U	<0.000265 U	<0.000277 U	0.00871 J	<0.000269 U	0.00566 J
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	MW-2 03112014(2.5-2.5)	MW-3 03112014(.5-.5)	MW-3 03112014(2.5-2.5)	MW-4 03112014(.5-.5)	MW-4 03112014(2.5-2.5)	MW-5 03112014(.5-.5)
												Sample Location	MW2	MW3	MW3	MW4	MW4	MW5
												Sample ID	MW-2 03112014(2.5-2.5)	MW-3 03112014(.5-.5)	MW-3 03112014(2.5-2.5)	MW-4 03112014(.5-.5)	MW-4 03112014(2.5-2.5)	MW-5 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2.5	0.5	2.5	0.5	2.5	0.5
												Bottom Depth (ft bags)	2.5	0.5	2.5	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	<0.000261 U	0.00756	<0.000268 U	0.565	<0.000259 U	0.178
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	<0.000137 U	0.0396	<0.000141 U	1.69	0.00346	0.276
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	MW-5 03112014(3-3)	MW-6 03112014(.5-.5)	MW-6 03112014(2.5-2.5)	MW-6 DUP 03112014(2.5-2.5)	MW-7 03112014(.5-.5)	MW-7 03112014(2.5-2.5)
												Sample Location	MW5	MW6	MW6	MW6	MW7	MW7
												Sample ID	MW-5 03112014(3-3)	MW-6 03112014(.5-.5)	MW-6 03112014(2.5-2.5)	MW-6 DUP 03112014(2.5-2.5)	MW-7 03112014(.5-.5)	MW-7 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	3	0.5	2.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	3	0.5	2.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	4.41	13.6	40.7	6.72	2.79	3.78
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	28.2	236	1350	268	298	107
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	0.432 J	3.67	14.3	2.75	0.713 J	0.464 J
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	9.11	15.7	62.9	10.5	30.2	17.6
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	28.3	814	**2300**	197	225	84.3
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.0422	0.334	0.25	0.0511	0.0675	0.0564
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	<0.662 U	2.83 J	7.95	2.16 J	<0.651 U	<0.588 U
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	<0.142 U	1.65 J	7.11	0.242 J	0.958 J	0.738
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	0.000211	<0.0174 U	0.000606 J	0.000793 J	<0.00404 U	<0.0201 U
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	0.000786	0.00983 J	0.00111	0.000305 J	0.00729 J	<0.00603 U
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	0.000149	<0.00571 U	0.00169	0.000115 J	0.00496 J	<0.00660 U
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	<0.0000960 U	<0.00816 U	<0.0000870 U	<0.0000870 U	<0.00190 U	<0.00943 U
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	<0.000181 U	<0.0153 U	<0.000164 U	<0.000163 U	<0.00356 U	<0.0177 U
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	<0.000152 U	<0.0128 U	<0.000137 U	0.000138 J	<0.00299 U	<0.0148 U
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	<0.000126 U	<0.0107 U	<0.000114 U	<0.000113 U	<0.00248 U	<0.0123 U
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	<0.00635 U	<0.538 U	<0.00576 U	<0.00572 U	<0.125 U	<0.621 U
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	<0.0000900 U	<0.00764 U	<0.0000820 U	<0.0000810 U	<0.00178 U	<0.00883 U
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	<0.0000540 U	<0.00454 U	<0.0000490 U	<0.0000480 U	<0.00106 U	<0.00525 U
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	<0.0000730 U	<0.00621 U	<0.0000660 U	<0.0000660 U	<0.00144 U	<0.00717 U
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	<0.0000770 U	<0.00654 U	<0.0000700 U	<0.0000700 U	<0.00152 U	<0.00756 U
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	<0.0000660 U	<0.00557 U	<0.0000600 U	<0.0000590 U	<0.00129 U	<0.00643 U
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	<0.0000960 U	<0.00812 U	<0.0000870 U	<0.0000860 U	<0.00189 U	<0.00938 U
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	<0.000117 U	<0.00987 U	<0.000106 U	<0.000105 U	<0.00230 U	<0.0114 U
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	<0.000203 U	<0.0172 U	<0.000184 U	<0.000183 U	<0.00399 U	<0.0198 U
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	<0.0000650 U	<0.00551 U	<0.0000590 U	<0.0000590 U	<0.00128 U	<0.00636 U
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	MW-5 03112014(3-3)	MW-6 03112014(.5-.5)	MW-6 03112014(2.5-2.5)	MW-6 DUP 03112014(2.5-2.5)	MW-7 03112014(.5-.5)	MW-7 03112014(2.5-2.5)
												Sample Location	MW5	MW6	MW6	MW6	MW7	MW7
												Sample ID	MW-5 03112014(3-3)	MW-6 03112014(.5-.5)	MW-6 03112014(2.5-2.5)	MW-6 DUP 03112014(2.5-2.5)	MW-7 03112014(.5-.5)	MW-7 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	3	0.5	2.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	3	0.5	2.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	MW-5 03112014(3-3)	MW-6 03112014(.5-.5)	MW-6 03112014(2.5-2.5)	MW-6 DUP 03112014(2.5-2.5)	MW-7 03112014(.5-.5)	MW-7 03112014(2.5-2.5)
												Sample Location	MW5	MW6	MW6	MW6	MW7	MW7
												Sample ID	MW-5 03112014(3-3)	MW-6 03112014(.5-.5)	MW-6 03112014(2.5-2.5)	MW-6 DUP 03112014(2.5-2.5)	MW-7 03112014(.5-.5)	MW-7 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	3	0.5	2.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	3	0.5	2.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	MW-5 03112014(3-3)	MW-6 03112014(.5-.5)	MW-6 03112014(2.5-2.5)	MW-6 DUP 03112014(2.5-2.5)	MW-7 03112014(.5-.5)	MW-7 03112014(2.5-2.5)
												Sample Location	MW5	MW6	MW6	MW6	MW7	MW7
												Sample ID	MW-5 03112014(3-3)	MW-6 03112014(.5-.5)	MW-6 03112014(2.5-2.5)	MW-6 DUP 03112014(2.5-2.5)	MW-7 03112014(.5-.5)	MW-7 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	3	0.5	2.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	3	0.5	2.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	MW-5 03112014(3-3)	MW-6 03112014(.5-.5)	MW-6 03112014(2.5-2.5)	MW-6 DUP 03112014(2.5-2.5)	MW-7 03112014(.5-.5)	MW-7 03112014(2.5-2.5)
												Sample Location	MW5	MW6	MW6	MW6	MW7	MW7
												Sample ID	MW-5 03112014(3-3)	MW-6 03112014(.5-.5)	MW-6 03112014(2.5-2.5)	MW-6 DUP 03112014(2.5-2.5)	MW-7 03112014(.5-.5)	MW-7 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	3	0.5	2.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	3	0.5	2.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	<0.000203 U	<0.000172 U	<0.000184 U	<0.000183 U	<0.000200 U	<0.000398 U
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	<0.000124 U	<0.000105 U	<0.000112 U	<0.000112 U	0.0043	0.00791
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	<0.000221 U	0.00505	<0.000200 U	<0.000199 U	0.00518	0.0125
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.00241	0.00655	0.00248	<0.000120 U	0.0251	0.0485
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	0.00283	0.00969	<0.000153 U	<0.000153 U	0.036	0.0676
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.00401	0.0127	<0.000263 U	<0.000262 U	0.0526	0.0949
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	<0.000262 U	0.0124	0.00279	<0.000236 U	0.0307	0.074
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	<0.000294 U	0.0046	<0.000266 U	<0.000265 U	0.0187	0.0316
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	MW-5 03112014(3-3)	MW-6 03112014(.5-.5)	MW-6 03112014(2.5-2.5)	MW-6 DUP 03112014(2.5-2.5)	MW-7 03112014(.5-.5)	MW-7 03112014(2.5-2.5)
												Sample Location	MW5	MW6	MW6	MW6	MW7	MW7
												Sample ID	MW-5 03112014(3-3)	MW-6 03112014(.5-.5)	MW-6 03112014(2.5-2.5)	MW-6 DUP 03112014(2.5-2.5)	MW-7 03112014(.5-.5)	MW-7 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	3	0.5	2.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	3	0.5	2.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	0.00287	0.00697	0.00235	<0.000117 U	0.0348	0.0646
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	<0.000178 U	<0.000151 U	<0.000161 U	<0.000160 U	<0.000175 U	0.00768
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	<0.000178 U	<0.000151 U	<0.000161 U	<0.000160 U	<0.000175 U	<0.000348 U
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.00538	0.0116	0.00397	0.00703	0.0595	0.113
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	<0.000123 U	<0.000104 U	<0.000111 U	<0.000111 U	<0.000121 U	<0.000241 U
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	<0.000322 U	0.00828	0.00234	<0.000290 U	0.0249	0.0499
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.000290 U	<0.000246 U	<0.000262 U	<0.000261 U	<0.000285 U	<0.000567 U
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	MW-5 03112014(3-3)	MW-6 03112014(.5-.5)	MW-6 03112014(2.5-2.5)	MW-6 DUP 03112014(2.5-2.5)	MW-7 03112014(.5-.5)	MW-7 03112014(2.5-2.5)
												Sample Location	MW5	MW6	MW6	MW6	MW7	MW7
												Sample ID	MW-5 03112014(3-3)	MW-6 03112014(.5-.5)	MW-6 03112014(2.5-2.5)	MW-6 DUP 03112014(2.5-2.5)	MW-7 03112014(.5-.5)	MW-7 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	3	0.5	2.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	3	0.5	2.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.00198 J	0.005	<0.000253 U	0.00433	0.0217	0.0438
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.00503	0.0115	0.0038	0.0071	0.0523	0.101
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-1 03112014(.5-.5)	SB-1 03112014(2.5-2.5)	SB-10 03112014(.5-.5)	SB-10 03112014(2.5-2.5)	SB-11 03112014(.5-.5)	SB-11 03112014(2.5-2.5)
												Sample Location	SB-1	SB-1	SB-10	SB-10	SB-11	SB-11
												Sample ID	SB-1 03112014(.5-.5)	SB-1 03112014(2.5-2.5)	SB-10 03112014(.5-.5)	SB-10 03112014(2.5-2.5)	SB-11 03112014(.5-.5)	SB-11 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	<0.459 U	0.796 J	14	14.4	23.3	3.87
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	13.2	3.74	657	520	2.65	107
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	0.289 J	<0.254 U	2.29	3.08	6.06	0.300 J
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	2.18	1.69	33.6	33.7	20.9	12
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	13.8	2.11 J	**2440**	1420	511	124
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.00312 J	<0.00157 U	0.826	0.112	0.383	0.0628
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	<0.538 U	<0.529 U	<0.597 U	<0.572 U	<0.604 U	<0.538 U
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	<0.118 U	<0.120 U	2.26 J	1.78 J	2.15 J	<0.111 U
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	<0.000177 U	<0.000187 U	0.00217 J	0.00193 J	<0.00382 U	<0.0177 U
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	<0.0000530 U	<0.0000560 U	0.00421 J	0.00642 J	0.00735 J	0.0541 J
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	<0.0000580 U	<0.0000610 U	0.00181 J	0.00139 J	0.00171 J	<0.00581 U
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	<0.000831 U	<0.0000880 U	<0.000868 U	<0.000832 U	<0.00180 U	<0.00831 U
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	<0.000156 U	<0.000164 U	<0.00163 U	<0.00156 U	<0.00337 U	<0.0156 U
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	<0.000131 U	0.000710 J	<0.00137 U	<0.00131 U	<0.00282 U	<0.0131 U
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	<0.000109 U	<0.000115 U	<0.00113 U	<0.00109 U	<0.00234 U	<0.0108 U
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	<0.00548 UX	<0.00578 U	<0.0572 U	<0.0548 U	<0.118 U	<0.547 U
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	<0.0000780 U	<0.0000820 U	<0.000813 U	<0.000779 U	<0.00168 U	<0.00778 U
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	<0.0000460 U	<0.0000490 U	<0.00483 U	<0.000463 U	<0.000999 U	<0.00462 U
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	<0.0000630 U	<0.0000670 U	<0.000660 U	<0.000632 U	<0.00136 U	<0.00632 U
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	<0.0000670 U	<0.0000700 U	<0.000696 U	<0.000667 U	<0.00144 U	<0.00666 U
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	<0.0000570 U	<0.0000600 U	<0.000592 U	<0.000567 U	<0.00122 U	<0.00567 U
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	<0.0000830 U	<0.0000870 U	<0.000863 U	<0.000827 U	<0.00179 U	<0.00826 U
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	<0.000101 U	<0.000106 U	<0.00105 U	<0.00101 U	<0.00217 U	<0.0100 U
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	<0.000175 U	0.00339	<0.00183 U	0.00197 J	<0.00378 U	<0.0175 U
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	<0.0000560 U	<0.0000590 U	<0.000586 U	0.00128 J	<0.00121 U	<0.00561 U
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-1 03112014(.5-.5)	SB-1 03112014(2.5-2.5)	SB-10 03112014(.5-.5)	SB-10 03112014(2.5-2.5)	SB-11 03112014(.5-.5)	SB-11 03112014(2.5-2.5)
												Sample Location	SB-1	SB-1	SB-10	SB-10	SB-11	SB-11
												Sample ID	SB-1 03112014(.5-.5)	SB-1 03112014(2.5-2.5)	SB-10 03112014(.5-.5)	SB-10 03112014(2.5-2.5)	SB-11 03112014(.5-.5)	SB-11 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-1 03112014(.5-.5)	SB-1 03112014(2.5-2.5)	SB-10 03112014(.5-.5)	SB-10 03112014(2.5-2.5)	SB-11 03112014(.5-.5)	SB-11 03112014(2.5-2.5)
												Sample Location	SB-1	SB-1	SB-10	SB-10	SB-11	SB-11
												Sample ID	SB-1 03112014(.5-.5)	SB-1 03112014(2.5-2.5)	SB-10 03112014(.5-.5)	SB-10 03112014(2.5-2.5)	SB-11 03112014(.5-.5)	SB-11 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-1 03112014(.5-.5)	SB-1 03112014(2.5-2.5)	SB-10 03112014(.5-.5)	SB-10 03112014(2.5-2.5)	SB-11 03112014(.5-.5)	SB-11 03112014(2.5-2.5)
												Sample Location	SB-1	SB-1	SB-10	SB-10	SB-11	SB-11
												Sample ID	SB-1 03112014(.5-.5)	SB-1 03112014(2.5-2.5)	SB-10 03112014(.5-.5)	SB-10 03112014(2.5-2.5)	SB-11 03112014(.5-.5)	SB-11 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-1 03112014(.5-.5)	SB-1 03112014(2.5-2.5)	SB-10 03112014(.5-.5)	SB-10 03112014(2.5-2.5)	SB-11 03112014(.5-.5)	SB-11 03112014(2.5-2.5)
												Sample Location	SB-1	SB-1	SB-10	SB-10	SB-11	SB-11
												Sample ID	SB-1 03112014(.5-.5)	SB-1 03112014(2.5-2.5)	SB-10 03112014(.5-.5)	SB-10 03112014(2.5-2.5)	SB-11 03112014(.5-.5)	SB-11 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	<0.000175 U	---	0.114	<0.00176 U	<0.00189 U	<0.00526 U
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	<0.000107 U	---	0.387	0.603	<0.00116 U	<0.00321 U
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	<0.000190 U	---	0.355	0.0716	0.0468	<0.00571 U
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	<0.000115 U	---	0.92	0.26	0.294	<0.00345 U
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	<0.000146 U	---	1.19	0.298	0.534	0.0807
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	<0.000251 U	---	1.59	0.478	0.681	<0.00753 U
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	<0.000226 U	---	1.05	0.317	0.498	0.224
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	<0.000253 U	---	0.537	0.165	0.259	<0.00761 U
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-1 03112014(.5-.5)	SB-1 03112014(2.5-2.5)	SB-10 03112014(.5-.5)	SB-10 03112014(2.5-2.5)	SB-11 03112014(.5-.5)	SB-11 03112014(2.5-2.5)
												Sample Location	SB-1	SB-1	SB-10	SB-10	SB-11	SB-11
												Sample ID	SB-1 03112014(.5-.5)	SB-1 03112014(2.5-2.5)	SB-10 03112014(.5-.5)	SB-10 03112014(2.5-2.5)	SB-11 03112014(.5-.5)	SB-11 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	<0.000112 U	---	1.03	0.303	0.327	<0.00336 U
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	<0.000153 U	---	0.151	0.05	0.066	<0.00460 U
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	<0.000153 U	---	0.0754	<0.00154 U	<0.00166 U	<0.00460 U
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	<0.000142 U	---	1.93	0.598	0.377	<0.00426 U
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	<0.000106 U	---	0.0954	<0.00106 U	<0.00144 U	<0.00318 U
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	<0.000277 U	---	0.788	0.241 J	0.42	0.11
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.000250 U	---	0.0940 J	0.0121	<0.00270 U	<0.00750 U
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-1 03112014(.5-.5)	SB-1 03112014(2.5-2.5)	SB-10 03112014(.5-.5)	SB-10 03112014(2.5-2.5)	SB-11 03112014(.5-.5)	SB-11 03112014(2.5-2.5)
												Sample Location	SB-1	SB-1	SB-10	SB-10	SB-11	SB-11
												Sample ID	SB-1 03112014(.5-.5)	SB-1 03112014(2.5-2.5)	SB-10 03112014(.5-.5)	SB-10 03112014(2.5-2.5)	SB-11 03112014(.5-.5)	SB-11 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	<0.000241 U	---	1.32	0.321	0.135	<0.00724 U
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	< U	---	1.73	0.528	0.368	<0.00381 U
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-11 DUP 03112014(.5-.5)	SB-12 03112014(.5-.5)	SB-12 03112014(2-2)	SB-13 03112014(.5-.5)	SB-13 03112014(2.5-2.5)	SB-14 03112014(.5-.5)
												Sample Location	SB-11	SB-12	SB-12	SB-13	SB-13	SB-14
												Sample ID	SB-11 DUP 03112014(.5-.5)	SB-12 03112014(.5-.5)	SB-12 03112014(2-2)	SB-13 03112014(.5-.5)	SB-13 03112014(2.5-2.5)	SB-14 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	0.5	2	0.5	2.5	0.5
												Bottom Depth (ft bags)	0.5	0.5	2	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	74.8	25.8	17.2	8.24	11.8	---
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	842	849	474	221	540	---
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	9.22	11.6	6.25	2.67	10.6	---
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	52.9	64	43.9	26.9	27	---
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	**1730**	**2260**	**6010**	478	1300	---
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.326	**3.64**	**4.91**	0.337	0.481	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	<0.522 U	<0.514 U	<0.500 U	<0.586 U	<0.527 U	---
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	5.01	19.7	8.87	0.624 J	1.08 J	---
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	0.0283	<0.00907 U	0.00858 J	<0.00363 U	<0.00353 U	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	0.0635	0.00417 J	0.00498 J	0.00532 J	0.00727 J	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	0.00290 J	0.00782 J	0.0413	<0.00120 U	<0.00116 U	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	<0.00176 U	<0.00427 U	<0.00169 U	<0.00171 U	<0.00166 U	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	<0.00331 U	<0.00800 U	<0.00317 U	<0.00320 U	<0.00311 U	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	0.00491 J	<0.00671 U	0.00342 J	<0.00269 U	<0.00261 U	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	<0.00230 U	<0.00557 U	<0.00221 U	<0.00223 U	<0.00216 U	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	<0.116 U	<0.281 U	<0.111 U	<0.113 U	<0.109 U	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	<0.00165 U	<0.00399 U	<0.00158 U	<0.00160 U	<0.00155 U	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	<0.000982 U	<0.00237 U	<0.000940 U	<0.000951 U	<0.000923 U	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	<0.00134 U	<0.00324 U	<0.00128 U	<0.00130 U	<0.00126 U	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	<0.00141 U	<0.00342 U	<0.00135 U	<0.00137 U	<0.00133 U	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	<0.00120 U	<0.00291 U	<0.00115 U	<0.00117 U	<0.00113 U	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	<0.00175 U	<0.00424 U	<0.00168 U	<0.00170 U	<0.00165 U	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	<0.00213 U	<0.00516 U	<0.00204 U	<0.00207 U	<0.00200 U	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	0.00539 J	<0.00898 U	0.00528 J	<0.00360 U	<0.00349 U	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	<0.00119 U	<0.00288 U	<0.00114 U	<0.00115 U	<0.00112 U	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-11 DUP 03112014(.5-.5)	SB-12 03112014(.5-.5)	SB-12 03112014(2-2)	SB-13 03112014(.5-.5)	SB-13 03112014(2.5-2.5)	SB-14 03112014(.5-.5)
												Sample Location	SB-11	SB-12	SB-12	SB-13	SB-13	SB-14
												Sample ID	SB-11 DUP 03112014(.5-.5)	SB-12 03112014(.5-.5)	SB-12 03112014(2-2)	SB-13 03112014(.5-.5)	SB-13 03112014(2.5-2.5)	SB-14 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	0.5	2	0.5	2.5	0.5
												Bottom Depth (ft bags)	0.5	0.5	2	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-11 DUP 03112014(.5-.5)	SB-12 03112014(.5-.5)	SB-12 03112014(2-2)	SB-13 03112014(.5-.5)	SB-13 03112014(2.5-2.5)	SB-14 03112014(.5-.5)
												Sample Location	SB-11	SB-12	SB-12	SB-13	SB-13	SB-14
												Sample ID	SB-11 DUP 03112014(.5-.5)	SB-12 03112014(.5-.5)	SB-12 03112014(2-2)	SB-13 03112014(.5-.5)	SB-13 03112014(2.5-2.5)	SB-14 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	0.5	2	0.5	2.5	0.5
												Bottom Depth (ft bags)	0.5	0.5	2	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-11 DUP 03112014(.5-.5)	SB-12 03112014(.5-.5)	SB-12 03112014(2-2)	SB-13 03112014(.5-.5)	SB-13 03112014(2.5-2.5)	SB-14 03112014(.5-.5)
												Sample Location	SB-11	SB-12	SB-12	SB-13	SB-13	SB-14
												Sample ID	SB-11 DUP 03112014(.5-.5)	SB-12 03112014(.5-.5)	SB-12 03112014(2-2)	SB-13 03112014(.5-.5)	SB-13 03112014(2.5-2.5)	SB-14 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	0.5	2	0.5	2.5	0.5
												Bottom Depth (ft bags)	0.5	0.5	2	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-11 DUP 03112014(.5-.5)	SB-12 03112014(.5-.5)	SB-12 03112014(2-2)	SB-13 03112014(.5-.5)	SB-13 03112014(2.5-2.5)	SB-14 03112014(.5-.5)
												Sample Location	SB-11	SB-12	SB-12	SB-13	SB-13	SB-14
												Sample ID	SB-11 DUP 03112014(.5-.5)	SB-12 03112014(.5-.5)	SB-12 03112014(2-2)	SB-13 03112014(.5-.5)	SB-13 03112014(2.5-2.5)	SB-14 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	0.5	2	0.5	2.5	0.5
												Bottom Depth (ft bags)	0.5	0.5	2	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	<0.00186 U	<0.00180 U	0.35	<0.00541 U	<0.00175 U	---
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	<0.00114 U	<0.00110 U	0.528	<0.00331 U	0.0172 J	---
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	0.00782	0.0313	0.31	0.0170 J	0.0188 J	---
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.0384	<0.00118 U	0.615	0.0975	0.115	---
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	0.0573	0.0277	1.08	0.118	0.179	---
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.0936	0.0472	1.34	0.169	0.23	---
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	0.0677	0.0941	1.4	0.103	0.133	---
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	0.0346	0.0137 J	0.462	0.0662	0.0845	---
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-11 DUP 03112014(.5-.5)	SB-12 03112014(.5-.5)	SB-12 03112014(2-2)	SB-13 03112014(.5-.5)	SB-13 03112014(2.5-2.5)	SB-14 03112014(.5-.5)
												Sample Location	SB-11	SB-12	SB-12	SB-13	SB-13	SB-14
												Sample ID	SB-11 DUP 03112014(.5-.5)	SB-12 03112014(.5-.5)	SB-12 03112014(2-2)	SB-13 03112014(.5-.5)	SB-13 03112014(2.5-2.5)	SB-14 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	0.5	2	0.5	2.5	0.5
												Bottom Depth (ft bags)	0.5	0.5	2	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	0.0485	<0.00115 U	0.718	0.101	0.132	---
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	<0.00163 U	<0.00157 U	0.14	<0.00474 U	<0.00153 U	---
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	<0.00163 U	<0.00157 U	0.366	<0.00474 U	<0.00153 U	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.547	<0.00145 U	1.14	0.148	0.18	---
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	<0.00113 U	<0.00109 U	0.405	<0.00328 U	<0.00106 U	---
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.0506	0.0565	0.978	0.0846	0.12	---
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.00265 U	<0.00256 U	0.556	<0.00772 U	<0.00249 U	---
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-11 DUP 03112014(.5-.5)	SB-12 03112014(.5-.5)	SB-12 03112014(2-2)	SB-13 03112014(.5-.5)	SB-13 03112014(2.5-2.5)	SB-14 03112014(.5-.5)
												Sample Location	SB-11	SB-12	SB-12	SB-13	SB-13	SB-14
												Sample ID	SB-11 DUP 03112014(.5-.5)	SB-12 03112014(.5-.5)	SB-12 03112014(2-2)	SB-13 03112014(.5-.5)	SB-13 03112014(2.5-2.5)	SB-14 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	0.5	2	0.5	2.5	0.5
												Bottom Depth (ft bags)	0.5	0.5	2	0.5	2.5	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.0233	0.0675	0.918	0.606	0.628	<0.0265 U
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.0528	0.0537	1.14	0.141	0.172	---
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-14 03112014(2-2)	SB-14 09302014(.5-.5)	SB-14 09302014(2-2)	SB-14-R 09302014(2-2)	SB-15 03112014(.5-.5)	SB-15 03112014(2-2)
												Sample Location	SB-14	SB-14	SB-14	SB-14	SB-15	SB-15
												Sample ID	SB-14 03112014(2-2)	SB-14 09302014(.5-.5)	SB-14 09302014(2-2)	SB-14-R 09302014(2-2)	SB-15 03112014(.5-.5)	SB-15 03112014(2-2)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	0.5	2	2	0.5	2
												Bottom Depth (ft bags)	2	0.5	2	2	0.5	2
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	---	---	11.7	3.49	---	---
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	---	---	208	63.2	---	---
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-14 03112014(2-2)	SB-14 09302014(.5-.5)	SB-14 09302014(2-2)	SB-14-R 09302014(2-2)	SB-15 03112014(.5-.5)	SB-15 03112014(2-2)
												Sample Location	SB-14	SB-14	SB-14	SB-14	SB-15	SB-15
												Sample ID	SB-14 03112014(2-2)	SB-14 09302014(.5-.5)	SB-14 09302014(2-2)	SB-14-R 09302014(2-2)	SB-15 03112014(.5-.5)	SB-15 03112014(2-2)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	0.5	2	2	0.5	2
												Bottom Depth (ft bags)	2	0.5	2	2	0.5	2
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-14 03112014(2-2)	SB-14 09302014(.5-.5)	SB-14 09302014(2-2)	SB-14-R 09302014(2-2)	SB-15 03112014(.5-.5)	SB-15 03112014(2-2)
												Sample Location	SB-14	SB-14	SB-14	SB-14	SB-15	SB-15
												Sample ID	SB-14 03112014(2-2)	SB-14 09302014(.5-.5)	SB-14 09302014(2-2)	SB-14-R 09302014(2-2)	SB-15 03112014(.5-.5)	SB-15 03112014(2-2)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	0.5	2	2	0.5	2
												Bottom Depth (ft bags)	2	0.5	2	2	0.5	2
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-14 03112014(2-2)	SB-14 09302014(.5-.5)	SB-14 09302014(2-2)	SB-14-R 09302014(2-2)	SB-15 03112014(.5-.5)	SB-15 03112014(2-2)
												Sample Location	SB-14	SB-14	SB-14	SB-14	SB-15	SB-15
												Sample ID	SB-14 03112014(2-2)	SB-14 09302014(.5-.5)	SB-14 09302014(2-2)	SB-14-R 09302014(2-2)	SB-15 03112014(.5-.5)	SB-15 03112014(2-2)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	0.5	2	2	0.5	2
												Bottom Depth (ft bags)	2	0.5	2	2	0.5	2
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	<0.0723 U	<0.0691 U	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-14 03112014(2-2)	SB-14 09302014(.5-.5)	SB-14 09302014(2-2)	SB-14-R 09302014(2-2)	SB-15 03112014(.5-.5)	SB-15 03112014(2-2)
												Sample Location	SB-14	SB-14	SB-14	SB-14	SB-15	SB-15
												Sample ID	SB-14 03112014(2-2)	SB-14 09302014(.5-.5)	SB-14 09302014(2-2)	SB-14-R 09302014(2-2)	SB-15 03112014(.5-.5)	SB-15 03112014(2-2)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	0.5	2	2	0.5	2
												Bottom Depth (ft bags)	2	0.5	2	2	0.5	2
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	---	<0.0248 U	<0.0237 U	---	---	---
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	---	<0.0236 U	<0.0226 U	---	---	---
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	---	<0.0221 U	<0.0211 U	---	---	---
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	<0.0225 U	<0.0215 U	---	---	---
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	---	<0.0275 U	<0.0263 U	---	---	---
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	<0.0201 U	<0.0192 U	---	---	---
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	---	<0.0246 U	<0.0235 U	---	---	---
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	<0.0310 U	<0.0296 U	---	---	---
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-14 03112014(2-2)	SB-14 09302014(.5-.5)	SB-14 09302014(2-2)	SB-14-R 09302014(2-2)	SB-15 03112014(.5-.5)	SB-15 03112014(2-2)
												Sample Location	SB-14	SB-14	SB-14	SB-14	SB-15	SB-15
												Sample ID	SB-14 03112014(2-2)	SB-14 09302014(.5-.5)	SB-14 09302014(2-2)	SB-14-R 09302014(2-2)	SB-15 03112014(.5-.5)	SB-15 03112014(2-2)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	0.5	2	2	0.5	2
												Bottom Depth (ft bags)	2	0.5	2	2	0.5	2
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	0.159 J	0.140 J	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	---	<0.0264 U	<0.0253 U	---	---	---
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	---	<0.0203 U	<0.0194 U	---	---	---
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	<0.0247 U	<0.0236 U	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	<0.0245 U	<0.0234 U	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	<0.0257 U	<0.0245 U	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	<0.0235 U	<0.0224 U	---	---	---
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	<0.0221 U	<0.0211 U	---	---	---
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	<0.0215 U	<0.0205 U	---	---	---
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	<0.0250 U	<0.0239 U	---	---	---
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-14 03112014(2-2)	SB-14 09302014(.5-.5)	SB-14 09302014(2-2)	SB-14-R 09302014(2-2)	SB-15 03112014(.5-.5)	SB-15 03112014(2-2)
												Sample Location	SB-14	SB-14	SB-14	SB-14	SB-15	SB-15
												Sample ID	SB-14 03112014(2-2)	SB-14 09302014(.5-.5)	SB-14 09302014(2-2)	SB-14-R 09302014(2-2)	SB-15 03112014(.5-.5)	SB-15 03112014(2-2)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	0.5	2	2	0.5	2
												Bottom Depth (ft bags)	2	0.5	2	2	0.5	2
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	<0.0253 U	---	---	---	0.287 J	11.7
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	<0.0234 U	<0.0223 U	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-15 03112014(4-4)	SB-15 09302014(.5-.5)	SB-15 09302014(2-2)	SB-15 09302014(4-4)	SB-15-R 09302014(2-2)	SB-16 03112014(.5-.5)
												Sample Location	SB-15	SB-15	SB-15	SB-15	SB-15	SB-16
												Sample ID	SB-15 03112014(4-4)	SB-15 09302014(.5-.5)	SB-15 09302014(2-2)	SB-15 09302014(4-4)	SB-15-R 09302014(2-2)	SB-16 03112014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	4	0.5	2	4	2	0.5
												Bottom Depth (ft bags)	4	0.5	2	4	2	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	---	4.6	5.56	---	---	---
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	---	485	**790**	---	**687**	---
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-15 03112014(4-4)	SB-15 09302014(.5-.5)	SB-15 09302014(2-2)	SB-15 09302014(4-4)	SB-15-R 09302014(2-2)	SB-16 03112014(.5-.5)
												Sample Location	SB-15	SB-15	SB-15	SB-15	SB-15	SB-16
												Sample ID	SB-15 03112014(4-4)	SB-15 09302014(.5-.5)	SB-15 09302014(2-2)	SB-15 09302014(4-4)	SB-15-R 09302014(2-2)	SB-16 03112014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	4	0.5	2	4	2	0.5
												Bottom Depth (ft bags)	4	0.5	2	4	2	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-15 03112014(4-4)	SB-15 09302014(.5-.5)	SB-15 09302014(2-2)	SB-15 09302014(4-4)	SB-15-R 09302014(2-2)	SB-16 03112014(.5-.5)
												Sample Location	SB-15	SB-15	SB-15	SB-15	SB-15	SB-16
												Sample ID	SB-15 03112014(4-4)	SB-15 09302014(.5-.5)	SB-15 09302014(2-2)	SB-15 09302014(4-4)	SB-15-R 09302014(2-2)	SB-16 03112014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	4	0.5	2	4	2	0.5
												Bottom Depth (ft bags)	4	0.5	2	4	2	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-15 03112014(4-4)	SB-15 09302014(.5-.5)	SB-15 09302014(2-2)	SB-15 09302014(4-4)	SB-15-R 09302014(2-2)	SB-16 03112014(.5-.5)
												Sample Location	SB-15	SB-15	SB-15	SB-15	SB-15	SB-16
												Sample ID	SB-15 03112014(4-4)	SB-15 09302014(.5-.5)	SB-15 09302014(2-2)	SB-15 09302014(4-4)	SB-15-R 09302014(2-2)	SB-16 03112014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	4	0.5	2	4	2	0.5
												Bottom Depth (ft bags)	4	0.5	2	4	2	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	<0.243 U	<0.272 U	<0.635 U	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-15 03112014(4-4)	SB-15 09302014(.5-.5)	SB-15 09302014(2-2)	SB-15 09302014(4-4)	SB-15-R 09302014(2-2)	SB-16 03112014(.5-.5)
												Sample Location	SB-15	SB-15	SB-15	SB-15	SB-15	SB-16
												Sample ID	SB-15 03112014(4-4)	SB-15 09302014(.5-.5)	SB-15 09302014(2-2)	SB-15 09302014(4-4)	SB-15-R 09302014(2-2)	SB-16 03112014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	4	0.5	2	4	2	0.5
												Bottom Depth (ft bags)	4	0.5	2	4	2	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	---	<0.0833 U	0.655 J	<0.218 U	---	---
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	---	<0.0794 U	0.609 J	<0.208 U	---	---
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	---	<0.0742 U	1.83	0.230 J	---	---
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	0.288 J	5.53	0.862 J	---	---
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	---	0.301 J	**5.22**	0.741 J	---	---
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	0.412 J	7.08	1.02 J	---	---
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	---	0.303 J	3.61	0.731 J	---	---
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	0.154 J	2.52	0.427 J	---	---
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-15 03112014(4-4)	SB-15 09302014(.5-.5)	SB-15 09302014(2-2)	SB-15 09302014(4-4)	SB-15-R 09302014(2-2)	SB-16 03112014(.5-.5)
												Sample Location	SB-15	SB-15	SB-15	SB-15	SB-15	SB-16
												Sample ID	SB-15 03112014(4-4)	SB-15 09302014(.5-.5)	SB-15 09302014(2-2)	SB-15 09302014(4-4)	SB-15-R 09302014(2-2)	SB-16 03112014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	4	0.5	2	4	2	0.5
												Bottom Depth (ft bags)	4	0.5	2	4	2	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	0.140 J	<0.0892 U	0.403 J	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	---	0.324 J	6.47	0.928 J	---	---
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	---	<0.0682 U	0.346 J	<0.178 U	---	---
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	<0.0830 U	0.665 J	<0.217 U	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	<0.0822 U	<0.0922 U	<0.215 U	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	<0.0862 U	<0.0967 U	<0.226 U	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	0.518 J	13	1.80 J	---	---
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	<0.0743 U	0.523 J	<0.195 U	---	---
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	0.199 J	3.19	0.576 J	---	---
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	<0.0839 U	0.352 J	<0.220 U	---	---
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-15 03112014(4-4)	SB-15 09302014(.5-.5)	SB-15 09302014(2-2)	SB-15 09302014(4-4)	SB-15-R 09302014(2-2)	SB-16 03112014(.5-.5)
												Sample Location	SB-15	SB-15	SB-15	SB-15	SB-15	SB-16
												Sample ID	SB-15 03112014(4-4)	SB-15 09302014(.5-.5)	SB-15 09302014(2-2)	SB-15 09302014(4-4)	SB-15-R 09302014(2-2)	SB-16 03112014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	4	0.5	2	4	2	0.5
												Bottom Depth (ft bags)	4	0.5	2	4	2	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	1.25 J	---	---	---	---	4.51
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	0.509 J	12.4	1.65 J	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-16 03112014(2-2)	SB-16 03112014(4-4)	SB-16 09302014(.5-.5)	SB-16 09302014(2-2)	SB-16 09302014(4-4)	SB-17 03112014(.5-.5)
												Sample Location	SB-16	SB-16	SB-16	SB-16	SB-16	SB-17
												Sample ID	SB-16 03112014(2-2)	SB-16 03112014(4-4)	SB-16 09302014(.5-.5)	SB-16 09302014(2-2)	SB-16 09302014(4-4)	SB-17 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	2	4	0.5	2	4	0.5
												Bottom Depth (ft bags)	2	4	0.5	2	4	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	---	---	6.67	6.61	---	---
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	---	---	**637**	**766**	464	---
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-16 03112014(2-2)	SB-16 03112014(4-4)	SB-16 09302014(.5-.5)	SB-16 09302014(2-2)	SB-16 09302014(4-4)	SB-17 03112014(.5-.5)
												Sample Location	SB-16	SB-16	SB-16	SB-16	SB-16	SB-17
												Sample ID	SB-16 03112014(2-2)	SB-16 03112014(4-4)	SB-16 09302014(.5-.5)	SB-16 09302014(2-2)	SB-16 09302014(4-4)	SB-17 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	2	4	0.5	2	4	0.5
												Bottom Depth (ft bags)	2	4	0.5	2	4	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-16 03112014(2-2)	SB-16 03112014(4-4)	SB-16 09302014(.5-.5)	SB-16 09302014(2-2)	SB-16 09302014(4-4)	SB-17 03112014(.5-.5)
												Sample Location	SB-16	SB-16	SB-16	SB-16	SB-16	SB-17
												Sample ID	SB-16 03112014(2-2)	SB-16 03112014(4-4)	SB-16 09302014(.5-.5)	SB-16 09302014(2-2)	SB-16 09302014(4-4)	SB-17 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	2	4	0.5	2	4	0.5
												Bottom Depth (ft bags)	2	4	0.5	2	4	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-16 03112014(2-2)	SB-16 03112014(4-4)	SB-16 09302014(.5-.5)	SB-16 09302014(2-2)	SB-16 09302014(4-4)	SB-17 03112014(.5-.5)
												Sample Location	SB-16	SB-16	SB-16	SB-16	SB-16	SB-17
												Sample ID	SB-16 03112014(2-2)	SB-16 03112014(4-4)	SB-16 09302014(.5-.5)	SB-16 09302014(2-2)	SB-16 09302014(4-4)	SB-17 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	2	4	0.5	2	4	0.5
												Bottom Depth (ft bags)	2	4	0.5	2	4	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	<0.260 U	<0.256 U	<0.537 U	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-16 03112014(2-2)	SB-16 03112014(4-4)	SB-16 09302014(.5-.5)	SB-16 09302014(2-2)	SB-16 09302014(4-4)	SB-17 03112014(.5-.5)
												Sample Location	SB-16	SB-16	SB-16	SB-16	SB-16	SB-17
												Sample ID	SB-16 03112014(2-2)	SB-16 03112014(4-4)	SB-16 09302014(.5-.5)	SB-16 09302014(2-2)	SB-16 09302014(4-4)	SB-17 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	2	4	0.5	2	4	0.5
												Bottom Depth (ft bags)	2	4	0.5	2	4	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	---	---	0.274 J	0.210 J	<0.184 U	---
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	---	---	0.446 J	0.501 J	<0.176 U	---
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	---	---	0.741 J	1.63	<0.164 U	---
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	2.58	14.6	0.384 J	---
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	---	---	2.61	**14.9**	0.373 J	---
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	3.55	19.1	0.480 J	---
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	---	---	2.19	10.7	0.361 J	---
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	1.18	7.11	<0.230 U	---
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-16 03112014(2-2)	SB-16 03112014(4-4)	SB-16 09302014(.5-.5)	SB-16 09302014(2-2)	SB-16 09302014(4-4)	SB-17 03112014(.5-.5)
												Sample Location	SB-16	SB-16	SB-16	SB-16	SB-16	SB-17
												Sample ID	SB-16 03112014(2-2)	SB-16 03112014(4-4)	SB-16 09302014(.5-.5)	SB-16 09302014(2-2)	SB-16 09302014(4-4)	SB-17 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	2	4	0.5	2	4	0.5
												Bottom Depth (ft bags)	2	4	0.5	2	4	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	<0.0805 U	0.452 J	0.840 J	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	---	---	2.99	14.9	0.416 J	---
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	---	---	0.190 J	1.24	<0.151 U	---
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	---	0.239 J	0.146 J	<0.184 U	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	<0.0879 U	<0.0868 U	<0.191 U	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	<0.0921 U	<0.0911 U	<0.191 U	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	---	6.36	18.9	0.717 J	---
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	---	0.249 J	0.184 J	<0.165 U	---
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	1.75	9.75	0.285 J	---
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	0.339 J	0.178 J	<0.186 U	---
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-16 03112014(2-2)	SB-16 03112014(4-4)	SB-16 09302014(.5-.5)	SB-16 09302014(2-2)	SB-16 09302014(4-4)	SB-17 03112014(.5-.5)
												Sample Location	SB-16	SB-16	SB-16	SB-16	SB-16	SB-17
												Sample ID	SB-16 03112014(2-2)	SB-16 03112014(4-4)	SB-16 09302014(.5-.5)	SB-16 09302014(2-2)	SB-16 09302014(4-4)	SB-17 03112014(.5-.5)
												Sample Date	3/11/2014	3/11/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	2	4	0.5	2	4	0.5
												Bottom Depth (ft bags)	2	4	0.5	2	4	0.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	5.37	0.369 J	---	---	---	0.123 J
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	---	5.48	18.8	0.690 J	---
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-17 03112014(2-2)	SB-17 09302014(.5-.5)	SB-17 09302014(2-2)	SB-18 09302014(.5-.5)	SB-18 09302014(2-2)	SB-19 09302014(.5-.5)
												Sample Location	SB-17	SB-17	SB-17	SB-18	SB-18	SB-19
												Sample ID	SB-17 03112014(2-2)	SB-17 09302014(.5-.5)	SB-17 09302014(2-2)	SB-18 09302014(.5-.5)	SB-18 09302014(2-2)	SB-19 09302014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Location Type	Res	Res	Res	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	---	---	---	---	---	7.31
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	---	142	125	7.68	129	147
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	0.172
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-17 03112014(2-2)	SB-17 09302014(.5-.5)	SB-17 09302014(2-2)	SB-18 09302014(.5-.5)	SB-18 09302014(2-2)	SB-19 09302014(.5-.5)
												Sample Location	SB-17	SB-17	SB-17	SB-18	SB-18	SB-19
												Sample ID	SB-17 03112014(2-2)	SB-17 09302014(.5-.5)	SB-17 09302014(2-2)	SB-18 09302014(.5-.5)	SB-18 09302014(2-2)	SB-19 09302014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Location Type	Res	Res	Res	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-17 03112014(2-2)	SB-17 09302014(.5-.5)	SB-17 09302014(2-2)	SB-18 09302014(.5-.5)	SB-18 09302014(2-2)	SB-19 09302014(.5-.5)
												Sample Location	SB-17	SB-17	SB-17	SB-18	SB-18	SB-19
												Sample ID	SB-17 03112014(2-2)	SB-17 09302014(.5-.5)	SB-17 09302014(2-2)	SB-18 09302014(.5-.5)	SB-18 09302014(2-2)	SB-19 09302014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Location Type	Res	Res	Res	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-17 03112014(2-2)	SB-17 09302014(.5-.5)	SB-17 09302014(2-2)	SB-18 09302014(.5-.5)	SB-18 09302014(2-2)	SB-19 09302014(.5-.5)
												Sample Location	SB-17	SB-17	SB-17	SB-18	SB-18	SB-19
												Sample ID	SB-17 03112014(2-2)	SB-17 09302014(.5-.5)	SB-17 09302014(2-2)	SB-18 09302014(.5-.5)	SB-18 09302014(2-2)	SB-19 09302014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Location Type	Res	Res	Res	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	<0.0541 U	<0.0604 U	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-17 03112014(2-2)	SB-17 09302014(.5-.5)	SB-17 09302014(2-2)	SB-18 09302014(.5-.5)	SB-18 09302014(2-2)	SB-19 09302014(.5-.5)
												Sample Location	SB-17	SB-17	SB-17	SB-18	SB-18	SB-19
												Sample ID	SB-17 03112014(2-2)	SB-17 09302014(.5-.5)	SB-17 09302014(2-2)	SB-18 09302014(.5-.5)	SB-18 09302014(2-2)	SB-19 09302014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Location Type	Res	Res	Res	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	---	<0.0186 U	<0.0207 U	---	---	---
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	---	<0.0177 U	<0.0198 U	---	---	---
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	---	0.0299 J	0.0504 J	---	---	---
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	0.114 J	0.266	---	---	---
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	---	0.115 J	0.229	---	---	---
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	0.164 J	0.318	---	---	---
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	---	0.123 J	0.173 J	---	---	---
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	0.0547 J	0.129 J	---	---	---
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-17 03112014(2-2)	SB-17 09302014(.5-.5)	SB-17 09302014(2-2)	SB-18 09302014(.5-.5)	SB-18 09302014(2-2)	SB-19 09302014(.5-.5)
												Sample Location	SB-17	SB-17	SB-17	SB-18	SB-18	SB-19
												Sample ID	SB-17 03112014(2-2)	SB-17 09302014(.5-.5)	SB-17 09302014(2-2)	SB-18 09302014(.5-.5)	SB-18 09302014(2-2)	SB-19 09302014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Location Type	Res	Res	Res	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	0.144 J	0.881	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	---	0.121 J	0.289	---	---	---
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	---	<0.0152 U	<0.0170 U	---	---	---
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	<0.0185 U	<0.0207 U	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	<0.0183 U	<0.0205 U	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	<0.0192 U	<0.0215 U	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	0.215	0.335	---	---	---
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	<0.0166 U	<0.0185 U	---	---	---
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	0.0926 J	0.143 J	---	---	---
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	<0.0187 U	<0.0209 U	---	---	---
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-17 03112014(2-2)	SB-17 09302014(.5-.5)	SB-17 09302014(2-2)	SB-18 09302014(.5-.5)	SB-18 09302014(2-2)	SB-19 09302014(.5-.5)
												Sample Location	SB-17	SB-17	SB-17	SB-18	SB-18	SB-19
												Sample ID	SB-17 03112014(2-2)	SB-17 09302014(.5-.5)	SB-17 09302014(2-2)	SB-18 09302014(.5-.5)	SB-18 09302014(2-2)	SB-19 09302014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Location Type	Res	Res	Res	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.222 J	---	---	---	---	---
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	0.186 J	0.3	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-19 09302014(2-2)	SB-2 03112014(.5-.5)	SB-2 03112014(2-2)	SB-20 03112014(.5-.5)	SB-20 03112014(2-2)	SB-20 03112014(4-4)
												Sample Location	SB-19	SB-2	SB-2	SB-20	SB-20	SB-20
												Sample ID	SB-19 09302014(2-2)	SB-2 03112014(.5-.5)	SB-2 03112014(2-2)	SB-20 03112014(.5-.5)	SB-20 03112014(2-2)	SB-20 03112014(4-4)
												Sample Date	9/30/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	4
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	14.4	21	64.9	---	---	---
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	---	1080	2420	---	---	---
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	---	8.36	9.66	---	---	---
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	---	70.4	131	---	---	---
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	360	**2060**	**2420**	---	---	---
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.355	**5.5**	0.699	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	---	<0.878 U	<0.987 U	---	---	---
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	---	11.4	10.7	---	---	---
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	0.0192	0.412	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	0.0332	0.176	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	0.0244	0.00340 J	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	<0.00128 U	<0.00144 U	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	<0.00240 U	<0.00270 U	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	0.0807	<0.00226 U	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	<0.00167 U	<0.00188 U	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	<0.0843 U	<0.0949 U	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	<0.00120 U	<0.00135 U	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	<0.000712 U	<0.000801 U	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	<0.000972 U	<0.00109 U	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	<0.00103 U	<0.00115 U	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	<0.000872 U	<0.000982 U	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	<0.00127 U	<0.00143 U	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	<0.00155 U	<0.00174 U	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	0.123	<0.00303 U	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	<0.000863 U	<0.000972 U	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-19 09302014(2-2)	SB-2 03112014(.5-.5)	SB-2 03112014(2-2)	SB-20 03112014(.5-.5)	SB-20 03112014(2-2)	SB-20 03112014(4-4)
												Sample Location	SB-19	SB-2	SB-2	SB-20	SB-20	SB-20
												Sample ID	SB-19 09302014(2-2)	SB-2 03112014(.5-.5)	SB-2 03112014(2-2)	SB-20 03112014(.5-.5)	SB-20 03112014(2-2)	SB-20 03112014(4-4)
												Sample Date	9/30/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	4
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-19 09302014(2-2)	SB-2 03112014(.5-.5)	SB-2 03112014(2-2)	SB-20 03112014(.5-.5)	SB-20 03112014(2-2)	SB-20 03112014(4-4)
												Sample Location	SB-19	SB-2	SB-2	SB-20	SB-20	SB-20
												Sample ID	SB-19 09302014(2-2)	SB-2 03112014(.5-.5)	SB-2 03112014(2-2)	SB-20 03112014(.5-.5)	SB-20 03112014(2-2)	SB-20 03112014(4-4)
												Sample Date	9/30/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	4
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-19 09302014(2-2)	SB-2 03112014(.5-.5)	SB-2 03112014(2-2)	SB-20 03112014(.5-.5)	SB-20 03112014(2-2)	SB-20 03112014(4-4)
												Sample Location	SB-19	SB-2	SB-2	SB-20	SB-20	SB-20
												Sample ID	SB-19 09302014(2-2)	SB-2 03112014(.5-.5)	SB-2 03112014(2-2)	SB-20 03112014(.5-.5)	SB-20 03112014(2-2)	SB-20 03112014(4-4)
												Sample Date	9/30/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	4
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-19 09302014(2-2)	SB-2 03112014(.5-.5)	SB-2 03112014(2-2)	SB-20 03112014(.5-.5)	SB-20 03112014(2-2)	SB-20 03112014(4-4)
												Sample Location	SB-19	SB-2	SB-2	SB-20	SB-20	SB-20
												Sample ID	SB-19 09302014(2-2)	SB-2 03112014(.5-.5)	SB-2 03112014(2-2)	SB-20 03112014(.5-.5)	SB-20 03112014(2-2)	SB-20 03112014(4-4)
												Sample Date	9/30/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	4
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	---	<0.00270 U	0.0855	---	---	---
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	---	<0.00165 U	0.26	---	---	---
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	---	0.119	0.443	---	---	---
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	0.424	1.48	---	---	---
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	---	0.415	1.39	---	---	---
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	0.606	1.85	---	---	---
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	---	0.293	0.733	---	---	---
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	0.274	0.762	---	---	---
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-19 09302014(2-2)	SB-2 03112014(.5-.5)	SB-2 03112014(2-2)	SB-20 03112014(.5-.5)	SB-20 03112014(2-2)	SB-20 03112014(4-4)
												Sample Location	SB-19	SB-2	SB-2	SB-20	SB-20	SB-20
												Sample ID	SB-19 09302014(2-2)	SB-2 03112014(.5-.5)	SB-2 03112014(2-2)	SB-20 03112014(.5-.5)	SB-20 03112014(2-2)	SB-20 03112014(4-4)
												Sample Date	9/30/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	4
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	---	0.474	1.35	---	---	---
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	---	<0.00236 U	<0.00265 U	---	---	---
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	<0.00236 U	<0.00266 U	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	1.03	3.46	---	---	---
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	<0.00163 U	0.107	---	---	---
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	0.256	0.724	---	---	---
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	<0.00385 U	<0.00433 U	---	---	---
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-19 09302014(2-2)	SB-2 03112014(.5-.5)	SB-2 03112014(2-2)	SB-20 03112014(.5-.5)	SB-20 03112014(2-2)	SB-20 03112014(4-4)
												Sample Location	SB-19	SB-2	SB-2	SB-20	SB-20	SB-20
												Sample ID	SB-19 09302014(2-2)	SB-2 03112014(.5-.5)	SB-2 03112014(2-2)	SB-20 03112014(.5-.5)	SB-20 03112014(2-2)	SB-20 03112014(4-4)
												Sample Date	9/30/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	4
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	4
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	0.623	1.83	21.4	23.8	<0.0521 U
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	0.866	2.53	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-20 09302014(.5-.5)	SB-20 09302014(2-2)	SB-20 09302014(4-4)	SB-21 09302014(.5-.5)	SB-21 09302014(2-2)	SB-22 03112014(.5-.5)
												Sample Location	SB-20	SB-20	SB-20	SB-21	SB-21	SB-22
												Sample ID	SB-20 09302014(.5-.5)	SB-20 09302014(2-2)	SB-20 09302014(4-4)	SB-21 09302014(.5-.5)	SB-21 09302014(2-2)	SB-22 03112014(.5-.5)
												Sample Date	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	0.5	2	4	0.5	2	0.5
												Bottom Depth (ft bags)	0.5	2	4	0.5	2	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	---	---	---	3.26	3.88	---
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	217	176	---	79.9	43.4	---
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-20 09302014(.5-.5)	SB-20 09302014(2-2)	SB-20 09302014(4-4)	SB-21 09302014(.5-.5)	SB-21 09302014(2-2)	SB-22 03112014(.5-.5)
												Sample Location	SB-20	SB-20	SB-20	SB-21	SB-21	SB-22
												Sample ID	SB-20 09302014(.5-.5)	SB-20 09302014(2-2)	SB-20 09302014(4-4)	SB-21 09302014(.5-.5)	SB-21 09302014(2-2)	SB-22 03112014(.5-.5)
												Sample Date	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	0.5	2	4	0.5	2	0.5
												Bottom Depth (ft bags)	0.5	2	4	0.5	2	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-20 09302014(.5-.5)	SB-20 09302014(2-2)	SB-20 09302014(4-4)	SB-21 09302014(.5-.5)	SB-21 09302014(2-2)	SB-22 03112014(.5-.5)
												Sample Location	SB-20	SB-20	SB-20	SB-21	SB-21	SB-22
												Sample ID	SB-20 09302014(.5-.5)	SB-20 09302014(2-2)	SB-20 09302014(4-4)	SB-21 09302014(.5-.5)	SB-21 09302014(2-2)	SB-22 03112014(.5-.5)
												Sample Date	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	0.5	2	4	0.5	2	0.5
												Bottom Depth (ft bags)	0.5	2	4	0.5	2	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-20 09302014(.5-.5)	SB-20 09302014(2-2)	SB-20 09302014(4-4)	SB-21 09302014(.5-.5)	SB-21 09302014(2-2)	SB-22 03112014(.5-.5)
												Sample Location	SB-20	SB-20	SB-20	SB-21	SB-21	SB-22
												Sample ID	SB-20 09302014(.5-.5)	SB-20 09302014(2-2)	SB-20 09302014(4-4)	SB-21 09302014(.5-.5)	SB-21 09302014(2-2)	SB-22 03112014(.5-.5)
												Sample Date	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	0.5	2	4	0.5	2	0.5
												Bottom Depth (ft bags)	0.5	2	4	0.5	2	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	0.896 J	0.824 J	<0.142 U	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-20 09302014(.5-.5)	SB-20 09302014(2-2)	SB-20 09302014(4-4)	SB-21 09302014(.5-.5)	SB-21 09302014(2-2)	SB-22 03112014(.5-.5)
												Sample Location	SB-20	SB-20	SB-20	SB-21	SB-21	SB-22
												Sample ID	SB-20 09302014(.5-.5)	SB-20 09302014(2-2)	SB-20 09302014(4-4)	SB-21 09302014(.5-.5)	SB-21 09302014(2-2)	SB-22 03112014(.5-.5)
												Sample Date	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	0.5	2	4	0.5	2	0.5
												Bottom Depth (ft bags)	0.5	2	4	0.5	2	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	2.35	1.69	<0.0488 U	---	---	---
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	5.41	1.46	<0.0465 U	---	---	---
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	6.15	5.2	<0.0435 U	---	---	---
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	12.4	14.3	<0.0443 U	---	---	---
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	11.5	12.7	<0.0542 U	---	---	---
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	14.7	18.4	<0.0395 U	---	---	---
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	8.53	7.91	<0.0483 U	---	---	---
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	4.99	5.68	<0.0609 U	---	---	---
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-20 09302014(.5-.5)	SB-20 09302014(2-2)	SB-20 09302014(4-4)	SB-21 09302014(.5-.5)	SB-21 09302014(2-2)	SB-22 03112014(.5-.5)
												Sample Location	SB-20	SB-20	SB-20	SB-21	SB-21	SB-22
												Sample ID	SB-20 09302014(.5-.5)	SB-20 09302014(2-2)	SB-20 09302014(4-4)	SB-21 09302014(.5-.5)	SB-21 09302014(2-2)	SB-22 03112014(.5-.5)
												Sample Date	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	0.5	2	4	0.5	2	0.5
												Bottom Depth (ft bags)	0.5	2	4	0.5	2	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	<0.0848 U	<0.0856 U	0.252 J	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	11.9	14.7	<0.0520 U	---	---	---
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	0.902 J	0.957 J	<0.0399 U	---	---	---
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	1.64	1.1	<0.0486 U	---	---	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	<0.0877 U	<0.0886 U	<0.0481 U	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	<0.0919 U	<0.0929 U	<0.0505 U	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	24.4	30.3	<0.0462 U	---	---	---
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	2.4	1.49	<0.0435 U	---	---	---
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	7.29	7.11	<0.0423 U	---	---	---
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	2	1.24	0.171 J	---	---	---
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-20 09302014(.5-.5)	SB-20 09302014(2-2)	SB-20 09302014(4-4)	SB-21 09302014(.5-.5)	SB-21 09302014(2-2)	SB-22 03112014(.5-.5)
												Sample Location	SB-20	SB-20	SB-20	SB-21	SB-21	SB-22
												Sample ID	SB-20 09302014(.5-.5)	SB-20 09302014(2-2)	SB-20 09302014(4-4)	SB-21 09302014(.5-.5)	SB-21 09302014(2-2)	SB-22 03112014(.5-.5)
												Sample Date	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	3/11/2014
												Top Depth (ft bags)	0.5	2	4	0.5	2	0.5
												Bottom Depth (ft bags)	0.5	2	4	0.5	2	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	<0.0932 U
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	20.4	27.8	<0.0459 U	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-22 03112014(2-2)	SB-22 09302014(.5-.5)	SB-22 09302014(2-2)	SB-23 03112014(.5-.5)	SB-23 03112014(2-2)	SB-23 09302014(.5-.5)
												Sample Location	SB-22	SB-22	SB-22	SB-23	SB-23	SB-23
												Sample ID	SB-22 03112014(2-2)	SB-22 09302014(.5-.5)	SB-22 09302014(2-2)	SB-23 03112014(.5-.5)	SB-23 03112014(2-2)	SB-23 09302014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	3/11/2014	3/11/2014	9/30/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	---	2.08 J	1.44 J	---	---	**48.8**
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	---	47.8	258	---	---	**1670**
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-22 03112014(2-2)	SB-22 09302014(.5-.5)	SB-22 09302014(2-2)	SB-23 03112014(.5-.5)	SB-23 03112014(2-2)	SB-23 09302014(.5-.5)
												Sample Location	SB-22	SB-22	SB-22	SB-23	SB-23	SB-23
												Sample ID	SB-22 03112014(2-2)	SB-22 09302014(.5-.5)	SB-22 09302014(2-2)	SB-23 03112014(.5-.5)	SB-23 03112014(2-2)	SB-23 09302014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	3/11/2014	3/11/2014	9/30/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-22 03112014(2-2)	SB-22 09302014(.5-.5)	SB-22 09302014(2-2)	SB-23 03112014(.5-.5)	SB-23 03112014(2-2)	SB-23 09302014(.5-.5)
												Sample Location	SB-22	SB-22	SB-22	SB-23	SB-23	SB-23
												Sample ID	SB-22 03112014(2-2)	SB-22 09302014(.5-.5)	SB-22 09302014(2-2)	SB-23 03112014(.5-.5)	SB-23 03112014(2-2)	SB-23 09302014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	3/11/2014	3/11/2014	9/30/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-22 03112014(2-2)	SB-22 09302014(.5-.5)	SB-22 09302014(2-2)	SB-23 03112014(.5-.5)	SB-23 03112014(2-2)	SB-23 09302014(.5-.5)
												Sample Location	SB-22	SB-22	SB-22	SB-23	SB-23	SB-23
												Sample ID	SB-22 03112014(2-2)	SB-22 09302014(.5-.5)	SB-22 09302014(2-2)	SB-23 03112014(.5-.5)	SB-23 03112014(2-2)	SB-23 09302014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	3/11/2014	3/11/2014	9/30/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	<0.254 U	<0.254 U	---	---	<0.0541 U
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-22 03112014(2-2)	SB-22 09302014(.5-.5)	SB-22 09302014(2-2)	SB-23 03112014(.5-.5)	SB-23 03112014(2-2)	SB-23 09302014(.5-.5)
												Sample Location	SB-22	SB-22	SB-22	SB-23	SB-23	SB-23
												Sample ID	SB-22 03112014(2-2)	SB-22 09302014(.5-.5)	SB-22 09302014(2-2)	SB-23 03112014(.5-.5)	SB-23 03112014(2-2)	SB-23 09302014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	3/11/2014	3/11/2014	9/30/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	---	<0.0872 U	0.384 J	---	---	<0.0186 U
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	---	<0.0831 U	0.289 J	---	---	<0.0177 U
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	---	<0.0777 U	0.255 J	---	---	0.0379 J
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	<0.0791 U	0.637 J	---	---	0.168 J
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	---	<0.0968 U	0.716 J	---	---	0.162 J
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	0.0713 J	0.947	---	---	0.215
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	---	<0.0864 U	0.862 J	---	---	0.132 J
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	<0.109 U	0.283 J	---	---	0.0754 J
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-22 03112014(2-2)	SB-22 09302014(.5-.5)	SB-22 09302014(2-2)	SB-23 03112014(.5-.5)	SB-23 03112014(2-2)	SB-23 09302014(.5-.5)
												Sample Location	SB-22	SB-22	SB-22	SB-23	SB-23	SB-23
												Sample ID	SB-22 03112014(2-2)	SB-22 09302014(.5-.5)	SB-22 09302014(2-2)	SB-23 03112014(.5-.5)	SB-23 03112014(2-2)	SB-23 09302014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	3/11/2014	3/11/2014	9/30/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	<0.0832 U	<0.0832 U	---	---	0.224
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	---	<0.0930 U	0.667 J	---	---	0.170 J
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	---	<0.0714 U	<0.0714 U	---	---	<0.0152 U
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	---	<0.0869 U	<0.0869 U	---	---	<0.0185 U
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	<0.0860 U	<0.0860 U	---	---	<0.0183 U
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	<0.0902 U	<0.0902 U	---	---	<0.0192 U
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	<0.0826 U	1.03	---	---	0.322
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	---	<0.0778 U	<0.0778 U	---	---	<0.0166 U
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	<0.0756 U	0.480 J	---	---	0.107 J
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	<0.0879 U	<0.0879 U	---	---	<0.0187 U
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-22 03112014(2-2)	SB-22 09302014(.5-.5)	SB-22 09302014(2-2)	SB-23 03112014(.5-.5)	SB-23 03112014(2-2)	SB-23 09302014(.5-.5)
												Sample Location	SB-22	SB-22	SB-22	SB-23	SB-23	SB-23
												Sample ID	SB-22 03112014(2-2)	SB-22 09302014(.5-.5)	SB-22 09302014(2-2)	SB-23 03112014(.5-.5)	SB-23 03112014(2-2)	SB-23 09302014(.5-.5)
												Sample Date	3/11/2014	9/30/2014	9/30/2014	3/11/2014	3/11/2014	9/30/2014
												Top Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Bottom Depth (ft bags)	2	0.5	2	0.5	2	0.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.487 J	---	---	0.120 J	0.168 J	---
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	<0.0822 U	1.1	---	---	0.284
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-23 09302014(2-2)	SB-23 09302014(4-4)	SB-3 03112014(.5-.5)	SB-3 03112014(2.5-2.5)	SB-4 03112014(.5-.5)	SB-4 03112014(2.5-2.5)
												Sample Location	SB-23	SB-23	SB-3	SB-3	SB-4	SB-4
												Sample ID	SB-23 09302014(2-2)	SB-23 09302014(4-4)	SB-3 03112014(.5-.5)	SB-3 03112014(2.5-2.5)	SB-4 03112014(.5-.5)	SB-4 03112014(2.5-2.5)
												Sample Date	9/30/2014	9/30/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	4	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	2	4	0.5	2.5	0.5	2.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	**27.9**	---	2.35	17.4	13.7	4.18
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	---	---	126	667	391	202
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	---	---	0.522 J	3.28	2.84	0.963 J
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	---	---	8.55	41.4	15.1	19.2
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	**2730**	188	127	**1050**	355	**1320**
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	0.0876	0.284	0.131	0.0465
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	---	---	<0.542 U	<0.0652 U	<0.636 U	<0.696 U
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	---	---	0.185 J	8.96	2.10 J	0.322 J
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	---	---	<0.0178 U	<0.0202 U	<0.0108 U	<0.00431 U
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	0.00833 J	0.0198 J	<0.00325 U	0.00238 J
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	---	---	<0.00584 U	<0.00663 U	0.0102 J	<0.00142 U
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	---	---	<0.00835 U	<0.00948 U	<0.00509 U	<0.00202 U
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	---	---	<0.0157 U	<0.0178 U	<0.00954 U	<0.00380 U
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	---	---	<0.0131 U	<0.0149 U	<0.00800 U	<0.00318 U
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	---	---	<0.0109 U	<0.0124 U	<0.00664 U	<0.00264 U
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	---	---	<0.550 U	<0.625 U	<0.335 U	<0.133 U
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	---	---	<0.00782 U	<0.00888 U	<0.00477 U	<0.00190 U
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	---	---	<0.00465 U	<0.00528 U	<0.00283 U	<0.00113 U
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	---	---	<0.00635 U	<0.00721 U	<0.00387 U	<0.00154 U
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	---	---	<0.00670 U	<0.00760 U	<0.00408 U	<0.00162 U
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	<0.00569 U	<0.00646 U	<0.00347 U	<0.00138 U
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	---	---	<0.00831 U	<0.00943 U	<0.00506 U	<0.00201 U
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	---	---	<0.0101 U	<0.0115 U	<0.00615 U	<0.00245 U
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	---	---	<0.0176 U	<0.0200 U	<0.0107 U	<0.00426 U
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	---	---	<0.00564 U	<0.00640 U	<0.00343 U	<0.00137 U
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-23 09302014(2-2)	SB-23 09302014(4-4)	SB-3 03112014(.5-.5)	SB-3 03112014(2.5-2.5)	SB-4 03112014(.5-.5)	SB-4 03112014(2.5-2.5)
												Sample Location	SB-23	SB-23	SB-3	SB-3	SB-4	SB-4
												Sample ID	SB-23 09302014(2-2)	SB-23 09302014(4-4)	SB-3 03112014(.5-.5)	SB-3 03112014(2.5-2.5)	SB-4 03112014(.5-.5)	SB-4 03112014(2.5-2.5)
												Sample Date	9/30/2014	9/30/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	4	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	2	4	0.5	2.5	0.5	2.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-23 09302014(2-2)	SB-23 09302014(4-4)	SB-3 03112014(.5-.5)	SB-3 03112014(2.5-2.5)	SB-4 03112014(.5-.5)	SB-4 03112014(2.5-2.5)
												Sample Location	SB-23	SB-23	SB-3	SB-3	SB-4	SB-4
												Sample ID	SB-23 09302014(2-2)	SB-23 09302014(4-4)	SB-3 03112014(.5-.5)	SB-3 03112014(2.5-2.5)	SB-4 03112014(.5-.5)	SB-4 03112014(2.5-2.5)
												Sample Date	9/30/2014	9/30/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	4	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	2	4	0.5	2.5	0.5	2.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-23 09302014(2-2)	SB-23 09302014(4-4)	SB-3 03112014(.5-.5)	SB-3 03112014(2.5-2.5)	SB-4 03112014(.5-.5)	SB-4 03112014(2.5-2.5)
												Sample Location	SB-23	SB-23	SB-3	SB-3	SB-4	SB-4
												Sample ID	SB-23 09302014(2-2)	SB-23 09302014(4-4)	SB-3 03112014(.5-.5)	SB-3 03112014(2.5-2.5)	SB-4 03112014(.5-.5)	SB-4 03112014(2.5-2.5)
												Sample Date	9/30/2014	9/30/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	4	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	2	4	0.5	2.5	0.5	2.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	<0.0733 U	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-23 09302014(2-2)	SB-23 09302014(4-4)	SB-3 03112014(.5-.5)	SB-3 03112014(2.5-2.5)	SB-4 03112014(.5-.5)	SB-4 03112014(2.5-2.5)
												Sample Location	SB-23	SB-23	SB-3	SB-3	SB-4	SB-4
												Sample ID	SB-23 09302014(2-2)	SB-23 09302014(4-4)	SB-3 03112014(.5-.5)	SB-3 03112014(2.5-2.5)	SB-4 03112014(.5-.5)	SB-4 03112014(2.5-2.5)
												Sample Date	9/30/2014	9/30/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	4	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	2	4	0.5	2.5	0.5	2.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	<0.0251 U	---	<0.00530 U	<0.00200 U	0.0918	---
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	0.0449 J	---	<0.00324 U	<0.00122 U	<0.00131 U	---
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	0.0438 J	---	0.0465 J	0.107	0.166	---
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.184 J	---	0.231	0.233	0.419	---
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	0.202 J	---	0.239	0.325	0.422	---
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.265 J	---	0.388	0.394	0.547	---
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	0.174 J	---	0.2	0.251	0.242	---
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	0.0849 J	---	0.162	0.154	0.235	---
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-23 09302014(2-2)	SB-23 09302014(4-4)	SB-3 03112014(.5-.5)	SB-3 03112014(2.5-2.5)	SB-4 03112014(.5-.5)	SB-4 03112014(2.5-2.5)
												Sample Location	SB-23	SB-23	SB-3	SB-3	SB-4	SB-4
												Sample ID	SB-23 09302014(2-2)	SB-23 09302014(4-4)	SB-3 03112014(.5-.5)	SB-3 03112014(2.5-2.5)	SB-4 03112014(.5-.5)	SB-4 03112014(2.5-2.5)
												Sample Date	9/30/2014	9/30/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	4	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	2	4	0.5	2.5	0.5	2.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	0.325	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	0.203 J	---	0.285	0.28	0.404	---
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	<0.0206 U	---	<0.00463 U	<0.00175 U	0.347	---
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	<0.0250 U	---	<0.00464 U	<0.00175 U	0.0642	---
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	<0.0248 U	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	<0.0260 U	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.319	---	0.561	0.682	1.01	---
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	<0.0224 U	---	<0.00320 U	<0.00121 U	0.0609	---
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.142 J	---	0.165	0.207	0.234	---
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.0253 U	---	<0.00755 U	<0.00285 U	0.0327 J	---
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-23 09302014(2-2)	SB-23 09302014(4-4)	SB-3 03112014(.5-.5)	SB-3 03112014(2.5-2.5)	SB-4 03112014(.5-.5)	SB-4 03112014(2.5-2.5)
												Sample Location	SB-23	SB-23	SB-3	SB-3	SB-4	SB-4
												Sample ID	SB-23 09302014(2-2)	SB-23 09302014(4-4)	SB-3 03112014(.5-.5)	SB-3 03112014(2.5-2.5)	SB-4 03112014(.5-.5)	SB-4 03112014(2.5-2.5)
												Sample Date	9/30/2014	9/30/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	2	4	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	2	4	0.5	2.5	0.5	2.5
												Location Type	Res	Res	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	---	---	0.256	0.385	0.858	---
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.303	---	0.484	0.594	0.866	---
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-5 03112014(.5-.5)	SB-5 03112014(2.5-2.5)	SB-6 03112014(.5-.5)	SB-6 03112014(2.5-2.5)	SB-7 03112014(.5-.5)	SB-7 03112014(2.5-2.5)
												Sample Location	SB-5	SB-5	SB-6	SB-6	SB-7	SB-7
												Sample ID	SB-5 03112014(.5-.5)	SB-5 03112014(2.5-2.5)	SB-6 03112014(.5-.5)	SB-6 03112014(2.5-2.5)	SB-7 03112014(.5-.5)	SB-7 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	53.6	2.02 J	68.4	2.32	8.09	5.7
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	999	19	841	15.2	274	204
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	17.6	<0.269 U	14.7	0.412 J	1.78	0.953 J
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	75.7	4.66	422	4.2	13.6	10.7
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	**3200**	7.11	**26100**	65.6	394	143
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	1.33	0.00270 J	**13.4**	0.922	0.276	0.0658
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	<0.658 U	<0.559 U	2.39 J	<0.549 U	<0.554 U	<0.519 U
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	3.36	<0.127 U	2.55 J	<0.132 U	1.09 J	0.202 J
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	0.000834 J	<0.000184 U	<0.00415 U	0.000249 J	0.00459 J	<0.00366 U
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	0.00539	<0.0000550 U	0.00389 J	0.000511 J	0.0201	0.00588 J
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	0.00179	<0.0000600 U	0.00670 J	0.000475 J	0.00362 J	0.00449 J
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	<0.0000100 U	<0.0000860 U	<0.00195 U	<0.0000890 U	<0.00171 U	<0.00172 U
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	<0.000183 U	<0.000162 U	<0.00366 U	<0.000168 U	<0.00321 U	<0.00322 U
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	<0.000154 U	<0.000136 U	0.00679 J	0.00084	0.00333 J	0.00592 J
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	<0.000128 U	<0.000113 U	<0.00255 U	<0.000117 U	<0.00224 U	<0.00225 U
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	<0.00643 U	<0.00569 U	<0.129 U	<0.00589 U	<0.113 U	<0.113 U
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	<0.0000920 U	<0.0000810 U	<0.00183 U	<0.0000840 U	<0.00160 U	<0.00161 U
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	<0.0000540 U	<0.0000480 U	<0.00109 U	<0.0000500 U	<0.000952 U	<0.000957 U
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	<0.0000740 U	<0.0000660 U	<0.00149 U	<0.0000680 U	<0.00130 U	<0.00131 U
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	<0.0000780 U	<0.0000690 U	<0.00157 U	<0.000717 U	<0.00137 U	<0.00138 U
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	<0.0000670 U	<0.0000590 U	<0.00133 U	<0.000610 U	<0.00117 U	<0.00117 U
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	<0.0000970 U	<0.0000860 U	<0.00194 U	<0.0000890 U	<0.00170 U	<0.00171 U
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	<0.000118 U	<0.000104 U	<0.00236 U	<0.000108 U	<0.00207 U	<0.00208 U
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	<0.000206 U	<0.000182 U	0.00519 J	0.000682 J	<0.00360 U	<0.00362 U
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	<0.0000660 U	<0.0000580 U	<0.00132 U	0.0000970 J	<0.00116 U	<0.00116 U
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-5 03112014(.5-.5)	SB-5 03112014(2.5-2.5)	SB-6 03112014(.5-.5)	SB-6 03112014(2.5-2.5)	SB-7 03112014(.5-.5)	SB-7 03112014(2.5-2.5)
												Sample Location	SB-5	SB-5	SB-6	SB-6	SB-7	SB-7
												Sample ID	SB-5 03112014(.5-.5)	SB-5 03112014(2.5-2.5)	SB-6 03112014(.5-.5)	SB-6 03112014(2.5-2.5)	SB-7 03112014(.5-.5)	SB-7 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-5 03112014(.5-.5)	SB-5 03112014(2.5-2.5)	SB-6 03112014(.5-.5)	SB-6 03112014(2.5-2.5)	SB-7 03112014(.5-.5)	SB-7 03112014(2.5-2.5)
												Sample Location	SB-5	SB-5	SB-6	SB-6	SB-7	SB-7
												Sample ID	SB-5 03112014(.5-.5)	SB-5 03112014(2.5-2.5)	SB-6 03112014(.5-.5)	SB-6 03112014(2.5-2.5)	SB-7 03112014(.5-.5)	SB-7 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-5 03112014(.5-.5)	SB-5 03112014(2.5-2.5)	SB-6 03112014(.5-.5)	SB-6 03112014(2.5-2.5)	SB-7 03112014(.5-.5)	SB-7 03112014(2.5-2.5)
												Sample Location	SB-5	SB-5	SB-6	SB-6	SB-7	SB-7
												Sample ID	SB-5 03112014(.5-.5)	SB-5 03112014(2.5-2.5)	SB-6 03112014(.5-.5)	SB-6 03112014(2.5-2.5)	SB-7 03112014(.5-.5)	SB-7 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-5 03112014(.5-.5)	SB-5 03112014(2.5-2.5)	SB-6 03112014(.5-.5)	SB-6 03112014(2.5-2.5)	SB-7 03112014(.5-.5)	SB-7 03112014(2.5-2.5)
												Sample Location	SB-5	SB-5	SB-6	SB-6	SB-7	SB-7
												Sample ID	SB-5 03112014(.5-.5)	SB-5 03112014(2.5-2.5)	SB-6 03112014(.5-.5)	SB-6 03112014(2.5-2.5)	SB-7 03112014(.5-.5)	SB-7 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	<0.000206 U	---	<0.00206 U	<0.000189 U	<0.00181 U	0.00798
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	<0.000126 U	---	0.0479	<0.000115 U	<0.00110 U	0.00911
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	0.00185 J	---	0.115	0.0026	0.0374	0.0225
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.00813	---	0.457	0.0114	0.178	0.0582
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	0.00942	---	0.651	0.0221	0.23	0.0652
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	0.0176	---	0.776	0.0261	0.287	0.106
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	0.00947	---	0.603	0.0343	0.153	0.0473
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	0.0063	---	0.316	0.009	0.11	0.0453
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-5 03112014(.5-.5)	SB-5 03112014(2.5-2.5)	SB-6 03112014(.5-.5)	SB-6 03112014(2.5-2.5)	SB-7 03112014(.5-.5)	SB-7 03112014(2.5-2.5)
												Sample Location	SB-5	SB-5	SB-6	SB-6	SB-7	SB-7
												Sample ID	SB-5 03112014(.5-.5)	SB-5 03112014(2.5-2.5)	SB-6 03112014(.5-.5)	SB-6 03112014(2.5-2.5)	SB-7 03112014(.5-.5)	SB-7 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	0.0109	---	0.471	0.0134	0.203	0.073
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	<0.000180 U	---	0.0645	0.00268	<0.00158 U	<0.000159 U
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	<0.000180 U	---	<0.00180 U	<0.000165 U	<0.00158 U	0.0058
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	0.0171	---	0.943	0.0212	0.354	0.11
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	<0.000125 U	---	<0.00124 U	<0.000114 U	<0.00109 U	0.00614
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.00831	---	0.46	0.019	0.14	0.0467
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.000294 U	---	<0.00293 U	<0.000269 U	<0.00258 U	0.00538 J
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-5 03112014(.5-.5)	SB-5 03112014(2.5-2.5)	SB-6 03112014(.5-.5)	SB-6 03112014(2.5-2.5)	SB-7 03112014(.5-.5)	SB-7 03112014(2.5-2.5)
												Sample Location	SB-5	SB-5	SB-6	SB-6	SB-7	SB-7
												Sample ID	SB-5 03112014(.5-.5)	SB-5 03112014(2.5-2.5)	SB-6 03112014(.5-.5)	SB-6 03112014(2.5-2.5)	SB-7 03112014(.5-.5)	SB-7 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5	0.5	2.5
												Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units						
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.00702	---	0.432	0.00796	0.175	0.0895
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.0161	---	0.826	0.0191	0.322	0.0921
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---	---	---

												UNIT	SB-8 03112014(.5-.5)	SB-8 03112014(2.5-2.5)	SB-9 03112014(.5-.5)	SB-9 03112014(2.5-2.5)
												Sample Location	SB-8	SB-8	SB-9	SB-9
												Sample ID	SB-8 03112014(.5-.5)	SB-8 03112014(2.5-2.5)	SB-9 03112014(.5-.5)	SB-9 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5
												Location Type	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units				
9	SW6020/6020A	Antimony	15	res30_tot_soil_comb	310	ci30_tot_soil_comb	1.0	TX_BKGD	15	res30_tot_soil_comb	1	mg/kg	---	---	---	---
9	SW6020/6020A	Arsenic	24	res30_tot_soil_comb	200	ci30_tot_soil_comb	5.9	TX_BKGD	24	res30_tot_soil_comb	5.9	mg/kg	**64.6**	**41.5**	12.3	10.4
9	SW6020/6020A	Barium	8100	res30_tot_soil_comb	120000	ci30_tot_soil_comb	300	TX_BKGD	8100	res30_tot_soil_comb	300	mg/kg	817	923	615	144
9	SW6020/6020A	Beryllium	38	res30_tot_soil_comb	250	ci30_tot_soil_comb	1.5	TX_BKGD	38	res30_tot_soil_comb	1.5	mg/kg	---	---	---	---
9	SW6020/6020A	Cadmium	51	res30_tot_soil_comb	770	ci30_tot_soil_comb	---	---	51	res30_tot_soil_comb	---	mg/kg	4.25	4.1	12.3	1.69
9	SW6020/6020A	Chromium, total	27000	res30_tot_soil_comb	75000	ci30_tot_soil_comb	30	TX_BKGD	27000	res30_tot_soil_comb	30	mg/kg	65.9	<0.0810 U	21.2	14.1
9	SW6020/6020A	Lead	500	res30_tot_soil_comb	1600	ci30_tot_soil_comb	15	TX_BKGD	500	res30_tot_soil_comb	15	mg/kg	**2000**	**24200**	**832**	**2060**
9	SW6020/6020A	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	0.0668	0.072	1.22	0.37
9	SW6020/6020A	Nickel	840	res30_tot_soil_comb	8600	ci30_tot_soil_comb	10	TX_BKGD	840	res30_tot_soil_comb	10	mg/kg	---	---	---	---
9	SW6020/6020A	Selenium	310	res30_tot_soil_comb	4900	ci30_tot_soil_comb	0.30	TX_BKGD	310	res30_tot_soil_comb	0.3	mg/kg	<0.521 U	4.98	<0.636 U	<0.519 U
9	SW6020/6020A	Silver	97	res30_tot_soil_comb	2300	ci30_tot_soil_comb	---	---	97	res30_tot_soil_comb	---	mg/kg	5.03	10.4	1.92 J	0.354 J
9	SW7471B	Mercury	2.1	res30_tot_soil_comb	3.3	ci30_tot_soil_comb	3.3	ci30_air_soil_inhv	2.1	res30_tot_soil_comb	0.04	mg/kg	---	---	---	---
9	SW8081A	4,4'-DDD	14	res30_tot_soil_comb	100	ci30_tot_soil_comb	---	---	14	res30_tot_soil_comb	---	mg/kg	<0.00349 U	<0.00369 U	<0.0197 U	<0.0183 U
9	SW8081A	4,4'-DDE	10	res30_tot_soil_comb	73	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	<0.00105 U	<0.00111 U	0.0313 J	<0.00551 U
9	SW8081A	4,4'-DDT	5.4	res30_tot_soil_comb	68	ci30_tot_soil_comb	1000	ci30_air_soil_inhv	5.4	res30_tot_soil_comb	---	mg/kg	<0.00115 U	<0.00121 U	0.0125 J	<0.00603 U
9	SW8081A	Aldrin	0.050	res30_tot_soil_comb	0.97	ci30_tot_soil_comb	7.2	ci30_air_soil_inhv	0.050	res30_tot_soil_comb	---	mg/kg	<0.00164 U	<0.00174 U	<0.00928 U	<0.00862 U
9	SW8081A	alpha-BHC	0.25	res30_tot_soil_comb	2.9	ci30_tot_soil_comb	12	ci30_air_soil_inhv	0.25	res30_tot_soil_comb	---	mg/kg	<0.00307 U	<0.00325 U	<0.0174 U	<0.0162 U
9	SW8081A	alpha-Chlordane	13	res30_tot_soil_comb	54	ci30_tot_soil_comb	3500	ci30_air_soil_inhv	13	res30_tot_soil_comb	---	mg/kg	<0.00258 U	0.00729 J	0.0159 J	<0.0136 U
9	SW8081A	beta-BHC	0.92	res30_tot_soil_comb	11	ci30_tot_soil_comb	62	ci30_air_soil_inhv	0.92	res30_tot_soil_comb	---	mg/kg	<0.00214 U	<0.00227 U	<0.0121 U	<0.0113 U
9	SW8081A	Chlordane	5.9	res30_tot_soil_comb	64	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	5.9	res30_tot_soil_comb	---	mg/kg	<0.108 U	<0.114 U	<0.611 U	<0.568 U
9	SW8081A	delta-BHC	2.9	res30_tot_soil_comb	12	ci30_tot_soil_comb	88	ci30_air_soil_inhv	2.9	res30_tot_soil_comb	---	mg/kg	<0.00154 U	<0.00163 U	<0.00869 U	<0.00807 U
9	SW8081A	Endosulfan I	91	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	91	res30_tot_soil_comb	---	mg/kg	<0.000912 U	<0.000966 U	<0.00516 U	<0.00480 U
9	SW8081A	Endosulfan Sulfate	380	res30_tot_soil_comb	4100	ci30_tot_soil_comb	---	---	380	res30_tot_soil_comb	---	mg/kg	<0.00125 U	<0.00132 U	<0.00706 U	<0.00665 U
9	SW8081A	Endrin	9.0	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	9.0	res30_tot_soil_comb	---	mg/kg	<0.00131 U	<0.00139 U	<0.00744 U	<0.00691 U
9	SW8081A	Endrin Aldehyde	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	<0.00112 U	<0.00118 U	<0.00633 U	<0.00588 U
9	SW8081A	Endrin ketone	19	res30_tot_soil_comb	200	ci30_tot_soil_comb	---	---	19	res30_tot_soil_comb	---	mg/kg	<0.00163 U	<0.00173 U	<0.00923 U	<0.00857 U
9	SW8081A	gamma-BHC (Lindane)	1.1	res30_tot_soil_comb	18	ci30_tot_soil_comb	---	---	1.1	res30_tot_soil_comb	---	mg/kg	<0.00198 U	<0.00210 U	<0.0112 U	<0.0104 U
9	SW8081A	gamma-Chlordane	7.3	res30_tot_soil_comb	51	ci30_tot_soil_comb	840	ci30_air_soil_inhv	7.3	res30_tot_soil_comb	---	mg/kg	<0.00345 U	<0.00365 U	<0.0195 U	<0.0181 U
9	SW8081A	Heptachlor Epoxide	0.24	res30_tot_soil_comb	1.9	ci30_tot_soil_comb	21	ci30_air_soil_inhv	0.24	res30_tot_soil_comb	---	mg/kg	<0.00111 U	<0.00117 U	<0.00626 U	<0.00582 U
9	SW8082A	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8082A	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8082A	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---

												UNIT	SB-8 03112014(.5-.5)	SB-8 03112014(2.5-2.5)	SB-9 03112014(.5-.5)	SB-9 03112014(2.5-2.5)
												Sample Location	SB-8	SB-8	SB-9	SB-9
												Sample ID	SB-8 03112014(.5-.5)	SB-8 03112014(2.5-2.5)	SB-9 03112014(.5-.5)	SB-9 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5
												Location Type	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units				
9	SW8082A	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8082A	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8082A	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8082A	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	39	res30_tot_soil_comb	73	ci30_tot_soil_comb	78	ci30_air_soil_inhv	39	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,1,1-Trichloroethane	32000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	56000	ci30_air_soil_inhv	32000	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	30	res30_tot_soil_comb	140	ci30_tot_soil_comb	---	---	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res30_tot_soil_comb	19	ci30_tot_soil_comb	19	ci30_air_soil_inhv	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	39000	res30_tot_soil_comb	55000	ci30_tot_soil_comb	55000	ci30_air_soil_inhv	39000	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethane	8800	res30_tot_soil_comb	23000	ci30_tot_soil_comb	27000	ci30_air_soil_inhv	8800	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloroethene	1600	res30_tot_soil_comb	3500	ci30_tot_soil_comb	3800	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,1-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichlorobenzene	87	res30_tot_soil_comb	200	ci30_tot_soil_comb	220	ci30_air_soil_inhv	87	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,2,3-Trichloropropane	0.20	res30_tot_soil_comb	0.95	ci30_tot_soil_comb	10	ci30_air_soil_inhv	0.20	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trichlorobenzene	70	res30_tot_soil_comb	110	ci30_tot_soil_comb	110	ci30_air_soil_inhv	70	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,2,4-Trimethylbenzene	1200	res30_tot_soil_comb	2700	ci30_tot_soil_comb	2900	ci30_air_soil_inhv	1200	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res30_tot_soil_comb	0.14	ci30_tot_soil_comb	0.14	ci30_air_soil_inhv	0.080	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dibromoethane	0.43	res30_tot_soil_comb	0.79	ci30_tot_soil_comb	0.84	ci30_air_soil_inhv	0.43	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichlorobenzene	390	res30_tot_soil_comb	570	ci30_tot_soil_comb	570	ci30_air_soil_inhv	390	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloroethane	30	res30_tot_soil_comb	71	ci30_tot_soil_comb	91	ci30_air_soil_inhv	30	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,3,5-Trimethylbenzene	1100	res30_tot_soil_comb	2300	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichlorobenzene	62	res30_tot_soil_comb	88	ci30_tot_soil_comb	88	ci30_air_soil_inhv	62	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,3-Dichloropropane	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1,4-Dichlorobenzene	250	res30_tot_soil_comb	1200	ci30_tot_soil_comb	8500	ci30_air_soil_inhv	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	1-Chlorohexane	2300	res30_tot_soil_comb	8700	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2300	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	2,2-Dichloropropane	31	res30_tot_soil_comb	44	ci30_tot_soil_comb	44	ci30_air_soil_inhv	31	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	2-Butanone(MEK)	33000	res30_tot_soil_comb	120000	ci30_tot_soil_comb	150000	ci30_air_soil_inhv	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	2-Chlorotoluene	1100	res30_tot_soil_comb	5600	ci30_tot_soil_comb	9500	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---

												UNIT	SB-8 03112014(.5-.5)	SB-8 03112014(2.5-2.5)	SB-9 03112014(.5-.5)	SB-9 03112014(2.5-2.5)
												Sample Location	SB-8	SB-8	SB-9	SB-9
												Sample ID	SB-8 03112014(.5-.5)	SB-8 03112014(2.5-2.5)	SB-9 03112014(.5-.5)	SB-9 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5
												Location Type	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units				
9	SW8260/8260B/8260C	2-Hexanone	210	res30_tot_soil_comb	530	ci30_tot_soil_comb	590	ci30_air_soil_inhv	210	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	4-Chlorotoluene	1600	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	5400	res30_tot_soil_comb	28000	ci30_tot_soil_comb	42000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Acetone	59000	res30_tot_soil_comb	290000	ci30_tot_soil_comb	430000	ci30_air_soil_inhv	59000	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Benzene	69	res30_tot_soil_comb	130	ci30_tot_soil_comb	140	ci30_air_soil_inhv	69	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Bromobenzene	280	res30_tot_soil_comb	640	ci30_tot_soil_comb	700	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Bromochloromethane	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Bromodichloromethane	98	res30_tot_soil_comb	460	ci30_tot_soil_comb	---	---	98	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Bromoform	280	res30_tot_soil_comb	600	ci30_tot_soil_comb	720	ci30_air_soil_inhv	280	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Bromomethane	29	res30_tot_soil_comb	53	ci30_tot_soil_comb	55	ci30_air_soil_inhv	29	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Carbon disulfide	3300	res30_tot_soil_comb	7200	ci30_tot_soil_comb	7700	ci30_air_soil_inhv	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Carbon tetrachloride	23	res30_tot_soil_comb	46	ci30_tot_soil_comb	52	ci30_air_soil_inhv	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Chlorobenzene	320	res30_tot_soil_comb	540	ci30_tot_soil_comb	550	ci30_air_soil_inhv	320	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Chloroethane	23000	res30_tot_soil_comb	87000	ci30_tot_soil_comb	110000	ci30_air_soil_inhv	23000	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Chloroform	8.0	res30_tot_soil_comb	13	ci30_tot_soil_comb	13	ci30_air_soil_inhv	8.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Chloromethane	84	res30_tot_soil_comb	160	ci30_tot_soil_comb	170	ci30_air_soil_inhv	84	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	cis-1,2-Dichloroethene	120	res30_tot_soil_comb	500	ci30_tot_soil_comb	660	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	cis-1,3-Dichloropropene	7.8	res30_tot_soil_comb	53	ci30_tot_soil_comb	220	ci30_air_soil_inhv	7.8	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Cyclohexane	42000	res30_tot_soil_comb	65000	ci30_tot_soil_comb	66000	ci30_air_soil_inhv	42000	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Dibromochloromethane	72	res30_tot_soil_comb	340	ci30_tot_soil_comb	---	---	72	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Dibromomethane	42	res30_tot_soil_comb	59	ci30_tot_soil_comb	59	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Dichlorodifluoromethane	750	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1100	ci30_air_soil_inhv	750	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Ethylbenzene	5300	res30_tot_soil_comb	17000	ci30_tot_soil_comb	21000	ci30_air_soil_inhv	5300	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Isopropylbenzene	3000	res30_tot_soil_comb	6300	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	3000	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	m & p-Xylene	4700	res30_tot_soil_comb	6700	ci30_tot_soil_comb	6700	ci30_air_soil_inhv	4700	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Methyl acetate	82000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	82000	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Methyl t-butyl ether	590	res30_tot_soil_comb	1100	ci30_tot_soil_comb	1200	ci30_air_soil_inhv	590	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Methylcyclohexane	22000	res30_tot_soil_comb	33000	ci30_tot_soil_comb	33000	ci30_air_soil_inhv	22000	res30_tot_soil_comb	---	mg/kg	---	---	---	---

												UNIT	SB-8 03112014(.5-.5)	SB-8 03112014(2.5-2.5)	SB-9 03112014(.5-.5)	SB-9 03112014(2.5-2.5)
												Sample Location	SB-8	SB-8	SB-9	SB-9
												Sample ID	SB-8 03112014(.5-.5)	SB-8 03112014(2.5-2.5)	SB-9 03112014(.5-.5)	SB-9 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5
												Location Type	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units				
9	SW8260/8260B/8260C	Methylene chloride	1500	res30_tot_soil_comb	8600	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	1500	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	n-Butylbenzene	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	n-Propylbenzene	1600	res30_tot_soil_comb	4100	ci30_tot_soil_comb	4600	ci30_air_soil_inhv	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	o-Xylene	29000	res30_tot_soil_comb	48000	ci30_tot_soil_comb	49000	ci30_air_soil_inhv	29000	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	p-Isopropyltoluene	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	sec-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Styrene	4300	res30_tot_soil_comb	7800	ci30_tot_soil_comb	8100	ci30_air_soil_inhv	4300	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	tert-Butylbenzene	3300	res30_tot_soil_comb	41000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Tetrachloroethene	420	res30_tot_soil_comb	770	ci30_tot_soil_comb	810	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Toluene	5400	res30_tot_soil_comb	29000	ci30_tot_soil_comb	45000	ci30_air_soil_inhv	5400	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	trans-1,2-Dichloroethene	370	res30_tot_soil_comb	640	ci30_tot_soil_comb	660	ci30_air_soil_inhv	370	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	trans-1,3-Dichloropropene	26	res30_tot_soil_comb	61	ci30_tot_soil_comb	77	ci30_air_soil_inhv	26	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Trichloroethene	11	res30_tot_soil_comb	21	ci30_tot_soil_comb	22	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Trichlorofluoromethane	25000	res30_tot_soil_comb	310000	ci30_tot_soil_comb	---	---	25000	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8260/8260B/8260C	Vinyl chloride	3.4	res30_tot_soil_comb	13	ci30_tot_soil_comb	37	ci30_air_soil_inhv	3.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	2,4,5-Trichlorophenol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	2,4,6-Trichlorophenol	67	res30_tot_soil_comb	680	ci30_tot_soil_comb	1700	ci30_air_soil_inhv	67	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dichlorophenol	200	res30_tot_soil_comb	2000	ci30_tot_soil_comb	---	---	200	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dimethylphenol	1300	res30_tot_soil_comb	14000	ci30_tot_soil_comb	---	---	1300	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	2,4-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	2,6-Dinitrotoluene	6.9	res30_tot_soil_comb	28	ci30_tot_soil_comb	---	---	6.9	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	2-Chloronaphthalene	5000	res30_tot_soil_comb	50000	ci30_tot_soil_comb	---	---	5000	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	2-Chlorophenol	410	res30_tot_soil_comb	5100	ci30_tot_soil_comb	---	---	410	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	2-Methylnaphthalene	250	res30_tot_soil_comb	2500	ci30_tot_soil_comb	---	---	250	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	2-Methylphenol	3300	res30_tot_soil_comb	34000	ci30_tot_soil_comb	---	---	3300	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	2-Nitroaniline	11	res30_tot_soil_comb	29	ci30_tot_soil_comb	34	ci30_air_soil_inhv	11	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	2-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---

												UNIT	SB-8 03112014(.5-.5)	SB-8 03112014(2.5-2.5)	SB-9 03112014(.5-.5)	SB-9 03112014(2.5-2.5)
												Sample Location	SB-8	SB-8	SB-9	SB-9
												Sample ID	SB-8 03112014(.5-.5)	SB-8 03112014(2.5-2.5)	SB-9 03112014(.5-.5)	SB-9 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5
												Location Type	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units				
9	SW8270/8270C/8270D	3,3'-Dichlorobenzidine	10	res30_tot_soil_comb	42	ci30_tot_soil_comb	---	---	10	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	3-Nitroaniline	12	res30_tot_soil_comb	36	ci30_tot_soil_comb	43	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	6.7	res30_tot_soil_comb	68	ci30_tot_soil_comb	---	---	6.7	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.27	res30_tot_soil_comb	1.1	ci30_tot_soil_comb	8.4	ci30_air_soil_inhv	0.27	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	4-Chloro-3-methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	4-Chloroaniline	23	res30_tot_soil_comb	95	ci30_tot_soil_comb	---	---	23	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.15	res30_tot_soil_comb	0.80	ci30_tot_soil_comb	2.2	ci30_air_soil_inhv	0.15	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	4-Methylphenol	330	res30_tot_soil_comb	3400	ci30_tot_soil_comb	---	---	330	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	4-Nitroaniline	190	res30_tot_soil_comb	660	ci30_tot_soil_comb	870	ci30_air_soil_inhv	190	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	4-Nitrophenol	130	res30_tot_soil_comb	1400	ci30_tot_soil_comb	---	---	130	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Acenaphthene	3000	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3000	res30_tot_soil_comb	---	mg/kg	<0.00173 U	0.0583	1.15	<0.00543 U
9	SW8270/8270C/8270D	Acenaphthylene	3800	res30_tot_soil_comb	37000	ci30_tot_soil_comb	---	---	3800	res30_tot_soil_comb	---	mg/kg	0.0617	0.203	1.29	0.087
9	SW8270/8270C/8270D	Acetophenone	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Anthracene	18000	res30_tot_soil_comb	190000	ci30_tot_soil_comb	---	---	18000	res30_tot_soil_comb	---	mg/kg	0.16	0.479	3.47	0.135
9	SW8270/8270C/8270D	Aroclor 1016	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1221	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1232	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1242	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1248	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1254	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Aroclor 1260	1.1	res30_tot_soil_comb	7.1	ci30_tot_soil_comb	47	ci30_air_soil_inhv	1.1	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Atrazine	21	res30_tot_soil_comb	86	ci30_tot_soil_comb	---	---	21	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Benzaldehyde	8200	res30_tot_soil_comb	100000	ci30_tot_soil_comb	---	---	8200	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Benzo(a)anthracene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	4700	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	1.22	3.1	11.8	0.627
9	SW8270/8270C/8270D	Benzo(a)pyrene	4.1	res30_tot_soil_comb	17	ci30_tot_soil_comb	46	ci30_air_soil_inhv	4.1	res30_tot_soil_comb	---	mg/kg	1.58	**5.81**	**11.3**	0.733
9	SW8270/8270C/8270D	Benzo(b)fluoranthene	41	res30_tot_soil_comb	170	ci30_tot_soil_comb	7800	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	2.22	8.63	16.5	1.44
9	SW8270/8270C/8270D	Benzo(g,h,i)perylene	1800	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1800	res30_tot_soil_comb	---	mg/kg	1.1	6.77	7.65	1.55
9	SW8270/8270C/8270D	Benzo(k)fluoranthene	420	res30_tot_soil_comb	1700	ci30_tot_soil_comb	190000	ci30_air_soil_inhv	420	res30_tot_soil_comb	---	mg/kg	0.779	2.66	5.34	0.427
9	SW8270/8270C/8270D	Benzoic acid	270000	res30_tot_soil_comb	1000000	ci30_tot_soil_comb	---	---	270000	res30_tot_soil_comb	---	mg/kg	---	---	---	---

												UNIT	SB-8 03112014(.5-.5)	SB-8 03112014(2.5-2.5)	SB-9 03112014(.5-.5)	SB-9 03112014(2.5-2.5)
												Sample Location	SB-8	SB-8	SB-9	SB-9
												Sample ID	SB-8 03112014(.5-.5)	SB-8 03112014(2.5-2.5)	SB-9 03112014(.5-.5)	SB-9 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5
												Location Type	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units				
9	SW8270/8270C/8270D	Benzyl alcohol	6700	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6700	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Biphenyl	12000	res30_tot_soil_comb	85000	ci30_tot_soil_comb	---	---	12000	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	2.5	res30_tot_soil_comb	6.2	ci30_tot_soil_comb	9.8	ci30_air_soil_inhv	2.5	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroethyl) ether	1.4	res30_tot_soil_comb	2.8	ci30_tot_soil_comb	3.1	ci30_air_soil_inhv	1.4	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	41	res30_tot_soil_comb	110	ci30_tot_soil_comb	180	ci30_air_soil_inhv	41	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	43	res30_tot_soil_comb	560	ci30_tot_soil_comb	---	---	43	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Butylbenzylphthalate	1600	res30_tot_soil_comb	10000	ci30_tot_soil_comb	---	---	1600	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Caprolactam	33000	res30_tot_soil_comb	340000	ci30_tot_soil_comb	---	---	33000	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Carbazole	230	res30_tot_soil_comb	950	ci30_tot_soil_comb	---	---	230	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Chrysene	4100	res30_tot_soil_comb	17000	ci30_tot_soil_comb	750000	ci30_air_soil_inhv	4100	res30_tot_soil_comb	---	mg/kg	1.37	3.65	12.2	0.796
9	SW8270/8270C/8270D	Dibenz(a,h)anthracene	4.0	res30_tot_soil_comb	17	ci30_tot_soil_comb	2500	ci30_air_soil_inhv	4.0	res30_tot_soil_comb	---	mg/kg	<0.00151 U	1.36	1.46	0.205
9	SW8270/8270C/8270D	Dibenzofuran	270	res30_tot_soil_comb	2700	ci30_tot_soil_comb	---	---	270	res30_tot_soil_comb	---	mg/kg	0.00151	0.0547	0.576	<0.00475 U
9	SW8270/8270C/8270D	Diethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Dimethyl phthalate	53000	res30_tot_soil_comb	550000	ci30_tot_soil_comb	---	---	53000	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Di-n-butylphthalate	6200	res30_tot_soil_comb	68000	ci30_tot_soil_comb	---	---	6200	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Di-n-octylphthalate	640	res30_tot_soil_comb	6800	ci30_tot_soil_comb	---	---	640	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Fluoranthene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	1.74	6.13	27.8	1.15
9	SW8270/8270C/8270D	Fluorene	2300	res30_tot_soil_comb	25000	ci30_tot_soil_comb	---	---	2300	res30_tot_soil_comb	---	mg/kg	<0.00104 U	0.0333	0.969	<0.00329 U
9	SW8270/8270C/8270D	Hexachlorobenzene	1.0	res30_tot_soil_comb	6.9	ci30_tot_soil_comb	16	ci30_air_soil_inhv	1.0	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorobutadiene	12	res30_tot_soil_comb	23	ci30_tot_soil_comb	25	ci30_air_soil_inhv	12	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Hexachlorocyclopentadiene	7.2	res30_tot_soil_comb	10	ci30_tot_soil_comb	10	ci30_air_soil_inhv	7.2	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Hexachloroethane	46	res30_tot_soil_comb	420	ci30_tot_soil_comb	3600	ci30_air_soil_inhv	46	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	42	res30_tot_soil_comb	170	ci30_tot_soil_comb	32000	ci30_air_soil_inhv	42	res30_tot_soil_comb	---	mg/kg	0.997	4.92	7.14	0.946
9	SW8270/8270C/8270D	Isophorone	4900	res30_tot_soil_comb	20000	ci30_tot_soil_comb	---	---	4900	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Naphthalene	120	res30_tot_soil_comb	190	ci30_tot_soil_comb	190	ci30_air_soil_inhv	120	res30_tot_soil_comb	---	mg/kg	<0.00246 U	0.0434 J	0.432 J	<0.00774 U
9	SW8270/8270C/8270D	Nitrobenzene	34	res30_tot_soil_comb	57	ci30_tot_soil_comb	57	ci30_air_soil_inhv	34	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	0.40	res30_tot_soil_comb	1.4	ci30_tot_soil_comb	---	---	0.40	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	N-Nitrosodiphenylamine	570	res30_tot_soil_comb	1900	ci30_tot_soil_comb	---	---	570	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Pentachlorophenol	0.73	res30_tot_soil_comb	32	ci30_tot_soil_comb	---	---	0.73	res30_tot_soil_comb	---	mg/kg	---	---	---	---

												UNIT	SB-8 03112014(.5-.5)	SB-8 03112014(2.5-2.5)	SB-9 03112014(.5-.5)	SB-9 03112014(2.5-2.5)
												Sample Location	SB-8	SB-8	SB-9	SB-9
												Sample ID	SB-8 03112014(.5-.5)	SB-8 03112014(2.5-2.5)	SB-9 03112014(.5-.5)	SB-9 03112014(2.5-2.5)
												Sample Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014
												Top Depth (ft bags)	0.5	2.5	0.5	2.5
												Bottom Depth (ft bags)	0.5	2.5	0.5	2.5
												Location Type	Res	Res	Res	Res
7	Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	SS Critical PCL	Source of SS Critical PCL	SB Critical PCL	Source of SB Critical PCL	Off-site Well Critical PCL	Source of Off-site Well Critical PCL	TX Background	Units				
9	SW8270/8270C/8270D	Phenanthrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	0.597	1.74	17	0.486
9	SW8270/8270C/8270D	Phenol	950	res30_tot_soil_comb	1400	ci30_tot_soil_comb	1400	ci30_air_soil_inhv	950	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8270/8270C/8270D	Pyrene	1700	res30_tot_soil_comb	19000	ci30_tot_soil_comb	---	---	1700	res30_tot_soil_comb	---	mg/kg	1.66	5.24	22.2	0.972
9	SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---
9	SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---
9	SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---
9	SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---
9	SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---
9	SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---
9	SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---
9	SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---
9	SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---
9	SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---
9	SW8290A	2,3,7,8-TCDD (TEQs)	0.0010	res30_tot_soil_comb	0.0050	ci30_tot_soil_comb	---	---	0.0010	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---
9	SW8290A	OCDD	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---
9	SW8290A	OCDF	---	---	---	---	---	---	---	---	---	mg/kg	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C12-C28	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	TX1005	T/R Hydrocarbons: >C28-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C12	1100	res30_tot_soil_comb	2100	ci30_tot_soil_comb	2200	ci30_air_soil_inhv	1100	res30_tot_soil_comb	---	mg/kg	---	---	---	---
9	TX1005	T/R Hydrocarbons: C6-C35	2000	res30_tot_soil_comb	7800	ci30_tot_soil_comb	11000	ci30_air_soil_inhv	2000	res30_tot_soil_comb	---	mg/kg	---	---	---	---

SECTION 4

TABLE 4E

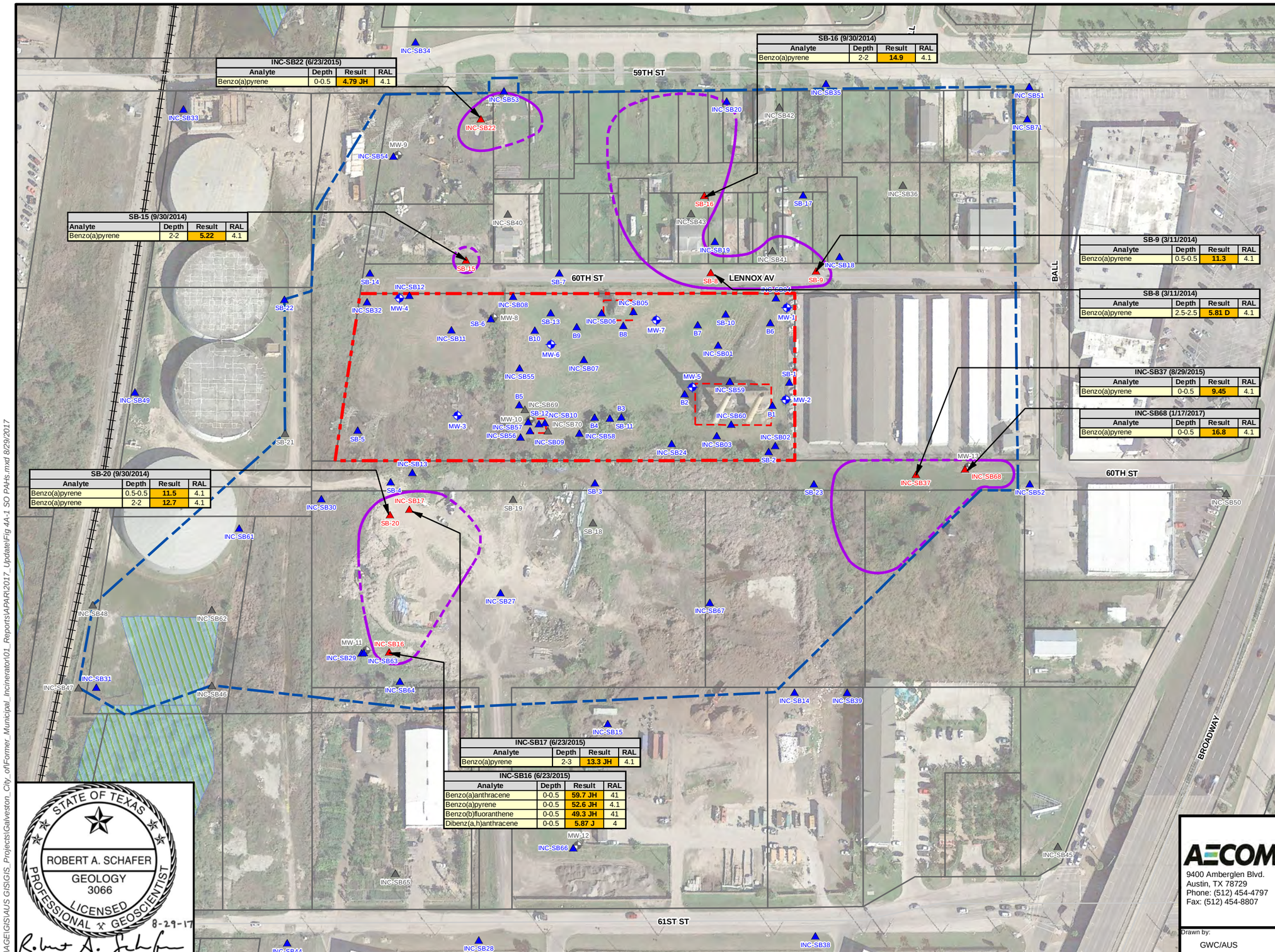
SOIL GEOCHEMICAL/GEOTECHNICAL DATA SUMMARY

[This table is not applicable.]

SECTION 4

FIGURE 4A

SURFACE SOIL COC CONCENTRATION MAPS



Legend

- On-Site Property Boundary
- Affected Property Boundary (Tier I RAL)
- Real Estate Parcel
- Potential Source Area
- Wetland (USFWS, 2012)
- Railroad Track
- Residential $^{Tot}Soil_{Comb}$ PCLE Zone for PAHs (Dashed Where Inferred or Where Access Restrictions Prevented Further Step-Out Sampling)
- Monitoring Well Location (Results do not Exceed RAL)
- Monitoring Well Location (Sample Not Collected from this Location)
- Soil Sample Location (Results do not Exceed RAL)
- Soil Sample Location (One or More Results Exceed RAL)
- Soil Sample Location (Sample Not Collected for PAH Analysis from this Location)
- RAL — Residential Assessment Level
- D — Laboratory duplicate precision evaluation criteria not met.
- H — Bias in sample result is likely to be high.
- J — Estimated.

Notes:
1. *All depths are shown in feet below ground surface (ft bgs).*
2. *All concentrations are shown in milligrams per kilogram (mg/kg).*

150 75 0 150
Feet

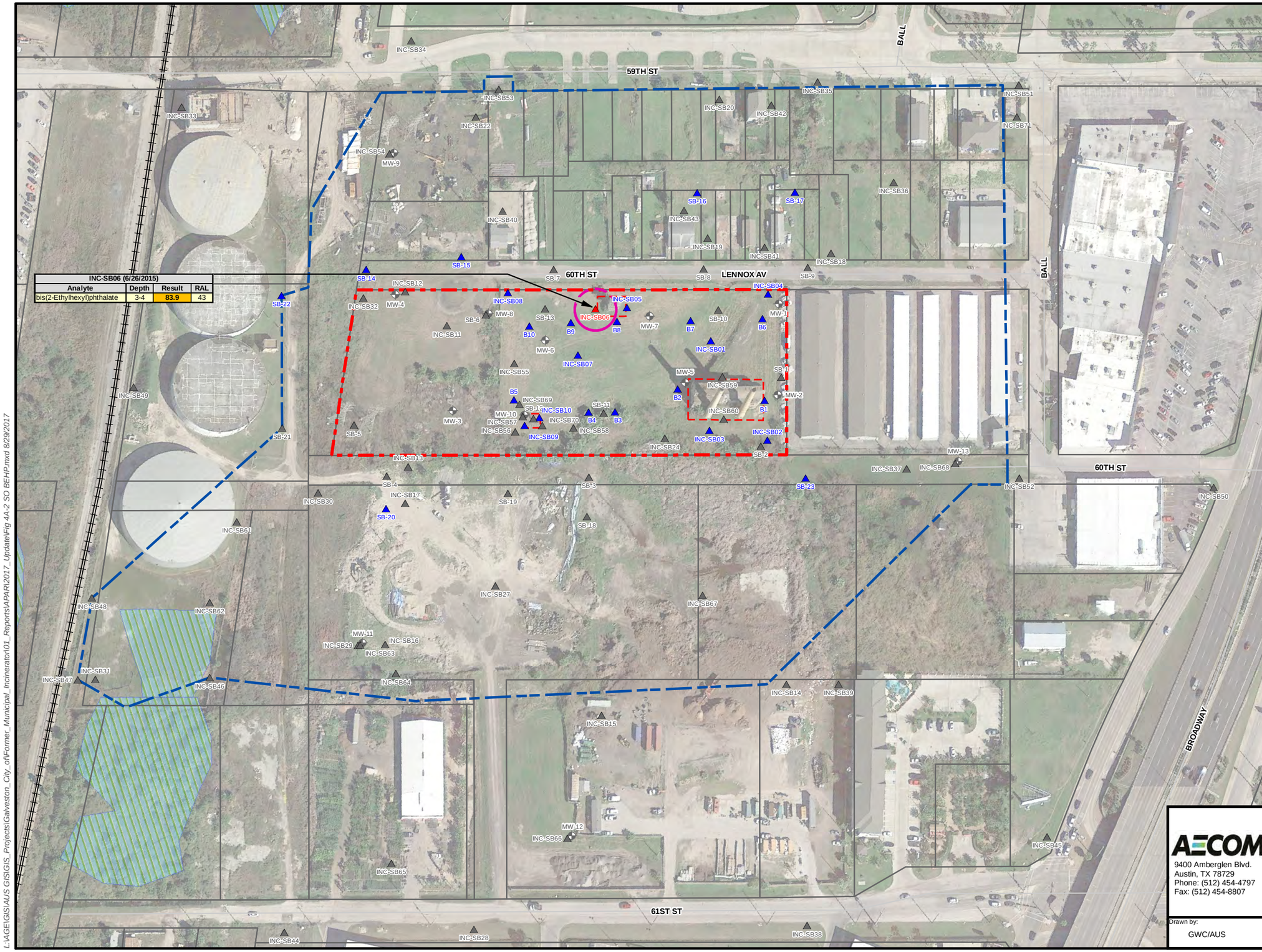
STATE OF TEXAS
ROBERT A. SCHAFER
GEOLOGY
3066
LICENSED
PROFESSIONAL GEOSCIENTIST
8-29-17

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

Client: City of Galveston
Report: Affected Property Assessment Report
Title: **Surface Soil COC Concentration Map (PAHs)**

Drawn by:	Date:	GIS File:	Figure:
GWC/AUS	8/29/2017	Fig 4A-1 SO PAHs	4A-1

L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Fig 4A-1 SO PAHs.mxd 8/29/2017



Legend

- On-Site Property Boundary
- Affected Property Boundary (Tier I RAL)
- Real Estate Parcel
- Potential Source Area
- Wetland (USFWS, 2012)
- Railroad Track
- Residential $^{Tot}Soil_{Comb}$ PCLE Zone for bis(2-ethylhexyl)phthalate (Dashed Where Inferred or Where Access Restrictions Prevented Further Step-Out Sampling)
- Monitoring Well Location (Sample Not Collected from this Location)
- Soil Sample Location (Results do not Exceed RAL)
- Soil Sample Location (One or More Results Exceed RAL)
- Soil Sample Location (Sample Not Collected for this Analyte from this Location)

RAL Residential Assessment Level

Notes:
1. *All depths are shown in feet below ground surface (ft bgs).*
2. *All concentrations are shown in milligrams per kilogram (mg/kg).*

STATE OF TEXAS
ROBERT A. SCHAFER
GEOLOGY
3066
LICENSED
PROFESSIONAL GEOSCIENTIST
8-29-17

150 75 0 150
Feet

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

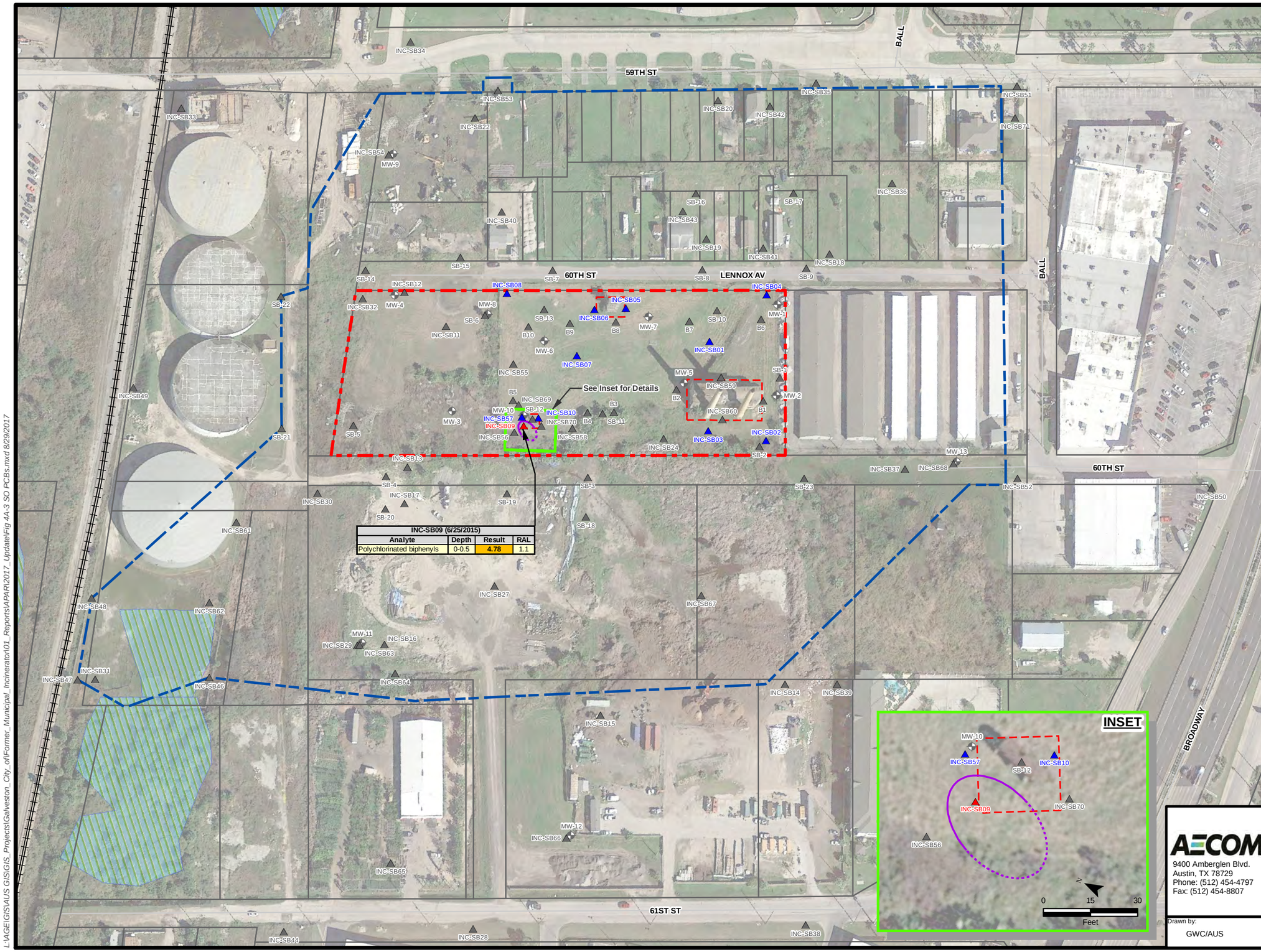
Client: City of Galveston

Report: Affected Property Assessment Report

Title: **Surface Soil COC Concentration Map (bis(2-ethylhexyl)phthalate)**

Drawn by:	Date:	GIS File:	Figure:
GWC/AUS	8/29/2017	Fig 4A-2 SO BEHP	4A-2

L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Fig 4A-2 SO BEHP.mxd 8/29/2017



Legend

- On-Site Property Boundary
- Affected Property Boundary (Tier I RAL)
- Real Estate Parcel
- Potential Source Area
- Wetland (USFWS, 2012)
- Railroad Track
- Residential $^{Tot}Soil_{Comb}$ PCLE Zone for Polychlorinated biphenyls (Dashed Where Inferred or Where Access Restrictions Prevented Further Step-Out Sampling)
- Monitoring Well Location (Sample Not Collected from this Location)
- Soil Sample Location (Results do not Exceed RAL)
- Soil Sample Location (One or More Results Exceed RAL)
- Soil Sample Location (Sample Not Collected for PCB Analysis from this Location)
- RAL Residential Assessment Level

Notes:
1. *All depths are shown in feet below ground surface (ft bgs).*
2. *All concentrations are shown in milligrams per kilogram (mg/kg).*

STATE OF TEXAS
ROBERT A. SCHAFER
GEOLOGY
3066
LICENSED
PROFESSIONAL GEOSCIENTIST
8-29-17

150 75 0 150
Feet

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

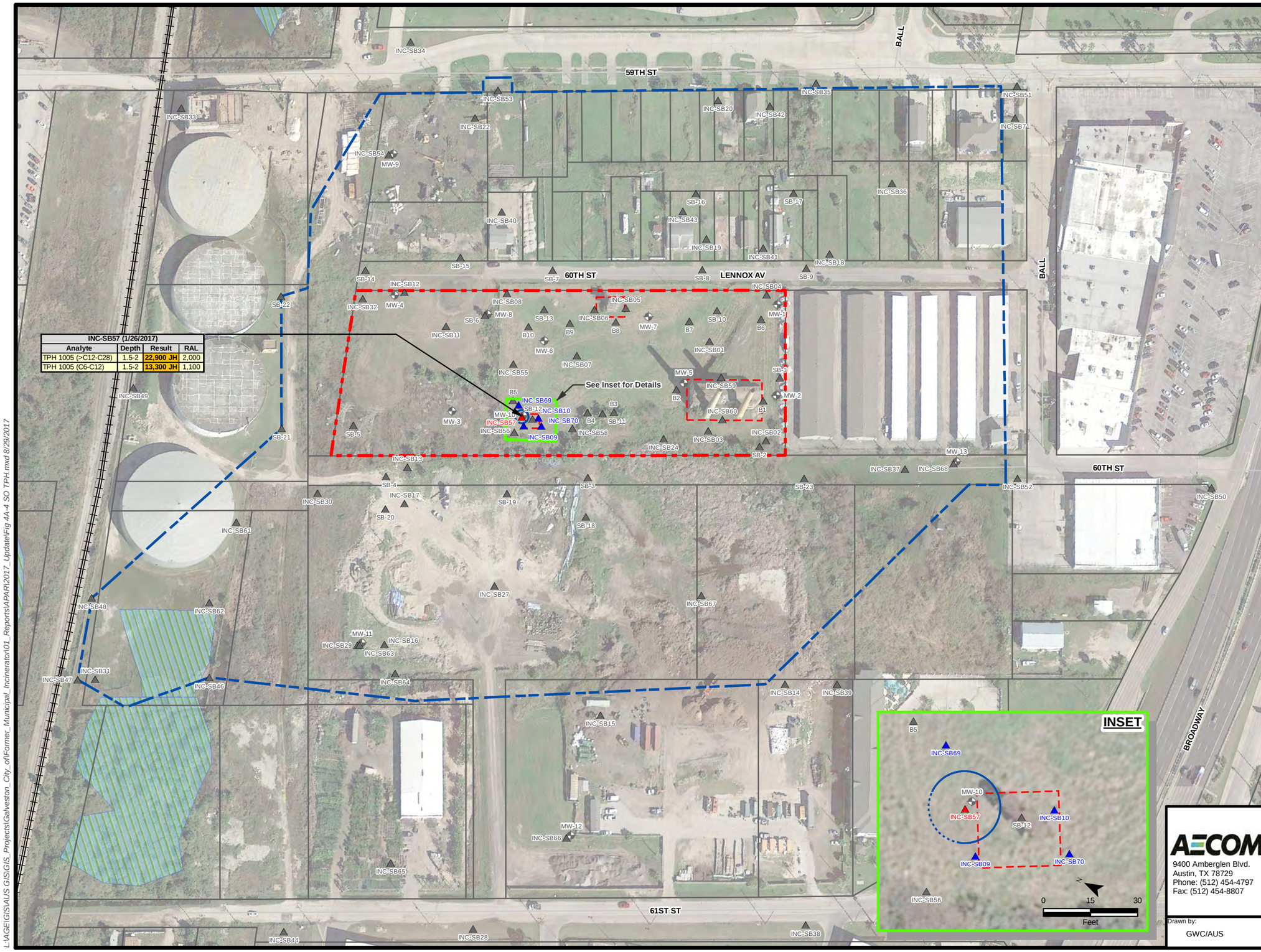
Client: City of Galveston

Report: Affected Property Assessment Report

Title: **Surface Soil COC Concentration Map (Polychlorinated biphenyls)**

Drawn by:	Date:	GIS File:	Figure:
GWC/AUS	8/29/2017	Fig 4A-3 SO PCBs	4A-3

L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Fig 4A-3 SO PCBs.mxd 8/29/2017



Legend

- On-Site Property Boundary
- Affected Property Boundary (Tier I RAL)
- Real Estate Parcel
- Potential Source Area
- Wetland (USFWS, 2012)
- Railroad Track
- Residential $^{Tot}Soil_{Comb}$ PCLE Zone for TPH (Dashed Where Inferred or Where Access Restrictions Prevented Further Step-Out Sampling)
- Monitoring Well Location (Sample Not Collected from this Location)
- Soil Sample Location (Results do not Exceed RAL)
- Soil Sample Location (One or More Results Exceed RAL)
- Soil Sample Location (Sample Not Collected for TPH Analysis from this Location)
- RAL Residential Assessment Level
- H Bias in sample result is likely to be high.
- J Estimated.

Notes:
1. *All depths are shown in feet below ground surface (ft bgs).*
2. *All concentrations are shown in milligrams per kilogram (mg/kg).*

STATE OF TEXAS
ROBERT A. SCHAFER
GEOLOGY
3066
LICENSED
PROFESSIONAL GEOSCIENTIST
8-29-17

150 75 0 150
Feet

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

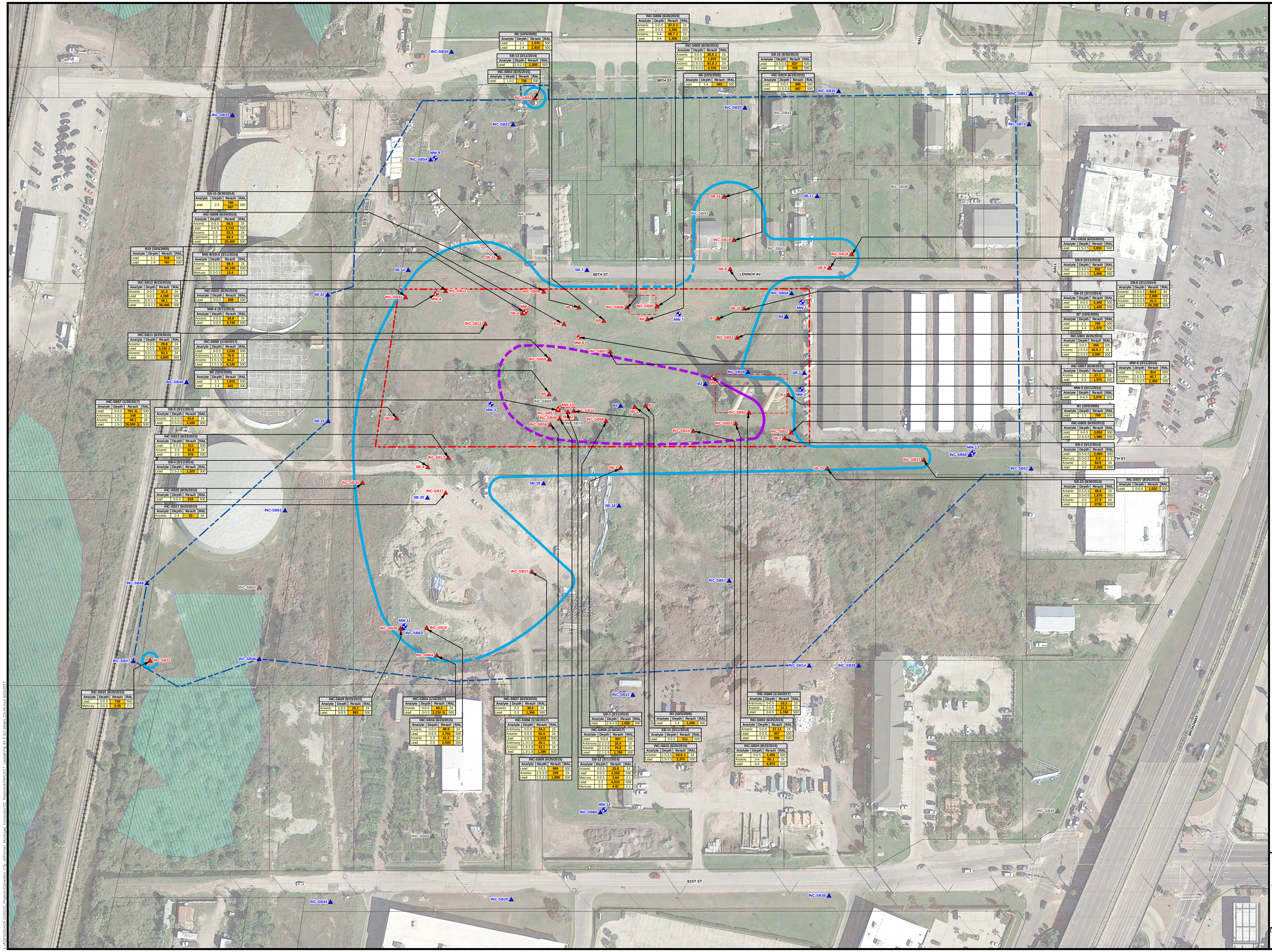
Client: City of Galveston

Report: Affected Property Assessment Report

Title: **Surface Soil COC Concentration Map (Total Petroleum Hydrocarbons)**

Drawn by:	Date:	GIS File:	Figure:
GWC/AUS	8/29/2017	Fig 4A-4 SO TPH	4A-4

L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Fig 4A-4 SO TPH.mxd 8/29/2017



B9 (10/5/2005)

Analyte	Depth	Result	RAL
Lead	1-1	1,070	500
Lead	1-4	2,810	500

SB-13 (3/11/2014)

Analyte	Depth	Result	RAL
Lead	2.5-2.5	1,300	500

INC-SB53 (8/25/2015)

Analyte	Depth	Result	RAL
Lead	1.5-2	736	500

INC-SB06 (6/26/2015)

Analyte	Depth	Result	RAL
Arsenic	0-0.5	37.2 J	24
Lead	0-0.5	2,250	500
Arsenic	3-4	68.7 J	24
Lead	3-4	1,300	500

INC-SB05 (6/25/2015)

Analyte	Depth	Result	RAL
Arsenic	0-0.5	30.9 J	24
Lead	0-0.5	1,070	500
Arsenic	2.5-3.5	81.8 J	24
Lead	2.5-3.5	2,310	500

B8 (10/5/2005)

Analyte	Depth	Result	RAL
Lead	1-4	662	500

SB-16 (9/30/2014)

Analyte	Depth	Result	RAL
Lead	0.5-0.5	637	500
Lead	2-2	766	500

INC-SB19 (6/23/2015)

Analyte	Depth	Result	RAL
Lead	0-0.5	686	500
Lead	1.5-2.5	987	500

SB-15 (9/30/2014)

Analyte	Depth	Result	RAL
Lead	2-2	790 687	500

INC-SB08 (6/24/2015)

Analyte	Depth	Result	RAL
Arsenic	0-0.5	56.5	24
Lead	0-0.5	2,710	500
Arsenic	2-3	53.3	24
Cadmium	2-3	68.4	52
Lead	2-3	20,400	500

B10 (10/5/2005)

Analyte	Depth	Result	RAL
Lead	1-1	518	500
Lead	1-4	767	500

MW-8/SB-6 (3/11/2014)

Analyte	Depth	Result	RAL
Arsenic	0.5-0.5	68.4	24
Lead	0.5-0.5	26,100	500
Mercury	0.5-0.5	13.4	2.1

INC-SB12 (6/23/2015)

Analyte	Depth	Result	RAL
Arsenic	0-0.5	41.3	24
Lead	0-0.5	4,190	500
Arsenic	0.5-1.5	48.1	24
Lead	0.5-1.5	30,400	500

INC-SB32 (8/25/2015)

Analyte	Depth	Result	RAL
Lead	0-0.5	658	500

MW-4 (3/11/2014)

Analyte	Depth	Result	RAL
Arsenic	0-0.5	59.8	24
Lead	0-0.5	3,740	500

INC-SB11 (6/23/2015)

Analyte	Depth	Result	RAL
Arsenic	0-0.5	29.8	24
Lead	0-0.5	3,240 J	500
Arsenic	0.5-1.5	53.3	24
Lead	0.5-1.5	4,800	500

INC-SB55 (1/16/2017)

Analyte	Depth	Result	RAL
Lead	0-0.5	1,030	500
Antimony	1.5-1.9	76.6	15
Arsenic	1.5-1.9	64.2	24
Lead	1.5-1.9	6,140	500

B5 (10/5/2005)

Analyte	Depth	Result	RAL
Lead	1-1	1,810	500
Lead	1-4	641	500

INC-SB57 (1/26/2017)

Analyte	Depth	Result	RAL
Lead	0-0.5	701 JL	500
Antimony	1.5-2	148	15
Arsenic	1.5-2	49.1	24
Lead	1.5-2	28,000 JL	500

SB-5 (3/11/2014)

Analyte	Depth	Result	RAL
Arsenic	0.5-0.5	53.6	24
Lead	0.5-0.5	3,200	500

INC-SB13 (6/23/2015)

Analyte	Depth	Result	RAL
Lead	0-0.5	511	500
Arsenic	2-3	32.8	24
Lead	2-3	676	500

SB-4 (3/11/2014)

Analyte	Depth	Result	RAL
Lead	2.5-2.5	1,320	500

INC-SB30 (8/25/2015)

Analyte	Depth	Result	RAL
Lead	0-0.5	818	500

INC-SB17 (6/23/2015)

Analyte	Depth	Result	RAL
Arsenic	2-3	53	24

INC-SB31 (8/25/2015)

Analyte	Depth	Result	RAL
Lead	0-0.5	718	500
Mercury	0-0.5	2.25	2.1

INC-SB29 (6/23/2015)

Analyte	Depth	Result	RAL
Arsenic	0-0.5	25.1	24
Lead	0-0.5	893	500

INC-SB64 (1/16/2017)

Analyte	Depth	Result	RAL
Arsenic	0-0.5	60.2	24
Lead	0-0.5	2,230 JL	500

INC-SB16 (6/23/2015)

Analyte	Depth	Result	RAL
Arsenic	0-0.5	89.9	24
Lead	0-0.5	3,760	500
Arsenic	2-3	61.5	24
Lead	2-3	2,020	500

INC-SB27 (6/23/2015)

Analyte	Depth	Result	RAL
Arsenic	2-3	38.6	24
Lead	2-3	1,360	500

INC-SB56 (1/16/2017)

Analyte	Depth	Result	RAL
Antimony	0-0.5	34.2	15
Arsenic	0-0.5	55.9	24
Lead	0-0.5	2,010	500
Antimony	1.3-1.8	25.1	15
Arsenic	1.3-1.8	31.1	24
Lead	1.3-1.8	1,390	500

INC-SB09 (6/25/2015)

Analyte	Depth	Result	RAL
Lead	0-0.5	969	500
Arsenic	2.5-3.5	229	24
Lead	2.5-3.5	1,890	500

SB-3 (3/11/2014)

Analyte	Depth	Result	RAL
Lead	2.5-2.5	1,050	500

INC-SB58 (1/16/2017)

Analyte	Depth	Result	RAL
Lead	0-0.6	507	500
Antimony	2.1-2.6	32.6	15
Arsenic	2.1-2.6	70.8	24
Lead	2.1-2.6	1,780	500

SB-12 (3/11/2014)

Analyte	Depth	Result	RAL
Arsenic	0-0.5	25.8	24
Lead	0-0.5	2,260	500
Mercury	0-0.5	3.64	2.1
Lead	2-2	6,010	500
Mercury	2-2	4.91	2.1

B3 (10/5/2005)

Analyte	Depth	Result	RAL
Lead	1-4	1,200	500

SB-11 (3/11/2014)

Analyte	Depth	Result	RAL
Lead	0-0.5	511	500

INC-SB10 (6/25/2015)

Analyte	Depth	Result	RAL
Arsenic	2.5-3.5	54.6 J	24
Lead	2.5-3.5	2,370	500

INC-SB60 (1/16/2017)

Analyte	Depth	Result	RAL
Antimony	0-0.5	15.2	15
Arsenic	0-0.5	31.2	24
Lead	0-0.5	1,150	500

INC-SB03 (6/25/2015)

Analyte	Depth	Result	RAL
Arsenic	0-0.5	27.1J	24
Lead	0-0.5	857	500
Lead	2-3	696	500

INC-SB24 (6/23/2015)

Analyte	Depth	Result	RAL
Lead	0-0.5	1,450	500
Arsenic	3-4	65 J	24
Lead	3-4	6,970	500

INC-SB18 (6/23/2015)

Analyte	Depth	Result	RAL
Lead	1.5-2.5	3,830	500

SB-9 (3/11/2014)

Analyte	Depth	Result	RAL
Lead	0.5-0.5	832	500
Lead	2.5-2.5	2,060	500

SB-8 (3/11/2014)

Analyte	Depth	Result	RAL
Arsenic	0.5-0.5	64.6	24
Lead	0.5-0.5	2,000	500
Arsenic	2.5-2.5	41.5	24
Lead	2.5-2.5	24,200	500

SB-10 (3/11/2014)

Analyte	Depth	Result	RAL
Lead	0-0.5	2,440	500
Lead	2.5-2.5	1,420	500

B7 (10/5/2005)

Analyte	Depth	Result	RAL
Lead	1-1	795	500
Lead	1-4	1,970	500

INC-SB01 (6/25/2015)

Analyte	Depth	Result	RAL
Lead	0-0.5	656	500
Arsenic	2.5-3.5	46.9 J	24
Lead	2.5-3.5	2,090	500

INC-SB07 (6/26/2015)

Analyte	Depth	Result	RAL
Arsenic	2-3	37.1	24
Lead	2-3	1,970	500

MW-6 (3/11/2014)

Analyte	Depth	Result	RAL
Lead	0-0.5	814	500
Arsenic	2.5-2.5	40.7	24
Lead	2.5-2.5	2,300	500

MW-5 (3/11/2014)

Analyte	Depth	Result	RAL
Lead	0-0.5	1,070	500

B1 (10/5/2005)

Analyte	Depth	Result	RAL
Lead	1-1	759	500

INC-SB02 (6/25/2015)

Analyte	Depth	Result	RAL
Lead	0-0.5	3,850	500
Lead	2.5-3.5	1,980	500

SB-2 (3/11/2014)

Analyte	Depth	Result	RAL
Lead	0.5-0.5	2,060	500
Mercury	0.5-0.5	5.5	2.1
Arsenic	2-2	64.9	24
Lead	2-2	2,420	500

SB-23 (9/30/2014)

Analyte	Depth	Result	RAL
Arsenic	0.5-0.5	48.8	24
Lead	0.5-0.5	1,670	500
Arsenic	2-2	27.9	24
Lead	2-2	2730	500

INC-SB37 (8/25/2015)

Analyte	Depth	Result	RAL
Lead	0-0.5	1,020	500

Legend

- On-Site Property Boundary
- Affected Property Boundary (Tier I RAL)
- Real Estate Parcel
- Potential Source Area
- Wetland (USFWS, 2012)
- Residential $^{Tot}Soil_{Comb}$ PCLE Zone for Arsenic, Cadmium, Lead, and Mercury (Dashed Where Inferred)
- Residential $^{Tot}Soil_{Comb}$ PCLE Zone for Antimony (Dashed Where Inferred)
- Railroad Track
- Monitoring Well Location (Results do not Exceed RAL)
- Monitoring Well Location (One or More Results Exceed RAL)
- Soil Sample Location (Results do not Exceed RAL)
- Soil Sample Location (One or More Results Exceed RAL)
- Soil Sample Location Sample Not Collected from this Location
- RAL Residential Assessment Level
- J Estimated.
- L Bias in sample result is likely to be low.

Notes:
1. *All depths are shown in feet below ground surface (ft bgs).*
2. *All concentrations are shown in milligrams per kilogram (mg/kg).*

STATE OF TEXAS
ROBERT A. SCHAFER
GEOLOGY
3066
LICENSED
PROFESSIONAL GEOSCIENTIST
8-29-17

80 40 0 80 160 240
Feet

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

Client:	City of Galveston
Report:	Affected Property Assessment Report
Title:	**Surface Soil COC Concentration Map (Metals)**
Drawn by:	GWC/AUS
Date:	8/29/2017
GIS File:	Fig 4A-5 SO Metals 22x34
Figure:	4A-5

SECTION 4

FIGURE 4B

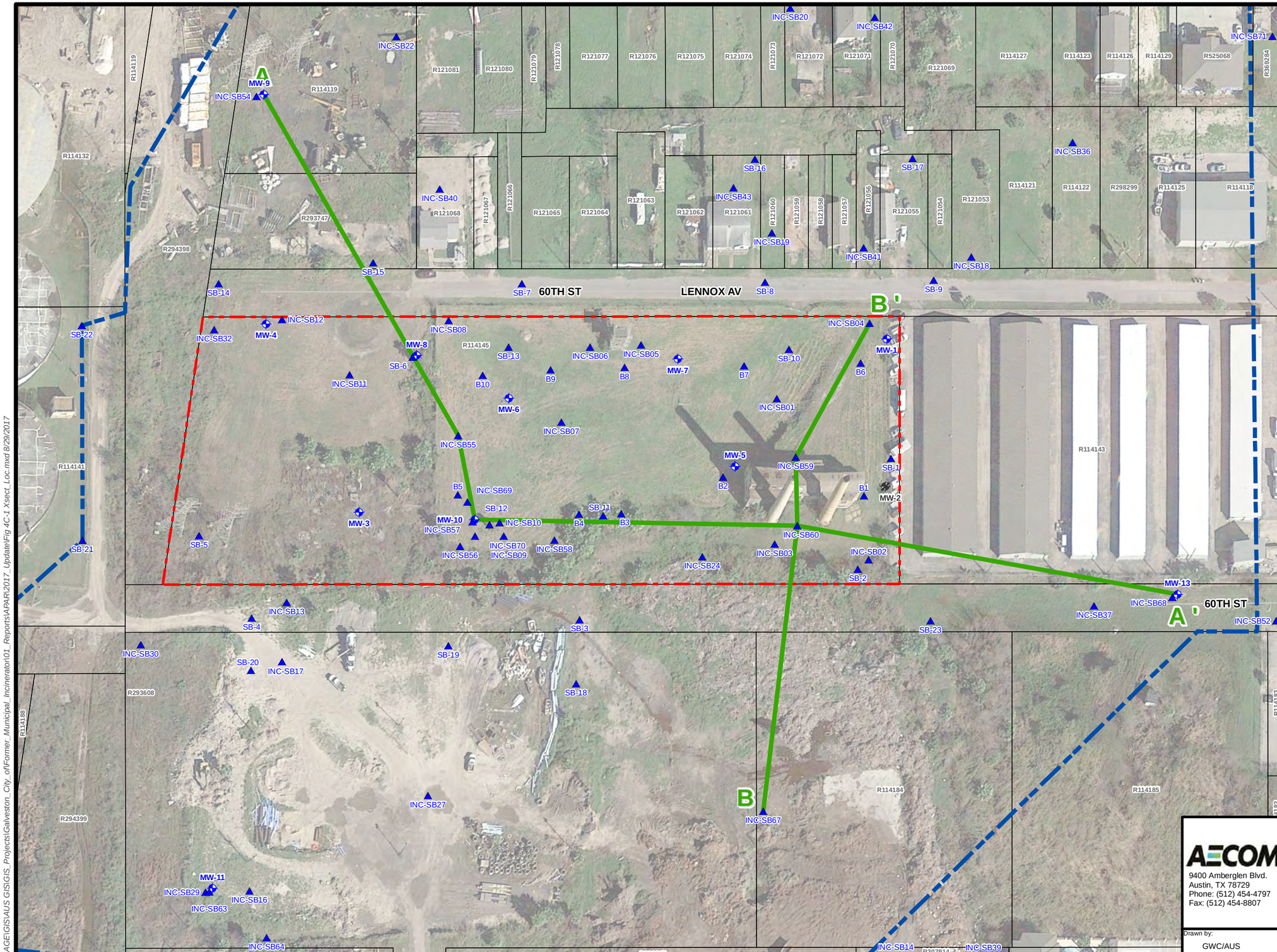
SUBSURFACE SOIL COC CONCENTRATION MAPS

[This figure is not applicable.]

SECTION 4

FIGURE 4C

CROSS SECTIONS



Legend

- On-Site Property Boundary
- Affected Property Boundary (Tier I RAL)
- Real Estate Parcel
- Geologic Cross Section Location
- RAL Residential Assessment Level

100 50 0 100
Feet

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

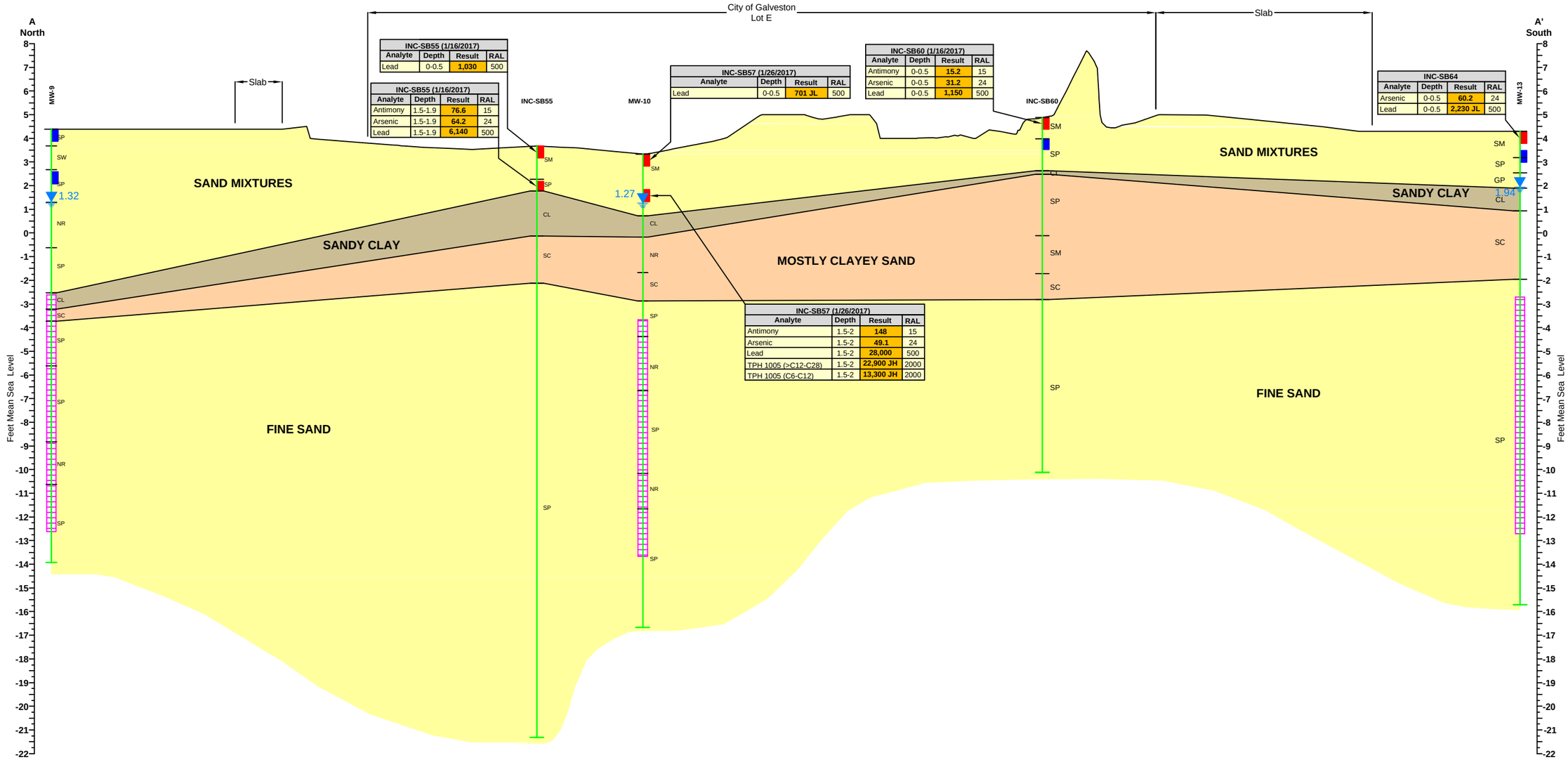
Client: City of Galveston

Report: Affected Property Assessment Report

Title: **Geologic Cross Section Location Map**

Drawn by:	Date:	GIS File:	Figure:
GWC/AUS	8/29/2017	Fig 4C-1 Xsect_Loc	4C-1

L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Fig 4C-1 Xsect_Loc.mxd 8/29/2017



INC-SB55 (1/16/2017)			
Analyte	Depth	Result	RAL
Lead	0-0.5	1,030	500

INC-SB55 (1/16/2017)			
Analyte	Depth	Result	RAL
Antimony	1.5-1.9	76.6	15
Arsenic	1.5-1.9	64.2	24
Lead	1.5-1.9	6,140	500

INC-SB57 (1/26/2017)			
Analyte	Depth	Result	RAL
Lead	0-0.5	701 JL	500

INC-SB60 (1/16/2017)			
Analyte	Depth	Result	RAL
Antimony	0-0.5	15.2	15
Arsenic	0-0.5	31.2	24
Lead	0-0.5	1,150	500

INC-SB64			
Analyte	Depth	Result	RAL
Arsenic	0-0.5	60.2	24
Lead	0-0.5	2,230 JL	500

INC-SB57 (1/26/2017)			
Analyte	Depth	Result	RAL
Antimony	1.5-2	148	15
Arsenic	1.5-2	49.1	24
Lead	1.5-2	28,000	500
TPH 1005 (>C12-C28)	1.5-2	22,900 JH	2000
TPH 1005 (C6-C12)	1.5-2	13,300 JH	2000

Legend

CL	Organic Clays with Medium to High Plasticity; Organic Silts
CH	Inorganic Clays with Low to Medium Plasticity; Gravelly Clays; Sandy Clays; Silty Clays; Lean Clays
NR	No Recovery
SC	Clayey Sands
SM	Silty Sands; Sand-Silt Mixtures
SP	Poorly Graded Sands; Gravelly Sands with Little or No Fines
SW	Well Graded Sands; Gravelly Sands with Little or No Fines

1.27 Groundwater Elevation (ft msl) (April 2017)

Vertical Extent of COCs (PAHs and/or Metals) > Residential $^{Tot}Soil_{Comb}$ PCL

Well Screen Interval

Sample Location Exceeding RAL

Sample Location not Exceeding RAL

STATE OF TEXAS
ROBERT A. SCHAFER
GEOLOGY
3066
LICENSED
PROFESSIONAL GEOSCIENTIST

8-29-17

45 0 90

Horizontal Scale in Feet
Vertical Exaggeration = 20X

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

Client: City of Galveston

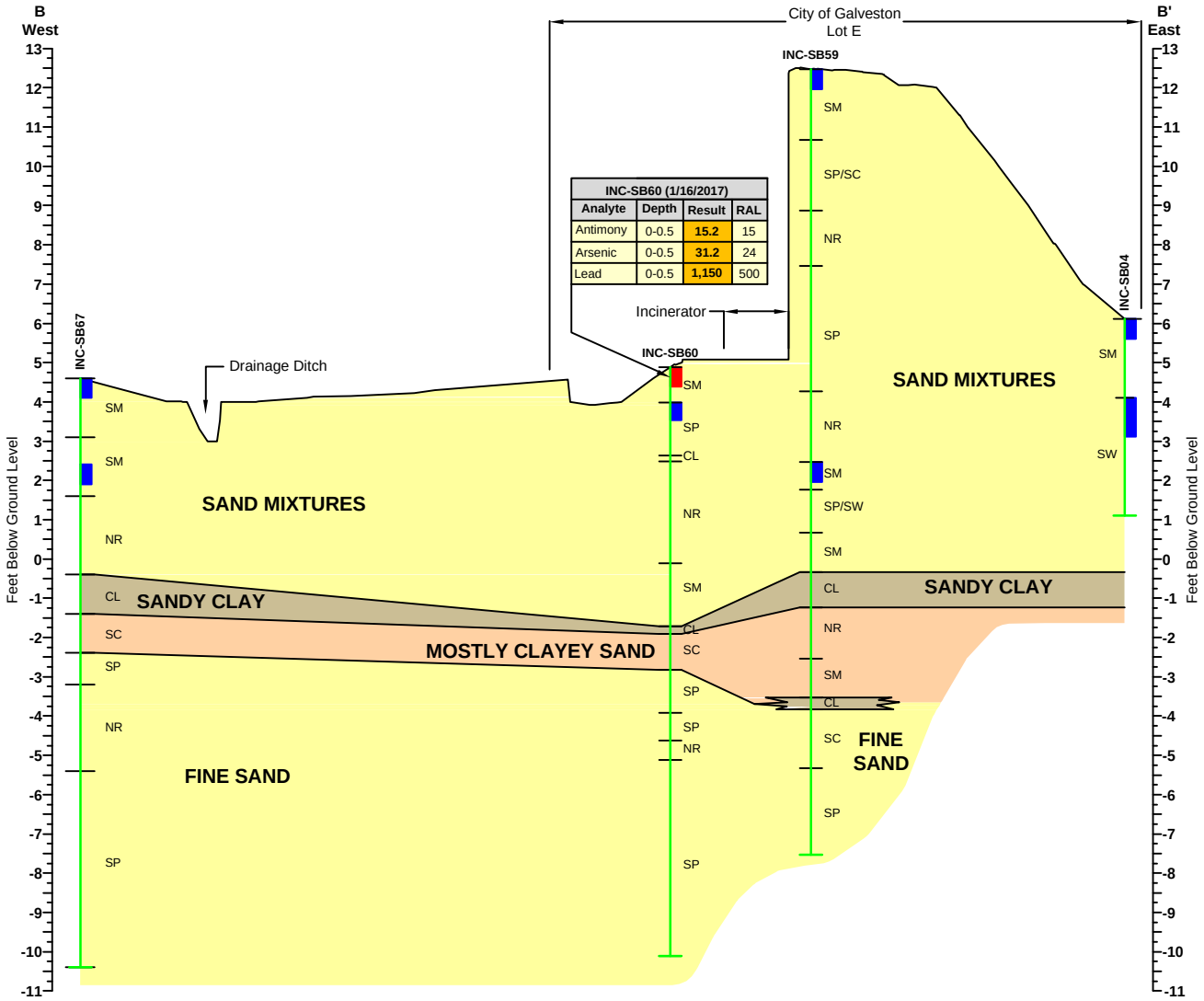
Report: Affected Property Assessment Report

Title: **Site Geologic Cross-Section A-A'**

Drawn by:	Date:	Drawing File:	Figure:
gary.callahan	Aug 29, 2017	Xsects2017Update.dwg	4C-2

File: L:\AGE\GIS\AUS_GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Xsects2017Update.dwg Layout: Fig 4C-2 Plotted: Aug 29, 2017 - 2:06pm

File: L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Xsects2017Update.dwg Layout: Fig 4C-3 Plotted: Aug 29, 2017 - 2:06pm



INC-SB60 (1/16/2017)			
Analyte	Depth	Result	RAL
Antimony	0-0.5	15.2	15
Arsenic	0-0.5	31.2	24
Lead	0-0.5	1,150	500

Legend

CL	Organic Clays with Medium to High Plasticity; Organic Silts
CH	Inorganic Clays with Low to Medium Plasticity; Gravelly Clays; Sandy Clays; Silty Clays; Lean Clays
NR	No Recovery
SC	Clayey Sands
SM	Silty Sands; Sand-Silt Mixtures
SP	Poorly Graded Sands; Gravelly Sands with Little or No Fines
SW	Well Graded Sands; Gravelly Sands with Little or No Fines

Vertical Extent of COCs (PAHs and/or Metals) > Residential $^{Tot}Soil_{Comb}$ PCL

Well Screen Interval

Sample Location Exceeding RAL

Sample Location not Exceeding RAL

STATE OF TEXAS
ROBERT A. SCHAFER
GEOLOGY
3066
LICENSED
PROFESSIONAL GEOSCIENTIST
8-29-17

45 0 90

Horizontal Scale in Feet
Vertical Exaggeration = 20X

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

Client: City of Galveston

Report: Affected Property Assessment Report

Title: **Site Geologic Cross-Section B-B'**

Drawn by:

Date: Aug 29, 2017

Figure: 4C-3

SECTION 5

GROUNDWATER ASSESSMENT

Section 5 Groundwater Assessment

Analytical results from groundwater samples collected from 2015 to 2017 have been evaluated in accordance with TRRP rules and guidance. The derivation of assessment levels and the nature and extent of COCs in groundwater are discussed below.

Section 5.1 Derivation of Assessment Levels

Assessment levels for groundwater were determined in accordance with 30 TAC §350.51 and TCEQ guidance document ***Affected Property Assessment Requirements*** (RG-366/TRRP-12). For human health exposure pathways, assessment levels were based primarily on residential, 30-acre source area Tier 1 PCLs (published March 2017). Based on the presence of potential exposure pathways, the approved MSD ordinance, and the groundwater classification (discussed in Section 2.5), groundwater data were compared to the method quantitation limit (MQL) and the applicable ${}^{Air}GW_{Inh\text{-}v}$ PCLs. Appendix 4 presents a copy of the approved MSD Certificate No. 333 for the project that prevents future use of shallow groundwater as a potable water source within the MSD boundaries. On the basis of this information, the groundwater ingestion pathway is incomplete and the ${}^{GW}GW_{Ing}$ PCL is not applicable.

Since there is no reasonably anticipated exposure pathway from groundwater to surface water or sediment, these pathways are considered incomplete. None of the identified surface water features or drainage ditches within the affected property are likely to be affected by COCs from the site or to serve as pathways for COC migration due to their transient nature and localized occurrences. None of the water features appear to be in communication with shallow groundwater. The depth of the surface water features and drainage ditches are typically no deeper than 6 inches and were located on flat areas, so no significant runoff is expected. The observed drainage ditches were on average about 1-ft deep with very little slope. The 2016 AECOM APAR referenced a pump station construction project within the affected property used for the storage of shallow groundwater. AECOM consulted with representatives from the City of Galveston and they confirmed that any water discharge from shallow groundwater usage in a temporary pump was de minimis. The temporary pump has been removed, and the construction of a multi-story permanent pump station is nearing completion. In addition, analytical results from recent groundwater samples did not reveal any RAL exceedances in the affected property.

Section 5.2 Nature and Extent of COCs and NAPL in Groundwater

The nature and extent of COCs in groundwater are discussed below. Analytical results for groundwater are summarized in Table 5B. Figure 5A presents the groundwater gradient map from April 2017. NAPL was not observed in any on- or off-site samples.

Groundwater measurements are provided in Table 5D and are based on the monitoring well survey completed in May 2017. Table 5C is not applicable.

The 2015 and 2017 field activities were data gap investigations intended to further delineate impacts to groundwater. TCEQ responded to the initial APAR submittal (Meridian, March 2006) on November 20, 2006, requesting that permanent groundwater wells be installed to determine the groundwater gradient and extent of the groundwater plume. EFI Global installed eight monitoring wells (MW-1 through MW-8) on the Site (Lot E) in 2014 as part of their assessment activities. After the 2016 AECOM APAR submittal , TCEQ responded with comments on April 28, 2016 requesting additional delineation around potential source areas (historical fire pits and ditch, former city vehicle impound yard, Lot A, and the bingo hall). Five additional monitoring wells, MW-09 through MW-13, were installed in January 2017 to address the data gaps referenced in TCEQ Comment 4. MW-12 was installed southwest of the Site to

address TCEQ Comment 15, which requested further investigation southwest of the burn pits, a source for potential groundwater impacts.

The AECOM APAR submitted in January 2016 did not include groundwater data as a MSD was anticipated as the groundwater remedy. In its response letter, the TCEQ requested additional investigations to demonstrate that concentrations of COCs do not exceed PCLs based on pathways other than the potable groundwater use pathway. This revised APAR is inclusive of the following data assessments:

- **2014 Investigation** – Sampled MW-1 through MW-8 and analyzed for metals, PAHs, and pesticides;
- **2015 Investigation** – Sampled MW-1, MW-3, and MW-7 and analyzed for VOCs, SVOCs, metals, and mercury; MW-2 was apparently destroyed and not available to sample in 2015.
- **2017 Investigation –** AECOM sampled MW-1 and MW-3 through MW-13 and analyzed for metals and SVOCs.

In addition, per the TCEQ's request, AECOM collected one groundwater sample and duplicate from MW-10 on the Site in July 2017, which was analyzed for the 16 perfluorinated compounds with PCLs. Analytical results for the 16 constituents were under the applicable TRRP PCLs.

The results of the groundwater assessment can be found in Table 5-1 below. The sample results were below the applicable groundwater RAL and will not be brought forward to Section 12.

Table 5-1 – PFOS and PFOA Results for Groundwater

Analytes	PCL ($^{Air}GW_{Inh-V}$) mg/L	MW-10 mg/L
Perfluorobutanoic acid (PFBA)	710000	**0.000090**
Perfluoropentanoic acid (PFPeA)	N/A	**0.00018**
Perfluorobutane sulfonic acid (PFBS)	470000	**0.00082**
Perfluorohexanoic acid (PFHxA)	N/A	**0.00060**
Perfluoroheptanoic acid (PFHpA)	N/A	**0.00019**
Perfluorohexane sulfonic acid (PFHxS)	57	**0.0016**
Perfluorooctanoic acid (PFOA)	12	**0.00012**
Perfluoroheptane sulfonic acid (PFHpS)	N/A	**0.000081**
Perfluorononanoic acid (PFNA)	84	**0.000076**
Perfluorooctane sulfonic acid (PFOS)	240	**0.00051**
Perfluorodecanoic acid (PFDA)	160	<0.0000041
Perfluoroundecanoic acid (PFUnDA)	N/A	<0.0000041
Perfluorooctane sulfonamide (FOSA)	0.0000068	<0.0000041
Perfluorododecanoic acid (PFDoDA)	72	<0.0000041
Perfluorotridecanoic acid (PFTrDA)	N/A	<0.0000041
N-Methyl perfluorooctane sulfonamide (MeFOSA)	N/A	<0.0000041
N-Methyl perfluorooctane sulfonamidoethanol	N/A	<0.0000041
Perfluorotetradecanoic acid (PFTeDA)	N/A	<0.0000041
N-Ethyl perfluorooctane sulfonamidoethanol	N/A	<0.0000041
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N/A	<0.0000041
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N/A	**0.0000045**
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	N/A	**0.000026**
Perfluorodecane sulfonic acid (PFDS)	N/A	<0.0000041

Notes; < - less than.
mg/L – milligrams per liter.
N/A – not applicable.
PCL – Protective Concentration Level.
Results in **bold** indicates detection

Groundwater grab samples were collected as part of the 2005 APA conducted by Meridian from the borings installed as part of the initial assessment. Since this data was not collected from monitoring wells and stabilized per TCEQ guidelines, the data was not included in this assessment. Additionally, the older data does not provide as accurate a representation of the groundwater conditions at the site as the 2014-2015 and 2017 data does.

APAR Screening Results

There were no exceedances of the RALs for VOCs, SVOCs, metals, and TPH. Therefore, no further action is warranted for groundwater, Figures 5B through 5D are not included, and Section 12 is not applicable.

SECTION 5

TABLE 5A

GROUNDWATER RESIDENTIAL ASSESSMENT LEVELS

Table 5A. Groundwater Residential Assessment Levels

No Groundwater-to-Surface Water or Sediment Pathways Complete

ID No.

GLO Galveston - 2017 APAR Revision

Water Bearing Unit: Upper

Groundwater Classification: Class 1

Date of Tier 1 Tables used for Assessment Levels: 03/31/2017

TRRP Commander v9.01 Lic. No. TCSC9010315138, AECOM (URS)

Chemical of Concern	Tier 1 Source Area	GW GW_{Ing}	Air GW_{Inh-V}	GW Sample MQL	Back-ground Conc.	Maximum Groundwater				
						Sample			Conc.	SQL
	(acres)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	ID	depth	date	(mg/L)	(mg/L)
Acenaphthene	30	MSD		5.0E-05		MW5	0.0	3/13/2014	3.4E-01	1.0E-03
Acenaphthylene	30	MSD		5.0E-05		Not Detected				2.2E-04
Acetone (2-propanone)	30	MSD	1.0E+06	1.5E-02		Not Detected				5.0E-03
Acetophenone	30	MSD		8.0E-04		Not Detected				2.2E-04
Aldrin	30	MSD	5.7E-01			Not Detected				3.3E-03
Anthracene	30	MSD		5.0E-05		MW5	0.0	4/26/2017	4.8E-03	2.2E-04
Antimony	30	MSD		2.5E-03		MW8	0.0	4/25/2017	1.9E-03	8.0E-04
Arsenic	30	MSD		5.0E-03		MW4	0.0	10/1/2014	2.1E-02	1.0E-02
Atrazine	30	MSD		8.0E-04		Not Detected				2.2E-04
Barium	30	MSD		1.0E-02		MW5	0.0	10/1/2014	4.7E-01	
Benz-a-anthracene	30	MSD	3.9E+02	5.0E-05		Not Detected				4.3E-04
Benzaldehyde	30	MSD		8.0E-04		Not Detected				4.3E-04
Benzene	30	MSD	2.3E+01	1.0E-03		Not Detected				3.0E-04
Benzo-a-pyrene	30	MSD	3.8E+00	5.0E-05		Not Detected				2.2E-04
Benzo-b-fluoranthene	30	MSD	3.1E+02	5.0E-05		Not Detected				4.3E-04
Benzo-g,h,i-perylene	30	MSD		5.0E-05		Not Detected				4.3E-04
Benzoic acid	30	MSD		6.0E-03		Not Detected				2.2E-03
Benzo-k-fluoranthene	30	MSD	1.8E+04	5.0E-05		Not Detected				4.3E-04
Benzyl alcohol	30	MSD		2.0E-03		Not Detected				5.4E-04
Beryllium	30	MSD		1.0E-03		Not Detected				3.0E-04
Biphenyl, 1,1-	30	MSD		8.0E-04		Not Detected				2.2E-04
Bis (2-chloroethoxy) methane	30	MSD	1.0E+01	8.0E-04		Not Detected				2.2E-04
Bis (2-chloroethyl) ether	30	MSD	1.2E+01	8.0E-04		Not Detected				2.2E-04
Bis (2-chloroisopropyl) ether	30	MSD	1.1E+02	8.0E-04		Not Detected				2.2E-04
Bis (2-ethyl-hexyl) phthalate	30	MSD		3.0E-03		MW3	0.0	10/1/2014	5.9E-03	1.1E-03
Bromobenzene	30	MSD	2.9E+02	1.0E-03		Not Detected				3.0E-04
Bromodichloromethane	30	MSD		1.0E-03		Not Detected				3.0E-04
Bromoform	30	MSD	6.7E+02	1.0E-03		Not Detected				3.0E-04
Bromomethane	30	MSD	6.0E+00	1.0E-03		Not Detected				3.0E-04
Bromophenyl phenylether, 4-	30	MSD	2.0E-01	8.0E-04		Not Detected				2.2E-04
Butyl benzyl phthalate	30	MSD		6.0E-03		Not Detected				2.2E-03
Butylate	30	MSD				Not Analyzed				
Butylbenzene, n-	30	MSD		1.0E-03		Not Detected				3.0E-04
Butylbenzene, sec-	30	MSD		1.0E-03		Not Detected				3.0E-04
Butylbenzene, tert-	30	MSD		1.0E-03		Not Detected				3.0E-04
Cadmium	30	MSD		1.0E-03		MW4	0.0	3/13/2014	2.6E-03	2.4E-03
Caprolactam	30	MSD		8.0E-04		Not Detected				2.2E-04
Carbazole	30	MSD		8.0E-04		Not Detected				2.2E-04
Carbon disulfide	30	MSD	6.3E+02	1.5E-02		Not Detected				5.0E-03
Carbon tetrachloride	30	MSD	2.5E+00	1.0E-03		Not Detected				3.0E-04
Chlordane (technical)	30	MSD	9.9E+01			Not Detected				1.0E-01
Chlordane, cis- (alpha chlordan	30	MSD	2.0E+01			Not Detected				3.3E-03
Chlordane, trans- (gamma chor	30	MSD	2.0E+01			Not Detected				4.9E-03
Chloride*	30	MSD				Not Analyzed				

Table 5A. Groundwater Residential Assessment Levels

No Groundwater-to-Surface Water or Sediment Pathways Complete

ID No.

GLO Galveston - 2017 APAR Revision

Water Bearing Unit: Upper

Groundwater Classification: Class 1

Date of Tier 1 Tables used for Assessment Levels: 03/31/2017

TRRP Commander v9.01 Lic. No. TCSC9010315138, AECOM (URS)

Chemical of Concern	Tier 1 Source Area	GW GW_{Ing}	Air GW_{Inh-V}	GW Sample MQL	Back-ground Conc.	Maximum Groundwater				
						Sample			Conc.	SQL
	(acres)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	ID	depth	date	(mg/L)	(mg/L)
Chloro-3-methylphenol, 4-	30	MSD		8.0E-04		Not Detected				2.2E-04
Chloroaniline, p-	30	MSD		2.0E-03		Not Detected				5.4E-04
Chlorobenzene	30	MSD	1.5E+02	1.0E-03		Not Detected				3.0E-04
Chlorobromomethane (bromoc	30	MSD		1.0E-03		Not Detected				3.0E-04
Chloroethane (ethyl chloride)	30	MSD	1.5E+04	1.0E-03		Not Detected				3.0E-04
Chloroform	30	MSD	2.6E+00	1.0E-03		Not Detected				3.0E-04
Chlorohexane, 1-	30	MSD	9.4E+02	5.0E-03		Not Detected				1.0E-03
Chloromethane (methyl chlorid	30	MSD	4.7E+00	1.0E-03		Not Detected				3.0E-04
Chloronaphthalene, 2- (chloron	30	MSD		8.0E-04		Not Detected				2.2E-04
Chlorophenol, 2-	30	MSD		8.0E-04		Not Detected				2.2E-04
Chlorophenyl phenylether, 4-	30	MSD	1.6E-01	8.0E-04		Not Detected				2.2E-04
Chlorotoluene, o- (2-chlorotolue	30	MSD	3.1E+03	1.0E-03		Not Detected				3.0E-04
Chlorotoluene, p- (4-chlorotolue	30	MSD		1.0E-03		Not Detected				3.0E-04
Chromium (total)	30	MSD		5.0E-03		MW4	0.0	3/13/2014	9.3E-04	1.0E-02
Chrysene	30	MSD	1.1E+05	5.0E-05		Not Detected				4.3E-04
Cobalt	30	MSD				Not Analyzed				
Copper	30	MSD				Not Analyzed				
Cresol, m- (3-methylphenol)	30	MSD				Not Analyzed				
Cresol, o- (2-methylphenol)	30	MSD		8.0E-04		Not Detected				2.2E-04
Cresol, p- (4-methylphenol)	30	MSD		8.0E-04		Not Detected				2.2E-04
Cumene (isopropylbenzene)	30	MSD	5.7E+02	1.0E-03		Not Detected				3.0E-04
Cycloate	30	MSD				Not Analyzed				
Cyclohexane	30	MSD	7.7E+02	1.5E-02		Not Detected				5.0E-03
Cymene (isopropyltoluene)	30	MSD		1.0E-03		Not Detected				3.0E-04
DDD	30	MSD				Not Detected				3.0E-03
DDE	30	MSD				Not Detected				6.0E-03
DDT	30	MSD	8.1E+01			Not Detected				3.5E-02
Dibenz-a,h-anthracene	30	MSD	2.0E+02	5.0E-05		Not Detected				2.2E-04
Dibenzofuran	30	MSD		8.0E-04		MW5	0.0	3/13/2014	2.6E-03	1.0E-03
Dibromo-3-chloropropane, 1,2-	30	MSD	8.0E-02	1.0E-02		Not Detected				3.0E-03
Dibromochloromethane (chloro	30	MSD		1.0E-03		Not Detected				3.0E-04
Dichlorobenzene, 1,2-	30	MSD	1.5E+02	1.0E-03		Not Detected				3.0E-04
Dichlorobenzene, 1,3-	30	MSD	2.5E+01	1.0E-03		Not Detected				3.0E-04
Dichlorobenzene, 1,4-	30	MSD	2.2E+03	1.0E-03		Not Detected				3.0E-04
Dichlorobenzidine, 3,3-	30	MSD		8.0E-04		Not Detected				4.3E-04
Dichlorodifluoromethane	30	MSD	7.8E+00	1.0E-03		Not Detected				3.0E-04
Dichloroethane, 1,1-	30	MSD	5.6E+03	1.0E-03		Not Detected				3.0E-04
Dichloroethane, 1,2-	30	MSD	3.3E+01	1.0E-03		Not Detected				3.0E-04
Dichloroethylene, 1,1-	30	MSD	2.2E+02	1.0E-03		Not Detected				3.0E-04
Dichloroethylene, cis-1,2-	30	MSD	1.6E+02	1.0E-03		MW3	0.0	6/24/2015	8.3E-03	3.0E-04
Dichloroethylene, trans-1,2	30	MSD	9.9E+01	1.0E-03		MW3	0.0	6/24/2015	1.2E-03	3.0E-04
Dichlorophenol, 2,4-	30	MSD		8.0E-04		Not Detected				2.2E-04
Dichloropropane, 1,2-	30	MSD	1.5E+01	1.0E-03		Not Detected				3.0E-04
Dichloropropane, 1,3-	30	MSD	3.3E+01	1.0E-03		Not Detected				3.0E-04

Table 5A. Groundwater Residential Assessment Levels

No Groundwater-to-Surface Water or Sediment Pathways Complete

ID No.

GLO Galveston - 2017 APAR Revision

Water Bearing Unit: Upper

Groundwater Classification: Class 1

Date of Tier 1 Tables used for Assessment Levels: 03/31/2017

TRRP Commander v9.01 Lic. No. TCSC9010315138, AECOM (URS)

Chemical of Concern	Tier 1 Source Area	GW GW_{Ing}	Air GW_{Inh-V}	GW Sample MQL	Back-ground Conc.	Maximum Groundwater				
						Sample			Conc.	SQL
	(acres)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	ID	depth	date	(mg/L)	(mg/L)
Dichloropropane, 2,2-	30	MSD	7.3E+00	1.0E-03		Not Detected				3.0E-04
Dichloropropene, 1,1-	30	MSD	2.5E+00	1.0E-03		Not Detected				3.0E-04
Dichloropropene, cis 1,3-	30	MSD	8.9E+01	1.0E-03		Not Detected				3.0E-04
Dichloropropene, trans 1,3-	30	MSD	2.5E+01	1.0E-03		Not Detected				3.0E-04
Dieldrin	30	MSD	1.6E+01			Not Detected				1.5E-03
Diethyl phthalate	30	MSD		6.0E-03		Not Detected				2.2E-03
Dimethyl phenol, 2,4-	30	MSD		8.0E-04		Not Detected				4.3E-04
Dimethylphthalate	30	MSD		6.0E-03		Not Detected				2.2E-03
Di-n-butyl phthalate	30	MSD		6.0E-03		Not Detected				2.2E-03
Dinitro-2-methylphenol, 4,6- (di	30	MSD		2.0E-03		Not Detected				5.4E-04
Dinitrophenol, 2,4-	30	MSD		4.0E-03		Not Detected				1.1E-03
Dinitrotoluene, 2,4-	30	MSD		8.0E-04		Not Detected				2.2E-04
Dinitrotoluene, 2,6-	30	MSD		8.0E-04		Not Detected				2.2E-04
Di-n-octyl phthalate	30	MSD		6.0E-03		Not Detected				2.2E-03
Dioxin (as 2,3,7,8-TCDD toxicit	30	MSD				MW3	0.0	6/24/2015	9.3E-10	
Endosulfan	30	MSD				Not Analyzed				
Endosulfan I	30	MSD				Not Detected				1.0E-03
Endosulfan II	30	MSD				Not Detected				1.8E-03
Endosulfan sulfate	30	MSD				Not Detected				1.2E-03
Endrin	30	MSD				Not Detected				1.5E-03
Endrin aldehyde	30	MSD				Not Detected				3.4E-03
Endrin ketone	30	MSD				Not Detected				1.4E-03
Ethyl benzene	30	MSD	3.8E+03	1.0E-03		Not Detected				3.0E-04
Ethyl dipropylthiocarbamate, S-	30	MSD				Not Analyzed				
Ethylene*	30	MSD				Not Analyzed				
Ethylene dibromide (dibromoet	30	MSD	7.2E-01	1.0E-03		Not Detected				3.0E-04
Fluoranthene	30	MSD		5.0E-05		MW5	0.0	3/13/2014	6.2E-03	5.2E-04
Fluorene	30	MSD		5.0E-05		MW5	0.0	3/13/2014	1.1E-01	1.0E-03
Heptachlor	30	MSD	8.1E-01			Not Detected				5.6E-03
Heptachlor epoxide	30	MSD	1.5E+01			Not Detected				1.4E-03
Hexachlorobenzene	30	MSD	7.4E-01	8.0E-04		Not Detected				2.2E-04
Hexachlorobutadiene	30	MSD	1.1E+00	8.0E-04		Not Detected				1.0E-03
Hexachlorocyclohexane, alpha	30	MSD	2.0E+01			Not Detected				3.1E-03
Hexachlorocyclohexane, beta (	30	MSD	1.5E+02			Not Detected				2.3E-03
Hexachlorocyclohexane, delta (	30	MSD	4.7E+01			Not Detected				1.3E-03
Hexachlorocyclohexane, gamm	30	MSD				Not Detected				1.7E-03
Hexachlorocyclopentadiene	30	MSD	7.0E-01	2.0E-03		Not Detected				5.4E-04
Hexachloroethane	30	MSD	9.5E+02	8.0E-04		Not Detected				2.2E-04
Hexanone, 2-	30	MSD	1.5E+03	1.5E-02		Not Detected				5.0E-03
Indeno-1,2,3-cd-pyrene	30	MSD	1.8E+03	5.0E-05		Not Detected				4.3E-04
Iron*	30	MSD				Not Analyzed				
Isophorone	30	MSD		8.0E-04		Not Detected				2.2E-04
Lead (inorganic)	30	MSD		1.0E-03		MW4	0.0	10/1/2014	4.1E-02	2.4E-03
Manganese	30	MSD				Not Analyzed				

Table 5A. Groundwater Residential Assessment Levels

No Groundwater-to-Surface Water or Sediment Pathways Complete

ID No.

GLO Galveston - 2017 APAR Revision

Water Bearing Unit: Upper

Groundwater Classification: Class 1

Date of Tier 1 Tables used for Assessment Levels: 03/31/2017

TRRP Commander v9.01 Lic. No. TCSC9010315138, AECOM (URS)

Chemical of Concern	Tier 1 Source Area	GW GW_{Ing}	Air GW_{Inh-V}	GW Sample MQL	Back-ground Conc.	Maximum Groundwater				
						Sample			Conc.	SQL
	(acres)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	ID	depth	date	(mg/L)	(mg/L)
Mercury (pH = 4.9)	30	MSD	9.4E-01	2.0E-04		MW5	0.0	3/13/2014	6.5E-05	8.0E-05
Methoxychlor	30	MSD				Not Detected				1.8E-03
Methyl acetate (acetic acid, me	30	MSD		1.5E-02		Not Detected				5.0E-03
Methyl cyclohexane	30	MSD	1.8E+02	1.5E-02		Not Detected				5.0E-03
Methyl ethyl ketone (2-butanon	30	MSD	6.2E+05	1.5E-02		Not Detected				5.0E-03
Methyl isobutyl ketone (4-meth	30	MSD	8.7E+04	1.5E-02		Not Detected				5.0E-03
Methylene bromide (dibromome	30	MSD	3.1E+01	1.0E-03		Not Detected				3.0E-04
Methylene chloride (dichlorome	30	MSD	2.8E+03	2.5E-03		Not Detected				2.5E-03
Methylnaphthalene, 2-	30	MSD		8.0E-04		MW5	0.0	10/1/2014	7.9E-02	1.0E-03
Molinate	30	MSD				Not Analyzed				
MTBE (methyl tert-butyl ether)	30	MSD	5.2E+02	1.0E-03		Not Detected				3.0E-04
Naphthalene	30	MSD	4.1E+01	5.0E-05		MW5	0.0	3/13/2014	5.8E-02	5.0E-03
Nickel and compounds	30	MSD		1.0E-02		MW4	0.0	4/26/2017	8.6E-03	3.0E-03
Nitrite	30	MSD				Not Analyzed				
Nitroaniline, 2-	30	MSD	5.2E+02	8.0E-04		Not Detected				2.2E-04
Nitroaniline, 3-	30	MSD	6.1E+02	8.0E-04		Not Detected				2.2E-04
Nitroaniline, 4-	30	MSD	1.9E+04	8.0E-04		Not Detected				4.3E-04
Nitrobenzene	30	MSD	9.3E+01	8.0E-04		Not Detected				4.3E-04
Nitrophenol, 2-	30	MSD		8.0E-04		Not Detected				4.3E-04
Nitrophenol, 4-	30	MSD		4.0E-03		Not Detected				1.1E-03
Nitrosodi-n-propylamine, n-	30	MSD		8.0E-04		Not Detected				2.2E-04
Nitrosodiphenylamine	30	MSD		8.0E-04		Not Detected				2.2E-04
Pebulate	30	MSD				Not Analyzed				
Pentachlorophenol	30	MSD		8.0E-04		Not Detected				4.3E-04
Phenanthrene	30	MSD		5.0E-05		MW5	0.0	3/13/2014	9.2E-02	8.4E-04
Phenol	30	MSD	2.1E+04	8.0E-04		Not Detected				4.3E-04
Polychlorinated biphenyls (PCB	30	MSD	3.8E-01	2.5E-04		Not Detected				1.1E-04
Propylbenzene, n-	30	MSD	7.8E+02	1.0E-03		Not Detected				3.0E-04
Pyrene	30	MSD		5.0E-05		MW5	0.0	3/13/2014	3.0E-03	4.8E-04
Selenium	30	MSD		5.0E-03		MW7	0.0	3/13/2014	1.7E-02	1.0E-02
Silver	30	MSD		2.0E-03		MW2	0.0	10/1/2014	7.4E-03	5.6E-03
Styrene	30	MSD	2.0E+03	1.0E-03		Not Detected				3.0E-04
Sulfate*	30	MSD				Not Analyzed				
Tetrachloroethane, 1,1,1,2-	30	MSD	1.4E+01	1.0E-03		Not Detected				3.0E-04
Tetrachloroethane, 1,1,2,2-	30	MSD		1.0E-03		Not Detected				3.0E-04
Tetrachloroethylene	30	MSD	6.4E+01	2.0E-03		Not Detected				6.0E-04
Toluene	30	MSD	8.2E+03	2.0E-03		Not Detected				6.0E-04
Toxaphene	30	MSD	2.3E+02			Not Detected				7.7E-02
TPH, TX1005, C6-C12	30	MSD	2.3E+02			Not Analyzed				
TPH, TX1005, >C12-C28	30	MSD	9.7E+02			Not Analyzed				
TPH, TX1005, >C28-C35	30	MSD	9.7E+02			Not Analyzed				
Trichloro-1,2,2-trifluoroethane,	30	MSD	2.0E+02	1.5E-02		Not Detected				5.0E-03
Trichlorobenzene, 1,2,3-	30	MSD	1.7E+01	5.0E-03		Not Detected				1.5E-03
Trichlorobenzene, 1,2,4-	30	MSD	2.0E+01	5.0E-03		Not Detected				1.5E-03

Table 5A. Groundwater Residential Assessment Levels

No Groundwater-to-Surface Water or Sediment Pathways Complete

ID No.

GLO Galveston - 2017 APAR Revision

Water Bearing Unit: Upper

Groundwater Classification: Class 1

Date of Tier 1 Tables used for Assessment Levels: 03/31/2017

TRRP Commander v9.01 Lic. No. TCSC9010315138, AECOM (URS)

Chemical of Concern	Tier 1 Source Area	GW GW_{Ing}	Air GW_{Inh-V}	GW Sample MQL	Back-ground Conc.	Maximum Groundwater				
						Sample			Conc.	SQL
	(acres)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	ID	depth	date	(mg/L)	(mg/L)
Trichloroethane, 1,1,1-	30	MSD	5.2E+03	1.0E-03		Not Detected				3.0E-04
Trichloroethane, 1,1,2-	30	MSD	1.0E+01	1.0E-03		Not Detected				3.0E-04
Trichloroethylene	30	MSD	3.1E+00	1.0E-03		Not Detected				6.0E-04
Trichlorofluoromethane	30	MSD		1.0E-03		Not Detected				3.0E-04
Trichlorophenol, 2,4,5-	30	MSD		8.0E-04		Not Detected				2.2E-04
Trichlorophenol, 2,4,6-	30	MSD	6.4E+03	8.0E-04		Not Detected				2.2E-04
Trichloropropane, 1,2,3-	30	MSD	4.2E+00	1.0E-03		Not Detected				3.0E-04
Trimethylbenzene, 1,2,4-	30	MSD	6.3E+02	5.0E-03		Not Detected				1.5E-03
Trimethylbenzene, 1,3,5-	30	MSD	4.9E+02	5.0E-03		Not Detected				1.5E-03
Vanadium	30	MSD				Not Analyzed				
Vernam	30	MSD				Not Analyzed				
Vinyl chloride	30	MSD	4.9E-01	1.0E-03		MW3	0.0	6/24/2015	1.0E-03	3.0E-04
Xylene, o-	30	MSD	9.8E+04	1.0E-03		Not Detected				3.0E-04
Xylene, p-	30	MSD	1.2E+03			Not Analyzed				
Xylenes	30	MSD	1.3E+03	2.0E-03		Not Detected				6.0E-04
Zinc	30	MSD				Not Analyzed				

SECTION 5

TABLE 5B

GROUNDWATER DATA SUMMARY

								Sample Location	MW1	MW1	MW1	MW1	MW1	MW1	MW1	MW1	MW2	MW2
								Sample ID	MW1 03/13/2014	MW1 DUP 03/13/2014	MW1 10/01/2014	MW1 DUP 10/01/2014	INC-MW01-010 06/24/2015	INC-MW01-011-DUP 06/24/2015	INC-MW01-010 02/02/2017	INC-MW01-020 04/26/2017	MW2 03/13/2014	MW2 10/01/2014
								Sample Date	3/13/2014	3/13/2014	10/1/2014	10/1/2014	6/24/2015	6/24/2015	2/2/2017	4/26/2017	3/13/2014	10/1/2014
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	On-Site Critical PCL	Source of On-Site Critical PCL	Off-Site Critical PCL	Source of Off-Site Critical PCL	Units										
SW6020/6020A	Antimony	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	<0.000800 U	<0.000800 U	---	---
SW6020/6020A	Arsenic	---	---	---	---	---	---	mg/L	0.00526	0.00584	0.00872 J	0.00805 J	0.00297 J	0.00256 J	0.00309 J	0.00284 J	0.00254 J	0.00957 J
SW6020/6020A	Barium	---	---	---	---	---	---	mg/L	0.256	0.288	0.0343	0.0355	0.0332	0.0339	0.0372	0.0308	0.159	0.0914
SW6020/6020A	Beryllium	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	<0.000300 U	<0.000300 UJL	---	---
SW6020/6020A	Cadmium	---	---	---	---	---	---	mg/L	<0.000139 U	<0.000139 U	<0.00243 U	<0.00243 U	<0.000300 U	<0.000300 U	<0.000300 U	<0.000300 UJL	<0.000139 U	<0.00243 U
SW6020/6020A	Chromium, total	---	---	---	---	---	---	mg/L	<0.000283 U	<0.000283 U	<0.000811 U	<0.000811 U	<0.00200 U	<0.00200 U	<0.00200 U	<0.00200 UJL	<0.000283 U	<0.000811 U
SW6020/6020A	Lead	---	---	---	---	---	---	mg/L	0.000640 J	0.000600 J	<0.00237 U	<0.00237 U	<0.000300 U	<0.000300 U	<0.000300 U	0.000410 J	<0.000152 U	<0.00237 U
SW6020/6020A	Nickel	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	<0.00300 U	<0.00300 UJL	---	---
SW6020/6020A	Selenium	---	---	---	---	---	---	mg/L	0.000590 J	0.000410 J	<0.00439 U	<0.00439 U	<0.00200 U	<0.00200 U	<0.00200 U	<0.00200 U	<0.000368 U	<0.00439 U
SW6020/6020A	Silver	---	---	---	---	---	---	mg/L	<0.000150 U	<0.000150 U	<0.00559 U	<0.00559 U	<0.00100 U	<0.00100 U	<0.00100 U	<0.00100 UJL	<0.000150 U	<0.00559 U
SW6020A Dissolved	Arsenic	---	---	---	---	---	---	mg/L	0.000573	0.00556	0.00876 J	0.0107 J	---	---	---	---	0.00206 J	0.00986 J
SW6020A Dissolved	Barium	---	---	---	---	---	---	mg/L	0.224	0.265	0.0252	0.0207	---	---	---	---	0.141	0.0778
SW6020A Dissolved	Cadmium	---	---	---	---	---	---	mg/L	<0.000139 U	<0.000139 U	<0.00243 U	<0.00243 U	---	---	---	---	<0.000139 U	<0.00243 U
SW6020A Dissolved	Chromium, total	---	---	---	---	---	---	mg/L	<0.000283 U	<0.000283 U	<0.000811 U	<0.000811 U	---	---	---	---	<0.000283 U	<0.000811 U
SW6020A Dissolved	Lead	---	---	---	---	---	---	mg/L	<0.000152 U	<0.000152 U	0.00250 J	<0.00237 U	---	---	---	---	<0.000152 U	<0.00237 U
SW6020A Dissolved	Selenium	---	---	---	---	---	---	mg/L	0.000610 J	0.00200 J	<0.00439 U	<0.00439 U	---	---	---	---	0.000690 J	<0.00439 U
SW6020A Dissolved	Silver	---	---	---	---	---	---	mg/L	<0.000150 U	<0.000150 U	<0.00559 U	<0.00559 U	---	---	---	---	<0.000150 U	0.00743 J
SW7470/7470A	Mercury	0.94	res_air_gw_inhv	1.3	ci_air_gw_inhv	0.94	res_air_gw_inhv	mg/L	<0.0000290 U	<0.0000290 U	<0.0000290 U	<0.0000290 U	<0.0000800 U	<0.0000800 U	<0.0000800 U	<0.0000800 U	<0.0000290 U	<0.0000290 U
SW7470A Dissolved	Mercury	0.94	res_air_gw_inhv	1.3	ci_air_gw_inhv	0.94	res_air_gw_inhv	mg/L	0.0000609 J	0.0000512 J	<0.0000290 U	<0.0000290 U	---	---	---	---	<0.0000290 U	<0.0000290 U
SW8081A	4,4'-DDD	---	---	---	---	---	---	mg/L	<0.00301 U	<0.00301 U	---	---	---	---	---	---	<0.00301 U	---
SW8081A	4,4'-DDE	---	---	---	---	---	---	mg/L	<0.00604 U	<0.00604 U	---	---	---	---	---	---	<0.00604 U	---
SW8081A	4,4'-DDT	81	res_air_gw_inhv	140	ci_air_gw_inhv	81	res_air_gw_inhv	mg/L	<0.0347 U	<0.0347 U	---	---	---	---	---	---	<0.0347 U	---
SW8081A	Aldrin	0.57	res_air_gw_inhv	0.96	ci_air_gw_inhv	0.57	res_air_gw_inhv	mg/L	<0.00326 U	<0.00326 U	---	---	---	---	---	---	<0.00326 U	---
SW8081A	alpha-BHC	20	res_air_gw_inhv	33	ci_air_gw_inhv	20	res_air_gw_inhv	mg/L	<0.00308 U	<0.00308 U	---	---	---	---	---	---	<0.00308 U	---
SW8081A	alpha-Chlordane	20	res_air_gw_inhv	33	ci_air_gw_inhv	20	res_air_gw_inhv	mg/L	<0.00329 U	<0.00329 U	---	---	---	---	---	---	<0.00329 U	---
SW8081A	beta-BHC	150	res_air_gw_inhv	250	ci_air_gw_inhv	150	res_air_gw_inhv	mg/L	<0.00235 U	<0.00235 U	---	---	---	---	---	---	<0.00235 U	---
SW8081A	Chlordane	99	res_air_gw_inhv	170	ci_air_gw_inhv	99	res_air_gw_inhv	mg/L	<0.103 U	<0.103 U	---	---	---	---	---	---	<0.103 U	---
SW8081A	delta-BHC	47	res_air_gw_inhv	79	ci_air_gw_inhv	47	res_air_gw_inhv	mg/L	<0.00133 U	<0.00133 U	---	---	---	---	---	---	<0.00133 U	---
SW8081A	Dieldrin	16	res_air_gw_inhv	28	ci_air_gw_inhv	16	res_air_gw_inhv	mg/L	<0.00151 U	<0.00151 U	---	---	---	---	---	---	<0.00151 U	---
SW8081A	Endosulfan I	---	---	---	---	---	---	mg/L	<0.00100 U	<0.00100 U	---	---	---	---	---	---	<0.00100 U	---
SW8081A	Endosulfan II	---	---	---	---	---	---	mg/L	<0.00177 U	<0.00177 U	---	---	---	---	---	---	<0.00177 U	---
SW8081A	Endosulfan sulfate	---	---	---	---	---	---	mg/L	<0.00116 U	<0.00116 U	---	---	---	---	---	---	<0.00116 U	---
SW8081A	Endrin	---	---	---	---	---	---	mg/L	<0.00146 U	<0.00146 U	---	---	---	---	---	---	<0.00146 U	---
SW8081A	Endrin aldehyde	---	---	---	---	---	---	mg/L	<0.00344 U	<0.00344 U	---	---	---	---	---	---	<0.00344 U	---
SW8081A	Endrin ketone	---	---	---	---	---	---	mg/L	<0.00143 U	<0.00143 U	---	---	---	---	---	---	<0.00143 U	---
SW8081A	gamma-BHC (Lindane)	---	---	---	---	---	---	mg/L	<0.00171 U	<0.00171 U	---	---	---	---	---	---	<0.00171 U	---
SW8081A	gamma-Chlordane	---	---	---	---	---	---	mg/L	<0.00489 U	<0.00489 U	---	---	---	---	---	---	<0.00489 U	---
SW8081A	Heptachlor	0.81	res_air_gw_inhv	1.4	ci_air_gw_inhv	0.81	res_air_gw_inhv	mg/L	<0.00556 U	<0.00556 U	---	---	---	---	---	---	<0.00556 U	---
SW8081A	Heptachlor epoxide	15	res_air_gw_inhv	26	ci_air_gw_inhv	15	res_air_gw_inhv	mg/L	<0.00144 U	<0.00144 U	---	---	---	---	---	---	<0.00144 U	---
SW8081A	Methoxychlor	---	---	---	---	---	---	mg/L	<0.00178 U	<0.00178 U	---	---	---	---	---	---	<0.00178 U	---
SW8081A	Toxaphene	230	res_air_gw_inhv	390	ci_air_gw_inhv	230	res_air_gw_inhv	mg/L	<0.0769 U	<0.0769 U	---	---	---	---	---	---	<0.0769 U	---
SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	14	res_air_gw_inhv	24	ci_air_gw_inhv	14	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	1,1,1-Trichloroethane	5200	res_air_gw_inhv	7300	ci_air_gw_inhv	5200	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res_air_gw_inhv	17	ci_air_gw_inhv	10	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	200	res_air_gw_inhv	280	ci_air_gw_inhv	200	res_air_gw_inhv	mg/L	---	---	---	---	<0.00500 UJL	<0.00500 UJL	---	---	---	---
SW8260/8260B/8260C	1,1-Dichloroethane	5600	res_air_gw_inhv	7800	ci_air_gw_inhv	5600	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	1,1-Dichloroethene	220	res_air_gw_inhv	300	ci_air_gw_inhv	220	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	1,1-Dichloropropene	2.5	res_air_gw_inhv	4.2	ci_air_gw_inhv	2.5	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	1,2,3-Trichlorobenzene	17	res_air_gw_inhv	24	ci_air_gw_inhv	17	res_air_gw_inhv	mg/L	---	---	---	---	<0.00150 U	<0.00150 U	---	---	---	---
SW8260/8260B/8260C	1,2,3-Trichloropropane	4.2	res_air_gw_inhv	5.8	ci_air_gw_inhv	4.2	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	1,2,4-Trichlorobenzene	20	res_air_gw_inhv	28	ci_air_gw_inhv	20	res_air_gw_inhv	mg/L	---	---	---	---	<0.00150 U	<0.00150 U	---	---	---	---
SW8260/8260B/8260C	1,2,4-Trimethylbenzene	630	res_air_gw_inhv	880	ci_air_gw_inhv	630	res_air_gw_inhv	mg/L	---	---	---	---	<0.00150 U	<0.00150 U	---	---	---	---
SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res_air_gw_inhv	0.13	ci_air_gw_inhv	0.08	res_air_gw_inhv	mg/L	---	---	---	---	<0.00300 U	<0.00300 U	---	---	---	---
SW8260/8260B/8260C	1,2-Dibromoethane	0.72	res_air_gw_inhv	1.2	ci_air_gw_inhv	0.72	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	1,2-Dichlorobenzene	150	res_air_gw_inhv	210	ci_air_gw_inhv	150	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	1,2-Dichloroethane	33	res_air_gw_inhv	55	ci_air_gw_inhv	33	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	1,2-Dichloropropane	15	res_air_gw_inhv	21	ci_air_gw_inhv	15	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	1,3,5-Trimethylbenzene	490	res_air_gw_inhv	680	ci_air_gw_inhv	490	res_air_gw_inhv	mg/L	---	---	---	---	<0.00150 U	<0.00150 U	---	---	---	---
SW8260/8260B/8260C	1,3-Dichlorobenzene	25	res_air_gw_inhv	34	ci_air_gw_inhv	25	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	1,3-Dichloropropane	33	res_air_gw_inhv	55	ci_air_gw_inhv	33	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	1,4-Dichlorobenzene	2200	res_air_gw_inhv	3100	ci_air_gw_inhv	2200	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	1-Chlorohexane	940	res_air_gw_inhv	1300	ci_air_gw_inhv	940	res_air_gw_inhv	mg/L	---	---	---	---	<0.00100 U	<0.00100 U	---	---	---	---
SW8260/8260B/8260C	2,2-Dichloropropane	7.3	res_air_gw_inhv	10	ci_air_gw_inhv	7.3	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	2-Butanone(MEK)	620000	res_air_gw_inhv	870000	ci_air_gw_inhv	620000	res_air_gw_inhv	mg/L	---	---	---	---	<0.00500 U	<0.00500 U	---	---	---	---
SW8260/8260B/8260C	2-Chlorotoluene	3100	res_air_gw_inhv	4300	ci_air_gw_inhv	3100	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---

								Sample Location	MW1	MW1	MW1	MW1	MW1	MW1	MW1	MW1	MW2	MW2
								Sample ID	MW1 03/13/2014	MW1 DUP 03/13/2014	MW1 10/01/2014	MW1 DUP 10/01/2014	INC-MW01-010 06/24/2015	INC-MW01-011-DUP 06/24/2015	INC-MW01-010 02/02/2017	INC-MW01-020 04/26/2017	MW2 03/13/2014	MW2 10/01/2014
								Sample Date	3/13/2014	3/13/2014	10/1/2014	10/1/2014	6/24/2015	6/24/2015	2/2/2017	4/26/2017	3/13/2014	10/1/2014
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	On-Site Critical PCL	Source of On-Site Critical PCL	Off-Site Critical PCL	Source of Off-Site Critical PCL	Units										
SW8260/8260B/8260C	2-Hexanone	1500	res_air_gw_inhv	2100	ci_air_gw_inhv	1500	res_air_gw_inhv	mg/L	---	---	---	---	<0.00500 U	<0.00500 U	---	---	---	---
SW8260/8260B/8260C	4-Chlorotoluene	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	87000	res_air_gw_inhv	120000	ci_air_gw_inhv	87000	res_air_gw_inhv	mg/L	---	---	---	---	<0.00500 U	<0.00500 U	---	---	---	---
SW8260/8260B/8260C	Acetone	1000000	res_air_gw_inhv	1000000	ci_air_gw_inhv	1000000	res_air_gw_inhv	mg/L	---	---	---	---	<0.00500 U	<0.00500 U	---	---	---	---
SW8260/8260B/8260C	Benzene	23	res_air_gw_inhv	39	ci_air_gw_inhv	23	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Bromobenzene	290	res_air_gw_inhv	410	ci_air_gw_inhv	290	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Bromochloromethane	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Bromodichloromethane	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Bromoform	670	res_air_gw_inhv	1100	ci_air_gw_inhv	670	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Bromomethane	6	res_air_gw_inhv	8.3	ci_air_gw_inhv	6	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Carbon disulfide	630	res_air_gw_inhv	880	ci_air_gw_inhv	630	res_air_gw_inhv	mg/L	---	---	---	---	<0.00500 U	<0.00500 U	---	---	---	---
SW8260/8260B/8260C	Carbon tetrachloride	2.5	res_air_gw_inhv	4.3	ci_air_gw_inhv	2.5	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Chlorobenzene	150	res_air_gw_inhv	210	ci_air_gw_inhv	150	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Chloroethane	15000	res_air_gw_inhv	21000	ci_air_gw_inhv	15000	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Chloroform	2.6	res_air_gw_inhv	4.3	ci_air_gw_inhv	2.6	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Chloromethane	4.7	res_air_gw_inhv	7.9	ci_air_gw_inhv	4.7	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	cis-1,2-Dichloroethene	160	res_air_gw_inhv	220	ci_air_gw_inhv	160	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	cis-1,3-Dichloropropene	89	res_air_gw_inhv	120	ci_air_gw_inhv	89	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Cyclohexane	770	res_air_gw_inhv	1100	ci_air_gw_inhv	770	res_air_gw_inhv	mg/L	---	---	---	---	<0.00500 UX7	<0.00500 UX7	---	---	---	---
SW8260/8260B/8260C	Dibromochloromethane	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Dibromomethane	31	res_air_gw_inhv	43	ci_air_gw_inhv	31	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Dichlorodifluoromethane	7.8	res_air_gw_inhv	11	ci_air_gw_inhv	7.8	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Ethylbenzene	3800	res_air_gw_inhv	5400	ci_air_gw_inhv	3800	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Hexachlorobutadiene	1.1	res_air_gw_inhv	1.9	ci_air_gw_inhv	1.1	res_air_gw_inhv	mg/L	---	---	---	---	<0.00100 U	<0.00100 U	---	---	---	---
SW8260/8260B/8260C	Isopropylbenzene	570	res_air_gw_inhv	800	ci_air_gw_inhv	570	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	m & p-Xylene	1400	res_air_gw_inhv	1900	ci_air_gw_inhv	1400	res_air_gw_inhv	mg/L	---	---	---	---	<0.000600 U	<0.000600 U	---	---	---	---
SW8260/8260B/8260C	Methyl acetate	---	---	---	---	---	---	mg/L	---	---	---	---	<0.00500 U	<0.00500 U	---	---	---	---
SW8260/8260B/8260C	Methyl t-butyl ether	520	res_air_gw_inhv	880	ci_air_gw_inhv	520	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Methylcyclohexane	180	res_air_gw_inhv	260	ci_air_gw_inhv	180	res_air_gw_inhv	mg/L	---	---	---	---	<0.00500 U	<0.00500 U	---	---	---	---
SW8260/8260B/8260C	Methylene chloride	2800	res_air_gw_inhv	4600	ci_air_gw_inhv	2800	res_air_gw_inhv	mg/L	---	---	---	---	<0.00250 U	<0.00250 U	---	---	---	---
SW8260/8260B/8260C	Naphthalene	41	res_air_gw_inhv	57	ci_air_gw_inhv	41	res_air_gw_inhv	mg/L	---	---	---	---	<0.00500 U	<0.00500 U	---	---	---	---
SW8260/8260B/8260C	n-Butylbenzene	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	n-Propylbenzene	780	res_air_gw_inhv	1100	ci_air_gw_inhv	780	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	o-Xylene	98000	res_air_gw_inhv	140000	ci_air_gw_inhv	98000	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	p-Isopropyltoluene	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	sec-Butylbenzene	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Styrene	2000	res_air_gw_inhv	2700	ci_air_gw_inhv	2000	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	tert-Butylbenzene	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Tetrachloroethene	64	res_air_gw_inhv	110	ci_air_gw_inhv	64	res_air_gw_inhv	mg/L	---	---	---	---	<0.000600 U	<0.000600 U	---	---	---	---
SW8260/8260B/8260C	Toluene	8200	res_air_gw_inhv	12000	ci_air_gw_inhv	8200	res_air_gw_inhv	mg/L	---	---	---	---	<0.000600 U	<0.000600 U	---	---	---	---
SW8260/8260B/8260C	trans-1,2-Dichloroethene	99	res_air_gw_inhv	140	ci_air_gw_inhv	99	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	trans-1,3-Dichloropropene	25	res_air_gw_inhv	41	ci_air_gw_inhv	25	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Trichloroethene	3.1	res_air_gw_inhv	4.3	ci_air_gw_inhv	3.1	res_air_gw_inhv	mg/L	---	---	---	---	<0.000600 U	<0.000600 U	---	---	---	---
SW8260/8260B/8260C	Trichlorofluoromethane	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8260/8260B/8260C	Vinyl chloride	0.49	res_air_gw_inhv	0.83	ci_air_gw_inhv	0.49	res_air_gw_inhv	mg/L	---	---	---	---	<0.000300 U	<0.000300 U	---	---	---	---
SW8270/8270C/8270D	2,4,5-Trichlorophenol	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	2,4,6-Trichlorophenol	6400	res_air_gw_inhv	11000	ci_air_gw_inhv	6400	res_air_gw_inhv	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	2,4-Dichlorophenol	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	2,4-Dimethylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000431 U	<0.000429 U	---	---	---	---
SW8270/8270C/8270D	2,4-Dinitrophenol	---	---	---	---	---	---	mg/L	---	---	---	---	<0.00108 UJL	<0.00107 UJL	---	---	---	---
SW8270/8270C/8270D	2,4-Dinitrotoluene	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	2,6-Dinitrotoluene	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	2-Chloronaphthalene	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	2-Chlorophenol	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	2-Methylnaphthalene	---	---	---	---	---	---	mg/L	---	---	<0.000996 U	<0.00101 U	<0.000216 U	<0.000215 U	---	---	---	<0.00101 U
SW8270/8270C/8270D	2-Methylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	2-Nitroaniline	520	res_air_gw_inhv	720	ci_air_gw_inhv	520	res_air_gw_inhv	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	2-Nitrophenol	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000431 U	<0.000429 U	---	---	---	---
SW8270/8270C/8270D	3,3'-Dichlorobenzidine	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000431 UJL	<0.000429 UJL	---	---	---	---
SW8270/8270C/8270D	3-Nitroaniline	610	res_air_gw_inhv	860	ci_air_gw_inhv	610	res_air_gw_inhv	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000539 U	<0.000537 U	---	---	---	---
SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.2	res_air_gw_inhv	0.34	ci_air_gw_inhv	0.2	res_air_gw_inhv	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	4-Chloro-3-methylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	4-Chloroaniline	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000539 U	<0.000537 U	---	---	---	---
SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.16	res_air_gw_inhv	0.27	ci_air_gw_inhv	0.16	res_air_gw_inhv	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	4-Methylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	4-Nitroaniline	19000	res_air_gw_inhv	26000	ci_air_gw_inhv	19000	res_air_gw_inhv	mg/L	---	---	---	---	<0.000431 U	<0.000429 U	---	---	---	---

								Sample Location	MW1	MW1	MW1	MW1	MW1	MW1	MW1	MW1	MW2	MW2
								Sample ID	MW1 03/13/2014	MW1 DUP 03/13/2014	MW1 10/01/2014	MW1 DUP 10/01/2014	INC-MW01-010 06/24/2015	INC-MW01-011-DUP 06/24/2015	INC-MW01-010 02/02/2017	INC-MW01-020 04/26/2017	MW2 03/13/2014	MW2 10/01/2014
								Sample Date	3/13/2014	3/13/2014	10/1/2014	10/1/2014	6/24/2015	6/24/2015	2/2/2017	4/26/2017	3/13/2014	10/1/2014
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	On-Site Critical PCL	Source of On-Site Critical PCL	Off-Site Critical PCL	Source of Off-Site Critical PCL	Units										
SW8270/8270C/8270D	4-Nitrophenol	---	---	---	---	---	---	mg/L	---	---	---	---	<0.00108 U	<0.00107 U	---	---	---	---
SW8270/8270C/8270D	Acenaphthene	---	---	---	---	---	---	mg/L	<0.00000500 U	<0.00000500 U	<0.000987 U	<0.00100 U	<0.000216 U	<0.000215 U	<0.0000300 U	<0.0000300 U	0.000200	<0.000997 U
SW8270/8270C/8270D	Acenaphthylene	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	<0.0000300 U	<0.0000300 U	---	---
SW8270/8270C/8270D	Acetophenone	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	Anthracene	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	<0.0000300 U	<0.0000300 U	---	---
SW8270/8270C/8270D	Aroclor 1016	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	<0.000107 U	<0.000103 U	---	---	---	---
SW8270/8270C/8270D	Aroclor 1221	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	<0.000107 U	<0.000103 U	---	---	---	---
SW8270/8270C/8270D	Aroclor 1232	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	<0.000107 U	<0.000103 U	---	---	---	---
SW8270/8270C/8270D	Aroclor 1242	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	<0.000107 U	<0.000103 U	---	---	---	---
SW8270/8270C/8270D	Aroclor 1248	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	<0.000107 U	<0.000103 U	---	---	---	---
SW8270/8270C/8270D	Aroclor 1254	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	<0.000107 U	<0.000103 U	---	---	---	---
SW8270/8270C/8270D	Aroclor 1260	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	<0.000107 U	<0.000103 U	---	---	---	---
SW8270/8270C/8270D	Atrazine	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	Benzaldehyde	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000431 UX7	<0.000429 UX7	---	---	---	---
SW8270/8270C/8270D	Benzo(a)anthracene	390	res_air_gw_inhv	650	ci_air_gw_inhv	390	res_air_gw_inhv	mg/L	---	---	---	---	<0.000431 U	<0.000429 U	<0.0000300 U	<0.0000300 U	---	---
SW8270/8270C/8270D	Benzo(a)pyrene	3.8	res_air_gw_inhv	5.3	ci_air_gw_inhv	3.8	res_air_gw_inhv	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	<0.0000300 U	<0.0000300 U	---	---
SW8270/8270C/8270D	Benzo(b)fluoranthene	310	res_air_gw_inhv	520	ci_air_gw_inhv	310	res_air_gw_inhv	mg/L	---	---	---	---	<0.000431 U	<0.000429 U	<0.0000300 U	<0.0000300 U	---	---
SW8270/8270C/8270D	Benzo(g,h,i)perylene	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000431 U	<0.000429 U	<0.0000300 U	<0.0000300 U	---	---
SW8270/8270C/8270D	Benzo(k)fluoranthene	18000	res_air_gw_inhv	31000	ci_air_gw_inhv	18000	res_air_gw_inhv	mg/L	---	---	---	---	<0.000431 U	<0.000429 U	<0.0000300 U	<0.0000300 U	---	---
SW8270/8270C/8270D	Benzoic acid	---	---	---	---	---	---	mg/L	---	---	---	---	<0.00216 U	<0.00215 U	---	---	---	---
SW8270/8270C/8270D	Benzyl alcohol	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000539 U	<0.000537 U	---	---	---	---
SW8270/8270C/8270D	Biphenyl	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	10	res_air_gw_inhv	17	ci_air_gw_inhv	10	res_air_gw_inhv	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	bis(2-Chloroethyl) ether	12	res_air_gw_inhv	20	ci_air_gw_inhv	12	res_air_gw_inhv	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	110	res_air_gw_inhv	190	ci_air_gw_inhv	110	res_air_gw_inhv	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	---	---	---	---	---	---	mg/L	---	---	0.00206 J	0.00216 J	<0.00108 U	<0.00107 U	---	---	---	0.00102 J
SW8270/8270C/8270D	Butylbenzylphthalate	---	---	---	---	---	---	mg/L	---	---	---	---	<0.00216 U	<0.00215 U	---	---	---	---
SW8270/8270C/8270D	Caprolactam	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	Carbazole	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	Chrysene	110000	res_air_gw_inhv	190000	ci_air_gw_inhv	110000	res_air_gw_inhv	mg/L	---	---	---	---	<0.000431 U	<0.000429 U	<0.0000300 U	<0.0000300 U	---	---
SW8270/8270C/8270D	Dibenz(a,h)anthracene	200	res_air_gw_inhv	330	ci_air_gw_inhv	200	res_air_gw_inhv	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	<0.0000300 U	<0.0000300 U	---	---
SW8270/8270C/8270D	Dibenzofuran	---	---	---	---	---	---	mg/L	<0.00000600 U	<0.00000600 U	<0.00101 U	<0.00103 U	<0.000216 U	<0.000215 U	---	---	<0.00000600 U	<0.00102 U
SW8270/8270C/8270D	Diethyl phthalate	---	---	---	---	---	---	mg/L	---	---	---	---	<0.00216 U	<0.00215 U	---	---	---	---
SW8270/8270C/8270D	Dimethyl phthalate	---	---	---	---	---	---	mg/L	---	---	---	---	<0.00216 U	<0.00215 U	---	---	---	---
SW8270/8270C/8270D	Di-n-butylphthalate	---	---	---	---	---	---	mg/L	---	---	---	---	<0.00216 U	<0.00215 U	---	---	---	---
SW8270/8270C/8270D	Di-n-octylphthalate	---	---	---	---	---	---	mg/L	---	---	---	---	<0.00216 U	<0.00215 U	---	---	---	---
SW8270/8270C/8270D	Fluoranthene	---	---	---	---	---	---	mg/L	<0.00000600 U	<0.00000600 U	<0.000515 U	<0.000523 U	<0.000216 UJ	<0.000215 UJ	<0.0000300 U	<0.0000300 U	0.0000621	<0.000520 U
SW8270/8270C/8270D	Fluorene	---	---	---	---	---	---	mg/L	<0.00000600 U	<0.00000600 U	<0.00102 U	<0.00103 U	<0.000216 U	<0.000215 U	<0.0000300 U	<0.0000300 U	0.000117	<0.00103 U
SW8270/8270C/8270D	Hexachlorobenzene	0.74	res_air_gw_inhv	1.2	ci_air_gw_inhv	0.74	res_air_gw_inhv	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	Hexachlorobutadiene	1.1	res_air_gw_inhv	1.9	ci_air_gw_inhv	1.1	res_air_gw_inhv	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	Hexachlorocyclopentadiene	0.7	res_air_gw_inhv	0.98	ci_air_gw_inhv	0.7	res_air_gw_inhv	mg/L	---	---	---	---	<0.000539 U	<0.000537 U	---	---	---	---
SW8270/8270C/8270D	Hexachloroethane	950	res_air_gw_inhv	1300	ci_air_gw_inhv	950	res_air_gw_inhv	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	1800	res_air_gw_inhv	3000	ci_air_gw_inhv	1800	res_air_gw_inhv	mg/L	---	---	---	---	<0.000431 U	<0.000429 U	<0.0000300 U	<0.0000300 U	---	---
SW8270/8270C/8270D	Isophorone	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	Naphthalene	41	res_air_gw_inhv	57	ci_air_gw_inhv	41	res_air_gw_inhv	mg/L	<0.0000150 U	<0.0000150 U	<0.000987 U	<0.00100 U	<0.000216 U	<0.000215 U	<0.0000300 U	<0.0000300 U	<0.0000150 U	<0.000997 U
SW8270/8270C/8270D	Nitrobenzene	93	res_air_gw_inhv	160	ci_air_gw_inhv	93	res_air_gw_inhv	mg/L	---	---	---	---	<0.000431 U	<0.000429 U	---	---	---	---
SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	N-Nitrosodiphenylamine	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000216 U	<0.000215 U	---	---	---	---
SW8270/8270C/8270D	Pentachlorophenol	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000431 UJL	<0.000429 UJL	---	---	---	---
SW8270/8270C/8270D	Phenanthrene	---	---	---	---	---	---	mg/L	<0.00000700 U	<0.00000700 U	<0.000821 U	<0.000833 U	<0.000216 U	<0.000215 U	<0.0000300 U	<0.0000300 U	0.0000988	<0.000829 U
SW8270/8270C/8270D	Phenol	21000	res_air_gw_inhv	29000	ci_air_gw_inhv	21000	res_air_gw_inhv	mg/L	---	---	---	---	<0.000431 U	<0.000429 U	---	---	---	---
SW8270/8270C/8270D	Pyrene	---	---	---	---	---	---	mg/L	<0.00000700 U	<0.00000700 U	<0.000472 U	<0.000480 U	<0.000431 U	<0.000429 U	<0.0000300 U	<0.0000300 U	<0.0000370 U	<0.000477 U
SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	mg/L	---	---	---	---	0.000000000806 U	0.000000000306 U	---	---	---	---
SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	mg/L	---	---	---	---	0.000000000164 U	0.000000000261 U	---	---	---	---
SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	mg/L	---	---	---	---	<0.0000000000457 U	<0.000000000105 U	---	---	---	---
SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	mg/L	---	---	---	---	0.000000000118 U	<0.000000000170 U	---	---	---	---
SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	mg/L	---	---	---	---	0.0000000000886 JH	0.000000000301 J	---	---	---	---
SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	mg/L	---	---	---	---	<0.0000000000806 U	<0.000000000175 U	---	---	---	---
SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	mg/L	---	---	---	---	0.0000000000762 U	0.000000000212 U	---	---	---	---

								Sample Location	MW1	MW1	MW1	MW1	MW1	MW1	MW1	MW1	MW2	MW2
								Sample ID	MW1 03/13/2014	MW1 DUP 03/13/2014	MW1 10/01/2014	MW1 DUP 10/01/2014	INC-MW01-010 06/24/2015	INC-MW01-011-DUP 06/24/2015	INC-MW01-010 02/02/2017	INC-MW01-020 04/26/2017	MW2 03/13/2014	MW2 10/01/2014
								Sample Date	3/13/2014	3/13/2014	10/1/2014	10/1/2014	6/24/2015	6/24/2015	2/2/2017	4/26/2017	3/13/2014	10/1/2014
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	On-Site Critical PCL	Source of On-Site Critical PCL	Off-Site Critical PCL	Source of Off-Site Critical PCL	Units										
SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	mg/L	---	---	---	---	<0.0000000000890 U	<0.000000000177 U	---	---	---	---
SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	mg/L	---	---	---	---	0.000000000562 U	0.000000000361 U	---	---	---	---
SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000000000147 U	0.000000000258 U	---	---	---	---
SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	mg/L	---	---	---	---	0.000000000500 U	0.000000000699 U	---	---	---	---
SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	mg/L	---	---	---	---	0.0000000000613 U	0.000000000237 U	---	---	---	---
SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	mg/L	---	---	---	---	0.000000000236 U	0.000000000269 U	---	---	---	---
SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000000000148 U	<0.000000000370 U	---	---	---	---
SW8290A	2,3,7,8-TCDD (TEQs)	---	---	---	---	---	---	mg/L	---	---	---	---	1.88E-10	4.78E-10	---	---	---	---
SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	mg/L	---	---	---	---	<0.000000000127 U	<0.000000000255 U	---	---	---	---
SW8290A	OCDD	---	---	---	---	---	---	mg/L	---	---	---	---	0.00000000518 U	0.00000000455 U	---	---	---	---
SW8290A	OCDF	---	---	---	---	---	---	mg/L	---	---	---	---	0.000000000393 U	0.000000000579 U	---	---	---	---

								Sample Location	MW3	MW3	MW3	MW3	MW3	MW4	MW4	MW4	MW4	MW5
								Sample ID	MW3 03/13/2014	MW3 10/01/2014	INC-MW03-013 06/24/2015	INC-MW03-010 02/01/2017	INC-MW03-020 04/26/2017	MW4 03/13/2014	MW4 10/01/2014	INC-MW04-010 02/01/2017	INC-MW04-020 04/26/2017	MW5 03/13/2014
								Sample Date	3/13/2014	10/1/2014	6/24/2015	2/1/2017	4/26/2017	3/13/2014	10/1/2014	2/1/2017	4/26/2017	3/13/2014
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	On-Site Critical PCL	Source of On-Site Critical PCL	Off-Site Critical PCL	Source of Off-Site Critical PCL	Units										
SW6020/6020A	Antimony	---	---	---	---	---	---	mg/L	---	---	---	<0.000800 U	<0.000800 U	---	---	<0.000800 U	0.000991 J	---
SW6020/6020A	Arsenic	---	---	---	---	---	---	mg/L	0.00350 J	0.00983 J	0.00594	0.00637	0.00502	0.00337 J	0.0208	0.00404 J	0.00321 J	0.0101
SW6020/6020A	Barium	---	---	---	---	---	---	mg/L	0.101	0.145	0.100	0.138	0.0821	0.337	0.470	0.146	0.159	0.429
SW6020/6020A	Beryllium	---	---	---	---	---	---	mg/L	---	---	---	<0.000300 U	<0.000300 UJL	---	---	<0.000300 U	<0.000300 UJL	---
SW6020/6020A	Cadmium	---	---	---	---	---	---	mg/L	<0.000696 U	<0.00243 U	<0.000300 U	<0.000300 U	<0.000300 UJL	0.00264	<0.00243 U	<0.000300 U	<0.000300 UJL	<0.000139 U
SW6020/6020A	Chromium, total	---	---	---	---	---	---	mg/L	<0.00142 U	<0.000811 U	<0.00200 U	<0.00200 U	<0.00200 UJL	0.000930 J	<0.000811 U	<0.00200 U	<0.00200 UJL	<0.000283 U
SW6020/6020A	Lead	---	---	---	---	---	---	mg/L	0.00360 J	<0.00237 U	0.000667 J	0.000763 J	<0.000300 U	0.0347	0.0413	0.00904	0.00665	0.000940 J
SW6020/6020A	Nickel	---	---	---	---	---	---	mg/L	---	---	---	<0.00300 U	<0.00300 UJL	---	---	0.00699 J	0.00857 JL	---
SW6020/6020A	Selenium	---	---	---	---	---	---	mg/L	<0.00184 U	<0.00439 U	<0.00200 U	<0.00200 U	<0.00200 U	0.000780 J	<0.00439 U	<0.00200 U	<0.00200 U	0.000370 J
SW6020/6020A	Silver	---	---	---	---	---	---	mg/L	<0.000748 U	<0.00559 U	<0.00100 U	<0.00100 U	<0.00100 UJL	<0.000150 U	<0.00559 U	<0.00100 U	<0.00100 UJL	<0.000150 U
SW6020A Dissolved	Arsenic	---	---	---	---	---	---	mg/L	<0.00309 U	0.00883 J	---	---	---	0.00244 J	0.00816 J	---	---	0.00400 J
SW6020A Dissolved	Barium	---	---	---	---	---	---	mg/L	0.0945	0.134	---	---	---	0.288	0.441	---	---	0.352
SW6020A Dissolved	Cadmium	---	---	---	---	---	---	mg/L	<0.000696 U	<0.00243 U	---	---	---	0.00220	<0.00243 U	---	---	<0.000139 U
SW6020A Dissolved	Chromium, total	---	---	---	---	---	---	mg/L	<0.00142 U	<0.000811 U	---	---	---	<0.000283 U	<0.000811 U	---	---	<0.000283 U
SW6020A Dissolved	Lead	---	---	---	---	---	---	mg/L	<0.000758 U	<0.00237 U	---	---	---	0.00202	<0.00237 U	---	---	<0.000152 U
SW6020A Dissolved	Selenium	---	---	---	---	---	---	mg/L	<0.00184 U	<0.00439 U	---	---	---	0.000420 J	<0.00439 U	---	---	0.000480 J
SW6020A Dissolved	Silver	---	---	---	---	---	---	mg/L	<0.000748 U	<0.00559 U	---	---	---	<0.000150 U	<0.00559 U	---	---	<0.000150 U
SW7470/7470A	Mercury	0.94	res_air_gw_inhv	1.3	ci_air_gw_inhv	0.94	res_air_gw_inhv	mg/L	<0.0000290 U	<0.0000290 U	<0.0000800 U	<0.0000800 U	<0.0000800 U	<0.0000290 U	<0.0000290 U	<0.0000800 U	<0.0000800 U	<0.0000290 U
SW7470A Dissolved	Mercury	0.94	res_air_gw_inhv	1.3	ci_air_gw_inhv	0.94	res_air_gw_inhv	mg/L	<0.0000290 U	<0.0000290 U	---	---	---	0.0000535 J	<0.0000290 U	---	---	0.0000647 J
SW8081A	4,4'-DDD	---	---	---	---	---	---	mg/L	<0.00301 U	---	---	---	---	<0.00301 U	---	---	---	<0.00301 U
SW8081A	4,4'-DDE	---	---	---	---	---	---	mg/L	<0.00604 U	---	---	---	---	<0.00604 U	---	---	---	<0.00604 U
SW8081A	4,4'-DDT	81	res_air_gw_inhv	140	ci_air_gw_inhv	81	res_air_gw_inhv	mg/L	<0.0347 U	---	---	---	---	<0.0347 U	---	---	---	<0.0347 U
SW8081A	Aldrin	0.57	res_air_gw_inhv	0.96	ci_air_gw_inhv	0.57	res_air_gw_inhv	mg/L	<0.00326 U	---	---	---	---	<0.00326 U	---	---	---	<0.00326 U
SW8081A	alpha-BHC	20	res_air_gw_inhv	33	ci_air_gw_inhv	20	res_air_gw_inhv	mg/L	<0.00308 U	---	---	---	---	<0.00308 U	---	---	---	<0.00308 U
SW8081A	alpha-Chlordane	20	res_air_gw_inhv	33	ci_air_gw_inhv	20	res_air_gw_inhv	mg/L	<0.00329 U	---	---	---	---	<0.00329 U	---	---	---	<0.00329 U
SW8081A	beta-BHC	150	res_air_gw_inhv	250	ci_air_gw_inhv	150	res_air_gw_inhv	mg/L	<0.00235 U	---	---	---	---	<0.00235 U	---	---	---	<0.00235 U
SW8081A	Chlordane	99	res_air_gw_inhv	170	ci_air_gw_inhv	99	res_air_gw_inhv	mg/L	<0.103 U	---	---	---	---	<0.103 U	---	---	---	<0.103 U
SW8081A	delta-BHC	47	res_air_gw_inhv	79	ci_air_gw_inhv	47	res_air_gw_inhv	mg/L	<0.00133 U	---	---	---	---	<0.00133 U	---	---	---	<0.00133 U
SW8081A	Dieldrin	16	res_air_gw_inhv	28	ci_air_gw_inhv	16	res_air_gw_inhv	mg/L	<0.00151 U	---	---	---	---	<0.00151 U	---	---	---	<0.00151 U
SW8081A	Endosulfan I	---	---	---	---	---	---	mg/L	<0.00100 U	---	---	---	---	<0.00100 U	---	---	---	<0.00100 U
SW8081A	Endosulfan II	---	---	---	---	---	---	mg/L	<0.00177 U	---	---	---	---	<0.00177 U	---	---	---	<0.00177 U
SW8081A	Endosulfan sulfate	---	---	---	---	---	---	mg/L	<0.00116 U	---	---	---	---	<0.00116 U	---	---	---	<0.00116 U
SW8081A	Endrin	---	---	---	---	---	---	mg/L	<0.00146 U	---	---	---	---	<0.00146 U	---	---	---	<0.00146 U
SW8081A	Endrin aldehyde	---	---	---	---	---	---	mg/L	<0.00344 U	---	---	---	---	<0.00344 U	---	---	---	<0.00344 U
SW8081A	Endrin ketone	---	---	---	---	---	---	mg/L	<0.00143 U	---	---	---	---	<0.00143 U	---	---	---	<0.00143 U
SW8081A	gamma-BHC (Lindane)	---	---	---	---	---	---	mg/L	<0.00171 U	---	---	---	---	<0.00171 U	---	---	---	<0.00171 U
SW8081A	gamma-Chlordane	---	---	---	---	---	---	mg/L	<0.00489 U	---	---	---	---	<0.00489 U	---	---	---	<0.00489 U
SW8081A	Heptachlor	0.81	res_air_gw_inhv	1.4	ci_air_gw_inhv	0.81	res_air_gw_inhv	mg/L	<0.00556 U	---	---	---	---	<0.00556 U	---	---	---	<0.00556 U
SW8081A	Heptachlor epoxide	15	res_air_gw_inhv	26	ci_air_gw_inhv	15	res_air_gw_inhv	mg/L	<0.00144 U	---	---	---	---	<0.00144 U	---	---	---	<0.00144 U
SW8081A	Methoxychlor	---	---	---	---	---	---	mg/L	<0.00178 U	---	---	---	---	<0.00178 U	---	---	---	<0.00178 U
SW8081A	Toxaphene	230	res_air_gw_inhv	390	ci_air_gw_inhv	230	res_air_gw_inhv	mg/L	<0.0769 U	---	---	---	---	<0.0769 U	---	---	---	<0.0769 U
SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	14	res_air_gw_inhv	24	ci_air_gw_inhv	14	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1,1-Trichloroethane	5200	res_air_gw_inhv	7300	ci_air_gw_inhv	5200	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	---	---	---	---	---	---	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res_air_gw_inhv	17	ci_air_gw_inhv	10	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	200	res_air_gw_inhv	280	ci_air_gw_inhv	200	res_air_gw_inhv	mg/L	---	---	<0.00500 UJL	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1-Dichloroethane	5600	res_air_gw_inhv	7800	ci_air_gw_inhv	5600	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1-Dichloroethene	220	res_air_gw_inhv	300	ci_air_gw_inhv	220	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1-Dichloropropene	2.5	res_air_gw_inhv	4.2	ci_air_gw_inhv	2.5	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2,3-Trichlorobenzene	17	res_air_gw_inhv	24	ci_air_gw_inhv	17	res_air_gw_inhv	mg/L	---	---	<0.00150 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2,3-Trichloropropane	4.2	res_air_gw_inhv	5.8	ci_air_gw_inhv	4.2	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2,4-Trichlorobenzene	20	res_air_gw_inhv	28	ci_air_gw_inhv	20	res_air_gw_inhv	mg/L	---	---	<0.00150 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2,4-Trimethylbenzene	630	res_air_gw_inhv	880	ci_air_gw_inhv	630	res_air_gw_inhv	mg/L	---	---	<0.00150 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res_air_gw_inhv	0.13	ci_air_gw_inhv	0.08	res_air_gw_inhv	mg/L	---	---	<0.00300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2-Dibromoethane	0.72	res_air_gw_inhv	1.2	ci_air_gw_inhv	0.72	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2-Dichlorobenzene	150	res_air_gw_inhv	210	ci_air_gw_inhv	150	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2-Dichloroethane	33	res_air_gw_inhv	55	ci_air_gw_inhv	33	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2-Dichloropropane	15	res_air_gw_inhv	21	ci_air_gw_inhv	15	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,3,5-Trimethylbenzene	490	res_air_gw_inhv	680	ci_air_gw_inhv	490	res_air_gw_inhv	mg/L	---	---	<0.00150 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,3-Dichlorobenzene	25	res_air_gw_inhv	34	ci_air_gw_inhv	25	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,3-Dichloropropane	33	res_air_gw_inhv	55	ci_air_gw_inhv	33	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,4-Dichlorobenzene	2200	res_air_gw_inhv	3100	ci_air_gw_inhv	2200	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	1-Chlorohexane	940	res_air_gw_inhv	1300	ci_air_gw_inhv	940	res_air_gw_inhv	mg/L	---	---	<0.00100 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	2,2-Dichloropropane	7.3	res_air_gw_inhv	10	ci_air_gw_inhv	7.3	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	2-Butanone(MEK)	620000	res_air_gw_inhv	870000	ci_air_gw_inhv	620000	res_air_gw_inhv	mg/L	---	---	<0.00500 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	2-Chlorotoluene	3100	res_air_gw_inhv	4300	ci_air_gw_inhv	3100	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---

								Sample Location	MW3	MW3	MW3	MW3	MW3	MW4	MW4	MW4	MW4	MW5
								Sample ID	MW3 03/13/2014	MW3 10/01/2014	INC-MW03-013 06/24/2015	INC-MW03-010 02/01/2017	INC-MW03-020 04/26/2017	MW4 03/13/2014	MW4 10/01/2014	INC-MW04-010 02/01/2017	INC-MW04-020 04/26/2017	MW5 03/13/2014
								Sample Date	3/13/2014	10/1/2014	6/24/2015	2/1/2017	4/26/2017	3/13/2014	10/1/2014	2/1/2017	4/26/2017	3/13/2014
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	On-Site Critical PCL	Source of On-Site Critical PCL	Off-Site Critical PCL	Source of Off-Site Critical PCL	Units										
SW8260/8260B/8260C	2-Hexanone	1500	res_air_gw_inhv	2100	ci_air_gw_inhv	1500	res_air_gw_inhv	mg/L	---	---	<0.00500 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	4-Chlorotoluene	---	---	---	---	---	---	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	87000	res_air_gw_inhv	120000	ci_air_gw_inhv	87000	res_air_gw_inhv	mg/L	---	---	<0.00500 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Acetone	1000000	res_air_gw_inhv	1000000	ci_air_gw_inhv	1000000	res_air_gw_inhv	mg/L	---	---	<0.00500 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Benzene	23	res_air_gw_inhv	39	ci_air_gw_inhv	23	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Bromobenzene	290	res_air_gw_inhv	410	ci_air_gw_inhv	290	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Bromochloromethane	---	---	---	---	---	---	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Bromodichloromethane	---	---	---	---	---	---	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Bromoform	670	res_air_gw_inhv	1100	ci_air_gw_inhv	670	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Bromomethane	6	res_air_gw_inhv	8.3	ci_air_gw_inhv	6	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Carbon disulfide	630	res_air_gw_inhv	880	ci_air_gw_inhv	630	res_air_gw_inhv	mg/L	---	---	<0.00500 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Carbon tetrachloride	2.5	res_air_gw_inhv	4.3	ci_air_gw_inhv	2.5	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Chlorobenzene	150	res_air_gw_inhv	210	ci_air_gw_inhv	150	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Chloroethane	15000	res_air_gw_inhv	21000	ci_air_gw_inhv	15000	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Chloroform	2.6	res_air_gw_inhv	4.3	ci_air_gw_inhv	2.6	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Chloromethane	4.7	res_air_gw_inhv	7.9	ci_air_gw_inhv	4.7	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	cis-1,2-Dichloroethene	160	res_air_gw_inhv	220	ci_air_gw_inhv	160	res_air_gw_inhv	mg/L	---	---	0.00831	---	---	---	---	---	---	---
SW8260/8260B/8260C	cis-1,3-Dichloropropene	89	res_air_gw_inhv	120	ci_air_gw_inhv	89	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Cyclohexane	770	res_air_gw_inhv	1100	ci_air_gw_inhv	770	res_air_gw_inhv	mg/L	---	---	<0.00500 UX7	---	---	---	---	---	---	---
SW8260/8260B/8260C	Dibromochloromethane	---	---	---	---	---	---	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Dibromomethane	31	res_air_gw_inhv	43	ci_air_gw_inhv	31	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Dichlorodifluoromethane	7.8	res_air_gw_inhv	11	ci_air_gw_inhv	7.8	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Ethylbenzene	3800	res_air_gw_inhv	5400	ci_air_gw_inhv	3800	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Hexachlorobutadiene	1.1	res_air_gw_inhv	1.9	ci_air_gw_inhv	1.1	res_air_gw_inhv	mg/L	---	---	<0.00100 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Isopropylbenzene	570	res_air_gw_inhv	800	ci_air_gw_inhv	570	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	m & p-Xylene	1400	res_air_gw_inhv	1900	ci_air_gw_inhv	1400	res_air_gw_inhv	mg/L	---	---	<0.000600 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Methyl acetate	---	---	---	---	---	---	mg/L	---	---	<0.00500 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Methyl t-butyl ether	520	res_air_gw_inhv	880	ci_air_gw_inhv	520	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Methylcyclohexane	180	res_air_gw_inhv	260	ci_air_gw_inhv	180	res_air_gw_inhv	mg/L	---	---	<0.00500 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Methylene chloride	2800	res_air_gw_inhv	4600	ci_air_gw_inhv	2800	res_air_gw_inhv	mg/L	---	---	<0.00250 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Naphthalene	41	res_air_gw_inhv	57	ci_air_gw_inhv	41	res_air_gw_inhv	mg/L	---	---	<0.00500 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	n-Butylbenzene	---	---	---	---	---	---	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	n-Propylbenzene	780	res_air_gw_inhv	1100	ci_air_gw_inhv	780	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	o-Xylene	98000	res_air_gw_inhv	140000	ci_air_gw_inhv	98000	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	p-Isopropyltoluene	---	---	---	---	---	---	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	sec-Butylbenzene	---	---	---	---	---	---	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Styrene	2000	res_air_gw_inhv	2700	ci_air_gw_inhv	2000	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	tert-Butylbenzene	---	---	---	---	---	---	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Tetrachloroethene	64	res_air_gw_inhv	110	ci_air_gw_inhv	64	res_air_gw_inhv	mg/L	---	---	<0.000600 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Toluene	8200	res_air_gw_inhv	12000	ci_air_gw_inhv	8200	res_air_gw_inhv	mg/L	---	---	<0.000600 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	trans-1,2-Dichloroethene	99	res_air_gw_inhv	140	ci_air_gw_inhv	99	res_air_gw_inhv	mg/L	---	---	0.00122	---	---	---	---	---	---	---
SW8260/8260B/8260C	trans-1,3-Dichloropropene	25	res_air_gw_inhv	41	ci_air_gw_inhv	25	res_air_gw_inhv	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Trichloroethene	3.1	res_air_gw_inhv	4.3	ci_air_gw_inhv	3.1	res_air_gw_inhv	mg/L	---	---	<0.000600 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Trichlorofluoromethane	---	---	---	---	---	---	mg/L	---	---	<0.000300 U	---	---	---	---	---	---	---
SW8260/8260B/8260C	Vinyl chloride	0.49	res_air_gw_inhv	0.83	ci_air_gw_inhv	0.49	res_air_gw_inhv	mg/L	---	---	0.00102	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,4,5-Trichlorophenol	---	---	---	---	---	---	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,4,6-Trichlorophenol	6400	res_air_gw_inhv	11000	ci_air_gw_inhv	6400	res_air_gw_inhv	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,4-Dichlorophenol	---	---	---	---	---	---	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,4-Dimethylphenol	---	---	---	---	---	---	mg/L	---	---	<0.000410 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,4-Dinitrophenol	---	---	---	---	---	---	mg/L	---	---	<0.00103 UJL	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,4-Dinitrotoluene	---	---	---	---	---	---	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,6-Dinitrotoluene	---	---	---	---	---	---	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	2-Chloronaphthalene	---	---	---	---	---	---	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	2-Chlorophenol	---	---	---	---	---	---	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	2-Methylnaphthalene	---	---	---	---	---	---	mg/L	---	<0.00100 U	<0.000205 U	---	---	---	<0.00101 U	---	---	---
SW8270/8270C/8270D	2-Methylphenol	---	---	---	---	---	---	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	2-Nitroaniline	520	res_air_gw_inhv	720	ci_air_gw_inhv	520	res_air_gw_inhv	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	2-Nitrophenol	---	---	---	---	---	---	mg/L	---	---	<0.000410 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	3,3'-Dichlorobenzidine	---	---	---	---	---	---	mg/L	---	---	<0.000410 UJL	---	---	---	---	---	---	---
SW8270/8270C/8270D	3-Nitroaniline	610	res_air_gw_inhv	860	ci_air_gw_inhv	610	res_air_gw_inhv	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	---	---	---	---	---	---	mg/L	---	---	<0.000513 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.2	res_air_gw_inhv	0.34	ci_air_gw_inhv	0.2	res_air_gw_inhv	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	4-Chloro-3-methylphenol	---	---	---	---	---	---	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	4-Chloroaniline	---	---	---	---	---	---	mg/L	---	---	<0.000513 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.16	res_air_gw_inhv	0.27	ci_air_gw_inhv	0.16	res_air_gw_inhv	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	4-Methylphenol	---	---	---	---	---	---	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	4-Nitroaniline	19000	res_air_gw_inhv	26000	ci_air_gw_inhv	19000	res_air_gw_inhv	mg/L	---	---	<0.000410 U	---	---	---	---	---	---	---

								Sample Location	MW3	MW3	MW3	MW3	MW3	MW4	MW4	MW4	MW4	MW5
								Sample ID	MW3 03/13/2014	MW3 10/01/2014	INC-MW03-013 06/24/2015	INC-MW03-010 02/01/2017	INC-MW03-020 04/26/2017	MW4 03/13/2014	MW4 10/01/2014	INC-MW04-010 02/01/2017	INC-MW04-020 04/26/2017	MW5 03/13/2014
								Sample Date	3/13/2014	10/1/2014	6/24/2015	2/1/2017	4/26/2017	3/13/2014	10/1/2014	2/1/2017	4/26/2017	3/13/2014
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	On-Site Critical PCL	Source of On-Site Critical PCL	Off-Site Critical PCL	Source of Off-Site Critical PCL	Units										
SW8270/8270C/8270D	4-Nitrophenol	---	---	---	---	---	---	mg/L	---	---	<0.00103 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Acenaphthene	---	---	---	---	---	---	mg/L	<0.0000100 U	<0.000992 U	<0.000205 U	<0.0000320 U	<0.0000300 U	<0.0000100 U	<0.000997 U	<0.0000300 U	<0.0000250 U	0.344
SW8270/8270C/8270D	Acenaphthylene	---	---	---	---	---	---	mg/L	---	---	<0.000205 U	<0.0000320 U	<0.0000300 U	---	---	<0.0000300 U	<0.0000250 U	---
SW8270/8270C/8270D	Acetophenone	---	---	---	---	---	---	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Anthracene	---	---	---	---	---	---	mg/L	---	---	<0.000205 U	<0.0000320 U	<0.0000300 U	---	---	<0.0000300 U	<0.0000250 U	---
SW8270/8270C/8270D	Aroclor 1016	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	<0.000109 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Aroclor 1221	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	<0.000109 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Aroclor 1232	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	<0.000109 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Aroclor 1242	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	<0.000109 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Aroclor 1248	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	<0.000109 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Aroclor 1254	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	<0.000109 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Aroclor 1260	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	<0.000109 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Atrazine	---	---	---	---	---	---	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Benzaldehyde	---	---	---	---	---	---	mg/L	---	---	<0.000410 UX7	---	---	---	---	---	---	---
SW8270/8270C/8270D	Benzo(a)anthracene	390	res_air_gw_inhv	650	ci_air_gw_inhv	390	res_air_gw_inhv	mg/L	---	---	<0.000410 U	<0.0000320 U	<0.0000300 U	---	---	<0.0000300 U	<0.0000250 U	---
SW8270/8270C/8270D	Benzo(a)pyrene	3.8	res_air_gw_inhv	5.3	ci_air_gw_inhv	3.8	res_air_gw_inhv	mg/L	---	---	<0.000205 U	<0.0000320 U	<0.0000300 U	---	---	<0.0000300 U	<0.0000250 U	---
SW8270/8270C/8270D	Benzo(b)fluoranthene	310	res_air_gw_inhv	520	ci_air_gw_inhv	310	res_air_gw_inhv	mg/L	---	---	<0.000410 U	<0.0000320 U	<0.0000300 U	---	---	<0.0000300 U	<0.0000250 U	---
SW8270/8270C/8270D	Benzo(g,h,i)perylene	---	---	---	---	---	---	mg/L	---	---	<0.000410 U	<0.0000320 U	<0.0000300 U	---	---	<0.0000300 U	<0.0000250 U	---
SW8270/8270C/8270D	Benzo(k)fluoranthene	18000	res_air_gw_inhv	31000	ci_air_gw_inhv	18000	res_air_gw_inhv	mg/L	---	---	<0.000410 U	<0.0000320 U	<0.0000300 U	---	---	<0.0000300 U	<0.0000250 U	---
SW8270/8270C/8270D	Benzoic acid	---	---	---	---	---	---	mg/L	---	---	<0.00205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Benzyl alcohol	---	---	---	---	---	---	mg/L	---	---	<0.000513 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Biphenyl	---	---	---	---	---	---	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	10	res_air_gw_inhv	17	ci_air_gw_inhv	10	res_air_gw_inhv	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	bis(2-Chloroethyl) ether	12	res_air_gw_inhv	20	ci_air_gw_inhv	12	res_air_gw_inhv	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	110	res_air_gw_inhv	190	ci_air_gw_inhv	110	res_air_gw_inhv	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	---	---	---	---	---	---	mg/L	---	0.00590 J	0.00117 J	---	---	---	<0.000450 U	---	---	---
SW8270/8270C/8270D	Butylbenzylphthalate	---	---	---	---	---	---	mg/L	---	---	<0.00205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Caprolactam	---	---	---	---	---	---	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Carbazole	---	---	---	---	---	---	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Chrysene	110000	res_air_gw_inhv	190000	ci_air_gw_inhv	110000	res_air_gw_inhv	mg/L	---	---	<0.000410 U	<0.0000320 U	<0.0000300 U	---	---	<0.0000300 U	<0.0000250 U	---
SW8270/8270C/8270D	Dibenz(a,h)anthracene	200	res_air_gw_inhv	330	ci_air_gw_inhv	200	res_air_gw_inhv	mg/L	---	---	<0.000205 U	<0.0000320 U	<0.0000300 U	---	---	<0.0000300 U	<0.0000250 U	---
SW8270/8270C/8270D	Dibenzofuran	---	---	---	---	---	---	mg/L	0.000105	<0.00102 U	<0.000205 U	---	---	<0.0000120 U	<0.00102 U	---	---	0.00263
SW8270/8270C/8270D	Diethyl phthalate	---	---	---	---	---	---	mg/L	---	---	<0.00205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Dimethyl phthalate	---	---	---	---	---	---	mg/L	---	---	<0.00205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Di-n-butylphthalate	---	---	---	---	---	---	mg/L	---	---	<0.00205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Di-n-octylphthalate	---	---	---	---	---	---	mg/L	---	---	<0.00205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Fluoranthene	---	---	---	---	---	---	mg/L	<0.0000130 U	<0.000517 U	<0.000205 UJ	<0.0000320 U	<0.0000300 U	<0.0000130 U	<0.000520 U	<0.0000300 U	<0.0000250 U	0.00621
SW8270/8270C/8270D	Fluorene	---	---	---	---	---	---	mg/L	<0.0000130 U	<0.00102 U	<0.000205 U	<0.0000320 U	<0.0000300 U	<0.0000130 U	<0.00103 U	<0.0000300 U	<0.0000250 U	0.112
SW8270/8270C/8270D	Hexachlorobenzene	0.74	res_air_gw_inhv	1.2	ci_air_gw_inhv	0.74	res_air_gw_inhv	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Hexachlorobutadiene	1.1	res_air_gw_inhv	1.9	ci_air_gw_inhv	1.1	res_air_gw_inhv	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Hexachlorocyclopentadiene	0.7	res_air_gw_inhv	0.98	ci_air_gw_inhv	0.7	res_air_gw_inhv	mg/L	---	---	<0.000513 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Hexachloroethane	950	res_air_gw_inhv	1300	ci_air_gw_inhv	950	res_air_gw_inhv	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	1800	res_air_gw_inhv	3000	ci_air_gw_inhv	1800	res_air_gw_inhv	mg/L	---	---	<0.000410 U	<0.0000320 U	<0.0000300 U	---	---	<0.0000300 U	<0.0000250 U	---
SW8270/8270C/8270D	Isophorone	---	---	---	---	---	---	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Naphthalene	41	res_air_gw_inhv	57	ci_air_gw_inhv	41	res_air_gw_inhv	mg/L	<0.0000300 U	<0.000992 U	<0.000205 U	<0.0000320 U	<0.0000300 U	<0.0000300 U	<0.000997 U	<0.0000300 U	<0.0000250 U	0.0576
SW8270/8270C/8270D	Nitrobenzene	93	res_air_gw_inhv	160	ci_air_gw_inhv	93	res_air_gw_inhv	mg/L	---	---	<0.000410 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	---	---	---	---	---	---	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	N-Nitrosodiphenylamine	---	---	---	---	---	---	mg/L	---	---	<0.000205 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Pentachlorophenol	---	---	---	---	---	---	mg/L	---	---	<0.000410 UJL	---	---	---	---	---	---	---
SW8270/8270C/8270D	Phenanthrene	---	---	---	---	---	---	mg/L	<0.0000140 U	<0.000825 U	<0.000205 U	<0.0000320 U	<0.0000300 U	<0.0000140 U	<0.000829 U	<0.0000300 U	<0.0000250 U	0.0916
SW8270/8270C/8270D	Phenol	21000	res_air_gw_inhv	29000	ci_air_gw_inhv	21000	res_air_gw_inhv	mg/L	---	---	<0.000410 U	---	---	---	---	---	---	---
SW8270/8270C/8270D	Pyrene	---	---	---	---	---	---	mg/L	<0.0000140 U	<0.000475 U	<0.000410 U	<0.0000320 U	<0.0000300 U	<0.0000140 U	<0.000477 U	<0.0000300 U	<0.0000250 U	0.00297
SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	mg/L	---	---	0.000000000745 U	---	---	---	---	---	---	---
SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	mg/L	---	---	0.000000000216 U	---	---	---	---	---	---	---
SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	mg/L	---	---	<0.0000000000981 U	---	---	---	---	---	---	---
SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	mg/L	---	---	<0.000000000201 U	---	---	---	---	---	---	---
SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	mg/L	---	---	<0.000000000150 U	---	---	---	---	---	---	---
SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	mg/L	---	---	<0.000000000210 U	---	---	---	---	---	---	---
SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	mg/L	---	---	0.000000000177 U	---	---	---	---	---	---	---

								Sample Location	MW3	MW3	MW3	MW3	MW3	MW4	MW4	MW4	MW4	MW5
								Sample ID	MW3 03/13/2014	MW3 10/01/2014	INC-MW03-013 06/24/2015	INC-MW03-010 02/01/2017	INC-MW03-020 04/26/2017	MW4 03/13/2014	MW4 10/01/2014	INC-MW04-010 02/01/2017	INC-MW04-020 04/26/2017	MW5 03/13/2014
								Sample Date	3/13/2014	10/1/2014	6/24/2015	2/1/2017	4/26/2017	3/13/2014	10/1/2014	2/1/2017	4/26/2017	3/13/2014
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	On-Site Critical PCL	Source of On-Site Critical PCL	Off-Site Critical PCL	Source of Off-Site Critical PCL	Units										
SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	mg/L	---	---	<0.000000000216 U	---	---	---	---	---	---	---
SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	mg/L	---	---	0.000000000746 U	---	---	---	---	---	---	---
SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	mg/L	---	---	0.000000000692 U	---	---	---	---	---	---	---
SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	mg/L	---	---	0.000000000573 U	---	---	---	---	---	---	---
SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	mg/L	---	---	0.000000000224 U	---	---	---	---	---	---	---
SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	mg/L	---	---	0.000000000321 U	---	---	---	---	---	---	---
SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	mg/L	---	---	<0.000000000489 U	---	---	---	---	---	---	---
SW8290A	2,3,7,8-TCDD (TEQs)	---	---	---	---	---	---	mg/L	---	---	9.3E-10	---	---	---	---	---	---	---
SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	mg/L	---	---	<0.000000000360 U	---	---	---	---	---	---	---
SW8290A	OCDD	---	---	---	---	---	---	mg/L	---	---	0.00000000183 U	---	---	---	---	---	---	---
SW8290A	OCDF	---	---	---	---	---	---	mg/L	---	---	<0.000000000278 U	---	---	---	---	---	---	---

								Sample Location	MW5	MW5	MW5	MW6	MW6	MW6	MW6	MW7	MW7
								Sample ID	MW5 10/01/2014	INC-MW05-010 02/02/2017	INC-MW05-020 04/26/2017	MW6 03/13/2014	MW6 10/01/2014	INC-MW06-010 02/02/2017	INC-MW06-020 04/26/2017	MW7 03/13/2014	INC-MW07-010 06/24/2015
								Sample Date	10/1/2014	2/2/2017	4/26/2017	3/13/2014	10/1/2014	2/2/2017	4/26/2017	3/13/2014	6/24/2015
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	On-Site Critical PCL	Source of On-Site Critical PCL	Off-Site Critical PCL	Source of Off-Site Critical PCL	Units									
SW6020/6020A	Antimony	---	---	---	---	---	---	mg/L	---	<0.000800 U	<0.000800 U	---	---	0.00117 J	<0.000800 U	---	---
SW6020/6020A	Arsenic	---	---	---	---	---	---	mg/L	0.0124 J	0.00339 J	0.00253 J	0.00350 J	0.00818 J	0.00250 J	0.00289 J	0.00385 J	<0.0100 U
SW6020/6020A	Barium	---	---	---	---	---	---	mg/L	0.472	0.273	0.239	0.348	0.192	0.0844	0.166	0.137	0.0738
SW6020/6020A	Beryllium	---	---	---	---	---	---	mg/L	---	<0.000300 U	<0.000300 UJL	---	---	<0.000300 U	<0.000300 UJL	---	---
SW6020/6020A	Cadmium	---	---	---	---	---	---	mg/L	<0.00243 U	<0.000300 U	<0.000300 UJL	<0.000696 U	<0.00243 U	<0.000300 U	<0.000300 UJL	<0.000696 U	<0.00150 U
SW6020/6020A	Chromium, total	---	---	---	---	---	---	mg/L	<0.000811 U	<0.00200 U	<0.00200 UJL	<0.00142 U	<0.000811 U	<0.00200 U	<0.00200 UJL	<0.00142 U	<0.0100 U
SW6020/6020A	Lead	---	---	---	---	---	---	mg/L	<0.00237 U	<0.000300 U	<0.000300 U	0.00660 J	<0.00237 U	0.000531 J	0.00113 JH	0.00835 J	<0.00150 U
SW6020/6020A	Nickel	---	---	---	---	---	---	mg/L	---	<0.00300 U	<0.00300 UJL	---	---	<0.00300 U	<0.00300 UJL	---	---
SW6020/6020A	Selenium	---	---	---	---	---	---	mg/L	<0.00439 U	<0.00200 U	<0.00200 U	0.00295 J	<0.00439 U	<0.00200 U	<0.00200 U	0.0166	<0.0100 U
SW6020/6020A	Silver	---	---	---	---	---	---	mg/L	<0.00559 U	<0.00100 U	<0.00100 UJL	<0.000748 U	<0.00559 U	<0.00100 U	<0.00100 UJL	<0.000748 U	<0.00500 U
SW6020A Dissolved	Arsenic	---	---	---	---	---	---	mg/L	0.00902 J	---	---	<0.00309 U	0.00818 J	---	---	0.00360 J	---
SW6020A Dissolved	Barium	---	---	---	---	---	---	mg/L	0.428	---	---	0.312	0.177	---	---	0.132	---
SW6020A Dissolved	Cadmium	---	---	---	---	---	---	mg/L	<0.00243 U	---	---	<0.000696 U	<0.00243 U	---	---	<0.000696 U	---
SW6020A Dissolved	Chromium, total	---	---	---	---	---	---	mg/L	<0.000811 U	---	---	<0.00142 U	<0.000811 U	---	---	<0.00142 U	---
SW6020A Dissolved	Lead	---	---	---	---	---	---	mg/L	<0.00237 U	---	---	<0.000758 U	<0.00237 U	---	---	<0.000758 U	---
SW6020A Dissolved	Selenium	---	---	---	---	---	---	mg/L	<0.00439 U	---	---	0.00445 J	<0.00439 U	---	---	0.0135	---
SW6020A Dissolved	Silver	---	---	---	---	---	---	mg/L	<0.00559 U	---	---	<0.000748 U	<0.00559 U	---	---	<0.000748 U	---
SW7470/7470A	Mercury	0.94	res_air_gw_inhv	1.3	ci_air_gw_inhv	0.94	res_air_gw_inhv	mg/L	<0.0000290 U	<0.0000800 U	<0.0000800 U	<0.0000290 U	<0.0000290 U	<0.0000800 U	<0.0000800 U	<0.0000580 U	<0.0000800 U
SW7470A Dissolved	Mercury	0.94	res_air_gw_inhv	1.3	ci_air_gw_inhv	0.94	res_air_gw_inhv	mg/L	<0.0000290 U	---	---	<0.0000290 U	<0.0000290 U	---	---	<0.0000290 U	---
SW8081A	4,4'-DDD	---	---	---	---	---	---	mg/L	---	---	---	<0.00301 U	---	---	---	<0.00301 U	---
SW8081A	4,4'-DDE	---	---	---	---	---	---	mg/L	---	---	---	<0.00604 U	---	---	---	<0.00604 U	---
SW8081A	4,4'-DDT	81	res_air_gw_inhv	140	ci_air_gw_inhv	81	res_air_gw_inhv	mg/L	---	---	---	<0.0347 U	---	---	---	<0.0347 U	---
SW8081A	Aldrin	0.57	res_air_gw_inhv	0.96	ci_air_gw_inhv	0.57	res_air_gw_inhv	mg/L	---	---	---	<0.00326 U	---	---	---	<0.00326 U	---
SW8081A	alpha-BHC	20	res_air_gw_inhv	33	ci_air_gw_inhv	20	res_air_gw_inhv	mg/L	---	---	---	<0.00308 U	---	---	---	<0.00308 U	---
SW8081A	alpha-Chlordane	20	res_air_gw_inhv	33	ci_air_gw_inhv	20	res_air_gw_inhv	mg/L	---	---	---	<0.00329 U	---	---	---	<0.00329 U	---
SW8081A	beta-BHC	150	res_air_gw_inhv	250	ci_air_gw_inhv	150	res_air_gw_inhv	mg/L	---	---	---	<0.00235 U	---	---	---	<0.00235 U	---
SW8081A	Chlordane	99	res_air_gw_inhv	170	ci_air_gw_inhv	99	res_air_gw_inhv	mg/L	---	---	---	<0.103 U	---	---	---	<0.103 U	---
SW8081A	delta-BHC	47	res_air_gw_inhv	79	ci_air_gw_inhv	47	res_air_gw_inhv	mg/L	---	---	---	<0.00133 U	---	---	---	<0.00133 U	---
SW8081A	Dieldrin	16	res_air_gw_inhv	28	ci_air_gw_inhv	16	res_air_gw_inhv	mg/L	---	---	---	<0.00151 U	---	---	---	<0.00151 U	---
SW8081A	Endosulfan I	---	---	---	---	---	---	mg/L	---	---	---	<0.00100 U	---	---	---	<0.00100 U	---
SW8081A	Endosulfan II	---	---	---	---	---	---	mg/L	---	---	---	<0.00177 U	---	---	---	<0.00177 U	---
SW8081A	Endosulfan sulfate	---	---	---	---	---	---	mg/L	---	---	---	<0.00116 U	---	---	---	<0.00116 U	---
SW8081A	Endrin	---	---	---	---	---	---	mg/L	---	---	---	<0.00146 U	---	---	---	<0.00146 U	---
SW8081A	Endrin aldehyde	---	---	---	---	---	---	mg/L	---	---	---	<0.00344 U	---	---	---	<0.00344 U	---
SW8081A	Endrin ketone	---	---	---	---	---	---	mg/L	---	---	---	<0.00143 U	---	---	---	<0.00143 U	---
SW8081A	gamma-BHC (Lindane)	---	---	---	---	---	---	mg/L	---	---	---	<0.00171 U	---	---	---	<0.00171 U	---
SW8081A	gamma-Chlordane	---	---	---	---	---	---	mg/L	---	---	---	<0.00489 U	---	---	---	<0.00489 U	---
SW8081A	Heptachlor	0.81	res_air_gw_inhv	1.4	ci_air_gw_inhv	0.81	res_air_gw_inhv	mg/L	---	---	---	<0.00556 U	---	---	---	<0.00556 U	---
SW8081A	Heptachlor epoxide	15	res_air_gw_inhv	26	ci_air_gw_inhv	15	res_air_gw_inhv	mg/L	---	---	---	<0.00144 U	---	---	---	<0.00144 U	---
SW8081A	Methoxychlor	---	---	---	---	---	---	mg/L	---	---	---	<0.00178 U	---	---	---	<0.00178 U	---
SW8081A	Toxaphene	230	res_air_gw_inhv	390	ci_air_gw_inhv	230	res_air_gw_inhv	mg/L	---	---	---	<0.0769 U	---	---	---	<0.0769 U	---
SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	14	res_air_gw_inhv	24	ci_air_gw_inhv	14	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	1,1,1-Trichloroethane	5200	res_air_gw_inhv	7300	ci_air_gw_inhv	5200	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res_air_gw_inhv	17	ci_air_gw_inhv	10	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	200	res_air_gw_inhv	280	ci_air_gw_inhv	200	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.00500 UJL
SW8260/8260B/8260C	1,1-Dichloroethane	5600	res_air_gw_inhv	7800	ci_air_gw_inhv	5600	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	1,1-Dichloroethene	220	res_air_gw_inhv	300	ci_air_gw_inhv	220	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	1,1-Dichloropropene	2.5	res_air_gw_inhv	4.2	ci_air_gw_inhv	2.5	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	1,2,3-Trichlorobenzene	17	res_air_gw_inhv	24	ci_air_gw_inhv	17	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.00150 U
SW8260/8260B/8260C	1,2,3-Trichloropropane	4.2	res_air_gw_inhv	5.8	ci_air_gw_inhv	4.2	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	1,2,4-Trichlorobenzene	20	res_air_gw_inhv	28	ci_air_gw_inhv	20	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.00150 U
SW8260/8260B/8260C	1,2,4-Trimethylbenzene	630	res_air_gw_inhv	880	ci_air_gw_inhv	630	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.00150 U
SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res_air_gw_inhv	0.13	ci_air_gw_inhv	0.08	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.00300 U
SW8260/8260B/8260C	1,2-Dibromoethane	0.72	res_air_gw_inhv	1.2	ci_air_gw_inhv	0.72	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	1,2-Dichlorobenzene	150	res_air_gw_inhv	210	ci_air_gw_inhv	150	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	1,2-Dichloroethane	33	res_air_gw_inhv	55	ci_air_gw_inhv	33	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	1,2-Dichloropropane	15	res_air_gw_inhv	21	ci_air_gw_inhv	15	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	1,3,5-Trimethylbenzene	490	res_air_gw_inhv	680	ci_air_gw_inhv	490	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.00150 U
SW8260/8260B/8260C	1,3-Dichlorobenzene	25	res_air_gw_inhv	34	ci_air_gw_inhv	25	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	1,3-Dichloropropane	33	res_air_gw_inhv	55	ci_air_gw_inhv	33	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	1,4-Dichlorobenzene	2200	res_air_gw_inhv	3100	ci_air_gw_inhv	2200	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	1-Chlorohexane	940	res_air_gw_inhv	1300	ci_air_gw_inhv	940	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.00100 U
SW8260/8260B/8260C	2,2-Dichloropropane	7.3	res_air_gw_inhv	10	ci_air_gw_inhv	7.3	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	2-Butanone(MEK)	620000	res_air_gw_inhv	870000	ci_air_gw_inhv	620000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.00500 U
SW8260/8260B/8260C	2-Chlorotoluene	3100	res_air_gw_inhv	4300	ci_air_gw_inhv	3100	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U

								Sample Location	MW5	MW5	MW5	MW6	MW6	MW6	MW6	MW7	MW7
								Sample ID	MW5 10/01/2014	INC-MW05-010 02/02/2017	INC-MW05-020 04/26/2017	MW6 03/13/2014	MW6 10/01/2014	INC-MW06-010 02/02/2017	INC-MW06-020 04/26/2017	MW7 03/13/2014	INC-MW07-010 06/24/2015
								Sample Date	10/1/2014	2/2/2017	4/26/2017	3/13/2014	10/1/2014	2/2/2017	4/26/2017	3/13/2014	6/24/2015
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	On-Site Critical PCL	Source of On-Site Critical PCL	Off-Site Critical PCL	Source of Off-Site Critical PCL	Units									
SW8260/8260B/8260C	2-Hexanone	1500	res_air_gw_inhv	2100	ci_air_gw_inhv	1500	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.00500 U
SW8260/8260B/8260C	4-Chlorotoluene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	87000	res_air_gw_inhv	120000	ci_air_gw_inhv	87000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.00500 U
SW8260/8260B/8260C	Acetone	1000000	res_air_gw_inhv	1000000	ci_air_gw_inhv	1000000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.00500 U
SW8260/8260B/8260C	Benzene	23	res_air_gw_inhv	39	ci_air_gw_inhv	23	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Bromobenzene	290	res_air_gw_inhv	410	ci_air_gw_inhv	290	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Bromochloromethane	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Bromodichloromethane	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Bromoform	670	res_air_gw_inhv	1100	ci_air_gw_inhv	670	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Bromomethane	6	res_air_gw_inhv	8.3	ci_air_gw_inhv	6	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Carbon disulfide	630	res_air_gw_inhv	880	ci_air_gw_inhv	630	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.00500 U
SW8260/8260B/8260C	Carbon tetrachloride	2.5	res_air_gw_inhv	4.3	ci_air_gw_inhv	2.5	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Chlorobenzene	150	res_air_gw_inhv	210	ci_air_gw_inhv	150	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Chloroethane	15000	res_air_gw_inhv	21000	ci_air_gw_inhv	15000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Chloroform	2.6	res_air_gw_inhv	4.3	ci_air_gw_inhv	2.6	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Chloromethane	4.7	res_air_gw_inhv	7.9	ci_air_gw_inhv	4.7	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	cis-1,2-Dichloroethene	160	res_air_gw_inhv	220	ci_air_gw_inhv	160	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	cis-1,3-Dichloropropene	89	res_air_gw_inhv	120	ci_air_gw_inhv	89	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Cyclohexane	770	res_air_gw_inhv	1100	ci_air_gw_inhv	770	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.00500 UX7
SW8260/8260B/8260C	Dibromochloromethane	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Dibromomethane	31	res_air_gw_inhv	43	ci_air_gw_inhv	31	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Dichlorodifluoromethane	7.8	res_air_gw_inhv	11	ci_air_gw_inhv	7.8	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Ethylbenzene	3800	res_air_gw_inhv	5400	ci_air_gw_inhv	3800	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Hexachlorobutadiene	1.1	res_air_gw_inhv	1.9	ci_air_gw_inhv	1.1	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.00100 U
SW8260/8260B/8260C	Isopropylbenzene	570	res_air_gw_inhv	800	ci_air_gw_inhv	570	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	m & p-Xylene	1400	res_air_gw_inhv	1900	ci_air_gw_inhv	1400	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000600 U
SW8260/8260B/8260C	Methyl acetate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.00500 U
SW8260/8260B/8260C	Methyl t-butyl ether	520	res_air_gw_inhv	880	ci_air_gw_inhv	520	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Methylcyclohexane	180	res_air_gw_inhv	260	ci_air_gw_inhv	180	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.00500 U
SW8260/8260B/8260C	Methylene chloride	2800	res_air_gw_inhv	4600	ci_air_gw_inhv	2800	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.00250 U
SW8260/8260B/8260C	Naphthalene	41	res_air_gw_inhv	57	ci_air_gw_inhv	41	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.00500 U
SW8260/8260B/8260C	n-Butylbenzene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	n-Propylbenzene	780	res_air_gw_inhv	1100	ci_air_gw_inhv	780	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	o-Xylene	98000	res_air_gw_inhv	140000	ci_air_gw_inhv	98000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	p-Isopropyltoluene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	sec-Butylbenzene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Styrene	2000	res_air_gw_inhv	2700	ci_air_gw_inhv	2000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	tert-Butylbenzene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Tetrachloroethene	64	res_air_gw_inhv	110	ci_air_gw_inhv	64	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000600 U
SW8260/8260B/8260C	Toluene	8200	res_air_gw_inhv	12000	ci_air_gw_inhv	8200	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000600 U
SW8260/8260B/8260C	trans-1,2-Dichloroethene	99	res_air_gw_inhv	140	ci_air_gw_inhv	99	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	trans-1,3-Dichloropropene	25	res_air_gw_inhv	41	ci_air_gw_inhv	25	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Trichloroethene	3.1	res_air_gw_inhv	4.3	ci_air_gw_inhv	3.1	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000600 U
SW8260/8260B/8260C	Trichlorofluoromethane	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8260/8260B/8260C	Vinyl chloride	0.49	res_air_gw_inhv	0.83	ci_air_gw_inhv	0.49	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000300 U
SW8270/8270C/8270D	2,4,5-Trichlorophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	2,4,6-Trichlorophenol	6400	res_air_gw_inhv	11000	ci_air_gw_inhv	6400	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	2,4-Dichlorophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	2,4-Dimethylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000394 U
SW8270/8270C/8270D	2,4-Dinitrophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000984 UJL
SW8270/8270C/8270D	2,4-Dinitrotoluene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	2,6-Dinitrotoluene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	2-Chloronaphthalene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	2-Chlorophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	2-Methylnaphthalene	---	---	---	---	---	---	mg/L	0.0788	---	---	---	<0.00101 U	---	---	---	<0.000197 U
SW8270/8270C/8270D	2-Methylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	2-Nitroaniline	520	res_air_gw_inhv	720	ci_air_gw_inhv	520	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	2-Nitrophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000394 U
SW8270/8270C/8270D	3,3'-Dichlorobenzidine	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000394 UJL
SW8270/8270C/8270D	3-Nitroaniline	610	res_air_gw_inhv	860	ci_air_gw_inhv	610	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000492 U
SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.2	res_air_gw_inhv	0.34	ci_air_gw_inhv	0.2	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	4-Chloro-3-methylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	4-Chloroaniline	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000492 U
SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.16	res_air_gw_inhv	0.27	ci_air_gw_inhv	0.16	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	4-Methylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	4-Nitroaniline	19000	res_air_gw_inhv	26000	ci_air_gw_inhv	19000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000394 U

								Sample Location	MW5	MW5	MW5	MW6	MW6	MW6	MW6	MW7	MW7
								Sample ID	MW5 10/01/2014	INC-MW05-010 02/02/2017	INC-MW05-020 04/26/2017	MW6 03/13/2014	MW6 10/01/2014	INC-MW06-010 02/02/2017	INC-MW06-020 04/26/2017	MW7 03/13/2014	INC-MW07-010 06/24/2015
								Sample Date	10/1/2014	2/2/2017	4/26/2017	3/13/2014	10/1/2014	2/2/2017	4/26/2017	3/13/2014	6/24/2015
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	On-Site Critical PCL	Source of On-Site Critical PCL	Off-Site Critical PCL	Source of Off-Site Critical PCL	Units									
SW8270/8270C/8270D	4-Nitrophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000984 U
SW8270/8270C/8270D	Acenaphthene	---	---	---	---	---	---	mg/L	0.228	0.178	0.154	0.000107	<0.000997 U	<0.0000290 U	<0.0000280 U	0.0006	<0.000197 U
SW8270/8270C/8270D	Acenaphthylene	---	---	---	---	---	---	mg/L	---	<0.0000300 U	<0.0000300 U	---	---	<0.0000290 U	<0.0000280 U	---	<0.000197 U
SW8270/8270C/8270D	Acetophenone	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	Anthracene	---	---	---	---	---	---	mg/L	---	0.00396	0.00482	---	---	<0.0000290 U	<0.0000280 U	---	<0.000197 U
SW8270/8270C/8270D	Aroclor 1016	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000103 U
SW8270/8270C/8270D	Aroclor 1221	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000103 U
SW8270/8270C/8270D	Aroclor 1232	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000103 U
SW8270/8270C/8270D	Aroclor 1242	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000103 U
SW8270/8270C/8270D	Aroclor 1248	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000103 U
SW8270/8270C/8270D	Aroclor 1254	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000103 U
SW8270/8270C/8270D	Aroclor 1260	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000103 U
SW8270/8270C/8270D	Atrazine	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	Benzaldehyde	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000394 UX7
SW8270/8270C/8270D	Benzo(a)anthracene	390	res_air_gw_inhv	650	ci_air_gw_inhv	390	res_air_gw_inhv	mg/L	---	<0.0000300 U	<0.0000300 U	---	---	<0.0000290 U	<0.0000280 U	---	<0.000394 U
SW8270/8270C/8270D	Benzo(a)pyrene	3.8	res_air_gw_inhv	5.3	ci_air_gw_inhv	3.8	res_air_gw_inhv	mg/L	---	<0.0000300 U	<0.0000300 U	---	---	<0.0000290 U	<0.0000280 U	---	<0.000197 U
SW8270/8270C/8270D	Benzo(b)fluoranthene	310	res_air_gw_inhv	520	ci_air_gw_inhv	310	res_air_gw_inhv	mg/L	---	<0.0000300 U	<0.0000300 U	---	---	<0.0000290 U	<0.0000280 U	---	<0.000394 U
SW8270/8270C/8270D	Benzo(g,h,i)perylene	---	---	---	---	---	---	mg/L	---	<0.0000300 U	<0.0000300 U	---	---	<0.0000290 U	<0.0000280 U	---	<0.000394 U
SW8270/8270C/8270D	Benzo(k)fluoranthene	18000	res_air_gw_inhv	31000	ci_air_gw_inhv	18000	res_air_gw_inhv	mg/L	---	<0.0000300 U	<0.0000300 U	---	---	<0.0000290 U	<0.0000280 U	---	<0.000394 U
SW8270/8270C/8270D	Benzoic acid	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.00197 U
SW8270/8270C/8270D	Benzyl alcohol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000492 U
SW8270/8270C/8270D	Biphenyl	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	10	res_air_gw_inhv	17	ci_air_gw_inhv	10	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	bis(2-Chloroethyl) ether	12	res_air_gw_inhv	20	ci_air_gw_inhv	12	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	110	res_air_gw_inhv	190	ci_air_gw_inhv	110	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	---	---	---	---	---	---	mg/L	0.00206 J	---	---	---	<0.000450 U	---	---	---	<0.000984 U
SW8270/8270C/8270D	Butylbenzylphthalate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.00197 U
SW8270/8270C/8270D	Caprolactam	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	Carbazole	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	Chrysene	110000	res_air_gw_inhv	190000	ci_air_gw_inhv	110000	res_air_gw_inhv	mg/L	---	<0.0000300 U	<0.0000300 U	---	---	<0.0000290 U	<0.0000280 U	---	<0.000394 U
SW8270/8270C/8270D	Dibenz(a,h)anthracene	200	res_air_gw_inhv	330	ci_air_gw_inhv	200	res_air_gw_inhv	mg/L	---	<0.0000300 U	<0.0000300 U	---	---	<0.0000290 U	<0.0000280 U	---	<0.000197 U
SW8270/8270C/8270D	Dibenzofuran	---	---	---	---	---	---	mg/L	<0.00103 U	---	---	<0.00000600 U	<0.00102 U	---	---	<0.00000600 U	<0.000197 U
SW8270/8270C/8270D	Diethyl phthalate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.00197 U
SW8270/8270C/8270D	Dimethyl phthalate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.00197 U
SW8270/8270C/8270D	Di-n-butylphthalate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.00197 U
SW8270/8270C/8270D	Di-n-octylphthalate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.00197 U
SW8270/8270C/8270D	Fluoranthene	---	---	---	---	---	---	mg/L	0.00385 J	0.00475	0.00539	<0.00000600 U	<0.000520 U	<0.0000290 U	<0.0000280 U	<0.00000600 U	<0.000197 UJ
SW8270/8270C/8270D	Fluorene	---	---	---	---	---	---	mg/L	0.0777	0.0685	0.0554	<0.00000600 U	<0.00103 U	<0.0000290 U	<0.0000280 U	0.000197	<0.000197 U
SW8270/8270C/8270D	Hexachlorobenzene	0.74	res_air_gw_inhv	1.2	ci_air_gw_inhv	0.74	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	Hexachlorobutadiene	1.1	res_air_gw_inhv	1.9	ci_air_gw_inhv	1.1	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	Hexachlorocyclopentadiene	0.7	res_air_gw_inhv	0.98	ci_air_gw_inhv	0.7	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000492 U
SW8270/8270C/8270D	Hexachloroethane	950	res_air_gw_inhv	1300	ci_air_gw_inhv	950	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	1800	res_air_gw_inhv	3000	ci_air_gw_inhv	1800	res_air_gw_inhv	mg/L	---	<0.0000300 U	<0.0000300 U	---	---	<0.0000290 U	<0.0000280 U	---	<0.000394 U
SW8270/8270C/8270D	Isophorone	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	Naphthalene	41	res_air_gw_inhv	57	ci_air_gw_inhv	41	res_air_gw_inhv	mg/L	0.00154 J	0.00150	0.00700	<0.0000150 U	<0.000997 U	<0.0000290 U	<0.0000280 U	0.000114 J	<0.000197 U
SW8270/8270C/8270D	Nitrobenzene	93	res_air_gw_inhv	160	ci_air_gw_inhv	93	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000394 U
SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	N-Nitrosodiphenylamine	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000197 U
SW8270/8270C/8270D	Pentachlorophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000394 UJL
SW8270/8270C/8270D	Phenanthrene	---	---	---	---	---	---	mg/L	0.0546	0.0472	0.0437	0.0000432 J	<0.000829 U	<0.0000290 U	<0.0000280 U	0.000163	<0.000197 U
SW8270/8270C/8270D	Phenol	21000	res_air_gw_inhv	29000	ci_air_gw_inhv	21000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	<0.000394 U
SW8270/8270C/8270D	Pyrene	---	---	---	---	---	---	mg/L	0.00192 J	0.00190	0.00200	<0.00000700 U	<0.000477 U	<0.0000290 U	<0.0000280 U	<0.00000700 U	<0.000394 U
SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	0.00000000113 U
SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	0.000000000307 U
SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	0.000000000206 U
SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000000000171 U
SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	0.000000000239 JH
SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000000000174 U
SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	0.000000000199 U

								Sample Location	MW5	MW5	MW5	MW6	MW6	MW6	MW6	MW7	MW7
								Sample ID	MW5 10/01/2014	INC-MW05-010 02/02/2017	INC-MW05-020 04/26/2017	MW6 03/13/2014	MW6 10/01/2014	INC-MW06-010 02/02/2017	INC-MW06-020 04/26/2017	MW7 03/13/2014	INC-MW07-010 06/24/2015
								Sample Date	10/1/2014	2/2/2017	4/26/2017	3/13/2014	10/1/2014	2/2/2017	4/26/2017	3/13/2014	6/24/2015
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	On-Site Critical PCL	Source of On-Site Critical PCL	Off-Site Critical PCL	Source of Off-Site Critical PCL	Units									
SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000000000181 U
SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	0.000000000933 U
SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000000000269 U
SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	0.000000000385 U
SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000000000141 U
SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	0.000000000355 U
SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000000000457 U
SW8290A	2,3,7,8-TCDD (TEQs)	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	2.74E-10
SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	<0.000000000356 U
SW8290A	OCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	0.00000000594 J
SW8290A	OCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	0.000000000720 U

								Sample Location	MW7	MW7	MW8	MW8	MW8	MW9	MW9	MW10	MW10
								Sample ID	INC-MW07-010 02/02/2017	INC-MW07-023 04/26/2017	MW8 10/01/2014	INC-MW08-010 02/01/2017	INC-MW08-020 04/25/2017	INC-MW09-010 02/01/2017	INC-MW09-020 04/25/2017	INC-MW10-013 02/02/2017	INC-MW10-020 04/26/2017
								Sample Date	2/2/2017	4/26/2017	10/1/2014	2/1/2017	4/25/2017	2/1/2017	4/25/2017	2/2/2017	4/26/2017
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Residential	Residential	Comm/Ind	Comm/Ind
Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	On-Site Critical PCL	Source of On-Site Critical PCL	Off-Site Critical PCL	Source of Off-Site Critical PCL	Units									
SW6020/6020A	Antimony	---	---	---	---	---	---	mg/L	<0.000800 U	<0.000800 U	---	0.000849 J	0.00195 J	<0.000800 U	<0.000800 U	<0.000800 U	<0.000800 U
SW6020/6020A	Arsenic	---	---	---	---	---	---	mg/L	<0.00200 U	<0.00200 U	0.00982 J	<0.00200 U	0.00208 J	<0.00200 U	<0.00200 U	0.00406 J	0.00375 J
SW6020/6020A	Barium	---	---	---	---	---	---	mg/L	0.0887 JH	0.0734	0.333	0.146	0.103	0.0313	0.0185	0.153	0.103
SW6020/6020A	Beryllium	---	---	---	---	---	---	mg/L	<0.000300 U	<0.000300 UJL	---	<0.000300 U	<0.000300 UJL	<0.000300 U	<0.000300 UJL	<0.000300 U	<0.000300 UJL
SW6020/6020A	Cadmium	---	---	---	---	---	---	mg/L	<0.000300 U	<0.000300 UJL	<0.00243 U	<0.000300 U	0.000391 JL	<0.000300 U	<0.000300 UJL	<0.000300 U	<0.000300 UJL
SW6020/6020A	Chromium, total	---	---	---	---	---	---	mg/L	<0.00200 U	<0.00200 UJL	<0.000811 U	<0.00200 U	<0.00200 UJL	<0.00200 U	<0.00200 UJL	<0.00200 U	<0.00200 UJL
SW6020/6020A	Lead	---	---	---	---	---	---	mg/L	0.0392 JH	0.0195 JH	<0.00237 U	0.00334	0.00691	<0.000300 U	<0.000300 U	0.00410	0.00203 JH
SW6020/6020A	Nickel	---	---	---	---	---	---	mg/L	<0.00300 U	<0.00300 UJL	---	0.00570 J	0.00708 JL	<0.00300 U	<0.00300 UJL	<0.00300 U	<0.00300 UJL
SW6020/6020A	Selenium	---	---	---	---	---	---	mg/L	<0.00200 U	<0.00200 U	<0.00439 U	<0.00200 U	<0.00200 U	<0.00200 U	<0.00200 U	<0.00200 U	<0.00200 U
SW6020/6020A	Silver	---	---	---	---	---	---	mg/L	<0.00100 U	<0.00100 UJL	<0.00559 U	<0.00100 U	<0.00100 UJL	<0.00100 U	<0.00100 UJL	<0.00100 U	<0.00100 UJL
SW6020A Dissolved	Arsenic	---	---	---	---	---	---	mg/L	---	---	0.00690 J	---	---	---	---	---	---
SW6020A Dissolved	Barium	---	---	---	---	---	---	mg/L	---	---	0.325	---	---	---	---	---	---
SW6020A Dissolved	Cadmium	---	---	---	---	---	---	mg/L	---	---	<0.00243 U	---	---	---	---	---	---
SW6020A Dissolved	Chromium, total	---	---	---	---	---	---	mg/L	---	---	<0.000811 U	---	---	---	---	---	---
SW6020A Dissolved	Lead	---	---	---	---	---	---	mg/L	---	---	<0.00237 U	---	---	---	---	---	---
SW6020A Dissolved	Selenium	---	---	---	---	---	---	mg/L	---	---	<0.00439 U	---	---	---	---	---	---
SW6020A Dissolved	Silver	---	---	---	---	---	---	mg/L	---	---	<0.00559 U	---	---	---	---	---	---
SW7470/7470A	Mercury	0.94	res_air_gw_inhv	1.3	ci_air_gw_inhv	0.94	res_air_gw_inhv	mg/L	<0.0000800 U	<0.0000800 U	<0.0000290 U	<0.0000800 U	<0.0000800 U	<0.0000800 U	<0.0000800 U	<0.0000800 U	<0.0000800 U
SW7470A Dissolved	Mercury	0.94	res_air_gw_inhv	1.3	ci_air_gw_inhv	0.94	res_air_gw_inhv	mg/L	---	---	<0.0000290 U	---	---	---	---	---	---
SW8081A	4,4'-DDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	4,4'-DDE	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	4,4'-DDT	81	res_air_gw_inhv	140	ci_air_gw_inhv	81	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	Aldrin	0.57	res_air_gw_inhv	0.96	ci_air_gw_inhv	0.57	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	alpha-BHC	20	res_air_gw_inhv	33	ci_air_gw_inhv	20	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	alpha-Chlordane	20	res_air_gw_inhv	33	ci_air_gw_inhv	20	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	beta-BHC	150	res_air_gw_inhv	250	ci_air_gw_inhv	150	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	Chlordane	99	res_air_gw_inhv	170	ci_air_gw_inhv	99	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	delta-BHC	47	res_air_gw_inhv	79	ci_air_gw_inhv	47	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	Dieldrin	16	res_air_gw_inhv	28	ci_air_gw_inhv	16	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	Endosulfan I	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	Endosulfan II	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	Endosulfan sulfate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	Endrin	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	Endrin aldehyde	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	Endrin ketone	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	gamma-BHC (Lindane)	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	gamma-Chlordane	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	Heptachlor	0.81	res_air_gw_inhv	1.4	ci_air_gw_inhv	0.81	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	Heptachlor epoxide	15	res_air_gw_inhv	26	ci_air_gw_inhv	15	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	Methoxychlor	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8081A	Toxaphene	230	res_air_gw_inhv	390	ci_air_gw_inhv	230	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	14	res_air_gw_inhv	24	ci_air_gw_inhv	14	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1,1-Trichloroethane	5200	res_air_gw_inhv	7300	ci_air_gw_inhv	5200	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res_air_gw_inhv	17	ci_air_gw_inhv	10	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	200	res_air_gw_inhv	280	ci_air_gw_inhv	200	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1-Dichloroethane	5600	res_air_gw_inhv	7800	ci_air_gw_inhv	5600	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1-Dichloroethene	220	res_air_gw_inhv	300	ci_air_gw_inhv	220	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1-Dichloropropene	2.5	res_air_gw_inhv	4.2	ci_air_gw_inhv	2.5	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2,3-Trichlorobenzene	17	res_air_gw_inhv	24	ci_air_gw_inhv	17	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2,3-Trichloropropane	4.2	res_air_gw_inhv	5.8	ci_air_gw_inhv	4.2	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2,4-Trichlorobenzene	20	res_air_gw_inhv	28	ci_air_gw_inhv	20	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2,4-Trimethylbenzene	630	res_air_gw_inhv	880	ci_air_gw_inhv	630	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res_air_gw_inhv	0.13	ci_air_gw_inhv	0.08	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2-Dibromoethane	0.72	res_air_gw_inhv	1.2	ci_air_gw_inhv	0.72	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2-Dichlorobenzene	150	res_air_gw_inhv	210	ci_air_gw_inhv	150	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2-Dichloroethane	33	res_air_gw_inhv	55	ci_air_gw_inhv	33	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2-Dichloropropane	15	res_air_gw_inhv	21	ci_air_gw_inhv	15	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,3,5-Trimethylbenzene	490	res_air_gw_inhv	680	ci_air_gw_inhv	490	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,3-Dichlorobenzene	25	res_air_gw_inhv	34	ci_air_gw_inhv	25	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,3-Dichloropropane	33	res_air_gw_inhv	55	ci_air_gw_inhv	33	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,4-Dichlorobenzene	2200	res_air_gw_inhv	3100	ci_air_gw_inhv	2200	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1-Chlorohexane	940	res_air_gw_inhv	1300	ci_air_gw_inhv	940	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	2,2-Dichloropropane	7.3	res_air_gw_inhv	10	ci_air_gw_inhv	7.3	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	2-Butanone(MEK)	620000	res_air_gw_inhv	870000	ci_air_gw_inhv	620000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	2-Chlorotoluene	3100	res_air_gw_inhv	4300	ci_air_gw_inhv	3100	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---

								Sample Location	MW7	MW7	MW8	MW8	MW8	MW9	MW9	MW10	MW10
								Sample ID	INC-MW07-010 02/02/2017	INC-MW07-023 04/26/2017	MW8 10/01/2014	INC-MW08-010 02/01/2017	INC-MW08-020 04/25/2017	INC-MW09-010 02/01/2017	INC-MW09-020 04/25/2017	INC-MW10-013 02/02/2017	INC-MW10-020 04/26/2017
								Sample Date	2/2/2017	4/26/2017	10/1/2014	2/1/2017	4/25/2017	2/1/2017	4/25/2017	2/2/2017	4/26/2017
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Residential	Residential	Comm/Ind	Comm/Ind
Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	On-Site Critical PCL	Source of On-Site Critical PCL	Off-Site Critical PCL	Source of Off-Site Critical PCL	Units									
SW8260/8260B/8260C	2-Hexanone	1500	res_air_gw_inhv	2100	ci_air_gw_inhv	1500	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	4-Chlorotoluene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	87000	res_air_gw_inhv	120000	ci_air_gw_inhv	87000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Acetone	1000000	res_air_gw_inhv	1000000	ci_air_gw_inhv	1000000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Benzene	23	res_air_gw_inhv	39	ci_air_gw_inhv	23	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Bromobenzene	290	res_air_gw_inhv	410	ci_air_gw_inhv	290	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Bromochloromethane	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Bromodichloromethane	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Bromoform	670	res_air_gw_inhv	1100	ci_air_gw_inhv	670	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Bromomethane	6	res_air_gw_inhv	8.3	ci_air_gw_inhv	6	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Carbon disulfide	630	res_air_gw_inhv	880	ci_air_gw_inhv	630	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Carbon tetrachloride	2.5	res_air_gw_inhv	4.3	ci_air_gw_inhv	2.5	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Chlorobenzene	150	res_air_gw_inhv	210	ci_air_gw_inhv	150	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Chloroethane	15000	res_air_gw_inhv	21000	ci_air_gw_inhv	15000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Chloroform	2.6	res_air_gw_inhv	4.3	ci_air_gw_inhv	2.6	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Chloromethane	4.7	res_air_gw_inhv	7.9	ci_air_gw_inhv	4.7	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	cis-1,2-Dichloroethene	160	res_air_gw_inhv	220	ci_air_gw_inhv	160	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	cis-1,3-Dichloropropene	89	res_air_gw_inhv	120	ci_air_gw_inhv	89	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Cyclohexane	770	res_air_gw_inhv	1100	ci_air_gw_inhv	770	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Dibromochloromethane	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Dibromomethane	31	res_air_gw_inhv	43	ci_air_gw_inhv	31	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Dichlorodifluoromethane	7.8	res_air_gw_inhv	11	ci_air_gw_inhv	7.8	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Ethylbenzene	3800	res_air_gw_inhv	5400	ci_air_gw_inhv	3800	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Hexachlorobutadiene	1.1	res_air_gw_inhv	1.9	ci_air_gw_inhv	1.1	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Isopropylbenzene	570	res_air_gw_inhv	800	ci_air_gw_inhv	570	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	m & p-Xylene	1400	res_air_gw_inhv	1900	ci_air_gw_inhv	1400	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Methyl acetate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Methyl t-butyl ether	520	res_air_gw_inhv	880	ci_air_gw_inhv	520	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Methylcyclohexane	180	res_air_gw_inhv	260	ci_air_gw_inhv	180	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Methylene chloride	2800	res_air_gw_inhv	4600	ci_air_gw_inhv	2800	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Naphthalene	41	res_air_gw_inhv	57	ci_air_gw_inhv	41	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	n-Butylbenzene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	n-Propylbenzene	780	res_air_gw_inhv	1100	ci_air_gw_inhv	780	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	o-Xylene	98000	res_air_gw_inhv	140000	ci_air_gw_inhv	98000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	p-Isopropyltoluene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	sec-Butylbenzene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Styrene	2000	res_air_gw_inhv	2700	ci_air_gw_inhv	2000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	tert-Butylbenzene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Tetrachloroethene	64	res_air_gw_inhv	110	ci_air_gw_inhv	64	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Toluene	8200	res_air_gw_inhv	12000	ci_air_gw_inhv	8200	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	trans-1,2-Dichloroethene	99	res_air_gw_inhv	140	ci_air_gw_inhv	99	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	trans-1,3-Dichloropropene	25	res_air_gw_inhv	41	ci_air_gw_inhv	25	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Trichloroethene	3.1	res_air_gw_inhv	4.3	ci_air_gw_inhv	3.1	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Trichlorofluoromethane	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Vinyl chloride	0.49	res_air_gw_inhv	0.83	ci_air_gw_inhv	0.49	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,4,5-Trichlorophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,4,6-Trichlorophenol	6400	res_air_gw_inhv	11000	ci_air_gw_inhv	6400	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,4-Dichlorophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,4-Dimethylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,4-Dinitrophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,4-Dinitrotoluene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,6-Dinitrotoluene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2-Chloronaphthalene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2-Chlorophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2-Methylnaphthalene	---	---	---	---	---	---	mg/L	---	---	<0.00102 U	---	---	---	---	---	---
SW8270/8270C/8270D	2-Methylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2-Nitroaniline	520	res_air_gw_inhv	720	ci_air_gw_inhv	520	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2-Nitrophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	3,3'-Dichlorobenzidine	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	3-Nitroaniline	610	res_air_gw_inhv	860	ci_air_gw_inhv	610	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.2	res_air_gw_inhv	0.34	ci_air_gw_inhv	0.2	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	4-Chloro-3-methylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	4-Chloroaniline	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.16	res_air_gw_inhv	0.27	ci_air_gw_inhv	0.16	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	4-Methylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	4-Nitroaniline	19000	res_air_gw_inhv	26000	ci_air_gw_inhv	19000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---

								Sample Location	MW7	MW7	MW8	MW8	MW8	MW9	MW9	MW10	MW10
								Sample ID	INC-MW07-010 02/02/2017	INC-MW07-023 04/26/2017	MW8 10/01/2014	INC-MW08-010 02/01/2017	INC-MW08-020 04/25/2017	INC-MW09-010 02/01/2017	INC-MW09-020 04/25/2017	INC-MW10-013 02/02/2017	INC-MW10-020 04/26/2017
								Sample Date	2/2/2017	4/26/2017	10/1/2014	2/1/2017	4/25/2017	2/1/2017	4/25/2017	2/2/2017	4/26/2017
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Residential	Residential	Comm/Ind	Comm/Ind
Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	On-Site Critical PCL	Source of On-Site Critical PCL	Off-Site Critical PCL	Source of Off-Site Critical PCL	Units									
SW8270/8270C/8270D	4-Nitrophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Acenaphthene	---	---	---	---	---	---	mg/L	<0.0000270 U	<0.0000280 U	<0.00101 U	<0.0000300 U	<0.0000300 U	0.00998	0.00525	0.000578	<0.0000310 U
SW8270/8270C/8270D	Acenaphthylene	---	---	---	---	---	---	mg/L	<0.0000270 U	<0.0000280 U	---	<0.0000300 U	<0.0000300 U	<0.0000270 U	<0.0000300 U	<0.0000260 U	<0.0000310 U
SW8270/8270C/8270D	Acetophenone	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Anthracene	---	---	---	---	---	---	mg/L	<0.0000270 U	<0.0000280 U	---	<0.0000300 U	<0.0000300 U	0.0000790	0.000117	0.000141	0.0000330 J
SW8270/8270C/8270D	Aroclor 1016	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Aroclor 1221	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Aroclor 1232	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Aroclor 1242	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Aroclor 1248	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Aroclor 1254	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Aroclor 1260	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Atrazine	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Benzaldehyde	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Benzo(a)anthracene	390	res_air_gw_inhv	650	ci_air_gw_inhv	390	res_air_gw_inhv	mg/L	<0.0000270 U	<0.0000280 U	---	<0.0000300 U	<0.0000300 U	<0.0000270 U	<0.0000300 U	<0.0000260 U	<0.0000310 U
SW8270/8270C/8270D	Benzo(a)pyrene	3.8	res_air_gw_inhv	5.3	ci_air_gw_inhv	3.8	res_air_gw_inhv	mg/L	<0.0000270 U	<0.0000280 U	---	<0.0000300 U	<0.0000300 U	<0.0000270 U	<0.0000300 U	<0.0000260 U	<0.0000310 U
SW8270/8270C/8270D	Benzo(b)fluoranthene	310	res_air_gw_inhv	520	ci_air_gw_inhv	310	res_air_gw_inhv	mg/L	<0.0000270 U	<0.0000280 U	---	<0.0000300 U	<0.0000300 U	<0.0000270 U	<0.0000300 U	<0.0000260 U	<0.0000310 U
SW8270/8270C/8270D	Benzo(g,h,i)perylene	---	---	---	---	---	---	mg/L	<0.0000270 U	<0.0000280 U	---	<0.0000300 U	<0.0000300 U	<0.0000270 U	<0.0000300 U	<0.0000260 U	<0.0000310 U
SW8270/8270C/8270D	Benzo(k)fluoranthene	18000	res_air_gw_inhv	31000	ci_air_gw_inhv	18000	res_air_gw_inhv	mg/L	<0.0000270 U	<0.0000280 U	---	<0.0000300 U	<0.0000300 U	<0.0000270 U	<0.0000300 U	<0.0000260 U	<0.0000310 U
SW8270/8270C/8270D	Benzoic acid	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Benzyl alcohol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Biphenyl	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	10	res_air_gw_inhv	17	ci_air_gw_inhv	10	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	bis(2-Chloroethyl) ether	12	res_air_gw_inhv	20	ci_air_gw_inhv	12	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	110	res_air_gw_inhv	190	ci_air_gw_inhv	110	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	---	---	---	---	---	---	mg/L	---	---	<0.000454 U	---	---	---	---	---	---
SW8270/8270C/8270D	Butylbenzylphthalate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Caprolactam	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Carbazole	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Chrysene	110000	res_air_gw_inhv	190000	ci_air_gw_inhv	110000	res_air_gw_inhv	mg/L	<0.0000270 U	<0.0000280 U	---	<0.0000300 U	<0.0000300 U	<0.0000270 U	<0.0000300 U	<0.0000260 U	<0.0000310 U
SW8270/8270C/8270D	Dibenz(a,h)anthracene	200	res_air_gw_inhv	330	ci_air_gw_inhv	200	res_air_gw_inhv	mg/L	<0.0000270 U	<0.0000280 U	---	<0.0000300 U	<0.0000300 U	<0.0000270 U	<0.0000300 U	<0.0000260 U	<0.0000310 U
SW8270/8270C/8270D	Dibenzofuran	---	---	---	---	---	---	mg/L	---	---	<0.00103 U	---	---	---	---	---	---
SW8270/8270C/8270D	Diethyl phthalate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Dimethyl phthalate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Di-n-butylphthalate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Di-n-octylphthalate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Fluoranthene	---	---	---	---	---	---	mg/L	<0.0000270 U	<0.0000280 U	<0.000525 U	<0.0000300 U	<0.0000300 U	0.0000670	0.000259	0.000261	0.000186
SW8270/8270C/8270D	Fluorene	---	---	---	---	---	---	mg/L	<0.0000270 U	<0.0000280 U	<0.00104 U	<0.0000300 U	<0.0000300 U	0.000251	<0.0000300 U	0.000941	0.0000470 J
SW8270/8270C/8270D	Hexachlorobenzene	0.74	res_air_gw_inhv	1.2	ci_air_gw_inhv	0.74	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Hexachlorobutadiene	1.1	res_air_gw_inhv	1.9	ci_air_gw_inhv	1.1	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Hexachlorocyclopentadiene	0.7	res_air_gw_inhv	0.98	ci_air_gw_inhv	0.7	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Hexachloroethane	950	res_air_gw_inhv	1300	ci_air_gw_inhv	950	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	1800	res_air_gw_inhv	3000	ci_air_gw_inhv	1800	res_air_gw_inhv	mg/L	<0.0000270 U	<0.0000280 U	---	<0.0000300 U	<0.0000300 U	<0.0000270 U	<0.0000300 U	<0.0000260 U	<0.0000310 U
SW8270/8270C/8270D	Isophorone	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Naphthalene	41	res_air_gw_inhv	57	ci_air_gw_inhv	41	res_air_gw_inhv	mg/L	<0.0000270 U	<0.0000280 U	<0.00101 U	<0.0000300 U	<0.0000300 U	0.000294	<0.0000300 U	0.0000430 J	<0.0000310 U
SW8270/8270C/8270D	Nitrobenzene	93	res_air_gw_inhv	160	ci_air_gw_inhv	93	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	N-Nitrosodiphenylamine	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Pentachlorophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Phenanthrene	---	---	---	---	---	---	mg/L	<0.0000270 U	<0.0000280 U	<0.000838 U	<0.0000300 U	<0.0000300 U	<0.0000270 U	<0.0000300 U	0.000675	0.000111
SW8270/8270C/8270D	Phenol	21000	res_air_gw_inhv	29000	ci_air_gw_inhv	21000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Pyrene	---	---	---	---	---	---	mg/L	<0.0000270 U	<0.0000280 U	<0.000482 U	<0.0000300 U	<0.0000300 U	0.0000640	0.000170	0.000191	0.000156
SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---

								Sample Location	MW7	MW7	MW8	MW8	MW8	MW9	MW9	MW10	MW10
								Sample ID	INC-MW07-010 02/02/2017	INC-MW07-023 04/26/2017	MW8 10/01/2014	INC-MW08-010 02/01/2017	INC-MW08-020 04/25/2017	INC-MW09-010 02/01/2017	INC-MW09-020 04/25/2017	INC-MW10-013 02/02/2017	INC-MW10-020 04/26/2017
								Sample Date	2/2/2017	4/26/2017	10/1/2014	2/1/2017	4/25/2017	2/1/2017	4/25/2017	2/2/2017	4/26/2017
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Residential	Residential	Comm/Ind	Comm/Ind
Method	**Analyte**	**Residential Assessment Level**	**Source of Residential Assessment Level**	**On-Site Critical PCL**	**Source of On-Site Critical PCL**	**Off-Site Critical PCL**	**Source of Off-Site Critical PCL**	**Units**									
SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8290A	2,3,7,8-TCDD (TEQs)	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8290A	OCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---
SW8290A	OCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---	---

								Sample Location	MW11	MW11	MW11	MW12	MW12	MW12	MW13	MW13
								Sample ID	INC-MW11-010 02/02/2017	INC-MW11-011-DUP 02/02/2017	INC-MW11-020 04/25/2017	INC-MW12-010 02/01/2017	INC-MW12-020 04/25/2017	INC-MW12-021-DUP 04/25/2017	INC-MW13-010 02/01/2017	INC-MW13-020 04/25/2017
								Sample Date	2/2/2017	2/2/2017	4/25/2017	2/1/2017	4/25/2017	4/25/2017	2/1/2017	4/25/2017
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	On-Site Critical PCL	Source of On-Site Critical PCL	Off-Site Critical PCL	Source of Off-Site Critical PCL	Units								
SW6020/6020A	Antimony	---	---	---	---	---	---	mg/L	<0.000800 U	<0.000800 U	<0.000800 U	<0.000800 U	<0.000800 U	<0.000800 U	<0.000800 U	<0.000800 U
SW6020/6020A	Arsenic	---	---	---	---	---	---	mg/L	0.00903	0.00930	0.0127	0.00284 J	<0.00200 U	<0.00200 U	0.0105	0.0134
SW6020/6020A	Barium	---	---	---	---	---	---	mg/L	0.0863	0.0871	0.0819	0.101	0.0550	0.0551	0.169	0.0793
SW6020/6020A	Beryllium	---	---	---	---	---	---	mg/L	<0.000300 U	<0.000300 U	<0.000300 UJL	<0.000300 U	<0.000300 UJL	<0.000300 UJL	<0.000300 U	<0.000300 UJL
SW6020/6020A	Cadmium	---	---	---	---	---	---	mg/L	<0.000300 U	<0.000300 U	<0.000300 UJL	<0.000300 U	<0.000300 UJL	<0.000300 UJL	<0.000300 U	<0.000300 UJL
SW6020/6020A	Chromium, total	---	---	---	---	---	---	mg/L	<0.00200 U	<0.00200 U	<0.00200 UJL	<0.00200 U	<0.00200 UJL	<0.00200 UJL	<0.00200 U	<0.00200 UJL
SW6020/6020A	Lead	---	---	---	---	---	---	mg/L	0.000787 J	0.00113	0.000909 JH	0.000923 J	<0.000300 UJ	<0.000300 UJ	0.000769 J	0.000321 J
SW6020/6020A	Nickel	---	---	---	---	---	---	mg/L	0.00479 J	0.00473 J	<0.00300 UJL	<0.00300 U	<0.00300 UJL	<0.00300 UJL	<0.00300 U	<0.00300 UJL
SW6020/6020A	Selenium	---	---	---	---	---	---	mg/L	<0.00200 U	<0.00200 U	<0.00200 U	<0.00200 U	<0.00200 U	<0.00200 U	<0.00200 U	<0.00200 U
SW6020/6020A	Silver	---	---	---	---	---	---	mg/L	<0.00100 U	<0.00100 U	<0.00100 UJL	<0.00100 U	<0.00100 UJL	<0.00100 UJL	<0.00100 U	<0.00100 UJL
SW6020A Dissolved	Arsenic	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW6020A Dissolved	Barium	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW6020A Dissolved	Cadmium	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW6020A Dissolved	Chromium, total	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW6020A Dissolved	Lead	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW6020A Dissolved	Selenium	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW6020A Dissolved	Silver	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW7470/7470A	Mercury	0.94	res_air_gw_inhv	1.3	ci_air_gw_inhv	0.94	res_air_gw_inhv	mg/L	<0.0000800 U	<0.0000800 U	<0.0000800 U	<0.0000800 U	<0.0000800 U	<0.0000800 U	<0.0000800 U	<0.0000800 U
SW7470A Dissolved	Mercury	0.94	res_air_gw_inhv	1.3	ci_air_gw_inhv	0.94	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8081A	4,4'-DDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8081A	4,4'-DDE	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8081A	4,4'-DDT	81	res_air_gw_inhv	140	ci_air_gw_inhv	81	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8081A	Aldrin	0.57	res_air_gw_inhv	0.96	ci_air_gw_inhv	0.57	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8081A	alpha-BHC	20	res_air_gw_inhv	33	ci_air_gw_inhv	20	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8081A	alpha-Chlordane	20	res_air_gw_inhv	33	ci_air_gw_inhv	20	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8081A	beta-BHC	150	res_air_gw_inhv	250	ci_air_gw_inhv	150	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8081A	Chlordane	99	res_air_gw_inhv	170	ci_air_gw_inhv	99	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8081A	delta-BHC	47	res_air_gw_inhv	79	ci_air_gw_inhv	47	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8081A	Dieldrin	16	res_air_gw_inhv	28	ci_air_gw_inhv	16	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8081A	Endosulfan I	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8081A	Endosulfan II	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8081A	Endosulfan sulfate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8081A	Endrin	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8081A	Endrin aldehyde	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8081A	Endrin ketone	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8081A	gamma-BHC (Lindane)	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8081A	gamma-Chlordane	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8081A	Heptachlor	0.81	res_air_gw_inhv	1.4	ci_air_gw_inhv	0.81	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8081A	Heptachlor epoxide	15	res_air_gw_inhv	26	ci_air_gw_inhv	15	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8081A	Methoxychlor	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8081A	Toxaphene	230	res_air_gw_inhv	390	ci_air_gw_inhv	230	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1,1,2-Tetrachloroethane	14	res_air_gw_inhv	24	ci_air_gw_inhv	14	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1,1-Trichloroethane	5200	res_air_gw_inhv	7300	ci_air_gw_inhv	5200	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1,2,2-Tetrachloroethane	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1,2-Trichloroethane	10	res_air_gw_inhv	17	ci_air_gw_inhv	10	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1,2-Trichlorotrifluoroethane	200	res_air_gw_inhv	280	ci_air_gw_inhv	200	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1-Dichloroethane	5600	res_air_gw_inhv	7800	ci_air_gw_inhv	5600	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1-Dichloroethene	220	res_air_gw_inhv	300	ci_air_gw_inhv	220	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,1-Dichloropropene	2.5	res_air_gw_inhv	4.2	ci_air_gw_inhv	2.5	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2,3-Trichlorobenzene	17	res_air_gw_inhv	24	ci_air_gw_inhv	17	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2,3-Trichloropropane	4.2	res_air_gw_inhv	5.8	ci_air_gw_inhv	4.2	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2,4-Trichlorobenzene	20	res_air_gw_inhv	28	ci_air_gw_inhv	20	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2,4-Trimethylbenzene	630	res_air_gw_inhv	880	ci_air_gw_inhv	630	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2-Dibromo-3-chloropropane	0.080	res_air_gw_inhv	0.13	ci_air_gw_inhv	0.08	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2-Dibromoethane	0.72	res_air_gw_inhv	1.2	ci_air_gw_inhv	0.72	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2-Dichlorobenzene	150	res_air_gw_inhv	210	ci_air_gw_inhv	150	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2-Dichloroethane	33	res_air_gw_inhv	55	ci_air_gw_inhv	33	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,2-Dichloropropane	15	res_air_gw_inhv	21	ci_air_gw_inhv	15	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,3,5-Trimethylbenzene	490	res_air_gw_inhv	680	ci_air_gw_inhv	490	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,3-Dichlorobenzene	25	res_air_gw_inhv	34	ci_air_gw_inhv	25	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,3-Dichloropropane	33	res_air_gw_inhv	55	ci_air_gw_inhv	33	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1,4-Dichlorobenzene	2200	res_air_gw_inhv	3100	ci_air_gw_inhv	2200	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	1-Chlorohexane	940	res_air_gw_inhv	1300	ci_air_gw_inhv	940	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	2,2-Dichloropropane	7.3	res_air_gw_inhv	10	ci_air_gw_inhv	7.3	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	2-Butanone(MEK)	620000	res_air_gw_inhv	870000	ci_air_gw_inhv	620000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	2-Chlorotoluene	3100	res_air_gw_inhv	4300	ci_air_gw_inhv	3100	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---

								Sample Location	MW11	MW11	MW11	MW12	MW12	MW12	MW13	MW13
								Sample ID	INC-MW11-010 02/02/2017	INC-MW11-011-DUP 02/02/2017	INC-MW11-020 04/25/2017	INC-MW12-010 02/01/2017	INC-MW12-020 04/25/2017	INC-MW12-021-DUP 04/25/2017	INC-MW13-010 02/01/2017	INC-MW13-020 04/25/2017
								Sample Date	2/2/2017	2/2/2017	4/25/2017	2/1/2017	4/25/2017	4/25/2017	2/1/2017	4/25/2017
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	On-Site Critical PCL	Source of On-Site Critical PCL	Off-Site Critical PCL	Source of Off-Site Critical PCL	Units								
SW8260/8260B/8260C	2-Hexanone	1500	res_air_gw_inhv	2100	ci_air_gw_inhv	1500	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	4-Chlorotoluene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	4-Methyl-2-pentanone(MIBK)	87000	res_air_gw_inhv	120000	ci_air_gw_inhv	87000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Acetone	1000000	res_air_gw_inhv	1000000	ci_air_gw_inhv	1000000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Benzene	23	res_air_gw_inhv	39	ci_air_gw_inhv	23	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Bromobenzene	290	res_air_gw_inhv	410	ci_air_gw_inhv	290	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Bromochloromethane	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Bromodichloromethane	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Bromoform	670	res_air_gw_inhv	1100	ci_air_gw_inhv	670	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Bromomethane	6	res_air_gw_inhv	8.3	ci_air_gw_inhv	6	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Carbon disulfide	630	res_air_gw_inhv	880	ci_air_gw_inhv	630	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Carbon tetrachloride	2.5	res_air_gw_inhv	4.3	ci_air_gw_inhv	2.5	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Chlorobenzene	150	res_air_gw_inhv	210	ci_air_gw_inhv	150	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Chloroethane	15000	res_air_gw_inhv	21000	ci_air_gw_inhv	15000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Chloroform	2.6	res_air_gw_inhv	4.3	ci_air_gw_inhv	2.6	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Chloromethane	4.7	res_air_gw_inhv	7.9	ci_air_gw_inhv	4.7	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	cis-1,2-Dichloroethene	160	res_air_gw_inhv	220	ci_air_gw_inhv	160	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	cis-1,3-Dichloropropene	89	res_air_gw_inhv	120	ci_air_gw_inhv	89	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Cyclohexane	770	res_air_gw_inhv	1100	ci_air_gw_inhv	770	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Dibromochloromethane	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Dibromomethane	31	res_air_gw_inhv	43	ci_air_gw_inhv	31	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Dichlorodifluoromethane	7.8	res_air_gw_inhv	11	ci_air_gw_inhv	7.8	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Ethylbenzene	3800	res_air_gw_inhv	5400	ci_air_gw_inhv	3800	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Hexachlorobutadiene	1.1	res_air_gw_inhv	1.9	ci_air_gw_inhv	1.1	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Isopropylbenzene	570	res_air_gw_inhv	800	ci_air_gw_inhv	570	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	m & p-Xylene	1400	res_air_gw_inhv	1900	ci_air_gw_inhv	1400	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Methyl acetate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Methyl t-butyl ether	520	res_air_gw_inhv	880	ci_air_gw_inhv	520	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Methylcyclohexane	180	res_air_gw_inhv	260	ci_air_gw_inhv	180	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Methylene chloride	2800	res_air_gw_inhv	4600	ci_air_gw_inhv	2800	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Naphthalene	41	res_air_gw_inhv	57	ci_air_gw_inhv	41	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	n-Butylbenzene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	n-Propylbenzene	780	res_air_gw_inhv	1100	ci_air_gw_inhv	780	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	o-Xylene	98000	res_air_gw_inhv	140000	ci_air_gw_inhv	98000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	p-Isopropyltoluene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	sec-Butylbenzene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Styrene	2000	res_air_gw_inhv	2700	ci_air_gw_inhv	2000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	tert-Butylbenzene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Tetrachloroethene	64	res_air_gw_inhv	110	ci_air_gw_inhv	64	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Toluene	8200	res_air_gw_inhv	12000	ci_air_gw_inhv	8200	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	trans-1,2-Dichloroethene	99	res_air_gw_inhv	140	ci_air_gw_inhv	99	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	trans-1,3-Dichloropropene	25	res_air_gw_inhv	41	ci_air_gw_inhv	25	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Trichloroethene	3.1	res_air_gw_inhv	4.3	ci_air_gw_inhv	3.1	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Trichlorofluoromethane	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8260/8260B/8260C	Vinyl chloride	0.49	res_air_gw_inhv	0.83	ci_air_gw_inhv	0.49	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,4,5-Trichlorophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,4,6-Trichlorophenol	6400	res_air_gw_inhv	11000	ci_air_gw_inhv	6400	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,4-Dichlorophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,4-Dimethylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,4-Dinitrophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,4-Dinitrotoluene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2,6-Dinitrotoluene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2-Chloronaphthalene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2-Chlorophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2-Methylnaphthalene	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2-Methylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2-Nitroaniline	520	res_air_gw_inhv	720	ci_air_gw_inhv	520	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	2-Nitrophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	3,3'-Dichlorobenzidine	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	3-Nitroaniline	610	res_air_gw_inhv	860	ci_air_gw_inhv	610	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	4,6-Dinitro-2-methylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	4-Bromophenyl phenyl ether	0.2	res_air_gw_inhv	0.34	ci_air_gw_inhv	0.2	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	4-Chloro-3-methylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	4-Chloroaniline	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	4-Chlorophenyl phenyl ether	0.16	res_air_gw_inhv	0.27	ci_air_gw_inhv	0.16	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	4-Methylphenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	4-Nitroaniline	19000	res_air_gw_inhv	26000	ci_air_gw_inhv	19000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---

								Sample Location	MW11	MW11	MW11	MW12	MW12	MW12	MW13	MW13
								Sample ID	INC-MW11-010 02/02/2017	INC-MW11-011-DUP 02/02/2017	INC-MW11-020 04/25/2017	INC-MW12-010 02/01/2017	INC-MW12-020 04/25/2017	INC-MW12-021-DUP 04/25/2017	INC-MW13-010 02/01/2017	INC-MW13-020 04/25/2017
								Sample Date	2/2/2017	2/2/2017	4/25/2017	2/1/2017	4/25/2017	4/25/2017	2/1/2017	4/25/2017
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
Method	Analyte	Residential Assessment Level	Source of Residential Assessment Level	On-Site Critical PCL	Source of On-Site Critical PCL	Off-Site Critical PCL	Source of Off-Site Critical PCL	Units								
SW8270/8270C/8270D	4-Nitrophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Acenaphthene	---	---	---	---	---	---	mg/L	<0.0000260 U	<0.0000260 U	<0.0000280 U	<0.0000300 U	<0.0000290 U	<0.0000300 U	0.000289	0.000230
SW8270/8270C/8270D	Acenaphthylene	---	---	---	---	---	---	mg/L	<0.0000260 U	<0.0000260 U	<0.0000280 U	<0.0000300 U	<0.0000290 U	<0.0000300 U	<0.0000290 U	<0.0000290 U
SW8270/8270C/8270D	Acetophenone	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Anthracene	---	---	---	---	---	---	mg/L	<0.0000260 U	<0.0000260 U	<0.0000280 U	<0.0000300 U	<0.0000290 U	<0.0000300 U	<0.0000290 U	<0.0000290 U
SW8270/8270C/8270D	Aroclor 1016	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Aroclor 1221	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Aroclor 1232	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Aroclor 1242	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Aroclor 1248	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Aroclor 1254	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Aroclor 1260	0.38	res_air_gw_inhv	0.64	ci_air_gw_inhv	0.38	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Atrazine	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Benzaldehyde	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Benzo(a)anthracene	390	res_air_gw_inhv	650	ci_air_gw_inhv	390	res_air_gw_inhv	mg/L	<0.0000260 U	<0.0000260 U	<0.0000280 U	<0.0000300 U	<0.0000290 U	<0.0000300 U	<0.0000290 U	<0.0000290 U
SW8270/8270C/8270D	Benzo(a)pyrene	3.8	res_air_gw_inhv	5.3	ci_air_gw_inhv	3.8	res_air_gw_inhv	mg/L	<0.0000260 U	<0.0000260 U	<0.0000280 U	<0.0000300 U	<0.0000290 U	<0.0000300 U	<0.0000290 U	<0.0000290 U
SW8270/8270C/8270D	Benzo(b)fluoranthene	310	res_air_gw_inhv	520	ci_air_gw_inhv	310	res_air_gw_inhv	mg/L	<0.0000260 U	<0.0000260 U	<0.0000280 U	<0.0000300 U	<0.0000290 U	0.0000370 J	<0.0000290 U	<0.0000290 U
SW8270/8270C/8270D	Benzo(g,h,i)perylene	---	---	---	---	---	---	mg/L	<0.0000260 U	<0.0000260 U	<0.0000280 U	<0.0000300 U	<0.0000290 U	<0.0000300 U	<0.0000290 U	<0.0000290 U
SW8270/8270C/8270D	Benzo(k)fluoranthene	18000	res_air_gw_inhv	31000	ci_air_gw_inhv	18000	res_air_gw_inhv	mg/L	<0.0000260 U	<0.0000260 U	<0.0000280 U	<0.0000300 U	<0.0000290 U	<0.0000300 U	<0.0000290 U	<0.0000290 U
SW8270/8270C/8270D	Benzoic acid	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Benzyl alcohol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Biphenyl	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	bis(2-Chloroethoxy)methane	10	res_air_gw_inhv	17	ci_air_gw_inhv	10	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	bis(2-Chloroethyl) ether	12	res_air_gw_inhv	20	ci_air_gw_inhv	12	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	bis(2-Chloroisopropyl) ether	110	res_air_gw_inhv	190	ci_air_gw_inhv	110	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	bis(2-Ethylhexyl)phthalate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Butylbenzylphthalate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Caprolactam	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Carbazole	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Chrysene	110000	res_air_gw_inhv	190000	ci_air_gw_inhv	110000	res_air_gw_inhv	mg/L	<0.0000260 U	<0.0000260 U	<0.0000280 U	<0.0000300 U	<0.0000290 U	<0.0000300 U	<0.0000290 U	<0.0000290 U
SW8270/8270C/8270D	Dibenz(a,h)anthracene	200	res_air_gw_inhv	330	ci_air_gw_inhv	200	res_air_gw_inhv	mg/L	<0.0000260 U	<0.0000260 U	<0.0000280 U	<0.0000300 U	<0.0000290 U	<0.0000300 U	<0.0000290 U	<0.0000290 U
SW8270/8270C/8270D	Dibenzofuran	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Diethyl phthalate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Dimethyl phthalate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Di-n-butylphthalate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Di-n-octylphthalate	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Fluoranthene	---	---	---	---	---	---	mg/L	<0.0000260 U	<0.0000260 U	<0.0000280 U	<0.0000300 U	<0.0000290 U	<0.0000300 U	<0.0000290 U	<0.0000290 U
SW8270/8270C/8270D	Fluorene	---	---	---	---	---	---	mg/L	<0.0000260 U	<0.0000260 U	<0.0000280 U	<0.0000300 U	<0.0000290 U	<0.0000300 U	0.0000390 J	<0.0000290 U
SW8270/8270C/8270D	Hexachlorobenzene	0.74	res_air_gw_inhv	1.2	ci_air_gw_inhv	0.74	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Hexachlorobutadiene	1.1	res_air_gw_inhv	1.9	ci_air_gw_inhv	1.1	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Hexachlorocyclopentadiene	0.7	res_air_gw_inhv	0.98	ci_air_gw_inhv	0.7	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Hexachloroethane	950	res_air_gw_inhv	1300	ci_air_gw_inhv	950	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Indeno(1,2,3-cd)pyrene	1800	res_air_gw_inhv	3000	ci_air_gw_inhv	1800	res_air_gw_inhv	mg/L	<0.0000260 U	<0.0000260 U	<0.0000280 U	<0.0000300 U	<0.0000290 U	<0.0000300 U	<0.0000290 U	<0.0000290 U
SW8270/8270C/8270D	Isophorone	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Naphthalene	41	res_air_gw_inhv	57	ci_air_gw_inhv	41	res_air_gw_inhv	mg/L	<0.0000260 U	<0.0000260 U	<0.0000280 U	<0.0000300 U	<0.0000290 U	<0.0000300 U	<0.0000290 U	<0.0000290 U
SW8270/8270C/8270D	Nitrobenzene	93	res_air_gw_inhv	160	ci_air_gw_inhv	93	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	N-Nitroso-di-n-propylamine	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	N-Nitrosodiphenylamine	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Pentachlorophenol	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Phenanthrene	---	---	---	---	---	---	mg/L	<0.0000260 U	<0.0000260 U	<0.0000280 U	<0.0000300 U	<0.0000290 U	<0.0000300 U	<0.0000290 U	<0.0000290 U
SW8270/8270C/8270D	Phenol	21000	res_air_gw_inhv	29000	ci_air_gw_inhv	21000	res_air_gw_inhv	mg/L	---	---	---	---	---	---	---	---
SW8270/8270C/8270D	Pyrene	---	---	---	---	---	---	mg/L	<0.0000260 U	<0.0000260 U	<0.0000280 U	<0.0000300 U	<0.0000290 U	<0.0000300 U	<0.0000290 U	<0.0000290 U
SW8290A	1,2,3,4,6,7,8-HpCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8290A	1,2,3,4,6,7,8-HpCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8290A	1,2,3,4,7,8,9-HpCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8290A	1,2,3,4,7,8-HxCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8290A	1,2,3,4,7,8-HxCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8290A	1,2,3,6,7,8-HxCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8290A	1,2,3,6,7,8-HxCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---

								Sample Location	MW11	MW11	MW11	MW12	MW12	MW12	MW13	MW13
								Sample ID	INC-MW11-010 02/02/2017	INC-MW11-011-DUP 02/02/2017	INC-MW11-020 04/25/2017	INC-MW12-010 02/01/2017	INC-MW12-020 04/25/2017	INC-MW12-021-DUP 04/25/2017	INC-MW13-010 02/01/2017	INC-MW13-020 04/25/2017
								Sample Date	2/2/2017	2/2/2017	4/25/2017	2/1/2017	4/25/2017	4/25/2017	2/1/2017	4/25/2017
								Location Type	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind	Comm/Ind
Method	**Analyte**	**Residential Assessment Level**	**Source of Residential Assessment Level**	**On-Site Critical PCL**	**Source of On-Site Critical PCL**	**Off-Site Critical PCL**	**Source of Off-Site Critical PCL**	**Units**								
SW8290A	1,2,3,7,8,9-HxCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8290A	1,2,3,7,8,9-HxCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8290A	1,2,3,7,8-PeCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8290A	1,2,3,7,8-PeCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8290A	2,3,4,6,7,8-HxCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8290A	2,3,4,7,8-PeCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8290A	2,3,7,8-TCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8290A	2,3,7,8-TCDD (TEQs)	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8290A	2,3,7,8-TCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8290A	OCDD	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---
SW8290A	OCDF	---	---	---	---	---	---	mg/L	---	---	---	---	---	---	---	---

SECTION 5

TABLE 5C

GROUNDWATER GEOCHEMICAL DATA SUMMARY

[This table is not applicable.]

SECTION 5

TABLE 5D

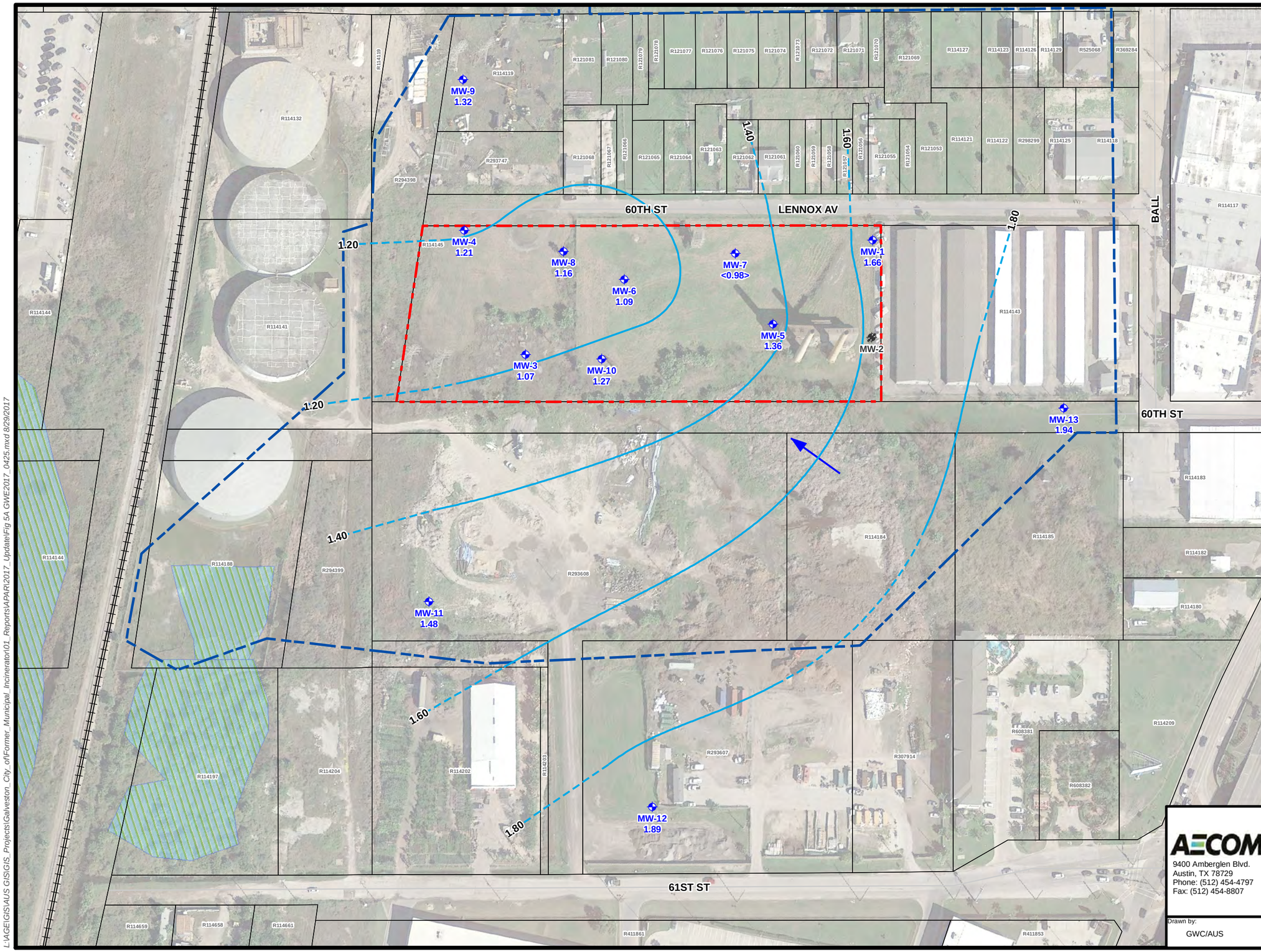
GROUNDWATER MEASUREMENTS

[This table is not applicable.]

SECTION 5

FIGURE 5A

GROUNDWATER GRADIENT MAP



Legend

- On-Site Property Boundary
- Affected Property Boundary (Tier I RAL)
- Real Estate Parcel
- Wetland (USFWS, 2012)
- Railroad Track
- Monitoring Well Location
- Monitoring Well Location (Decommissioned)
- RAL — Residential Assessment Level
- 1.48 — Groundwater Elevation (ft msl)
- <0.98> — Grounwater Elevation (ft msl) (Not Considered for Contouring)
- Potentiometric Surface Contour (ft msl) (Dashed Where Inferred)
- Apparent Groundwater Flow Direction

STATE OF TEXAS
ROBERT A. SCHAFER
GEOLOGY
3066
LICENSED
PROFESSIONAL GEOSCIENTIST
8-29-17

150 75 0 150
Feet

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

Client: City of Galveston

Report: Affected Property Assessment Report

Title: **Groundwater Gradient Map April 25, 2017**

Drawn by:	Date:	GIS File:	Figure:
GWC/AUS	8/29/2017	Fig 5A GWE2017_0425	5A

L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Fig 5A GWE2017_0425.mxd 8/29/2017

SECTION 5

FIGURE 5B

GROUNDWATER COC CONCENTRATION MAPS

[This figure is not applicable.]

SECTION 5

FIGURE 5C

GROUNDWATER GEOCHEMISTRY MAPS

[This figure is not applicable.]

SECTION 5

FIGURE 5D

CROSS SECTION GROUNDWATER-TO-SURFACE WATER PATHWAY

[This figure is not applicable.]

SECTION 6

SURFACE WATER ASSESSMENT AND CRITICAL PCL DEVELOPMENT

[This section is not applicable.]

SECTION 7

SEDIMENT ASSESSMENT AND CRITICAL PCL DEVELOPMENT

[This section is not applicable.]

SECTION 8

AIR ASSESSMENT AND CRITICAL PCL DEVELOPMENT

[This section is not applicable.]

SECTION 9

ECOLOGICAL RISK ASSESSMENT

[This section is not applicable.]

SECTION 10

COC SCREENING

Section 10 COC Screening

Soil samples collected by AECOM in 2015 and 2017 to define the lateral and vertical extent of affected surface soil (residential < 15 ft bgs) were from both on-site and off-site locations at depths ranging from the ground surface to a maximum of 5 ft bgs. These samples were analyzed for the target COCs detected above the Tier 1 RAL in previous sampling events at the Site (Meridian, March 2006; EFI Global, March 2014 and September 2014). Depending on the sampling location and objective of the particular round of step-out sampling, samples were analyzed for metals (including mercury), PAHs and/or SVOCs, VOCs, organochlorine pesticides, PCBs, and dioxins/furans, using the EPA SW-846 analytical methods identified in Section 3.1. TPH was analyzed using TCEQ Method 1005. One soil sample and one groundwater sample (MW-10) were collected on the Site (Lot E) for PFOA/PFOS, per the request of the TCEQ. Target COCs were screened from critical Protective Concentration Levels (cPCLs) development based on the criteria defined in §350.71(k)(1) and §350.71(k)(3). Table 10A provides a summary of the COC screening results. Section 10.1 through Section 10.4 are not applicable, because no COCs were screened out under the criteria defined in §350.71(k)(2)(A), §350.71(k)(2)(B), §350.71(k)(2)(C), §350.71(k)(2)(D), §350.71(k)(2)(E), or §350.71(k)(4).

The groundwater samples collected by AECOM during two groundwater-sampling events conducted in 2017 were from both on-site and off-site permanent monitoring wells installed for this site investigation. MSD certificate No. 333 has already been issued for the affected property; therefore, there are no groundwater cPCL exceedances related to this project.

SECTION 10

TABLE 10A

COC SCREENING SUMMARY TABLE

Table 10A: COC Screening Summary Table

ID No.

GLO Galveston - 2017 APAR Revision

Land Use for the purpose of PCL development: Residential

Groundwater Classification: Class 1

Date of Tier 1 Tables used for Assessment Levels: 03/31/2017

TRRP Commander v9.01 Lic. No. TCSC9010315138, AECOM (URS)

1	2	3	4	5	6	7	8	9
COC	350.71 (k)(1)	350.71 (k)(2)(A)	350.71 (k)(2)(B)	350.71 (k)(2)(C)	350.71 (k)(2)(D)	350.71 (k)(2)(E)	350.71 (k)(3)	350.71 (k)(4)
Acenaphthene	SS, SSS, GW,							
Acenaphthylene	SS, SSS, GW,							
Acetone (2-propanone)	SS, SSS, GW,							
Acetophenone	SS, SSS, GW,							
Aldrin	SS, SSS, GW,							
Anthracene	SS, SSS, GW,							
Antimony							SSS,	
Arsenic							SSS,	
Atrazine	SS, SSS, GW,							
Barium	SS, SSS, GW,							
Benz-a-anthracene							SSS, GW,	
Benzaldehyde	SS, SSS, GW,							
Benzene	SS, SSS, GW,							
Benzo-a-pyrene							GW,	
Benzo-b-fluoranthene							SSS,	
Benzo-g,h,i-perylene	SS, SSS, GW,							
Benzoic acid	SS, SSS, GW,							
Benzo-k-fluoranthene	SS, SSS, GW,							
Benzyl alcohol	SS, SSS, GW,							
Beryllium	SS, SSS, GW,							
Biphenyl, 1,1-	SS, SSS, GW,							
Bis (2-chloroethoxy) methane							SS, SSS, GW,	
Bis (2-chloroethyl) ether							SS, SSS, GW,	
Bis (2-chloroisopropyl) ether							SS, SSS, GW,	
Bis (2-ethyl-hexyl) phthalate							SSS,	
Bromobenzene							SS, SSS, GW,	
Bromodichloromethane	SS, SSS, GW,							
Bromoform							SS, SSS, GW,	
Bromomethane							SS, SSS, GW,	
Bromophenyl phenylether, 4-							SS, SSS, GW,	
Butyl benzyl phthalate	SS, SSS, GW,							
Butylate	SS, SSS, GW,							
Butylbenzene, n-	SS, SSS, GW,							
Butylbenzene, sec-	SS, SSS, GW,							
Butylbenzene, tert-	SS, SSS, GW,							
Cadmium							SSS,	
Caprolactam	SS, SSS, GW,							
Carbazole	SS, SSS, GW,							
Carbon disulfide	SS, SSS, GW,							
Carbon tetrachloride							SS, SSS, GW,	
Chlordane (technical)	SS, SSS, GW,							
Chlordane, cis- (alpha chlordan	SS, SSS, GW,							
Chlordane, trans- (gamma chor	SS, SSS, GW,							
Chloride*	SS, SSS, GW,							

Table 10A: COC Screening Summary Table

ID No.

GLO Galveston - 2017 APAR Revision

Land Use for the purpose of PCL development: Residential

Groundwater Classification: Class 1

Date of Tier 1 Tables used for Assessment Levels: 03/31/2017

TRRP Commander v9.01 Lic. No. TCSC9010315138, AECOM (URS)

1	2	3	4	5	6	7	8	9
COC	350.71 (k)(1)	350.71 (k)(2)(A)	350.71 (k)(2)(B)	350.71 (k)(2)(C)	350.71 (k)(2)(D)	350.71 (k)(2)(E)	350.71 (k)(3)	350.71 (k)(4)
Chloro-3-methylphenol, 4-	SS, SSS, GW,							
Chloroaniline, p-	SS, SSS, GW,							
Chlorobenzene							SS, SSS, GW,	
Chlorobromomethane (bromoc	SS, SSS, GW,							
Chloroethane (ethyl chloride)							SS, SSS, GW,	
Chloroform							SS, SSS, GW,	
Chlorohexane, 1-							SS, SSS, GW,	
Chloromethane (methyl chloride	SS, SSS, GW,							
Chloronaphthalene, 2- (chloron	SS, SSS, GW,							
Chlorophenol, 2-	SS, SSS, GW,							
Chlorophenyl phenylether, 4-							SS, SSS, GW,	
Chlorotoluene, o- (2-chlorotolue							SS, SSS, GW,	
Chlorotoluene, p- (4-chlorotolue	SS, SSS, GW,							
Chromium (total)	SS, SSS, GW,							
Chrysene	SS, SSS, GW,							
Cobalt	SS, SSS, GW,							
Copper	SS, SSS, GW,							
Cresol, m- (3-methylphenol)	SS, SSS, GW,							
Cresol, o- (2-methylphenol)	SS, SSS, GW,							
Cresol, p- (4-methylphenol)	SS, SSS, GW,							
Cumene (isopropylbenzene)	SS, SSS, GW,							
Cycloate	SS, SSS, GW,							
Cyclohexane	SS, SSS, GW,							
Cymene (isopropyltoluene)	SS, SSS, GW,							
DDD	SS, SSS, GW,							
DDE	SS, SSS, GW,							
DDT	SS, SSS, GW,							
Dibenz-a,h-anthracene							SSS, GW,	
Dibenzofuran	SS, SSS, GW,							
Dibromo-3-chloropropane, 1,2-							SS, SSS, GW,	
Dibromochloromethane (chloro	SS, SSS, GW,							
Dichlorobenzene, 1,2-							SS, SSS, GW,	
Dichlorobenzene, 1,3-							SS, SSS, GW,	
Dichlorobenzene, 1,4-							SS, SSS, GW,	
Dichlorobenzidine, 3,3-	SS, SSS, GW,							
Dichlorodifluoromethane							SS, SSS, GW,	
Dichloroethane, 1,1-							SS, SSS, GW,	
Dichloroethane, 1,2-							SS, SSS, GW,	
Dichloroethylene, 1,1-							SS, SSS, GW,	
Dichloroethylene, cis-1,2-	SS, SSS, GW,							
Dichloroethylene, trans-1,2	SS, SSS, GW,							
Dichlorophenol, 2,4-	SS, SSS, GW,							
Dichloropropane, 1,2-							SS, SSS, GW,	
Dichloropropane, 1,3-							SS, SSS, GW,	

Table 10A: COC Screening Summary Table

ID No.

GLO Galveston - 2017 APAR Revision

Land Use for the purpose of PCL development: Residential

Groundwater Classification: Class 1

Date of Tier 1 Tables used for Assessment Levels: 03/31/2017

TRRP Commander v9.01 Lic. No. TCSC9010315138, AECOM (URS)

1	2	3	4	5	6	7	8	9
COC	350.71 (k)(1)	350.71 (k)(2)(A)	350.71 (k)(2)(B)	350.71 (k)(2)(C)	350.71 (k)(2)(D)	350.71 (k)(2)(E)	350.71 (k)(3)	350.71 (k)(4)
Dichloropropane, 2,2-							SS, SSS, GW,	
Dichloropropene, 1,1-							SS, SSS, GW,	
Dichloropropene, cis 1,3-							SS, SSS, GW,	
Dichloropropene, trans 1,3-							SS, SSS, GW,	
Dieldrin							SS, SSS, GW,	
Diethyl phthalate	SS, SSS, GW,							
Dimethyl phenol, 2,4-	SS, SSS, GW,							
Dimethylphthalate	SS, SSS, GW,							
Di-n-butyl phthalate	SS, SSS, GW,							
Dinitro-2-methylphenol, 4,6- (di	SS, SSS, GW,							
Dinitrophenol, 2,4-	SS, SSS, GW,							
Dinitrotoluene, 2,4-	SS, SSS, GW,							
Dinitrotoluene, 2,6-	SS, SSS, GW,							
Di-n-octyl phthalate	SS, SSS, GW,							
Dioxin (as 2,3,7,8-TCDD toxicity	SS, SSS, GW,							
Endosulfan	SS, SSS, GW,							
Endosulfan I							SS, SSS, GW,	
Endosulfan II							SS, SSS, GW,	
Endosulfan sulfate	SS, SSS, GW,							
Endrin	SS, SSS, GW,							
Endrin aldehyde	SS, SSS, GW,							
Endrin ketone	SS, SSS, GW,							
Ethyl benzene	SS, SSS, GW,							
Ethyl dipropylthiocarbamate, S-	SS, SSS, GW,							
Ethylene*	SS, SSS, GW,							
Ethylene dibromide (dibromoeth							SS, SSS, GW,	
Fluoranthene	SS, SSS, GW,							
Fluorene	SS, SSS, GW,							
Heptachlor	SS, SSS, GW,							
Heptachlor epoxide	SS, SSS, GW,							
Hexachlorobenzene	SS, SSS, GW,							
Hexachlorobutadiene							SS, SSS, GW,	
Hexachlorocyclohexane, alpha (	SS, SSS, GW,							
Hexachlorocyclohexane, beta (	SS, SSS, GW,							
Hexachlorocyclohexane, delta (	SS, SSS, GW,							
Hexachlorocyclohexane, gamm	SS, SSS, GW,							
Hexachlorocyclopentadiene							SS, SSS, GW,	
Hexachloroethane							SS, SSS, GW,	
Hexanone, 2-							SS, SSS, GW,	
Indeno-1,2,3-cd-pyrene	SS, SSS, GW,							
Iron*	SS, SSS, GW,							
Isophorone	SS, SSS, GW,							
Lead (inorganic)							SSS,	
Manganese	SS, SSS, GW,							

Table 10A: COC Screening Summary Table

ID No.

GLO Galveston - 2017 APAR Revision

Land Use for the purpose of PCL development: Residential

Groundwater Classification: Class 1

Date of Tier 1 Tables used for Assessment Levels: 03/31/2017

TRRP Commander v9.01 Lic. No. TCSC9010315138, AECOM (URS)

1	2	3	4	5	6	7	8	9
COC	350.71 (k)(1)	350.71 (k)(2)(A)	350.71 (k)(2)(B)	350.71 (k)(2)(C)	350.71 (k)(2)(D)	350.71 (k)(2)(E)	350.71 (k)(3)	350.71 (k)(4)
Methoxychlor							SS, SSS, GW,	
Methyl acetate (acetic acid, met	SS, SSS, GW,							
Methyl cyclohexane	SS, SSS, GW,							
Methyl ethyl ketone (2-butanone	SS, SSS, GW,							
Methyl isobutyl ketone (4-methy							SS, SSS, GW,	
Methylene bromide (dibromome							SS, SSS, GW,	
Methylene chloride (dichloromet							SS, SSS, GW,	
Methylnaphthalene, 2-	SS, SSS, GW,							
Molinate	SS, SSS, GW,							
MTBE (methyl tert-butyl ether)							SS, SSS, GW,	
Naphthalene	SS, SSS, GW,							
Nickel and compounds	SS, SSS, GW,							
Nitrite	SS, SSS, GW,							
Nitroaniline, 2-							SS, SSS, GW,	
Nitroaniline, 3-							SS, SSS, GW,	
Nitroaniline, 4-							SS, SSS, GW,	
Nitrobenzene							SS, SSS, GW,	
Nitrophenol, 2-	SS, SSS, GW,							
Nitrophenol, 4-	SS, SSS, GW,							
Nitrosodi-n-propylamine, n-	SS, SSS, GW,							
Nitrosodiphenylamine	SS, SSS, GW,							
Pebulate	SS, SSS, GW,							
Pentachlorophenol	SS, SSS, GW,							
Phenanthrene	SS, SSS, GW,							
Phenol							SS, SSS, GW,	
Polychlorinated biphenyls (PCB							SSS, GW,	
Propylbenzene, n-	SS, SSS, GW,							
Pyrene	SS, SSS, GW,							
Selenium	SS, SSS, GW,							
Silver	SS, SSS, GW,							
Styrene							SS, SSS, GW,	
Sulfate*	SS, SSS, GW,							
Tetrachloroethane, 1,1,1,2-							SS, SSS, GW,	
Tetrachloroethane, 1,1,2,2-	SS, SSS, GW,							
Tetrachloroethylene							SS, SSS, GW,	
Toluene	SS, SSS, GW,							
Toxaphene							SS, SSS, GW,	
TPH, TX1005, C6-C12							GW,	
TPH, TX1005, >C12-C28							GW,	
TPH, TX1005, >C28-C35	SS, SSS, GW,							
Trichloro-1,2,2-trifluoroethane,							SS, SSS, GW,	
Trichlorobenzene, 1,2,3-							SS, SSS, GW,	
Trichlorobenzene, 1,2,4-							SS, SSS, GW,	
Trichloroethane, 1,1,1-							SS, SSS, GW,	

Table 10A: COC Screening Summary Table

ID No.

GLO Galveston - 2017 APAR Revision

Land Use for the purpose of PCL development: Residential

Groundwater Classification: Class 1

Date of Tier 1 Tables used for Assessment Levels: 03/31/2017

TRRP Commander v9.01 Lic. No. TCSC9010315138, AECOM (URS)

1	2	3	4	5	6	7	8	9
COC	350.71 (k)(1)	350.71 (k)(2)(A)	350.71 (k)(2)(B)	350.71 (k)(2)(C)	350.71 (k)(2)(D)	350.71 (k)(2)(E)	350.71 (k)(3)	350.71 (k)(4)
Trichloroethane, 1,1,2-							SS, SSS, GW,	
Trichloroethylene							SS, SSS, GW,	
Trichlorofluoromethane	SS, SSS, GW,							
Trichlorophenol, 2,4,5-	SS, SSS, GW,							
Trichlorophenol, 2,4,6-							SS, SSS, GW,	
Trichloropropane, 1,2,3-							SS, SSS, GW,	
Trimethylbenzene, 1,2,4-	SS, SSS, GW,							
Trimethylbenzene, 1,3,5-	SS, SSS, GW,							
Vanadium	SS, SSS, GW,							
Vernam	SS, SSS, GW,							
Vinyl chloride	SS, SSS, GW,							
Xylene, o-	SS, SSS, GW,							
Xylene, p-							SS, SSS, GW,	
Xylenes	SS, SSS, GW,							
Zinc	SS, SSS, GW,							

SECTION 11

SOIL CRITICAL PCL DEVELOPMENT

Section 11 Soil Critical PCL Development

Section 11.1 Tier 2 or 3 PCL Development and Non-Default Parameters

Not applicable. Development of Tier 2 or Tier 3 PCLs was not necessary.

Section 11.2 Soil PCL Adjustments

Not applicable. No adjustments to the soil PCLs were required.

Section 11.3 Soil Critical PCLs

Critical PCLs for surface soil are from Table 1 – Tier 1 Residential Soil PCLs for a 30-acre source area for off-site residential properties, and from Table 2 – Tier 1 C/I PCLs for a 30-acre source area for the on-site and off-site C/I properties, revised March 2017, which were accessed at http://www.tceq.state.tx.us/remediation/trrp/trrppcls.html. The approved MSD ordinance that includes the Site and affected property renders both the groundwater ingestion pathway, ${}^{GW}GW_{Ing}$, and the soil protection of groundwater ingestion pathway, ${}^{GW}SOIL_{Ing}$, incomplete. Therefore, the ${}^{Tot}Soil_{Comb}$ PCLs are retained as the cPCLs.

Table 11A identifies the surface soil cPCLs for residential land use (off-site only) and for C/I land use (both on-site and some off- site properties). Table 11B identifies the subsurface soil PCLs for commercial/industrial soil (on-site and City of Galveston off-site properties) for the limited data set that was not saturated at >5 ft bgs. Table 11B for off-site residential soil is not applicable, because no subsurface soil samples (>15 ft bgs) were collected.

Figures 11A-1, 11A-2, and 11A-3 show the surface soil cPCLE zones for C/I land use for PAHs, metals, and TPH, respectively (the corresponding surface soil cPCLE zones for residential use are shown in Figures 4A-1, 4A-4, and 4A-5). Figure 11B is not applicable, because the limited commercial/industrial samples collected > 5 ft bgs that were not saturated did not have any exceedances.

Off-Site Residential Surface Soil (0-15 ft bgs)

The residential ${}^{Tot}Soil_{Comb}$ PCLs were used to define the nature and extent of the affected soil for this APAR and will also be proposed as the cPCLs in the Response Action Plan (RAP) for residential properties located along Lennox Avenue to the east of the Site and the easement to bordering the site to the west.

For the off-site residential properties and easements, arsenic, benzo-a-pyrene, and lead exceeded their cPCLs. These exceedances will be addressed in a future remedy. No samples were collected deeper than 15 ft bgs, so residential subsurface soil is not applicable.

C/I ${}^{Tot}Soil_{Comb}$ PCLs are proposed for the on-site property (the Site) and for affected properties adjoining the Site to the north, south, and west, based on the current and expected future C/I land use in these areas.

Commercial/Industrial Surface Soil (0-5 ft bgs)

Arsenic, lead, mercury, and TPH exceeded their respective cPCLs in surface soil at the Site. The metals and TPH will be addressed with the on-site remedy, which will be an impermeable cap.

For the off-site City of Galveston properties, benzo-a-pyrene and lead exceeded their respective cPCLs in surface soil. Benzo(a)pyrene only exceeded its cPCL once at INC-SB16. This exceedance will be addressed in a future remedy.

Commercial/Industrial Subsurface Soil (>5 ft bgs)

Subsurface soil COCs carried forward through the screening but with values under the cPCL consist of benzo-a-pyrene, mercury, and TPH. No further action is warranted for these analytes for commercial/industrial subsurface soil.

Figure 11C shows two perpendicular geologic cross sections through the affected property/C/I PCLE zones (locations of these cross sections are shown on the inset). The approximate vertical extent of COCs detected above the C/I $^{Tot}Soil_{Comb}$ PCLs in the surface soil samples is also shown on the cross sections.

SECTION 11

TABLE 11A

SURFACE SOIL CRITICAL PCLS (ON-SITE/OFF-SITE)

Table 11A. Surface Soil Critical PCLs for On-Site and Off-Site Surface Soil with Human Health Pathways

ID No.

GLO Galveston INC

Land Use for the purpose of PCL development: Commercial/Industrial Groundwater

Classification: Class 1

Date of Tier 1 Tables used for Assessment Levels: 11/12/2014

TRRP Commander v9.01 Lic. No. TCSC9010315138, URS Corporation

Chemical of Concern	$^{Tot}SOIL_{Comb}$ PCL (mg/kg)	Tier	Source Area Size (acres)	$^{GW}SOIL$ PCL (mg/kg)	Tier	Source Area Size (T1-acres) (T2-feet)	Soil Sample MQL (mg/kg)	Back-ground Conc. (mg/kg)	Surface Soil Concentration Maximum (mg/kg)	Surface Soil Concentration Representative (mg/kg)	Remedy or NFA
Arsenic	2.0E+02	1	30.0	NA		30.0	1.0E+00	5.9E+00	2.3E+02		Remedy
Benz-a-anthracene	2.4E+01	1	30.0	NA		30.0	1.0E-02		6.0E+01		Remedy
Benzo-a-pyrene	2.4E+00	1	30.0	NA		30.0	1.0E-02		5.3E+01		Remedy
Benzo-b-fluoranthene	2.4E+01	1	30.0	NA		30.0	1.0E-02		4.9E+01		Remedy
Bis (2-ethyl-hexyl) phthalate	5.6E+02	1	30.0	NA		30.0	6.6E-02		8.4E+01		NFA
Cadmium	7.6E+02	1	30.0	NA		30.0	3.0E-01		6.8E+01		NFA
Dibenz-a,h-anthracene	2.4E+00	1	30.0	NA		30.0	1.0E-02		5.9E+00		Remedy
Indeno-1,2,3-cd-pyrene	2.4E+01	1	30.0	NA		30.0	1.0E-02		2.5E+01		Remedy
Lead (inorganic)	1.6E+03	1	30.0	NA		30.0	3.0E-01	1.5E+01	3.0E+04		Remedy
Mercury (pH = 4.9)	3.3E+00	1	30.0	NA		30.0	4.0E-02	4.0E-02	1.3E+01		Remedy

Note: The November 12, 2014 PCLs were used for residential screening and cPCL development (residential and commercial/industrial). No changes are necessary for residential screening or cPCL development based on the comparison to the updated December 2015 PCLs.

Table 11A.(cont.) Surface Soil Critical PCLs for Off-Site Surface Soil with Human Health Pathways

ID No.

GLO Galveston - 2017 APAR Revision

Land Use for the purpose of PCL development: Residential

Groundwater Classification: Class 1

Date of Tier 1 Tables used for Assessment Levels: 03/31/2017

TRRP Commander v9.01 Lic. No. TCSC9010315138, AECOM (URS)

Chemical of Concern	$^{Tot}SOIL_{Comb}$ PCL (mg/kg)	Tier	Source Area Size (acres)	$^{GW}SOIL$ PCL (mg/kg)	Tier	Source Area Size (T1-acres) (T2-feet)	Soil Sample MQL (mg/kg)	Back-ground Conc. (mg/kg)	Surface Soil Concentration Maximum (mg/kg)	Surface Soil Concentration Representative (mg/kg)	Remedy or NFA
Antimony	1.5E+01	1	30.0	NA		30.0	1.0E+00	1.0E+00	8.5E+00		NFA
Arsenic	2.4E+01	1	30.0	NA		30.0	1.0E+00	5.9E+00	6.5E+01		Remedy
Benz-a-anthracene	4.1E+01	1	30.0	NA		30.0	1.0E-02		1.5E+01		NFA
Benzo-a-pyrene	4.1E+00	1	30.0	NA		30.0	1.0E-02		1.5E+01		Remedy
Benzo-b-fluoranthene	4.1E+01	1	30.0	NA		30.0	1.0E-02		1.9E+01		NFA
Bis (2-ethyl-hexyl) phthalate	4.3E+01	1	30.0	NA		30.0	6.6E-02		8.8E-01		NFA
Cadmium	5.2E+01	1	30.0	NA		30.0	3.0E-01		1.2E+01		NFA
Dibenz-a,h-anthracene	4.0E+00	1	30.0	NA		30.0	1.0E-02		1.6E+00		NFA
Lead (inorganic)	5.0E+02	1	30.0	NA		30.0	3.0E-01	1.5E+01	2.4E+04		Remedy
Mercury (pH = 4.9)	2.1E+00	1	30.0	NA		30.0	4.0E-02	4.0E-02	1.2E+00		NFA
Polychlorinated biphenyls (PCBs)	1.1E+00	1	30.0	NA		30.0	5.0E-02				NFA
TPH, TX1005, C6-C12	1.1E+03	1	30.0	NA		30.0	2.0E+01				NFA
TPH, TX1005, >C12-C28	2.0E+03	1	30.0	NA		30.0	2.0E+01				NFA

SECTION 11

TABLE 11B

SUBSURFACE SOIL CRITICAL PCLS (ON-SITE/OFF-SITE)

Table 11B. Subsurface Soil Critical PCLs for On-Site Subsurface Soil

ID No.

GLO Galveston - 2017 APAR Revision

Land Use for the purpose of PCL development: Commercial/Industrial

Groundwater Classification: Class 1

Date of Tier 1 Tables used for Assessment Levels: 03/31/2017

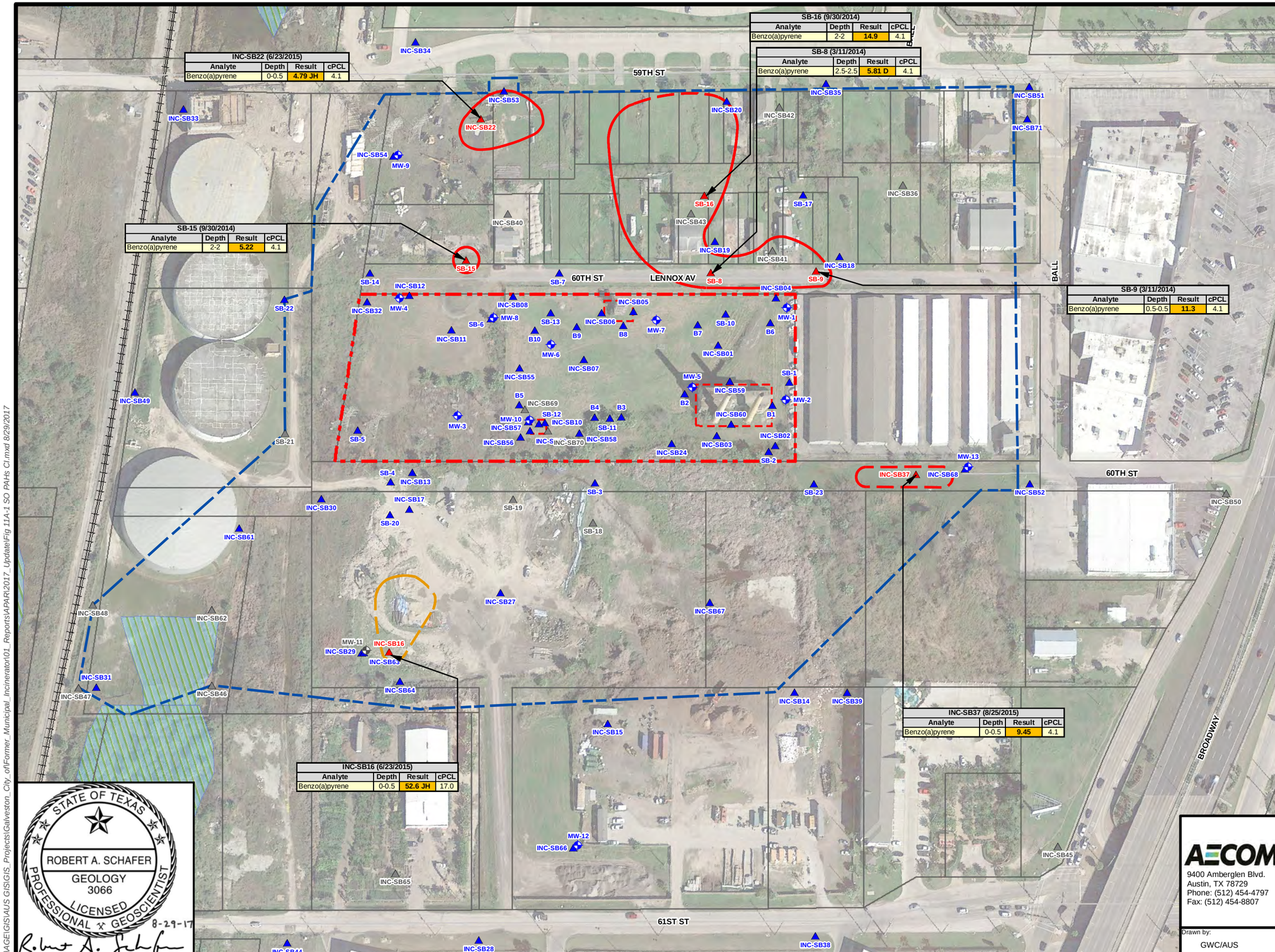
TRRP Commander v9.01 Lic. No. TCSC9010315138, AECOM (URS)

Chemical of Concern	$^{Air}SOIL_{Inh-V}$ PCL (mg/kg)	Tier	Source Area Size (acres)	$^{GW}SOIL$ PCL (mg/kg)	Tier	Source Area Size (T1-acres) (T2-feet)	Soil Sample MQL (mg/kg)	Back-ground Conc. (mg/kg)	Subsurface Soil Max Conc. (mg/kg)	Remedy or NFA
Benzo-a-pyrene	4.6E+01	1	30.0	NA		30.0	1.0E-02		3.4E-01	NFA
Mercury (pH = 4.9)	3.3E+00	1	30.0	NA		30.0	4.0E-02	4.0E-02	7.1E-02	NFA
TPH, TX1005, C6-C12	2.2E+03	1	30.0	NA		30.0	2.0E+01			NFA
TPH, TX1005, >C12-C28	1.1E+04	1	30.0	NA		30.0	2.0E+01			NFA

SECTION 11

FIGURE 11A

SUBSURFACE SOIL CRITICAL PCLS (ON-SITE/OFF-SITE)



INC-SB22 (6/23/2015)			
Analyte	Depth	Result	cPCL
Benzo(a)pyrene	0-0.5	4.79 JH	4.1

SB-16 (9/30/2014)			
Analyte	Depth	Result	cPCL
Benzo(a)pyrene	2-2	14.9	4.1

SB-8 (3/11/2014)			
Analyte	Depth	Result	cPCL
Benzo(a)pyrene	2.5-2.5	5.81 D	4.1

SB-15 (9/30/2014)			
Analyte	Depth	Result	cPCL
Benzo(a)pyrene	2-2	5.22	4.1

SB-9 (3/11/2014)			
Analyte	Depth	Result	cPCL
Benzo(a)pyrene	0.5-0.5	11.3	4.1

INC-SB37 (8/25/2015)			
Analyte	Depth	Result	cPCL
Benzo(a)pyrene	0-0.5	9.45	4.1

INC-SB16 (6/23/2015)			
Analyte	Depth	Result	cPCL
Benzo(a)pyrene	0-0.5	52.6 JH	17.0

Legend

- On-Site Property Boundary
- Affected Property Boundary (Tier I RAL)
- Real Estate Parcel
- Potential Source Area
- Wetland (USFWS, 2012)
- Railroad Track
- Commercial/Industrial $^{Tot}Soil_{Comb}$ PCLE Zone for PAHs (Dashed Where Inferred or Where Access Restrictions Prevented Further Step-Out Sampling)
- Residential $^{Tot}Soil_{Comb}$ PCLE Zone for PAHs (Dashed Where Inferred or Where Access Restrictions Prevented Further Step-Out Sampling)
- Monitoring Well Location (Results do not Exceed C/I cPCL)
- Monitoring Well Location (Sample Not Collected from this Location)
- Soil Sample Location (Results do not Exceed C/I cPCL)
- Soil Sample Location (One or More PAHs Exceed C/I cPCL)
- Soil Sample Location (Sample Not Collected for PAH Analysis from this Location)

RAL	Residential Assessment Level
C/I cPCL	Commercial/Industrial Critical Protective Concentration Level
D	Laboratory duplicate precision evaluation criteria not met.
J	Estimated.
H	Bias in sample result is likely to be high.

Notes:
1. *All depths are shown in feet below ground surface (ft bgs).*
2. *All concentrations are shown in milligrams per kilogram (mg/kg).*

150 75 0 150
Feet

STATE OF TEXAS
ROBERT A. SCHAFER
GEOLOGY
3066
LICENSED
PROFESSIONAL GEOSCIENTIST
8-29-17

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

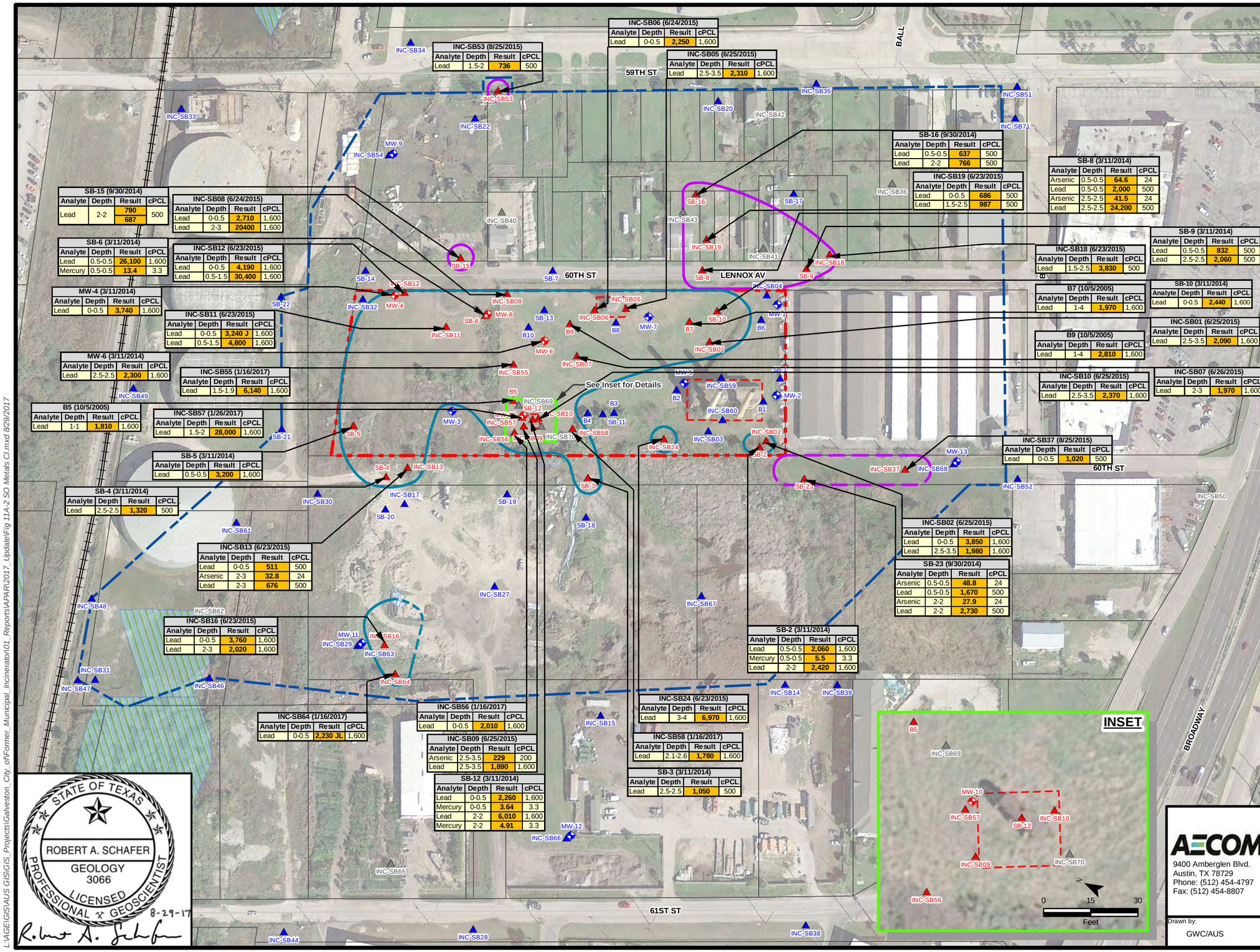
Client: City of Galveston

Report: Affected Property Assessment Report

Title: **Surface Soil COC Concentration Map PAHs**

Drawn by:	Date:	GIS File:	Figure:
GWC/AUS	8/29/2017	Fig 11A-1 SO PAHs CI	11A-1

L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Fig 11A-1 SO PAHs CI.mxd 8/29/2017



Legend

- On-Site Property Boundary
- Affected Property Boundary (Tier I RAL)
- Real Estate Parcel
- Potential Source Area
- Wetland (USFWS, 2012)
- Commercial/Industrial $^{Tot}Soil_{Comb}$ PCLE Zone for Metals (Dashed Where Inferred)
- Residential $^{Tot}Soil_{Comb}$ PCLE Zone for Metals (Dashed Where Inferred)
- Railroad Track
- Monitoring Well Location (Results do not Exceed C/I cPCL)
- Monitoring Well Location (One or More Metals Exceed C/I cPCL)
- Soil Sample Location (Results do not Exceed C/I or RES cPCL)
- Soil Boring Location (One or More Metals Exceed C/I or RES cPCL)
- Soil Sample Location (Sample Not Collected for Metals Analysis from this Location)

C/I cPCL — Commercial/Industrial Critical Protective Concentration Level

RAL — Residential Assessment Level

RES cPCL — Residential Critical Protection Level

J — Estimated.

L — Bias in sample result is likely to be low.

Notes:
1. *All depths are shown in feet below ground surface (ft bgs).*
2. *All concentrations are shown in milligrams per kilogram (mg/kg).*

150 75 0 150
Feet

STATE OF TEXAS
ROBERT A. SCHAFER
GEOLOGY
3066
LICENSED
PROFESSIONAL GEOSCIENTIST
8-29-17

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

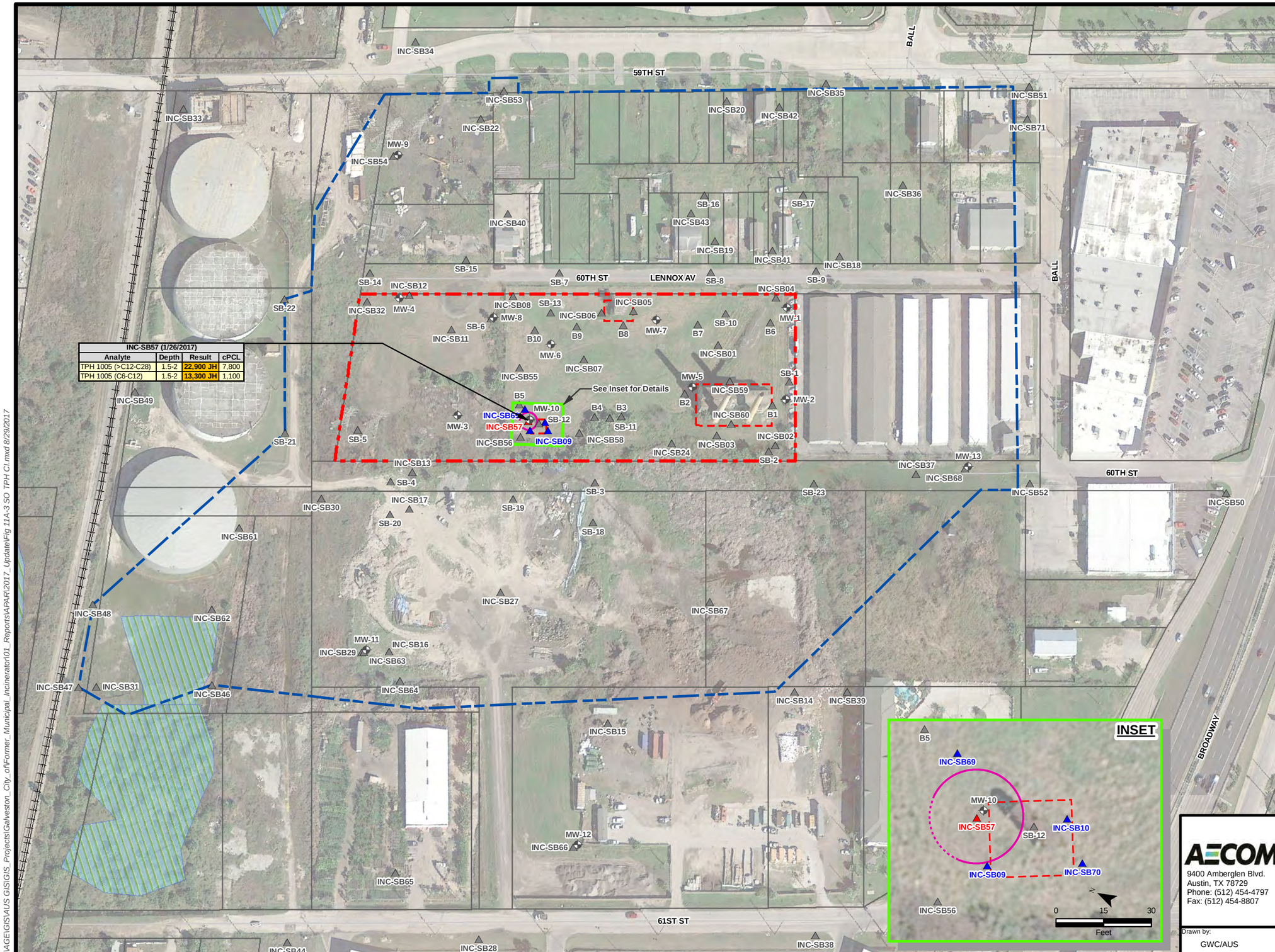
Client: City of Galveston

Report: Affected Property Assessment Report

Title: **Surface Soil COC Concentration Map Metals**

Drawn by:	Date:	GIS File:	Figure:
GWC/AUS	8/29/2017	Fig 11A-2 SO Metals CI	11A-2

L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Fig 11A-2 SO Metals CI.mxd 8/29/2017



Legend

- On-Site Property Boundary
- Affected Property Boundary (Tier I RAL)
- Real Estate Parcel
- Potential Source Area
- Wetland (USFWS, 2012)
- Railroad Track
- Commercial/Industrial PCLE Zone for TPH (Dashed Where Approximate)
- Monitoring Well Location (Sample Not Collected from this Location)
- Soil Sample Location (Results do not Exceed C/I cPCL)
- Soil Sample Location (One or More Results Exceed C/I cPCL)
- Soil Sample Location (Sample Not Collected for TPH Analysis from this Location)
- C/I cPCL — Commercial/Industrial Critical Protective Concentration Level
- J — Estimated.
- H — Bias in sample result is likely to be high.
- RAL — Residential Assessment Level

Notes:
1. *All depths are shown in feet below ground surface (ft bgs).*
2. *All concentrations are shown in milligrams per kilogram (mg/kg).*

STATE OF TEXAS
ROBERT A. SCHAFER
GEOLOGY
3066
LICENSED
PROFESSIONAL GEOSCIENTIST
8-29-17

150 75 0 150
Feet

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

Client: City of Galveston

Report: Affected Property Assessment Report

Title: **Surface Soil COC Concentration Map (Total Petroleum Hydrocarbons)**

Drawn by:	Date:	GIS File:	Figure:
GWC/AUS	8/29/2017	Fig 11A-3 SO TPH CI	11A-3

L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Fig 11A-3 SO TPH CI.mxd 8/29/2017

SECTION 11

FIGURE 11B

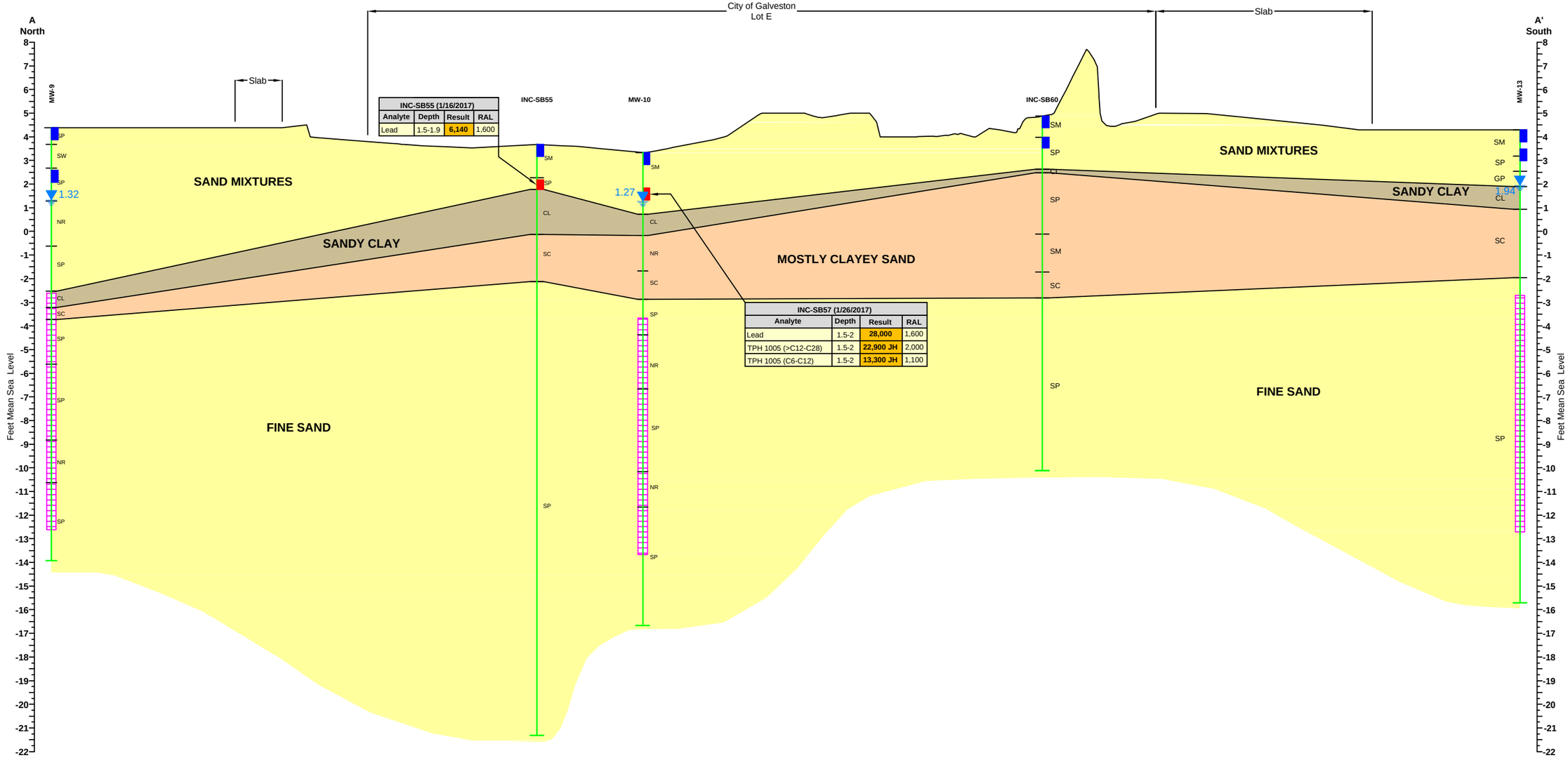
SUBSURFACE SOIL PCLE ZONE MAPS

[This figure is not applicable.]

SECTION 11

FIGURE 11C

CROSS SECTIONS OF THE PCLE ZONE



INC-SB55 (1/16/2017)			
Analyte	Depth	Result	RAL
Lead	1.5-1.9	6,140	1,600

INC-SB57 (1/26/2017)			
Analyte	Depth	Result	RAL
Lead	1.5-2	28,000	1,600
TPH 1005 (>C12-C28)	1.5-2	22,900 JH	2,000
TPH 1005 (C6-C12)	1.5-2	13,300 JH	1,100

Legend

CL	Organic Clays with Medium to High Plasticity; Organic Silts
CH	Inorganic Clays with Low to Medium Plasticity; Gravelly Clays; Sandy Clays; Silty Clays; Lean Clays
NR	No Recovery
SC	Clayey Sands
SM	Silty Sands; Sand-Silt Mixtures
SP	Poorly Graded Sands; Gravelly Sands with Little or No Fines
SW	Well Graded Sands; Gravelly Sands with Little or No Fines

1.27 Groundwater Elevation (ft msl) (April 2017)

Vertical Extent of COCs (PAHs and/or Metals) > Residential $^{Tot}Soil_{Comb}$ PCL

Well Screen Interval

Sample Location Exceeding RAL

Sample Location not Exceeding RAL

STATE OF TEXAS
ROBERT A. SCHAFER
GEOLOGY
3066
LICENSED
PROFESSIONAL GEOSCIENTIST
8-29-17

45 0 90
Horizontal Scale in Feet
Vertical Exaggeration = 20X

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

Client: City of Galveston

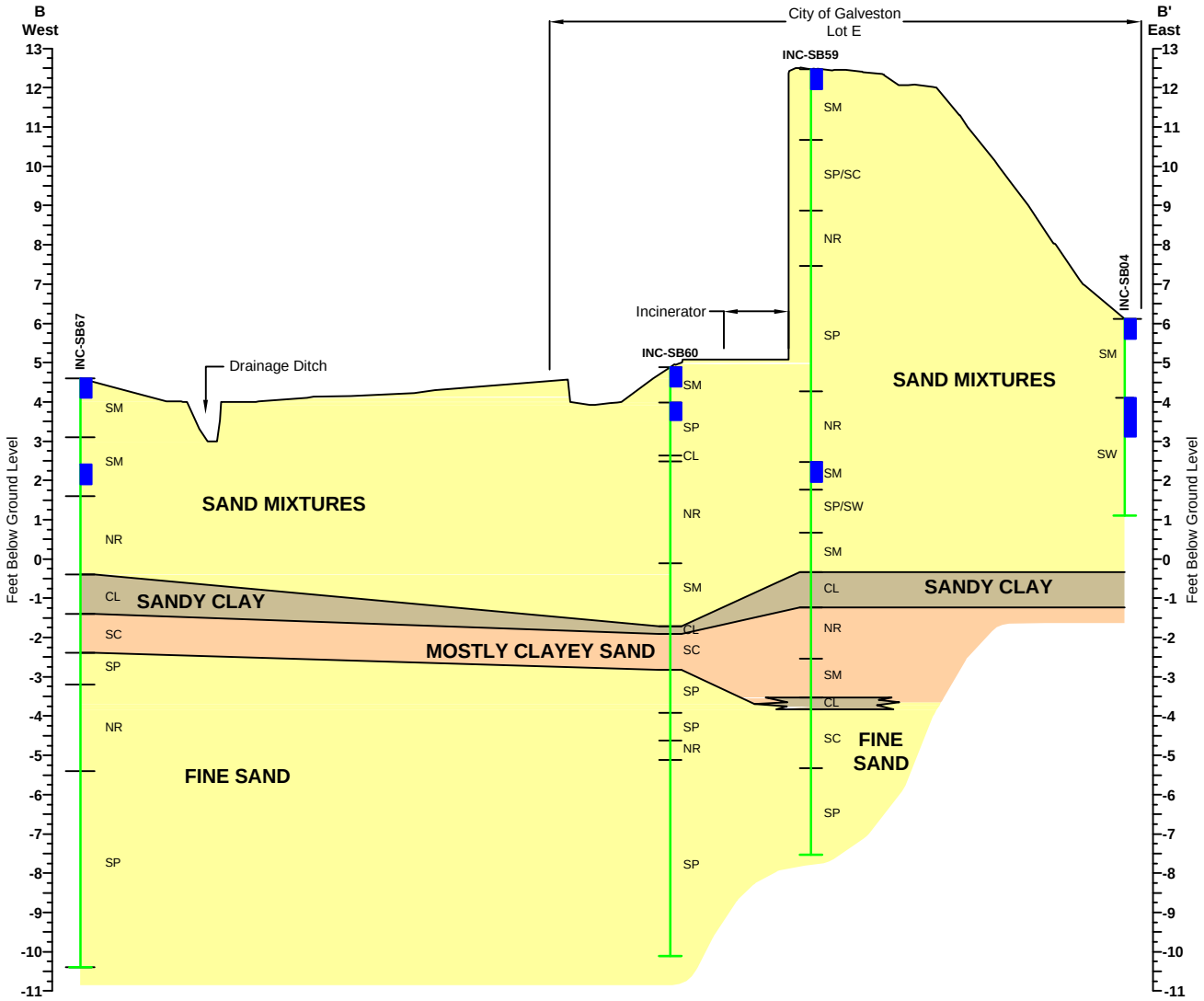
Report: Affected Property Assessment Report

Title: **Site Geologic Cross-Section A-A'**

Drawn by:	Date:	Drawing File:	Figure:
gary.callahan	Aug 29, 2017	Xsects2017Update.dwg	11C-1

File: L:\AGE\GIS\AUS_GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Xsects2017Update.dwg Layout: Fig 11C-1 Plotted: Aug 29, 2017 – 2:06pm

File: L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Xsects2017Update.dwg Layout: Fig 11C-2 Plotted: Aug 29, 2017 – 2:07pm



Legend

CL	Organic Clays with Medium to High Plasticity; Organic Silts
CH	Inorganic Clays with Low to Medium Plasticity; Gravelly Clays; Sandy Clays; Silty Clays; Lean Clays
NR	No Recovery
SC	Clayey Sands
SM	Silty Sands; Sand-Silt Mixtures
SP	Poorly Graded Sands; Gravelly Sands with Little or No Fines
SW	Well Graded Sands; Gravelly Sands with Little or No Fines
	Vertical Extent of COCs (PAHs and/or Metals) > Residential $^{Tot}Soil_{Comb}$ PCL
	Well Screen Interval
	Sample Location Exceeding RAL
	Sample Location not Exceeding RAL

STATE OF TEXAS
ROBERT A. SCHAFER
GEOLOGY
3066
LICENSED
PROFESSIONAL GEOSCIENTIST

8-29-17

45 0 90

Horizontal Scale in Feet
Vertical Exaggeration = 20X

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 454-8807

Client: City of Galveston

Report: Affected Property Assessment Report

Title: **Site Geologic Cross-Section B-B'**

Drawn by:

Date: Aug 29, 2017

Figure: 11C-2

SECTION 12

GROUNDWATER CRITICAL PCL DEVELOPMENT

[This section is not applicable.]

SECTION 13

NOTIFICATIONS

Section 13 Notifications

Section 13.1 Notification of Actual or Probable Exposure

The affected property associated with the Site covers an area of 27.73 acres and includes mainly C/I properties, but also some residential properties along the east side of Lennox Avenue. Soil samples collected to support the APAR were analyzed for COCs associated with the Site (PAHs and metals) and COC concentrations detected in some of the samples, from both residential and C/I properties, exceed the cPCL, i.e., ^{Tot}Soil $_{Comb}$PCLs for residential and C/I land use, respectively. Therefore, landowners within the affected property boundary were notified of actual or probable exposure to the COCs in affected surface soil concurrently with the issuance of the APAR that was previously submitted to the TCEQ on January 14, 2016.

A copy of the notification letter is provided in Appendix 1. Table 13A identifies the property owners who received a notification letter and Figure 13A shows the locations of the properties that received the notifications. Owners of multiple properties located within the C/I cPCLE zones for PAHs and/or metals will receive a single letter that identifies all of their properties where there may be actual or probable exposure to COCs in surface soil.

Section 13.2 Other Notifications

No other notifications required under 30 TAC §350.55 are applicable.

SECTION 13

TABLE 13A

NOTIFICATION SUMMARY

Table 13A. Notification Summary

Property ID	Property owner name	Physical property address, city, zip	Property owner mailing address, city, state, zip	Property owner phone no.	Contact name, mailing address, city, state, zip (if different from owner)	Reason for notification
R121065	AGUILLON, FEDERICO	N/A	P O BOX 755 HITCHCOCK, TX 77563-0755	N/A	N/A	Actual or probable exposure
R121064	AGUILLON, FEDERICO	N/A	P O BOX 755 HITCHCOCK, TX 77563-0755	N/A	N/A	Actual or probable exposure
R121057	ARMSTEAD, HARRIET	N/A	614 LENNOX AVE GALVESTON, TX 77551-4143	N/A	N/A	Actual or probable exposure
R298299	BROWN, DAVID JEROME	N/A	1015 11TH ST GALVESTON, TX 77550	N/A	N/A	Actual or probable exposure
R114132	CITY-GALVESTON	N/A	PO BOX 779	N/A	N/A	Actual or probable exposure
R114145	CITY-GALVESTON	N/A	PO BOX 779 GALVESTON, TX 77553-0779	N/A	N/A	Actual or probable exposure
R114741	CITY-GALVESTON	N/A	PO BOX 779 GALVESTON, TX 77553-0779	N/A	N/A	Actual or probable exposure
R114188	CITY-GALVESTON	N/A	PO BOX 779 GALVESTON, TX 77553-0779	N/A	N/A	Actual or probable exposure
R293608	CITY-GALVESTON	N/A	PO BOX 779 GALVESTON, TX 77553-0779	N/A	N/A	Actual or probable exposure
R114203	CITY-GALVESTON	N/A	PO BOX 779 GALVESTON, TX 77553-0779	N/A	N/A	Actual or probable exposure
R293607	CITY-GALVESTON	N/A	PO BOX 779 GALVESTON, TX 77553-0779	N/A	N/A	Actual or probable exposure
R114184	CITY-GALVESTON	N/A	PO BOX 779 GALVESTON, TX 77553-0779	N/A	N/A	Actual or probable exposure

Property ID	Property owner name	Physical property address, city, zip	Property owner mailing address, city, state, zip	Property owner phone no.	Contact name, mailing address, city, state, zip (if different from owner)	Reason for notification
R121055	EVANS, JOHN D	N/A	618 60TH ST GALVESTON, TX 77551-4143	N/A	N/A	Actual or probable exposure
R114185	HOUSTON CHRISTIAN BROADCASTERS INC.	N/A	2424 SOUTH BLVD HOUSTON, TX 77098-5110	N/A	N/A	Actual or probable exposure
R121062	JIMENEZ, ARMANDO	N/A	3017 PINE GALVESTON, TX 77551	N/A	N/A	Actual or probable exposure
R121075	MACLEAN, KATHY M	N/A	5701 MACO GALVESTON, TX 77551	N/A	N/A	Actual or probable exposure
R121074	MACLEAN, KATHY M	N/A	5701 MACO GALVESTON, TX 77551	N/A	N/A	Actual or probable exposure
R121054	MOORE--WILSON, SODONIA M	N/A	101 DALEWOOD WAY SAN FRANCISCO, CA 94127-1606	N/A	N/A	Actual or probable exposure
R121078	NELSON, TAD A	N/A	820 E MAIN ST LEAGUE CITY, TX 77573	N/A	N/A	Actual or probable exposure
R121077	NELSON, TAD A	N/A	820 E MAIN ST LEAGUE CITY, TX 77573	N/A	N/A	Actual or probable exposure
R121076	NELSON, TAD A	N/A	820 E MAIN ST LEAGUE CITY, TX 77573	N/A	N/A	Actual or probable exposure
R121067	RODRIGUEZ, JUAN	N/A	5415 AVE Q ½ GALVESTON, TX 77551	N/A	N/A	Actual or probable exposure
R294398	SOUTHERN PACIFIC CO PROPERTY TAX DEPT	N/A	1700 FARNAM ST OMAHA, NE 68102-2002	N/A	N/A	Actual or probable exposure
R294399	SOUTHERN PACIFIC CO PROPERTY TAX DEPT	N/A	1700 FARNAM ST OMAHA, NE 68102-2002	N/A	N/A	Actual or probable exposure

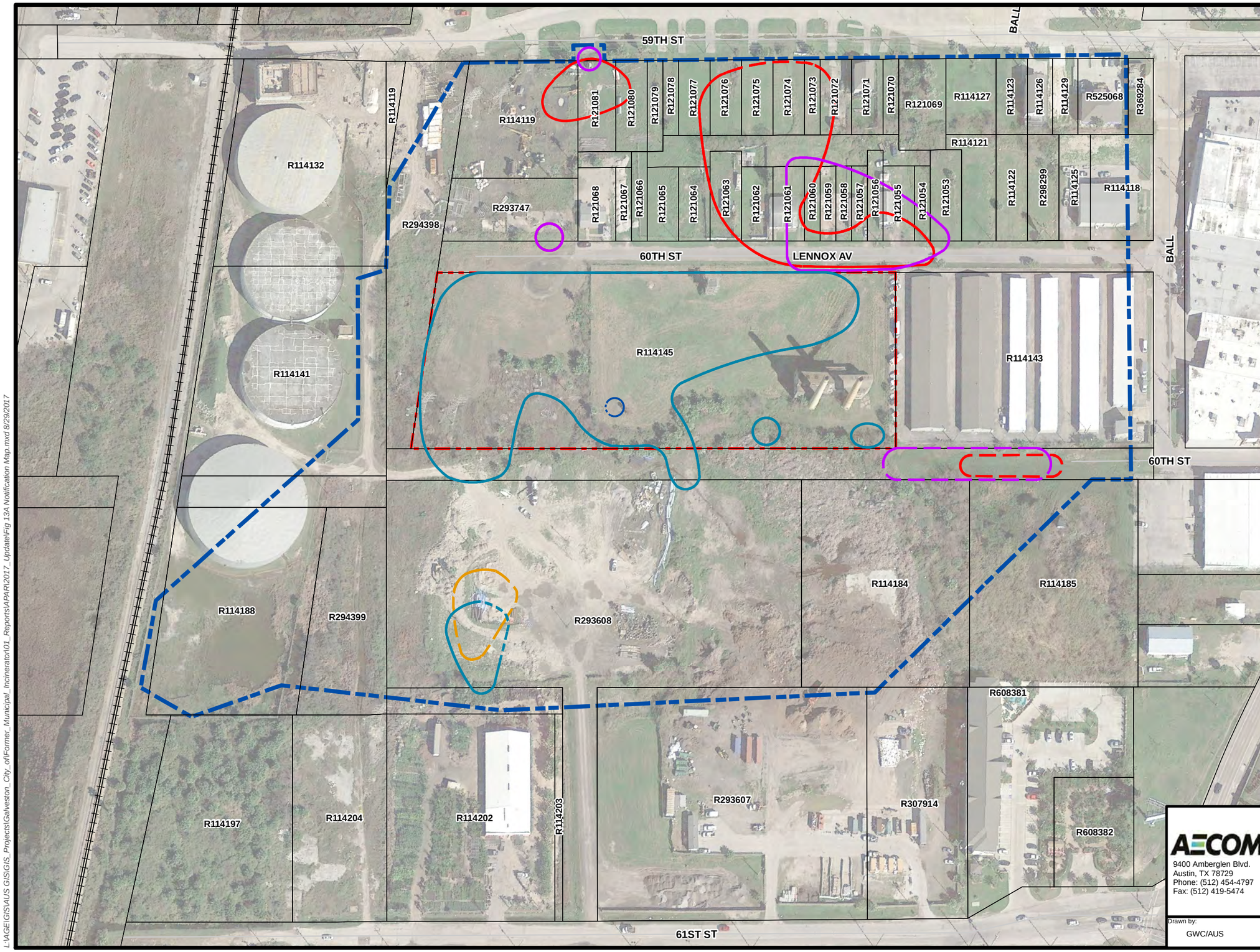
Property ID	Property owner name	Physical property address, city, zip	Property owner mailing address, city, state, zip	Property owner phone no.	Contact name, mailing address, city, state, zip (if different from owner)	Reason for notification
R114121	TROST, JOHN F	N/A	1403 BROADWAY ST GALVESTON, TX 77550-4937	N/A	N/A	Actual or probable exposure
R114143	W & T PROP LTD	N/A	4015 BELT LINE RD STE 300 ADDISON, TX 75001-4327	N/A	N/A	Actual or probable exposure
R121061	WILLIAMS, WILBERT, Jr	N/A	5014 BROCKLEIGH LA MARQUE, TX 77568-3001	N/A	N/A	Actual or probable exposure
R121060	WILLIAMS, WILBERT, Jr	N/A	5014 BROCKLEIGH ST LA MARQUE, TX 77568-3001	N/A	N/A	Actual or probable exposure
R121059	WILLIAMS, WILBERT, Jr	N/A	5014 BROCKLEIGH ST LA MARQUE, TX 77568-3001	N/A	N/A	Actual or probable exposure
R121058	WILLIAMS, WILBERT, Jr	N/A	5014 BROCKLEIGH ST LA MARQUE, TX 77568-3001	N/A	N/A	Actual or probable exposure
R114122	WILLIAMS, WILBERT, Jr	N/A	5014 BROCKLEIGH ST LA MARQUE, TX 77568-3001	N/A	N/A	Actual or probable exposure
R121068	WOODS, TARRIS	N/A	3112 WINNIE ST GALVESTON, TX 77550-1322	N/A	N/A	Actual or probable exposure
R121053	WOODS, TARRIS L	N/A	3112 WINNIE ST GALVESTON, TX 77550-1322	N/A	N/A	Actual or probable exposure
R114119	YARBROUGH, JAMES D	N/A	PO BOX 3182 GALVESTON, TX 77552-0182	N/A	N/A	Actual or probable exposure
R293747	YARBROUGH, JAMES D	N/A	PO BOX 3182 GALVESTON, TX 77552-0182	N/A	N/A	Actual or probable exposure
R121081	YARBROUGH, JAMES D	N/A	PO BOX 3182 GALVESTON, TX 77552-0182	N/A	N/A	Actual or probable exposure

Property ID	Property owner name	Physical property address, city, zip	Property owner mailing address, city, state, zip	Property owner phone no.	Contact name, mailing address, city, state, zip (if different from owner)	Reason for notification
R121080	YARBROUGH, JAMES D	N/A	PO BOX 3182 GALVESTON, TX 77552-0182	N/A	N/A	Actual or probable exposure
R121079	YARBROUGH, JAMES D	N/A	PO BOX 3182 GALVESTON, TX 77552-0182	N/A	N/A	Actual or probable exposure
R121066	YARBROUGH, JAMES D	N/A	PO BOX 3182 GALVESTON, TX 77552-0182	N/A	N/A	Actual or probable exposure
R121063	YARBROUGH, JAMES D	N/A	PO BOX 3182 GALVESTON, TX 77552-0182	N/A	N/A	Actual or probable exposure
R121056	YARBROUGH, JAMES D	N/A	PO BOX 3182 GALVESTON, TX 77552-0182	N/A	N/A	Actual or probable exposure

SECTION 13

FIGURE 13A

NOTIFICATION MAP



Legend

- On-Site Property Boundary
- Affected Property Boundary (Tier I RAL)
- Real Estate Parcel and Parcel Number (Table 13A)
- Railroad Track
- Commercial/Industrial $^{Tot}Soil_{Comb}$ PCLE Zone for Metals (Dashed Where Inferred)
- Residential $^{Tot}Soil_{Comb}$ PCLE Zone for Metals (Dashed Where Inferred)
- Commercial/Industrial $^{Tot}Soil_{Comb}$ PCLE Zone for PAHs (Dashed Where Inferred or Where Access Restrictions Prevented Further Step-Out Sampling)
- Residential $^{Tot}Soil_{Comb}$ PCLE Zone for PAHs (Dashed Where Inferred or Where Access Restrictions Prevented Further Step-Out Sampling)
- Commercial/Industrial $^{Tot}Soil_{Comb}$ PCLE Zone for TPH (Dashed Where Approximate)
- RAL Residential Assessment Level

STATE OF TEXAS
ROBERT A. SCHAFER
GEOLOGY
3066
LICENSED
PROFESSIONAL GEOSCIENTIST
8-29-17

150 75 0 150
Feet

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 419-5474

Client: City of Galveston

Report: Affected Property Assessment Report

Title: **Notification Map**

Drawn by:	Date:	GIS File:	Figure:
GWC/AUS	8/29/2017	Fig 13A Notification Map	13 A

L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\2017_Update\Fig 13A Notification Map.mxd 8/29/2017

APPENDIX 1

NOTIFICATIONS

Appendix 1 Notifications

The attached draft Notification Letter was completed and mailed to the recipients identified in Table 13A concurrently with CoG acceptance of the APAR and submittal of the APAR to TCEQ for review. As required by 30 TAC §350.55, the statement below provides a signed and notarized affidavit.

In accordance with 30 TAC §350.55, the property owners listed in Table 13A of this document have been provided with notification of actual or probable exposure to COCs on the affected property.

Signature

Patrick Kainer
(Typed/Printed Name)

Regulatory Specialist
(Title)

January 14, 2016
(Date)

State of Texas
County of Travis

Before me, a notary public, on this day January 14, 2016 personally appeared Patrick Kainer, known to me to be the person whose name is subscribed to the foregoing document and, being by me first duly sworn, declared that the statements therein contained are true and correct.

Shannon Diane Campbell
Notary Public's Signature

NOTARY PUBLIC STATE OF TEXAS
SHANNON DIANE CAMPBELL
My Commission Expires
March 13, 2016

CITY LETTERHEAD

Date:

Name/Address:

Re: Demolition and Remediation, Old Municipal Incinerator

Dear Galveston Resident/Property Owner:

The purpose of this letter is two-fold: 1) To provide an update on the City's plans regarding demolition and cleanup of the old municipal incinerator; and 2) To provide technical information and environmental data concerning this project as required by the Texas Commission on Environmental Quality (TCEQ). You have received this letter because you are listed as the owner of property that is potentially affected by this project.

1) Update on City Plans Concerning the Old Municipal Incinerator

As you may be aware, the City of Galveston is moving forward with plans to demolish the old municipal incinerator located at #3 Lennox Avenue, and begin cleanup of contaminated soils in the area. Grant funds related to Hurricane Ike disaster recovery are making this much-needed project possible.

The incinerator, located just east of the City's recycling center, operated for a brief period in the 1950s but experienced mechanical problems and was expensive to maintain. City leaders at the time decided it would be more cost-effective to transfer waste to a landfill than to continue utilizing the facility, so it was shut down. However, no funding has been available to remove the dilapidated structure and conduct soil cleanup until recently.

Records indicate that the ash generated by the incinerator was spread across City property during the brief years of operation. Several environmental studies instituted by the City since the closure indicate that levels of certain contaminants have been found that raise concerns. For this reason, the City joined the Texas Commission on Environmental Quality's Voluntary Cleanup Program and is working closely with state agencies to develop a plan to both demolish the old incinerator and properly clean up the surrounding properties.

This cleanup may include some soil removal, capping with concrete, or other activities discussed in two important documents: The "Affected Property Assessment Report" (APAR) and the "Response Action Plan" (RAP). Both the APAR (an assessment of the incinerator site and surrounding properties, including soil sampling) and the RAP (the actual cleanup plan) require public hearings and TCEQ approval before the City can proceed. You will be notified by mail when public hearings are scheduled.

The APAR must be finalized and approved by TCEQ before the RAP. Toward that end, the City's environmental engineering firm, AECOM, has completed sampling of the incinerator site and surrounding properties, and is finalizing the draft APAR.

Your receipt of this letter is the first step in the APAR notification process required by TCEQ.

Below, under No. 2, is the technical information we are required by TCEQ to provide as we move forward with this important project. In simple terms, this means the City has more work to do – and is moving purposefully to both demolish the incinerator and clean up the contaminated soil. If you have questions or would like additional information, please contact the individuals listed at the end of this letter.

2) Notice of Availability of Environmental Data, City of Galveston Incinerator Site, #3 Lennox Avenue, Galveston, TX

Under the direction of the TCEQ, the City of Galveston has coordinated environmental sampling efforts at the former incinerator site located at #3 Lennox Avenue in Galveston, Texas consistent with the Texas Risk Reduction Program (TRRP). Sampling efforts to date include collection of soil samples within the boundaries of the incinerator property, as well as some adjacent off-site properties located in the immediate vicinity of the site.

Soil samples have been collected on or near your property as part of the ongoing environmental sampling efforts associated with the incinerator site. Based on the soil sampling results, concentrations of a few constituents of concern (COCs) exceed regulatory action levels (known as Protective Concentration Levels or PCLs) as defined by TRRP. For this site, the critical regulatory action level (or critical PCL [cPCL]) selected in accordance with TRRP is the Total Soil Combined PCL (direct contact with soil). The cPCLs for the COCs are listed in Table 1.

TRRP evaluates human health exposure by comparing environmental sample results to cPCLs. TRRP requires a notification to be distributed to any property "actually or probably" exposed to levels of COCs that exceed applicable cPCLs. Soil samples collected on or near your property contain COCs with detected concentrations that exceed the cPCLs for a few COCs.

Table 1: Critical PCLs for COCs in Soil

COC	cPCL (mg/kg)
Arsenic	24
Benz-a-anthracene	5.6
Benzo(a)pyrene	0.56
Benzo-b-fluoranthene	5.7
Bis (2-ethyl-hexyl) phthalate	43
Cadmium	52
Dibenz(a,h)anthracene	0.55
Indeno-1,2,3-cd-pyrene	5.7
Lead	500
Mercury	2.1

Exposure to these COCs is possible with direct contact to soil. A contractor for the City of Galveston (AECOM) has prepared an APAR documenting all results for this environmental investigation. The attached figure (Notification Map) is included in the APAR and documents the extent of contamination from various COCs. Arsenic, lead, and mercury are included in the "metals" category and the other COCs are included in the polycyclic aromatic hydrocarbons (PAH) category. The APAR will be submitted to TCEQ upon completion.

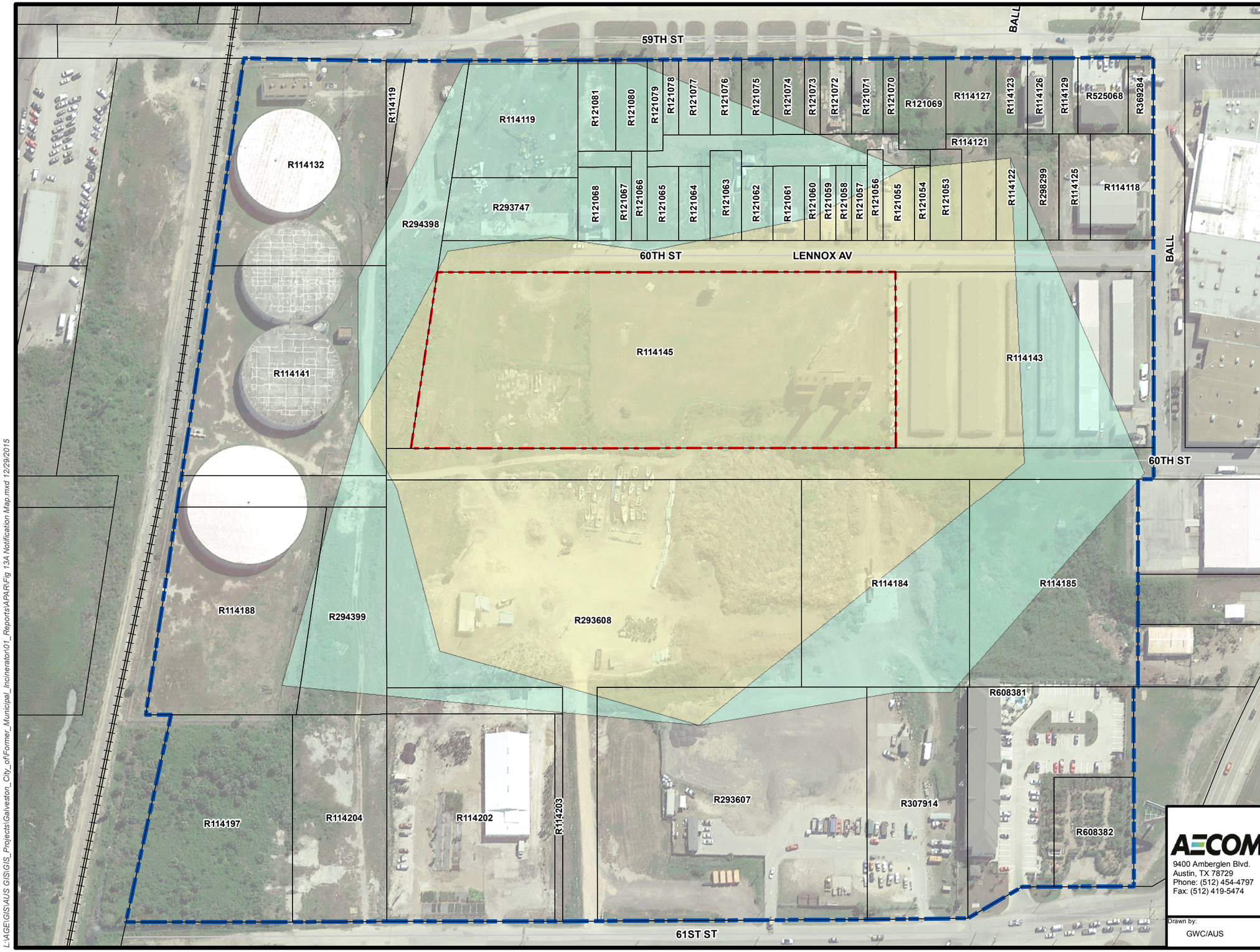
Delineation of COCs in surface soil has been completed and sample results are available. If you have questions regarding the information provided in this letter, please contact John Simsen with the City of Galveston by phone at (409) 797-3673 or email at SimsenJoh@cityofgalveston.org or Patrick Kainer with AECOM at (512) 419-6608 or email at patrick.kainer@aecom.com.

Sincerely,

John Simsen
Disaster Recovery Director
City of Galveston

Enclosures

cc: Patrick Kainer, AECOM



Legend

- On-Site Property Boundary
- Affected Property Boundary (Tier I RAL)
- Real Estate Parcel and Parcel Number (Table 13A)

Affected Property Boundary (Tier I Commercial/Industrial Assessment Level)

- Metals & PAHs
- PAHs Only
- Railroad Track
- RAL Residential Assessment Level

150 75 0 150
Feet

AECOM
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 419-5474

Client: City of Galveston

Report: Affected Property Assessment Report

Title: **Notification Map**

Drawn by:	Date:	GIS File:	Figure:
GWC/AUS	12/29/2015	Fig 13A Notification Map	13 A

L:\AGE\GIS\AUS GIS\GIS_Projects\Galveston_City_of\Former_Municipal_Incinerator\01_Reports\APAR\Fig 13A Notification Map.mxd 12/29/2015

APPENDIX 2

BORING LOGS AND MONITORING WELL COMPLETION DETAILS

60420789.41012083.0103

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-18
Site Location: Lennox Avenue, Galveston, TX	Date Started 6/23/15	Date Finish 6/23/15
Project Number: ~~60418656.41011826.02~~	Drilling Equipment: Hand Auger	Total Depth: 3.5' bgs
Logged By: Lisa DeGrazia	Drilling Method: Hand Auger	Borehole Diameter: 2.25"
Driller: Sergio Zamarripo	Sampling Method: Hand Auger	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand Auger	10YR 4/2	DRY	SM/SC		0-0.5 SAND WITH SILT AND TRACE CLAY. Sand is fine to med grained, loose, Silt/clay (10-15%) is soft, low to med plasticity. Dry. No odor. Some plant material (~10%). 10YR4/2.	0-0.5 INC-SB18-010 @ 1045
0.5			DRY/Moist		0.0		
0.75							
1					0.0	0.5-1.5 SAND WITH SILT AND CLAY (CLAY (~15%) more present in this interval than 0-0.5'). Sand is fine to med grain w/ some Fe-ox staining (10YR4/6). Silt/clay is soft, low to med plasticity. Dry to moist. No odor. Overall color 10YR 4/2.	
1.25							
1.5			Moist				1.5-2.5 INC-SB18-023 @ 1050
1.75							
2					0.0		
2.25							
2.5		10YR 3/3	Wet			1.5-2.5 Same as 0.5-1.5. Moist.	
2.75						2.5-3.5 10YR3/3. SAND WITH SILT (10-15%) AND TRACE (~5%) CLAY. Sand is fine to med grained, loose. Silt/clay is low to med plasticity. Soft. Some fill material (~10%) of wood, glass fragments present. No odor. Wet.	
3					0.0		
3.25							
3.5						3.5 - END OF BORING. Backfilled w/ bentonite chips (hydrated).	
3.75							
4							
4.25							
4.5							
4.75							
5							

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann 1-12-16

60420789.41012083.0103

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-27
Site Location: Lennox Avenue, Galveston, TX	Date Started: 6/23/15	Date Finish: 6/23/15
Project Number: ~~60419656.41104826.02~~	Drilling Equipment: Hand Auger	Total Depth: 3.5' bgs
Logged By: Lisa DeGrazia	Drilling Method: Hand Auger	Borehole Diameter: 2.25"
Driller: Jorge Zamarripa	Sampling Method: Hand Auger	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand Auger	10YR 4/2	Moist	SM	0.0	0-0.5 10YR4/2 SAND WITH SILT (15-20%). Sand is loose, med grained. Silt is soft, low plasticity. Some organic/plant material (5-10%) present No odor. Moist.	INC-SB22-010 @0-0.5' bgs @1200
0.5							
0.75							
1					0.0	0.5-2.5 Same as 0-0.5, but organic/plant material content gradually decrease to 0%. No odor, Moist.	
1.25							
1.5							
1.75						2.5-3.5 10YR3/1 SAND with SILT (15-20%) and TRACE CLAY (~5%). SAND is loose, med grained and. Silt/clay is low to med plasticity, soft. No odor. Moist to wet	INC-SB22-020 @2.5-3.5' bgs @1210
2					0.0		
2.25							
2.5		10YR 3/1	Moist/wet				
2.75						3.5 - END OF Boring, backfilled w/bentonite chips (hydrated)	
3					0.0		
3.25							
3.5							
3.75							
4							
4.25							
4.5							
4.75							
5							

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann 1-12-16

60420789.41012083.0103

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-20
Site Location: Lennox Avenue, Galveston, TX	Date Started 6/23/15	Date Finish 6/23/15
Project Number: ~~60419856.41011826.0~~	Drilling Equipment: Hand Auger	Total Depth: 3.5' bgs
Logged By: Lisa DeGrazia	Drilling Method: Hand Auger	Borehole Diameter: 2.25"
Driller: Jorge Zamarripa	Sampling Method: Hand Auger	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand auger	7.5YR 4/2	DRY	SM		0-0.5 ~~10YR~~ 7.5YR 4/2 SAND	0-0.5 INC-SB20-010 +-011 @1135
0.5			Moist		0.0	WITH 15-20% SILT. SAND is med grained, loose. Silt is soft, low plasticity. Some plant/organic (5-10%) material present. Dry. No odor	
0.75							
1					0.0		
1.25						0.5-1.5 Same as 0-0.5 EXCEPT:	
1.5						Moist and sporadic subangular gravel and glass shards present.	1.5-2.5 INC-SB20-020 @1145
1.75							
2					0.0	Gravels 1-2" dia (<5%).	
2.25						1.5-2.5 same as 0.5-1.5	
2.5			Wet			EXCEPT: No organics/plant material, gravel, or glass.	
2.75		10YR 5/3				2.5-3.5 10YR 5/3 SAND WITH	
3					0.0	TRACE (~5%) SILT. SAND is	
3.25						fine to med grained, loose.	
3.5						SILT is low plas., soft. Wet.	
3.75						No odor.	
4						3.5 END of boring. Backfilled	
4.25						w/ hydrated bentonite chips.	
4.5							
4.75							
5							

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann 1-12-16

60420789.41012083.0103

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-11
Site Location: Lenox Avenue, Galveston, TX	Date Started: 6/23/15	Date Finish: 6/23/15
Project Number: ~~60418056.41011826.02~~	Drilling Equipment: Hand Auger	Total Depth: 2.5' Bgs
Logged By: Lisa DeGrazia	Drilling Method: Hand Auger	Borehole Diameter: 2.25"
Driller: Sergio Zamorripo	Sampling Method: Hand Auger	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand Auger	10YR 3/2	moist	SM	0.0	0-0.5 10YR3/2 Mixture of fill-like materials (rubber, glass, etc.), matrix is mainly a loose ~~med~~ fine grained sand with silt. Silt is soft w/ no to low plas. Moist. No odor.	0-0.5 INC-SB11-010 + 011 @1300
0.5							
0.75							
1					0.0		0.5-1.5 INC-SB11-020 @1310
1.25							
1.5			wet			0.5-1.5 Same as 0-0.5, but moist to almost wet.	
1.75							
2					0.0	1.5-2.5 10YR3/2 Mainly fill material (glass, metal pieces, wood/mulch). The little bit of soil matrix is similar to 0-1.5. Wet. No odor.	
2.25							
2.5							
2.75							
3						2.5' END OF Boring. Backfilled w/ hydrated bentonite chips.	
3.25							
3.5							
3.75							
4							
4.25							
4.5							
4.75							
5							

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann 1-12-16

60420789.41012083.0103

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-12
Site Location: Lennox Avenue, Galveston, TX	Date Started 6/23/15	Date Finish 6/23/15
Project Number: ~~60418056.41018216.02~~	Drilling Equipment: Hand Auger	Total Depth: 3.5'
Logged By: Lisa DeGrazia	Drilling Method: Hand Auger	Borehole Diameter: 2.25"
Driller: Jorge Zamorripo	Sampling Method: Hand Auger	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand Auger	10YR 3/2	Dry	SM	0.0	0-0.5 10YR3/2. Predominantly fill material (glass, rubber, metal, etc.) ~50%. Matrix is sand w/ SILT. SAND is fine to med grained, loose. SILT is soft, low plas. Dry to moist. No odor. Some organics/plant material present.	0-0.5 INC-SB12-010 @ 1325
0.5			moist				
0.75							
1					0.0		
1.25							
1.5							1.5-2.5 INC-SB12-020 @ 1335
1.75						0.5-2.5 10YR3/2 SAND with SILT (15-20%) and FILL (20%). SAND is fine to med grained, loose. SILT is soft, low plas. FILL from 0-0.5 seen, not as prevalent. Moist. Some organics present. Some Fe-ox like staining in sand fraction.	
2					0.0		
2.25							
2.5			moist/wet				
2.75							
3					0.0	2.5-3.5 10YR3/2. Same as 0.5-2.5, fill fragments @ approx 20%. Moist to wet. No odor.	
3.25							
3.5							
3.75						3.5' END OF BORING. Backfilled w/ hydrated bentonite chips.	
4							
4.25							
4.5							
4.75							
5							

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann 1-12-16

60420789.41012083.003

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-27
Site Location: Lennox Avenue, Galveston, TX	Date Started 6/23/15	Date Finish 6/23/15
Project Number: ~~60418050.41012083.02~~	Drilling Equipment: AMS PowerProbe 9630	Total Depth: 5' bgs
Logged By: Lisa DeGrazia	Drilling Method: DPT	Borehole Diameter: 2.25"
Driller: Surge Tamaritpo	Sampling Method: via acetate sleeve	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand auger	10YR 4/4	Dry	SW	0.0	0-0.5: 10YR4/4 SAND with GRAVEL (20-30%), trace SILT AND CLAY (~5-7% combined). SAND is fine to med grained, loose. Gravel is subangular, ½-1½" dia. Well graded/poorly sorted. SILT and CLAY is soft, low plas. Dry. No odor.	0-0.5 INC-SB27-010 @ 1450
0.5		NR/PR	NR/PR	NR/PR			
0.75							
1					0.0		
1.25							
1.5		10YR 2/1	Moist	SM/SC			
1.75							
2					0.0	0.5-1.5 No/Poor Recovery	
2.25						1.5-3: 10YR 2/1 SAND with SILT AND CLAY (~20%), brick and glass fragments (15-20%) present. Sand is fine grained, loose. Silt/clay is soft, low plas. Moist. No odor.	2-3' INC-SB27-020 @ 1500
2.5	3.5/45						
2.75							
3			Wet		0.0		
3.25							
3.5						3-5 Same as 1.5-3', but wet.	
3.75							
4					0.0	5' END OF BORING. Backfilled w/ hydrated bentonite chips.	
4.25							
4.5							
4.75							
5							

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann 1-12-16

5' BGS END OF BORING. Backfilled w/ hydrated bentonite chips.

60420789.41012083.0103

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-16
Site Location: Lennox Avenue, Galveston, TX	Date Started 6/23/15	Date Finish 6/23/15
Project Number: ~~60411805.41011876.02~~	Drilling Equipment: AMS Powerprobe 9630	Total Depth: 5' BGS
Logged By: Lisa DeGrazia	Drilling Method: DPT	Borehole Diameter: 2.25"
Driller: Jorge Zamarripa	Sampling Method: Vice acetate sleeve	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand Auger	10YR 2/1	Moist	SM	0.0	0-0.5 10YR2/1. Moist. Predominantly Sand with Silt (10-20%) and trace (1-5%) clay. Sand is fine to med grained, loose. Silt and clay is soft, low plas. No odor. Moist. Some fill material (10-15%) consisting of glass, porcelain/tile, brick.	0-0.5 INC-SB16-010 @1515
0.5		NR/PR	NR/PR	NR/PR	NR/PR		
0.75							
1							
1.25							
1.5							
1.75						0.5-2 No/Poor Recovery.	
2						2-3 Same as 0-0.5, but fill fragment prevalence increases (15-30%). Moist. No odor.	2-3 INC-SB16-020 @1525
2.25	3/4.5	10YR 2/1	moist	SM			
2.5					0.0	3-5 10YR2/1 Same Sand with silt and clay @ 2-3 and 0-0.5, but clay fraction increases with depth from 1-5% to 15-70%. Fill material not as prevalent (~10%). Wet. No odor.	
2.75							
3			wet				
3.25							
3.5					0.0		
3.75						5' END OF BORING. Backfilled w/ hydrated bentonite chips.	
4				SM/SC			
4.25							
4.5					0.0		
4.75							
5							

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann 7-12-16

5' END OF BORING. Backfilled w/ hydrated bentonite chips.

60420789/41012983.0103

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-17
Site Location: Lennox Avenue, Galveston, TX	Date Started 6/23/15	Date Finish 6/23/15
Project Number: ~~60418656.41011826.02~~	Drilling Equipment: AMS Powerprobe 9620	Total Depth: 5' BGS
Logged By: Lisa DeGrazia	Drilling Method: DPT	Borehole Diameter: 2.25"
Driller: Jorge Zamarripa	Sampling Method: Via acetate sleeve	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand Auger	10YR 4/2	DRY	SM	0.0	0-0.5 10YR4/2 SAND WITH SILT (20-30%). SAND is fine grained, loose. Silt is soft, low plas. No to very little fill material present. Dry. No odor.	0-0.5 INC-SB17-010 @1535
0.5		NR/PR	NR/PR	NR/PR	NR/PR	0.5-1.75 No/Poor Recovery.	
0.75							
1						1.75-3.25 Same 10YR4/2 SAND WITH SILT at 0-0.5. Fill material (glass, brick) present (10-15%). Also seeing some of white material seen at SB-19 (very fine grained, behaves like silt/clay, low plas, about 10%). Moist. No odor.	
1.25							
1.5							
1.75		10YR 4/2	Moist	SM			
2							2-3 INC-SB17-020
2.25							
2.5	3.25/4.5				0.0	3.25-5 Color grades from 10YR4/4 to 10YR3/2 SAND WITH SILT (10-15%). Sand is med to coarse grained, loose. Silt is soft, no to low plas. Glass + brick fragments (10-15%) also present. Wet. No odor.	
2.75							
3							
3.25		10YR 4/4	Wet				
3.5					0.0		
3.75		GRADES TO				5' END OF BORING. Backfilled w/ hydrated bentonite chips.	
4							
4.25							
4.5					0.0		
4.75							
5		10YR 3/2					

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann 1-12-16

5' END OF BORING. Backfilled w/ hydrated bentonite chips.

60420789.41012083.0103

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-13
Site Location: Lenox Avenue, Galveston, TX	Date Started 6/23/15	Date Finish 6/23/15
Project Number: ~~60420789.41011826.02~~	Drilling Equipment: AMS Power probe 9630	Total Depth: 5' bgs
Logged By: Lisa DeGrazia	Drilling Method: DPT	Borehole Diameter: 2.25"
Driller: Jorge Zamarripa	Sampling Method: Vial acetate sleeve	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand Auger	10YR 4/2	DRY	SM	0.0	0-0.5 10YR 4/2 SAND with SILT (20-25%). SAND is fine grained, loose. Silt is soft, low plas. No odor. Some organics (~5%) present. Little to no fill present. Dry.	0-0.5 INC-SB13-010 @ 1555
0.5		NR/PR	NR/PR	NR/PR	NR/PR	0.5-1.5 No/Poor Recovery.	
1.5		10YR 4/4	Moist	SM/SC		1.5-3 Same sand with silt as 0-0.5. Fill material (glass, brick) present (10-15%). White material (5-10%) seen at SB-19 and SB-17 present. No odor. Moist.	2-3 INC-SB13-020 @ 1605
3.5/4.5		GRADES TO	wet		0.0	3-5 Color grades from 10YR 4/4 to 10YR 3/2 SAND with SILT (10-15%) and CLAY (10-15%). Sand is med grained, loose to med dense. Silt/Clay is soft, low plas. Glass/brick fragments present at 3-4', but decrease from 10% to 0% by 5'. Wet. No odor.	
3.25					0.0		
4					0.0		
4.5		10YR 3/2			0.0	5' END OF BORING. Backfilled w/ hydrated bentonite chips.	

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann 12/16

60420789.41012083.0103

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-14
Site Location: Lennox Avenue, Galveston, TX	Date Started 6/24/15	Date Finish 6/24/15
Project Number: ~~60418056.41018026.02~~	Drilling Equipment: AMS Powerprobe 9630	Total Depth: 5' BGS
Logged By: Lisa DeGrazia	Drilling Method: DPT	Borehole Diameter: 2.25"
Driller: Jorge Zamarripo	Sampling Method: via acetate sleeve	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand Auger	10YR 4/2	Dry/moist	SM	0.0	0-0.5 10YR4/2 SAND with SILT (20-30%). SAND is fine-grained. SILT is soft, low plas. Some organics present (~5-10%). Dry to moist. No oder. Little to no fill present.	0-0.5 INC-SB14-013 @0830
0.5		NR/PR	NR/PR	NR/PR	NR/PR		
0.75							
1							
1.25						0.5-2 No/Poor Recovery	
1.5						2-3 10YR5/3 SAND with SILT (15-20%). SAND is fine to med grained, loose. SILT is soft, low plas. Moist. No oder. Little to no fill material present.	
1.75							
2							
2.25	3/4.5	10YR 5/3	moist	SM			
2.5						3-4 Same as 2-3, but at 3.5-7.5 10YR2/1 fine grained (silt/clay-like) (black) consolidated material w/ some fill (glass). Moist. No oder.	
2.75							
3					0.0		3-4 INC-SB14-020 @0840
3.25						4-5 Same as 2-4, but 4-4.2 mainly fill material (glass, angular 1" gravel). Black material seen at 3.5-3.7 seen at 4.8-5.0'. Wet. No oder.	
3.5							
3.75					0.3		
4			wet				
4.25						5' END OF BORING. Backfilled w/ hydrated bentonite chips.	
4.5							
4.75					1.7		
5							

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann 1-12-16

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-15
Site Location: Lennox Avenue, Galveston, TX	Date Started 6/24/15	Date Finish 6/24/15
Project Number: 60420789.4/012083.0105	Drilling Equipment: AMS Powerprobe 9630	Total Depth: 5' Bgs
Logged By: Lisa DeGrazia	Drilling Method: DPT	Borehole Diameter: 2.25"
Driller: Jorge Zamarripa	Sampling Method: via acetate sleeve	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand Auger	10YR 4/4	Dry	CL	0.0	0-0.5' CLAY with SAND (30%) and TRACE SILT (~5%). CLAY is soft to med stiff, med plasticity. Sand is med grained, loose. SILT is soft, no plas.	0-0.5 INC-SB15-010 @ 0850
0.5		10YR 3/2	moist	SM			
0.75							
1					0.3	Color grades from 10YR4/4 to 10YR4/2. Dry to moist. No odor.	
1.25							
1.5						0.5-3' 10YR3/2 SAND with SILT (30-35%). SAND is fine grained, loose. SILT is soft, no to low plas. Some fill material (5-10%) present, predominantly glass. 2.75'-3' is 10YR2/1 (black) sand with very fine grained (silt/clay-like, but not plastic) material. Sand is med to coarse grained, loose to med dense. No odor. Moist.	
1.75							
2					0.3		
2.25	4.5/4.5						2-3 INC-SB15-020 @ 0950
2.5							
2.75		10YR 2/1	wet	SM/SC			
3					0.3		
3.25		10YR 4/6		CL/CH		3-5' 3-3.25 is same material seen from 2.75-3'. 3.25-5 is 10YR 4/6 CLAY with TRACE SAND, GRAVEL, AND SEA SHELLS (all trace components <10%). CLAY is med stiff to hard, med to high plasticity. Sands med grained, gravels subangular 1/2"-1" dia. Wet. No odor.	
3.5					0.4		
3.75							
4							
4.25					0.0		
4.5							
4.75							
5							

Note: Black material had "burnt" smell to it.

5' END OF BORING. Backfilled w/ hydrated bentonite chips.

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann
1-12-16

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-08
Site Location: Lennox Avenue, Galveston, TX	Date Started 6/24/15	Date Finish 6/24/15
Project Number: 60420789.41012083.0103	Drilling Equipment: AMS powerprobe 9650	Total Depth: 5' Bgs
Logged By: Lisa DeGrazia	Drilling Method: DPT	Borehole Diameter: 2.25"
Driller: Jorge Zamarripo	Sampling Method: via acetate sleeve	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand Auger	10YR 3/2	DRY	SM	0.0	0-0.5 10YR 3/2 SAND with SILT (20-30%) and TRACE CLAY (<5%). SILT and CLAY is soft, low plas. Sand is fine grained to med, loose. Some organics/plant material (5-10%). Dry. No odor.	0-0.5 INC-SB08-010 @1005
0.5		NR/PR	NR/PR	NR/PR	NR/PR	0.5-2 No/Poor Recovery.	
0.75							
1							
1.25							
1.5							
1.75							
2						2-3 Same grain sizes as 0-0.5, but fill material (predominantly glass) more prevalent (~15%). Moist. No odor.	2-3 INC-SB08-020 @1020
2.25	3/4.5	10YR 3/2	moist	SM			
2.5					0.0		
2.75						3-5 10YR 5/1 SAND with SILT (10-15%). Sand is med to coarse grained, med dense. Silt is soft, no to low plas. No fill present. No odor. Wet.	
3		10YR 5/1	wet				
3.25							
3.5					0.0		
3.75							
4							
4.25					0.0	5' END OF BORING. Backfilled w/ hydrated bentonite chips.	
4.5							
4.75					0.0		
5							

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann 1-12-16

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-07
Site Location: Lennox Avenue, Galveston, TX	Date Started 6/24/15	Date Finish 6/24/15
Project Number: 60420789.41012083.2103	Drilling Equipment: AMS pneuprobe 9630	Total Depth: 5'
Logged By: Lisa DeGrazia	Drilling Method: DPT	Borehole Diameter: 2.25"
Driller: Jorge Zamarripa	Sampling Method: via acetate sleeve	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand Augered	10YR 3/2	Dry/moist	SM	0.0	0-0.5 10YR3/2 SAND with SILT (15-25%) SAND is fine-grained, loose. SILT is soft, no to low plas. Some fill material, mainly glass (5-10%) present. Some organic/plant material (~5%). Dry to moist. No odor.	0-0.5 INC-SB07-010 @1035
0.5		NR/PR	NR/PR	NR/PR	NR/PR		
0.75							
1							
1.25		10YR 2/2	moist	SM		0.5-1 No/Poor Recovery.	
1.5					0.0	1-2 Same as 0-0.5.	
1.75							
2						2-3 10YR2/2 SAND with SILT (10-20%) and trace CLAY (~5%). Considerably more fill material than 0-0.5 (mainly glass). SAND and SILT are same as 0-0.5' and 1-2', Clay is soft, low plas. From 2.75-3' 10YR2/1 (black) a lot of fill, very slight fuel-like/hydrocarbon odor (more than 50%) with soft sand/clay matrix (fine grained, soft, low plas). Moist.	
2.25							2-3 INC-SB07-020 @1055
2.5	4/4.5				0.0		
2.75		10YR 2/1		FILL	5.0		
3			wet		1.6		
3.25					3.2		
3.5		10YR 2/1		SC			
3.75		GRADES TO 10YR 5/1			0.0		
4							
4.25							
4.5					0.0	3-5 First 4" same as material seen at 2.75-3'. 3.25-5' color grades from 10YR2/1 to 10YR5/1, SAND WITH CLAY. Sand is fine grained, dense. Clay is soft to med stiff, med plas. No odor. wet.	
4.75							
5							

5' END OF BORING. Backfilled w/ hydrated bentonite chips.

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann 1-12-16

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-06
Site Location: Lennox Avenue, Galveston, TX	Date Started 6/24/15	Date Finish 6/24/15
Project Number: 60420789.41012083.003	Drilling Equipment: AMS powerprobe 9630	Total Depth: 5' Bgs
Logged By: Lisa DeGrazia	Drilling Method: DPT	Borehole Diameter: 2.25"
Driller: Jorge Zamarripa	Sampling Method: via acetate sleeve	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand Auger	10YR 3/2	Dry/ moist	SM	0.0	0-0.5 10YR 3/2 SAND WITH SILT (~20%) SAND is fine to med grained. Silt is soft, low plas, some trace (<5%) Subangular 1/2"-1" dia gravel. Little to no fill material present. Some plant material (~5%). No odor. Dry to moist.	0-0.5 INC-SB06-010 @1110
0.5		NR/PR	NR/PR	NR/PR	NR/PR		
0.75							
1							
1.25							
1.5						0.5-3' No/Poor Recovery	
1.75						3-4' Top 6" similar to 0-0.5'. Next 3-4" is similar to white material seen at SB-19. Next 2-3" is 10YR 2/1 (black) sand/clay material w/ glass fill and very slight fuel odor seen at SB-07. Moist.	
2	2.5/4						
2.25							
2.5							
2.75							
3		10YR 3/2	moist	SM		4-5' Top 1-2" continuation of black material seen at ~3.75'-4'. Rest of 4-5' grades from 10YR 2/1 to 10YR 5/1 SAND WITH CLAY. SAND is fine grained, loose to med dense. CLAY is soft to med stiff, med plas. No odor. Wet.	3-4 INC-SB06-020 @1120
3.25					0.0		
3.5		white		ML CL			
3.75		10YR 2/1		Fill	1.6		
4			wet		0.8		
4.25		10YR 2/1 GR BRN		SC			
4.5					0.0		
4.75						5' END OF BORING. Backfilled w/ hydrated bentonite chips.	
5		10YR 5/1			0.0		

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann 1-12-16

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-05
Site Location: Lennox Avenue, Galveston, TX	Date Started: 6/25/15	Date Finish: 6/25/15
Project Number: 60420789.4101208 3.0103	Drilling Equipment: AMS powerprobe 9630	Total Depth: 5'
Logged By: Lisa DeGrazia	Drilling Method: DPT	Borehole Diameter: 2.25"
Driller: Jorge Zamarripa	Sampling Method: via acetate sleeve	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand auger	10YR 3/3	DRY	SM	0.5	0-0.5 10YR3/3 SAND WITH SILT (~20%) and TRACE CLAY (<5%). Some plant material present. Sand is fine-grained, loose. SILT/CLAY is soft, no/low plas. Dry. No odor. Some fill material (glass) present (~10%).	0-0.5 INC-SB05-010 @1235
0.5		NR/PR	NR/PR	NR/PR	NR/PR		
0.75							
1							
1.25							
1.5						0.5-2 No recovery/Poor recovery.	
1.75	3					2-2.5 Same as 0-0.5.	
2							
2.25	4.5	10YR 3/3	moist	SM		2.5-3.5 Same as 2-2.5, but glass/fill content increases to ~30%. Moisture content increase with depth to almost wet. Grades into black material seen at SB06, -07, and -08 yesterday. No odor.	2.5-3.5 INC-SB05-020 @1240
2.5				60%			
2.75		Grades to 10YR 2/1		to Fill	0.0		
3							
3.25					1.0	3.5-4 10YR 2/1, Predominantly fill material seen at SB-06, -07, and -08, wet. No odor. Fill material is mainly glass. Soil matrix is a med grained loose sand with trace soft, low plas. clay.	
3.5		10YR 2/1	wet				
3.75					0.0		
4		10YR 4-5/1		SC			
4.25							
4.5					0.0	4-5 10YR 4-5/1, wet, sand with clay (20%). Sand is fine to med grained, med dense. Clay is soft, low plas. No odor. Little to no fill present. wet.	
4.75							
5						5' END OF BORING. Backfilled with hydrated bentonite chips.	

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann 1-12-16

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-01
Site Location: Lennox Avenue, Galveston, TX	Date Started: 6/25/15	Date Finish: 6/25/15
Project Number: 60420789.4/012083.0105	Drilling Equipment: AMS power probe 9630	Total Depth: 5'
Logged By: Lisa DeGrazia	Drilling Method: DPT	Borehole Diameter: 2.25"
Driller: Jorge Zamarripa	Sampling Method: via acetate sleeves	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand Auger	10YR 4-3/3	DRY	SM	0.5	0-0.5 10YR 4-3/3 SAND with SILT (~20%) and TRACE CLAY (<5%). Sand is med grained, loose. SILT/CLAY is soft, low plas. Some plant/organic material present (5-10%). Dry. No odor.	0-0.5 INC-SB01-010 @ 1255
0.5		NR/PR	NR/PR	NR/PR	NR/PR		
0.75							
1		10YR 4-3/3	DRY	SM		0.5-1 Poor recovery, but same as 0-0.5.	
1.25							
1.5		10YR 3/3	DRY		0.2	1-1.5 Same as 0-0.5, ~~less~~ no plant material.	
1.75							
2						1.5-4 10YR 3/3. Same SAND with SILT and TRACE CLAY as 1-1.5, but fill material (~20%), mainly glass, present at 3'. Moisture grades from dry to moist. No odor.	
2.25	4/4.5						
2.5					0.5		2.5-3.5 INC-SB01-020 @ 1310
2.75							
3			moist			4-4.4' Same as 1.5-4, but wet.	
3.25							
3.5					0.4	4.4-4.5 10YR 2/1 (black) fill material with sand (fine grained)/clay (soft, low plas) matrix (~40%). Fill material seen at SB-05 through SB-08. Wet. Odor.	
3.75							
4			wet		0.0		
4.25						4.5-5 10YR 5/1 SAND with TRACE SILT (~5%). SAND is med grained, med dense. Silt soft, no plas. Wet. No odor. Poorly sorted	
4.5		10YR 2/1, 10YR 5/1		FILL SW			
4.75					0.0		
5						5' END OF BORING. BACKFILLED WITH HYDRATED BENTONITE CHIPS	

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann 1-12-16

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-01
Site Location: Lennox Avenue, Galveston, TX	Date Started 6/25/15	Date Finish 6/25/15
Project Number: 60420789.4/01/2083.0/03	Drilling Equipment: AMS powerprobe 9610	Total Depth: 5' Bgs
Logged By: Lisa DeGrazia	Drilling Method: DPT	Borehole Diameter: 2.25"
Driller: Jorge Zamarripa	Sampling Method: via acetate sleeve	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand Auger	10YR 5/2	Dry	SM	0.5	0-0.5 10YR 5/2 SAND WITH SILT (20%) SAND is med grained, loose. SILT is soft, no to low plas. Abundant seashells (~25-30%) ranging from 1/2" to almost 2" dia. No odor. Dry. Some organic/plant material present (~5%). Little to no fill material.	0-0.5 INC-SB04-010 @1335
0.5							
0.75		10YR 5/2					
1					0.0		
1.25							
1.5							
1.75						0.5-2 Same as 0-0.5.	
2	4.5/4.5	10YR 5/3	moist	SW	0.0	2-3 10YR 5/3 SAND, trace (~5%) silt. SAND is fine to med grained, loose to med dense. Silt is soft, no plas. Seashells seen at 0-2 no longer present. Moist. No odor. No fill material present. Poorly sorted.	2-3 INC-SB04-020 @1350
2.25							
2.5							
2.75							
3		10YR 5/3	wet		0.0	3-5 10YR 5/3 grades to 10YR 5-4/1. Same grain sizes as 2-3'. wet. No odor.	
3.25							
3.5		GRADES TO					
3.75					0.0		
4						5' END OF BORING. Backfilled with hydrated bentonite chips.	
4.25							
4.5		10YR 5-4/1					
4.75					0.1		
5							

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann 1-12-16

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-02
Site Location: Lennox Avenue, Galveston, TX	Date Started 6/25/15	Date Finish 6/25/15
Project Number: 60412079.9, 41012083.010	Drilling Equipment: AMS powerprobe 9630	Total Depth: 5' bgs
Logged By: Lisa DeGrazia	Drilling Method: DPT	Borehole Diameter: 2.25"
Driller: Jorge Zamarripa	Sampling Method: via acetate sleeve	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand Auger	10YR 3/2	Dry/moist	SM	0.0	0-0.5 10YR 3/2 SAND with SILT (15-20%), trace CLAY (<5%). SAND is fine to med grained, loose. Silt/Clay is soft, no/low plas. Some (~5-7%) organic/plant material. Dry to moist. No odor.	0-0.5 INC-SB02-010 @1400
0.5		NR/PR	NR/PR	NR/PR	NR/PR		
0.75							
1							
1.25						0.5-2.5 Poor Recovery, but similar material to 0-0.5.	
1.5							
1.75						2.5-3.5 10YR 3/1. Same grain size as 0-2.5, but fill (predominantly glass) at greater % (~20%). No odor. Moist.	
2							
2.25	2.5/4.5						
2.5		10YR 3/1	moist	SM		3.5-5 Color grades from 10YR 3/1 to 2/1. Similar to 2.5-3.5, but fill content greater (~30-35%). Wet. No odor.	2.5-3.5 INC-SB02-020 @1410
2.75							
3					0.0		
3.25							
3.5		GRADES TO 10YR 2/1	wet	SM/fill	0.0	5' END OF BORING. Backfilled with hydrated bentonite chips.	
3.75							
4					0.0		
4.25							
4.5					0.0		
4.75							
5							

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann 1-12-16

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-03
Site Location: Lennox Avenue, Galveston, TX	Date Started 6/25/15	Date Finish 6/25/15
Project Number: 60420789.4/012083.0103	Drilling Equipment: AMS powerprobe 9655	Total Depth: 5'
Logged By: Lisa DeGrazia	Drilling Method: DPT	Borehole Diameter: 2.25"
Driller: Jorge Zamarripa	Sampling Method: via acetate sleeve	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand Auger	10YR 4/2	DRY	SM	0.3	0-0.5 10YR 4/2 SAND with SILT. SAND is fine to med grained, loose. Silt (~20%) is soft, no to low plas. Some organic/plant material (~5%) and seashells (~5%) and fill (~5%) - glass. No odor, dry.	0-0.5 INC-SB03-010 @ 1425
0.5		PR/NR	PR/NR	PR/NR	PR/NR		
0.75							
1							
1.25						0.5-1.5 Poor recovery, but looks similar to 0-0.5.	
1.5		10YR 5/3	moist	SM		1.5-3' First 9" is 10YR 5/3 SAND with SILT (10-20%). SAND is fine to med grained, med dense. Silt is soft, no to low plas. Moist. No odor. Next 9" is 10YR 3/3-2 same grain sizes on top 9", but fill (glass, ~30%) present. Moist to wet. No odor.	
1.75							
2	3.5 / 4.5						2-3 INC-SB03-020 @ 1435.
2.25		10YR 3/3-2					
2.5					0.0		
2.75							
3			wet				
3.25				SW	0.0	3-5' First 3" continuation from 2.25-3', but wet. At 3.25' quickly transitions to sand (fine to med grained) trace silt/clay (~5%). SAND is med dense, poorly sorted. Color grades from 10YR 6/2 to 10YR 4/1. Last 3" is clay, med stiff, moist to wet, med to high plas. Little to no other grain sizes present. No odor	
3.5		10YR 6/2					
3.75							
4		grades					
4.25					0.0		
4.5		to					
4.75		10YR 4/1	moist/wet	Clt	0.0	5' END OF BORING. Backfilled w/ hydrated bentonite chips.	
5							

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L Richmann 7-12-16

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB - 24
Site Location: Lennox Avenue, Galveston, TX	Date Started 6/25/15	Date Finish 6/25/15
Project Number: 60420789.41012083.0103	Drilling Equipment: ANS microprobe 9630	Total Depth: 5' bgs
Logged By: Lisa DeGrazia	Drilling Method: DPT	Borehole Diameter: 2.25"
Driller: Jorge Zamarripa	Sampling Method: via acetate sleeve	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand Auger	10YR 3/2	Dry	SM	0.4	0-0.5 10YR3/2 SAND WITH SILT (10-15%) SAND is fine to med grained, loose. SILT is soft, no to low plas. Some plant/organic material (~5%). TRACE fill material (1-5%). Dry - No odor.	0-0.5 INC-SB24-010 @1505
0.5		NR/PR	NR/PR	NR/PR	NR/PR	0.5-1.5 Poor recovery, but same as 0-0.5.	
0.75							
1							
1.25							
1.5		10YR 3/2	Dry	SM	0.0	1.5-2 Same grain sizes as 0-0.5, but no plant/organic matter, and fill (glass) at about 10-15%. Dry. No odor.	
1.75							
2	3.5/4.5	10YR 3/3	moist		0.0	2-3.5 10YR3/3 SAND with SILT (15-20%). SAND is fine to med grained, loose to med dense. SILT is soft, low plas. About 20-25% fill (glass, tile, brick). Moist. No odor.	
2.25							
2.5							
2.75					3.1		
3					5.0	3.5-4 Black (10YR2/1) sludge with fuel like odor. Mixture of med grained sand, silt, black sludge, and fill. Mainly (~40-50%) sludge and fill (glass). Moist to wet.	3-4 INC-SB24-020 @1520
3.25					10.0		
3.5		10YR 2/1		sludge fill			
3.75					20.7		
4		10YR 4/1	wet	CL	15.2	4-5 10YR4/1 CLAY with 5-10% fine grained sand. CLAY is soft to med stiff, med to high plasticity. Fuel odor from 3.5-4 decreases over 4-5. Wet. No fill.	
4.25							
4.5					2.1		
4.75							
5					0.0		

5' END OF BORING. Backfilled w/ hydrated bentonite chips.

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann
1-12-16

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB10
Site Location: Lennox Avenue, Galveston, TX	Date Started 6/25/15	Date Finish 6/25/15
Project Number: 60417CTB9.41142083.0103	Drilling Equipment: AMS powerprobe 9630	Total Depth: 5' Bgs
Logged By: Lisa DeGrazia	Drilling Method: DPT	Borehole Diameter: 2.25"
Driller: Jorge Zamarripa	Sampling Method: via acetate sleeve	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand Auger	10YR 5/3	DRY	SW	0.1	0-0.5 10YR 5/3. SAND with TRACE SILT AND CLAY (~5%). SAND is fine to med grained, loose, poorly sorted. SILT/CLAY is soft, no/low plas. Sporadic gravels (~1-2%), subangular, 1/2-1" dia. Seashells and glass (~5-7%) also present. Dry. No odor.	0-0.5 INC-SB10-010 @1540
0.5		NR/PR	NR/PR	NR/PR	NR/PR		
0.75							
1							
1.25							
1.5						0.5-1.5 No/Poor Recovery.	
1.75	3.5/4.5	10YR 5/3	DRY	SW	0.0	1.5-2 Same as 0-0.5.	
2		10YR 3/2	Moisture increases w/depth	SM	6.0	2-3.5 10YR 3/2 SAND with SILT (5%) and FILL (20%). SAND is fine to med grained, loose. Silt (15%) is soft, no to low plas. Fill is predominantly glass. No odor. Moisture increases w/ depth.	2.5-3.5 INC-SB10-020 @1555
2.25					0.0		
2.5					2.4		
2.75					2.8		
3					3.0		
3.25					6.0		
3.5			wet		8.1	3.5-4 Same as 2-3.5, but wet, hydrocarbon odor	
3.75					8.0	4-4.5 10YR 2/1, sludge-like material (~50%), but matrix is same grain sizes seen at 2-4. wet. Hydrocarbon odor.	
4		10YR 2/1		Sludge	15.7		
4.25					27.1		
4.5					40.6	4.5-5 10YR 4/1 CLAY with trace fine grained sand (~5%). CLAY is med stiff, med to high plast. wet. Hydrocarbon odor from 4-4.5 decrease w/ depth. wet.	
4.75		10YR 4/1		CH	35.2		
5					20.7		

5' END OF Borehole. Backfilled w/ hydrated bentonite chips

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann 1-12-16

Project Name: City of Galveston Incinerator	Drilling Contractor: Advanced Drilling	Well/Borehole ID: SB-09
Site Location: Lennox Avenue, Galveston, TX	Date Started 6/25/15	Date Finish 6/25/15
Project Number: 60426189.41012083.003	Drilling Equipment: AMS powerprobe 463	Total Depth: 5' bgs
Logged By: Lisa DeGrazia	Drilling Method: DPT	Borehole Diameter: 2.25"
Driller: Jorge Zamarripa	Sampling Method: via acetate sleeve	Page 1 of 1

Depth (ft. bgs.)	Recovery	Color	Moisture	USCS Class	PID Reading	Lithographic Description and Notes	Soil Sample Interval
0.25	Hand Auger	10YR 2/2	DRY	SM	0.0	0-0.5 10YR 2/2 SAND with SILT (20-30%), trace gravel (~3-5%), and fill (5-10%). SAND is fine grained, loose. SILT is soft, no to low plas. Gravels are 1/2-1" dia, subangular. Fill is glass (predom.) Some organic/plant material (~3-5%) Dry. No odor.	0-0.5 INC-SB09-010 @ 1610
0.5		NR/PR	NR/PR	NR/PR	NR/PR		
0.75							
1							
1.25							
1.5		10YR 2/2	DRY	SM		0.5-1.5 Not Poor Recovery.	
1.75					0.0		
2	3.5					1.5-2.5 Same as 0-0.5, just no organic/plant material.	
2.25	4.5				0.7		
2.5		10YR 3/2	moist		2.1	2.5-3.5 10YR 3/2 SANDY SILT (~20%) with fill (~15%). SAND is fine grained, loose. Silt is soft, low plas. Fill is mainly glass. However, last 3" is 10YR 2/1 CLAY with FILL (15%), CLAY is soft, low plas. Moist. No odor to very slight hydrocarbon odor.	2.5-3.5 INC-SB09-020 @ 1625
2.75					2.2		
3							
3.25		10YR 2/1		CL	3.0		
3.5			wet		3.5		
3.75					9.6		
4						3.5-3.75 Same as 3.25-3.5, but wet.	
4.25					5.3		
4.5		10YR 4/1		CH	7.8	3.75-4.5' Same as 3.25-3.75, but slight hydrocarbon odor. Some fill (glass, 10-15%) present.	
4.75					2.0		
5					2.0	4.5-5 10YR 4/1, CLAY with TRACE (~5%) fine grained sand. CLAY is med stiff, med to high plas. Wet. Slight hydrocarbon odor, decreases with depth. Little to no fill present. 5' END OF BORING. Backfilled w/ hydrated bentonite chips.	

STATE OF TEXAS
DEBRA L. RICHMANN
GEOLOGY
2494
LICENSED
PROFESSIONAL GEOSCIENTIST

Debra L. Richmann 1-12-16

APPENDIX 3

MONITORING WELL DEVELOPMENT AND PURGING DATA

[This appendix is not applicable.]

APPENDIX 4

REGISTRATION AND INSTITUTIONAL CONTROLS

Appendix 4 Registration and Institutional Controls

The TCEQ issued MSD Certificate No. 333 for this site on January 4, 2017. The MSD covers the Site and the associated affected on- and off-site property. A copy of the ordinance, deed restriction, MSD certificate, and map that illustrates the boundary of the MSD and the affected property is provided in this appendix.

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*

COPY

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

January 9, 2017

Ms. Brandee Lawther, City Secretary
Village of Tiki Island
802 Tiki Drive
Tiki Island, Texas 77554

Re: Municipal Setting Designation (MSD) Certificate for Mr. Brian Maxwell, Old Municipal Incinerator Site, #3 Lennox Avenue, Galveston, Galveston County, TX; MSD No. 333; Customer No. CN600241376; Regulated Entity No. RN102540095

Dear Ms. Lawther:

As required by Texas Health & Safety Code §361.807(a)(2), enclosed is a copy of the MSD certificate dated January 4, 2017. The City of Galveston passed an ordinance (Ordinance No. 16-039) in support of this MSD application. For this reason, the Texas Commission on Environmental Quality is required to provide you a copy of the MSD Certificate.

If you have any questions, please contact me at (512) 239-4940 or via e-mail (robert.anderson@tceq.texas.gov).

Sincerely,

Robert Anderson

Robert Anderson, Project Manager
VCP-CA Section
Remediation Division

RA/jdm

Enclosure: Copy of MSD Certificate No. 333

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

January 9, 2017

Mr. Stephen E. Jefferson, General Manager
Galveston County Fresh Water Supply District #6
802 Tiki Drive
Tiki Island, Texas 77554

Re: Municipal Setting Designation (MSD) Certificate for Mr. Brian Maxwell, Old Municipal Incinerator Site, #3 Lennox Avenue, Galveston, Galveston County, TX; MSD No. 333; Customer No. CN600241376; Regulated Entity No. RN102540095

Dear Mr. Jefferson:

As required by Texas Health & Safety Code §361.807(a)(2), enclosed is a copy of the MSD certificate dated January 4, 2017. The City of Galveston passed an ordinance (Ordinance No. 16-039) in support of this MSD application. For this reason, the Texas Commission on Environmental Quality is required to provide you a copy of the MSD Certificate.

If you have any questions, please contact me at (512) 239-4940 or via e-mail (robert.anderson@tceq.texas.gov).

Sincerely,

Robert Anderson

Robert Anderson, Project Manager
VCP-CA Section
Remediation Division

RA/jdm

Enclosure: Copy of MSD Certificate No. 333

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

January 9, 2017

Ms. Janelle Williams, City Secretary
City of Galveston
P.O. Box 799
Galveston, Texas 77553

Re: Municipal Setting Designation (MSD) Certificate for Mr. Brian Maxwell, Old Municipal Incinerator Site, #3 Lennox Avenue, Galveston, Galveston County, TX; MSD No. 333; Customer No. CN600241376; Regulated Entity No. RN102540095

Dear Ms. Williams:

As required by Texas Health & Safety Code §361.807(a)(2), enclosed is a copy of the MSD certificate dated January 4, 2017. The City of Galveston passed an ordinance (Ordinance No. 16-039) in support of this MSD application. For this reason, the Texas Commission on Environmental Quality is required to provide you a copy of the MSD Certificate.

If you have any questions, please contact me at (512) 239-4940 or via e-mail (robert.anderson@tceq.texas.gov).

Sincerely,

Robert Anderson

Robert Anderson, Project Manager
VCP-CA Section
Remediation Division

RA/jdm

Enclosure: Copy of MSD Certificate No. 333

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

January 9, 2017

Mr. Brian Maxwell, City Manager
City of Galveston
823 Rosenburg
Galveston, Texas 77551

Re: Municipal Setting Designation (MSD) Certificate for Brian Maxwell, Old Municipal Incinerator Site, #3 Lennox Lane, Galveston, Galveston County, TX; MSD No. 333; Customer No. CN600241376; Regulated Entity No. RN102540095

Dear Mr. Maxwell:

The Texas Commission on Environmental Quality (TCEQ) received the above referenced Municipal Setting Designation (MSD) application on July 7, 2016 and additional information supporting this MSD application on December 12, 2016. Based on our review, the application contains the required information as outlined in Texas Health and Safety Code (THSC) §361.804. Enclosed is the Municipal Setting Designation Certification for your site. If you have any questions, please do not hesitate to contact me at (512) 239-4940 or via e-mail (robert.anderson@tceq.texas.gov).

Sincerely,

Robert Anderson, Project Manager
VCP-CA Section
Remediation Division

RA/jdm

cc: Mr. Douglas E. Zarker, PG, Project Manager, AECOM, 9400 Amberglen Blvd, Austin, TX
Mr. Jason Ybarra, Waste Section Manager, TCEQ Region 12 Office, Houston

Enclosure: MSD Certificate

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

MUNICIPAL SETTINGS DESIGNATION CERTIFICATE

As provided for in §361.807, Subchapter W, Texas Health and Safety Code (Solid Waste Disposal Act):

I, Beth Seaton, Director, Remediation Division, TCEQ, certify the Municipal Setting Designation (MSD) for MSD No. 333, in the City of Galveston, for the tract of land described in Exhibit "A". The eligibility requirements of Texas Health and Safety Code §361.803 are satisfied as attested to by the affidavit in Exhibit "B", provided pursuant to Texas Health and Safety Code §361.804(b)(2)(D). This certificate shall continue in effect so long as the ordinance or restrictive covenant required by Texas Health and Safety Code §361.8065 remains in effect.

Any person addressing environmental impacts for a property located in the certified municipal setting designation shall complete any necessary investigation and response action requirements in accordance with Texas Health and Safety Code §361.808, in conjunction with the applicable Texas Commission on Environmental Quality environmental remediation regulation, as modified by Texas Health and Safety Code §361.808.

EXECUTED this the 4th day of January, 2017

Beth Seaton

Beth Seaton, Director
Remediation Division
Texas Commission on Environmental Quality

EXHIBIT "A"
PAGE 1 OF 4

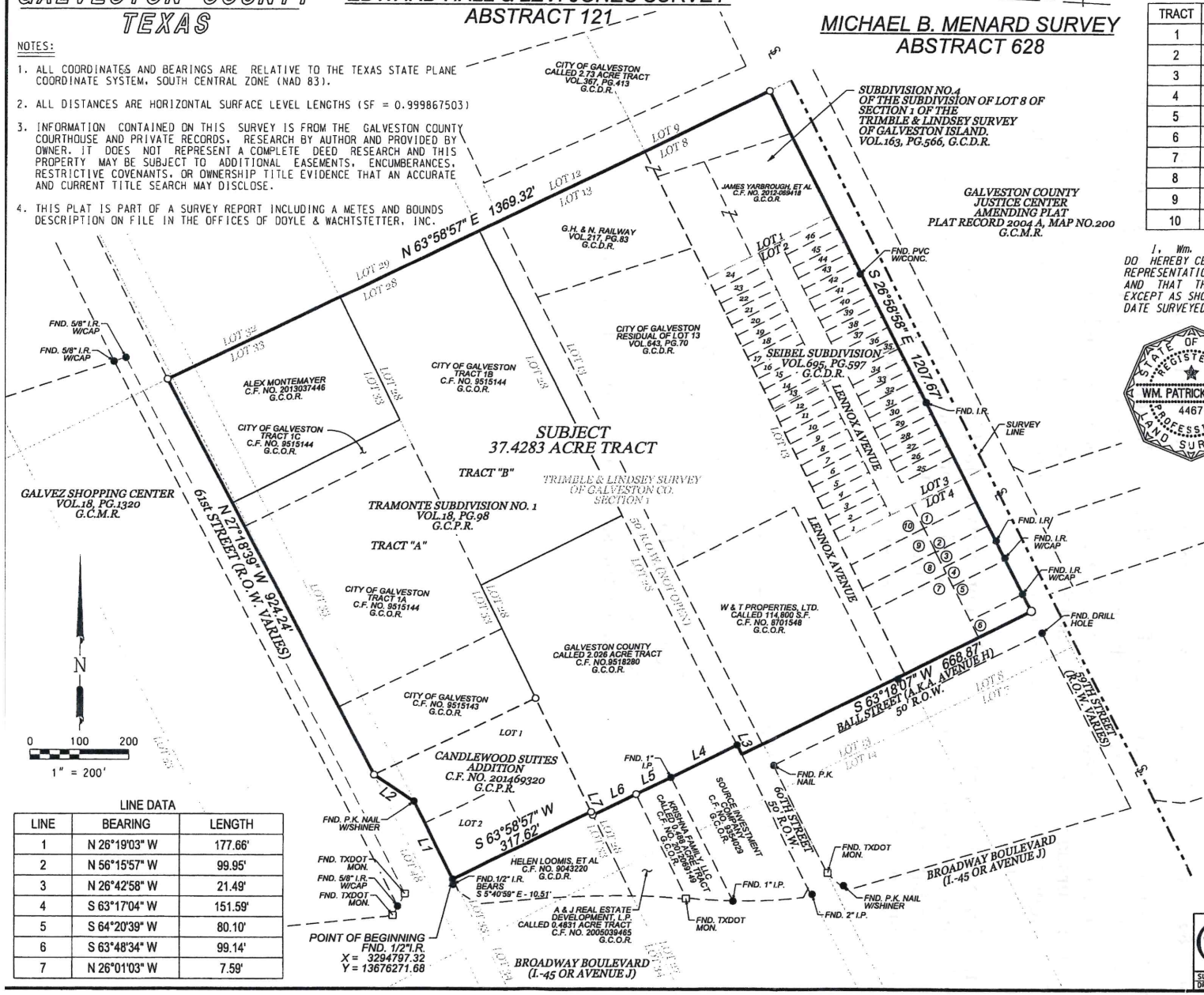
GALVESTON COUNTY TEXAS

EDWARD HALL & LEVI JONES SURVEY ABSTRACT 121

MICHAEL B. MENARD SURVEY ABSTRACT 628

NOTES:

1. ALL COORDINATES AND BEARINGS ARE RELATIVE TO THE TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE (NAD 83).
2. ALL DISTANCES ARE HORIZONTAL SURFACE LEVEL LENGTHS (SF = 0.999867503)
3. INFORMATION CONTAINED ON THIS SURVEY IS FROM THE GALVESTON COUNTY COURTHOUSE AND PRIVATE RECORDS. RESEARCH BY AUTHOR AND PROVIDED BY OWNER. IT DOES NOT REPRESENT A COMPLETE DEED RESEARCH AND THIS PROPERTY MAY BE SUBJECT TO ADDITIONAL EASEMENTS, ENCUMBERANCES, RESTRICTIVE COVENANTS, OR OWNERSHIP TITLE EVIDENCE THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
4. THIS PLAT IS PART OF A SURVEY REPORT INCLUDING A METES AND BOUNDS DESCRIPTION ON FILE IN THE OFFICES OF DOYLE & WACHTSTETTER, INC.



OWNERSHIP TABLE

TRACT	OWNER	RECORDED IN
1	SARAH J. ALFORD	C.F. NO. 9825869, G.C.O.R.
2	ROBERT E. HOSKINS, ET AL	C.F. NO. 2013061965, G.C.O.R.
3	LUMBERMAN HOMES, INC.	C.F. NO. 2009027497, G.C.O.R.
4	TROY MCLEHANY	C.F. NO. 2005077328, G.C.O.R.
5	CHARLES KAUFMANN, ET AL	C.F. NO. 2011058646, G.C.O.R.
6	CITY OF GALVESTON	C.F. NO. 2001054058, G.C.O.R.
7	JESUS G. SALINAS, ET AL	C.F. NO. 2000039656, G.C.O.R.
8	DAVID J. BROWN	C.F. NO. 2000006770, G.C.O.R.
9	WILBERT WILLIAMS	C.F. NO. 9536805, G.C.O.R.
10	ROSARIA TROST	VOL.1639, PG.299, G.C.D.R.

I, Wm. PATRICK DOYLE, REGISTERED PROFESSIONAL LAND SURVEYOR, DO HEREBY CERTIFY THAT THE ABOVE AND FOREGOING PLAT IS A TRUE REPRESENTATION OF A SURVEY MADE UNDER MY SUPERVISION, ON THE GROUND, AND THAT THERE ARE NO EXCESSES NOR INTRUSIONS ON THIS PROPERTY, EXCEPT AS SHOWN HEREON.
DATE SURVEYED: DECEMBER 9, 2015

STATE OF TEXAS REGISTERED WM. PATRICK DOYLE 4467 PROFESSIONAL LAND SURVEYOR

WM. PATRICK DOYLE
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS REGISTRATION NUMBER 4467

LINE DATA

LINE	BEARING	LENGTH
1	N 26°19'03" W	177.66'
2	N 56°15'57" W	99.95'
3	N 26°42'58" W	21.49'
4	S 63°17'04" W	151.59'
5	S 64°20'39" W	80.10'
6	S 63°48'34" W	99.14'
7	N 26°01'03" W	7.59'

SURVEY PLAT OF
37.4283 ACRE TRACT
BEING A PORTION OF ALL THAT CERTAIN
LOTS 8, 13, 28 AND 32
OF THE
SECTION 1 OF THE TRIMBLE & LINDSEY SURVEY OF GALVESTON ISLAND
IN THE
EDWARD HALL & LEVI JONES SURVEY
ABSTRACT 121
GALVESTON COUNTY, TEXAS.
FOR
AECOM

SHEET 1 OF 1

Doyle & Wachtstetter, Inc.
Surveying and Mapping GPS/GIS
131 COMMERCE STREET, CLUTE, TEXAS 77531
OFFICE: 979.265.3622 FAX. 979.265.9940 FIRM NO.:10024500

SURVEYED:	12-9-15	BOOK:	GALVESTON VOL.2	PROJECT NO.	954-15-03
DRAWN BY:	JAM/12-23-15	CHECKED:	WPD/12-23-15	REVISED:	

Doyle & Wachtstetter, Inc
Surveying and Mapping • GPS/GIS

37.4283 ACRE TRACT
EDWARD HALL & LEVI JONES SURVEY, ABSTRACT 121
GALVESTON COUNTY, TEXAS
PAGE 1 OF 3

ALL THAT CERTAIN 37.4283 ACRE tract, situated and lying in the Edward Hall and Levi Jones Survey, Abstract 121, Galveston County, Texas, being a portion of the Lots 8, 13, 28 and 33 of the unrecorded plat of Section 1 of the Trimble and Lindsey Survey of Galveston County, being all of Lot 1 and a portion of Lot 4 of Subdivision No. 4 of the Subdivision of Lot 8 of Section 1 of the Trimble and Lindsey Survey, according to the map or plat recorded in Volume 163, Page 566 of the Galveston County Deed Records (G.C.D.R.), Lots 1 through 46 and a 50 foot right-of-way according to the map or plat thereof of the Seibel Subdivision of Tracts 2 and 3, Division 8, Section 1 of the Trimble and Lindsey Survey of Galveston County, according to the map or plat thereof recorded in Volume 695, Page 597 of the G.C.D.R., all of Tract A and Tract B of the Final Tramonte Subdivision No. 1, according to the map or plat thereof recorded in Volume 18, Page 98 of the Galveston County Plat Records (G.C.P.R.) and Lots 1 and 2 of Candlewood Suites Addition, according to the map or plat thereof recorded in Clerk's File No. 201469320 of the G.C.P.R., said 37.4283 acre tract being comprised of the following tracts: a portion of all that certain called 2.026 acre tract conveyed by deed recorded on May 22, 1995 from the University National Bank to The City of Galveston County, Texas, as recorded in Clerk's File No. 9518280 of the Galveston County Official Records (G.C.O.R.), all that certain tract conveyed by deed recorded on April 28, 1995 from the Bank of the West to the City of Galveston as recorded in Clerk's File No. 9515143 of the G.C.O.R., all those certain tracts, Tract 1A, 1B and 1C, being a portion of Tract A and Tract B of Tramonte Subdivision, conveyed by deed recorded April 28, 1995 from The Moody National Bank of Galveston to The City of Galveston as recorded in Clerk's File No. 9515144 of the G.C.O.R., all that certain tract of land conveyed by deed recorded on June 14, 2013 from Peter G. Kovacevich, et ux to Alex Montemayor as recorded in Clerk's File No. 2013037446 of the G.C.O.R., all that certain tract of land, being a portion of said Lot 13 of Section 1 of the Trimble and Lindsey Survey of Galveston County and a portion of Lot No 1 of Subdivision No. 4 of the Subdivision of Lot 8 of Section 1 of the Trimble and Lindsey Survey, conveyed by deed recorded on June 9, 1906 from the Galveston, Houston & Northern Railway Company to The Galveston, Harrisburg and San Antonio Railway Company as recorded in Volume 217, Page 83 of the G.C.D.R., all that certain tract of land conveyed by deed recorded on March 10, 1942 from B. C. Franklin Leonard, et al, to the City of Galveston as recorded in Volume 643, Page 70 of the G.C.D.R., all those certain tracts of land conveyed by deed recorded on December 19, 2012 from James D. Yarbrough to James D. Yarbrough, et al as recorded in Clerk's File No. 2012069418 of the G.C.O.R., a portion of all that certain called 114,600 square foot tract of land, conveyed by deed recorded on January 13, 1987 from Watson & Taylor Realty Company to W&T Properties, Ltd., as recorded in Clerk's File No. 8701548 of the G.C.O.R., all that certain tract of land conveyed by deed recorded on June 5, 1998 from John Reed, et ux to Sarah J. Alford, as recorded in Clerk's File No. 9825869 of the G.C.O.R., all that certain tract of land conveyed by Affidavit of Heirship recorded on September 27, 2013 to Robert E. Hoskins, et al as recorded in Clerk's File No. 2013061965 of the G.C.O.R., all that certain tract of land conveyed by sheriff's deed recorded on May 26, 2009 from the County of Galveston, et al to Lumberman Homes, Inc. as recorded in Clerk's File No. 2009027497 of the G.C.O.R., all that certain tract of land conveyed by deed recorded on November 9, 2005 from Wilbert Williams to Troy McLehany as recorded in Clerk's File No. 2005077328 of the G.C.O.R., all that certain called 0.2222 acre tract of land conveyed by deed recorded on November 17, 2011 from Troy McLehany to Charles Kaufmann, et al as recorded in Clerk's File No. 2011058646 of the G.C.O.R., all that certain called 0.111 acre tract conveyed by deed recorded on October 15, 2001 from Wilbert Williams to the City of Galveston as recorded in Clerk's File No. 2001054058 of the G.C.O.R., all that certain tract of land conveyed by deed recorded on August 7, 2000 from Federico Aguillon to Jesus G. Salinas, et al as recorded in Clerk's File No. 2000039656 of the G.C.O.R., all that certain tract of land conveyed by sheriffs deed recorded on February 14, 200 from Galveston Independent School District, et al to David J. Brown, as recorded in Clerk's File No. 2000006770 of the G.C.O.R., all that certain tract of land, conveyed by deed recorded on September 25, 1995 from Viola Jones to Wilbert Williams as recorded in Clerk's File No. 9536805 of the G.C.O.R., all that certain tract of land tract of land conveyed by deed recorded on July 14, 1964 from Jessie Mae Thompson Sowell to Rosaria Trost as recorded in Volume 1639, Page 299 of the G.C.D.R., said herein described 37.4283 acre tract hereby conveyed being more particularly described by metes and bounds, using survey terminology which refers to the Texas State Plane Coordinate System, South Central Zone (NAD 83), in which the directions are Lambert grid bearings and the distances are surface level horizontal lengths, (S.F. = 0.999867503) as follows:

37.4283 ACRE TRACT
EDWARD HALL & LEVI JONES SURVEY, ABSTRACT 121
GALVESTON COUNTY, TEXAS
PAGE 2 OF 3

BEGINNING at a ½" iron rod found marking the South corner of Lot 2 of said Candlewood Suites Addition, same being the northwest corner of all that certain tract of land, conveyed by deed recorded on December 28, 1990 from Helen Loomis, et al to Helen Loomis, et al, as recorded in Clerk's File No. 9043220 of the G.C.O.R., located on the northeastern right-of-way boundary line of 61st Street (right-of-way varies), for the South corner of the herein described 37.4283 acre tract, said Point of Beginning being located at Texas State Plane coordinate position X=3294797.32 and Y=13676271.68;

THENCE North 26°19'03" West, coincident with the northeastern right-of-way boundary line of said 61st Street (right-of-way varies), same being the southwestern boundary line of Lot 1 and Lot 2 of said Candlewood Suites Addition, a distance of 177.66 feet to a p.k. nail found marking an angle corner of Lot 1 of said Candlewood Suites and the herein described 37.4283 acre tract, at position X=3294718.57 and Y=13676430.91;

THENCE North 56°15'57" West, coincident with the northeastern right-of-way boundary line of said 61st Street (right-of-way varies), same being the southwestern boundary line of Lot 1 of said Candlewood Suites Addition, a distance of 99.95 feet to a point for the West corner of said Lot 1 of Candlewood Suites Addition, same being the South corner of said Tract "A" of Tramonte Subdivision No. 1 and the South corner of said City of Galveston tract, recorded in Clerk's File No. 9515143 of the G.C.O.R., for an angle corner of the herein described 37.4283 acre tract, at position X=3294635.49 and Y=13676486.40;

THENCE North 27°18'39" West, coincident with the northeastern right-of-way boundary line of said 61st Street (right-of-way varies), the southwestern boundary line of said Tract "A" and Tract "B" of said Tramonte Subdivision No. 1, same being the southwestern boundary line of said City of Galveston tract recorded in Clerk's File No. 9515143, the southwest boundary line of said City of Galveston Tract 1A and Tract 1C and the southwestern boundary line of said Alex Montemayor tract, a distance of 924.24 feet to the West corner of said Alex Montemayor tract and the West corner of the herein described 37.4283 acre tract, at position X=3294211.46 and Y=13677307.51;

THENCE North 63°58'57" East, coincident with the northwestern boundary line of said Lot 33, Lot 28, Lot 13 and Lot 8 same being the northwestern boundary line of said Alex Montemayor tract, the northwestern boundary line of said City of Galveston Tract 1B, the northwestern boundary line of said Galveston, Harrisburg & San Antonio Railway Company, a distance of 1369.32 feet to the North corner of said Lot 1 of Subdivision No. 4 of Lot 8 of Section 1 of the Trimble and Lindsey Survey of Galveston Island, located on the southwestern right-of-way boundary line of 59th Street, right-of-way varies, for the North corner of the herein described 37.4283 acre tract, at position X=3295441.85 and Y= 13677908.08;

THENCE South 26°58'58" East, coincident with the southwestern right-of-way boundary line of said 59th Street, right-of-way varies, the northeastern boundary line of said Lot 8 of Section 1 of the Trimble and Lindsey Survey of Galveston Island, same being the northeastern boundary line of the said Galveston, Harrisburg and San Antonio Railway Company tract, the northeastern boundary line of said James Yarbrough, et all tract, the northeastern boundary line of Lots 25 through 46 of said Seibel Subdivision, the northeastern boundary line of said Sarah J. Alford tract, said Robert E. Hoskins, et al tract, said Lumberman Homes, Inc. tract, said Troy McLehany tract, said Charles Kaufmann, et al tract and said City of Galveston called 0.111 acre tract, a distance of 1207.67 feet to the intersection of the southwestern right-of-way boundary line of said 59th Street (right-of-way varies) and 50 foot wide Ball Street (A.K.A Avenue H) for the East corner of said City of Galveston called 0.111 acre tract and the herein described 37.4283 acre tract, at position X=3295989.72 and Y=13676832.01;

THENCE South 63°18'07" West, coincident with the northwestern right-of-way boundary line of said 50 foot wide Ball Street, same being the southeastern boundary line of said City of Galveston called 0.111 acre tract and the southeastern boundary line of said Jesus G. Salinas, et al tract, a distance of 668.87 feet to the intersection of the northwestern right-of-way boundary line of said 50 foot wide Ball Street and the southwestern right-of-way boundary line of 50 foot wide 60th Street, same being the northeastern boundary line of all that certain tract of land conveyed by deed recorded on December 21, 1993 from Bayshore National Bank of La Porte to Source Investment Company as recorded in Clerk's File No. 9354029 of the G.C.O.R., for an exterior corner of the herein described 37.4283 acre tract, at position X=3295392.24 and Y=13676531.54;

37.4283 ACRE TRACT
EDWARD HALL & LEVI JONES SURVEY, ABSTRACT 121
GALVESTON COUNTY, TEXAS
PAGE 2 OF 3

THENCE North 26°42'58" West, coincident with the southwestern right-of-way boundary line of said 50 foot wide 60th Street, same being the northeastern boundary line of said Source Investment Company tract, a distance of 21.49 feet to a 2" iron pipe found marking the North corner of said Source Investment Company tract and the South corner of said City of Galveston called 2.026 acre tract, for an interior corner of the herein described 37.4283 acre tract, at position X=3295382.58 and Y=13676550.74;

THENCE South 63°17'04" West, coincident with the southeastern boundary line of said City of Galveston called 2.026 acre tract, same being the northwestern boundary line of said Source Investment Company tract, a distance of 151.59 feet to a 1" iron pipe found marking the West corner of said Source Investment Company tract, same being the North corner of that certain tract of land conveyed by deed recorded on December 19, 2012 from Kiritkumar Masrani, M.D., et al to Krishna Family, LLC as recorded in Clerk's File No. 2012069149 of the G.C.O.R., for an angle corner of the herein described 37.4283 acre tract, at position X=3295247.19 and Y=13676482.59;

THENCE South 64°20'39" West, coincident with the southeastern boundary line of said City of Galveston called 2.026 acre tract, same being the northwestern boundary line of said Krishna Family, LLC tract, a distance of 80.10 feet to a point, for the West corner of said Krishna Family LLC tract, same being the North corner of all that certain called 0.4831 acre tract conveyed by deed recorded on June 14, 2005 from Raffaella Viotto to A & J Real Estate Development, L.P., as recorded in Clerk's File No. 2005-039465 of the G.C.O.R., for an angle corner of the herein described 37.4283 acre tract, at position X=3295174.99 and Y=13676447.92;

THENCE South 63°48'34" West, coincident with the southeastern boundary line of said City of Galveston called 2.026 acre tract, same being the northwestern boundary line of said A & J Real Estate Development, L.P. called 0.4831 acre tract, a distance of 99.14 feet to a point, located on the northeastern boundary line of said Helen Loomis, et al tract, for an exterior corner of the herein described 37.4283 acre tract, at position X=3295086.04 and Y=13676404.17;

THENCE North 26°01'03" West, coincident with the southwestern boundary line of said City of Galveston called 2.026 acre tract, same being the northeastern boundary line of said Helen Loomis, et al tract, a distance of 7.59 feet to the North corner of said Helen Loomis, et al tract, same being the East corner of Lot 1 of said Candlewood Suites Addition, for an interior corner of the herein described 37.4283 acre tract, at position X=3294966.93 and Y=13676648.20;

THENCE South 63°58'57" West, coincident with the southeastern boundary line of Lot 1 and Lot 2 of said Candlewood Suites Addition, a distance of 317.62 feet to the **POINT OF BEGINNING**, containing 37.4283 acres of land, more or less.

STATE OF TEXAS
REGISTERED
WM. PATRICK DOYLE
4467
PROFESSIONAL
LAND SURVEYOR

Wm. Patrick Doyle
Registered Professional Land Surveyor
Texas Registration Number 4467
December 23, 2015
Revised: January 8, 2016

This description is based on a survey, a plat of which, dated December 23, 2015 is on file in the office of Doyle & Wachtstetter, Inc.
G:\DGN\AECOM\Galveston Environmental Site\AECOM 37.4283 acre tract - Galveston Rev2.doc

Exhibit B

Municipal Setting Designation

Affidavit of Eligibility

BEFORE ME, the undersigned authority, on this day personally appeared Brian Maxwell, as an authorized representative of City of Galveston, known to me to be the person whose name is subscribed below who being by me first duly sworn, upon their oath, stated as follows:

I am over the age of 18 and legally competent to make this affidavit. I have personal knowledge of the facts stated herein.

I affirmatively state that (place an X in all applicable blanks)

- [X] The MSD eligibility criteria of THSC Section 361.803 are satisfied.
- [X] True and accurate copies of all documents demonstrating that the MSD eligibility criteria provided by THSC 361.803 have been satisfied and are included with the application.
- [X] A true and accurate copy of a legal description of the proposed MSD property is included with the application.
- [X] Notice has been provided in accordance with THSC 361.805.
- [X] A copy of an ordinance or restrictive covenant and any required resolutions are provided in this application or will be provided before the executive director certifies this application.

Signature

Date: 10-5-16

Brian Maxwell
Printed Name

City Manager
Title

STATE OF Texas

COUNTY OF Galveston

SUBSCRIBED AND SWORN before me on this the 10th day of October 2016, to which witness my hand and seal of office.

Notary Public in and for the State of Texas

SARA ELIZABETH MARTIN
My Notary ID # 126523822
Expires August 20, 2020

TCEQ 20149

APPENDIX 5

WATER WELL RECORDS

Appendix 5 Water Well Records

The following water well report was prepared to support the MSD application and covers an area within 0.5 mile of the proposed MSD boundary. The MSD encompasses an area of 37.61 acres around and including the Site. No water wells were identified within the search area.

Prepared for:

AECOM-Austin
400 West 15th, Suite 500
Austin, TX 78701

BANKS ENVIRONMENTAL DATA
A DIVISION OF THE BANKS GROUP

Water Well Report

City of Galveston Former Incinerator Site

Galveston, TX

Galveston County

ES-117635

Monday, October 19, 2015

Banks Environmental Data, Inc. - 1601 Rio Grande, Ste. 500 - Austin, TX 78701 - 800.531.5255 P - 512.478.1433 F
www.banksenvdata.com

Table of Contents *City of Galveston Former Incinerator Site*

Geographic Summary	**3**
Maps	
Summary Map - 0.5 Mile Buffer	**4**
Topographic Overlay Map - 0.5 Mile Buffer	**5**
Current Imagery Overlay Map - 0.5 Mile Buffer	**6**
Water Well Details	**7**
Database Definitions and Sources	**8**
Disclaimer	**9**

Banks Environmental Data, Inc. - 1601 Rio Grande, Ste. 500 - Austin, TX 78701 - 800.531.5255 P - 512.478.1433 F
www.banksenvdata.com

Geographic Summary *City of Galveston Former Incinerator Site*

Location
Galveston County, TX
Target location is 0.059 square miles and has a 0.97 mile perimeter

Coordinates	
Longitude & Latitude in Degrees Minutes Seconds	NA
Longitude & Latitude in Decimal Degrees	NA
X and Y in UTM	NA

Elevation
NA

Zip Codes Searched	
Search Distance	**Zip Codes (historical zip codes included)**
Target Property	77551
0.5 miles	77551, 77554, 77623, 77650

Topos Searched	
Search Distance	**Topo Name**
Target Property	Galveston (1977)
0.5 miles	Galveston (1977)

Banks Environmental Data, Inc. - 1601 Rio Grande, Ste. 500 - Austin, TX 78701 - 800.531.5255 P - 512.478.1433 F
www.banksenvdata.com

Summary Map - 0.5 Mile Buffer

BANKS ENVIRONMENTAL DATA
A DIVISION OF THE BANKS GROUP

City of Galveston Former Incinerator Site

- Well
- Well Cluster
- Target Property
- Search Buffer
- Texas Quad Index

1 : 13,000

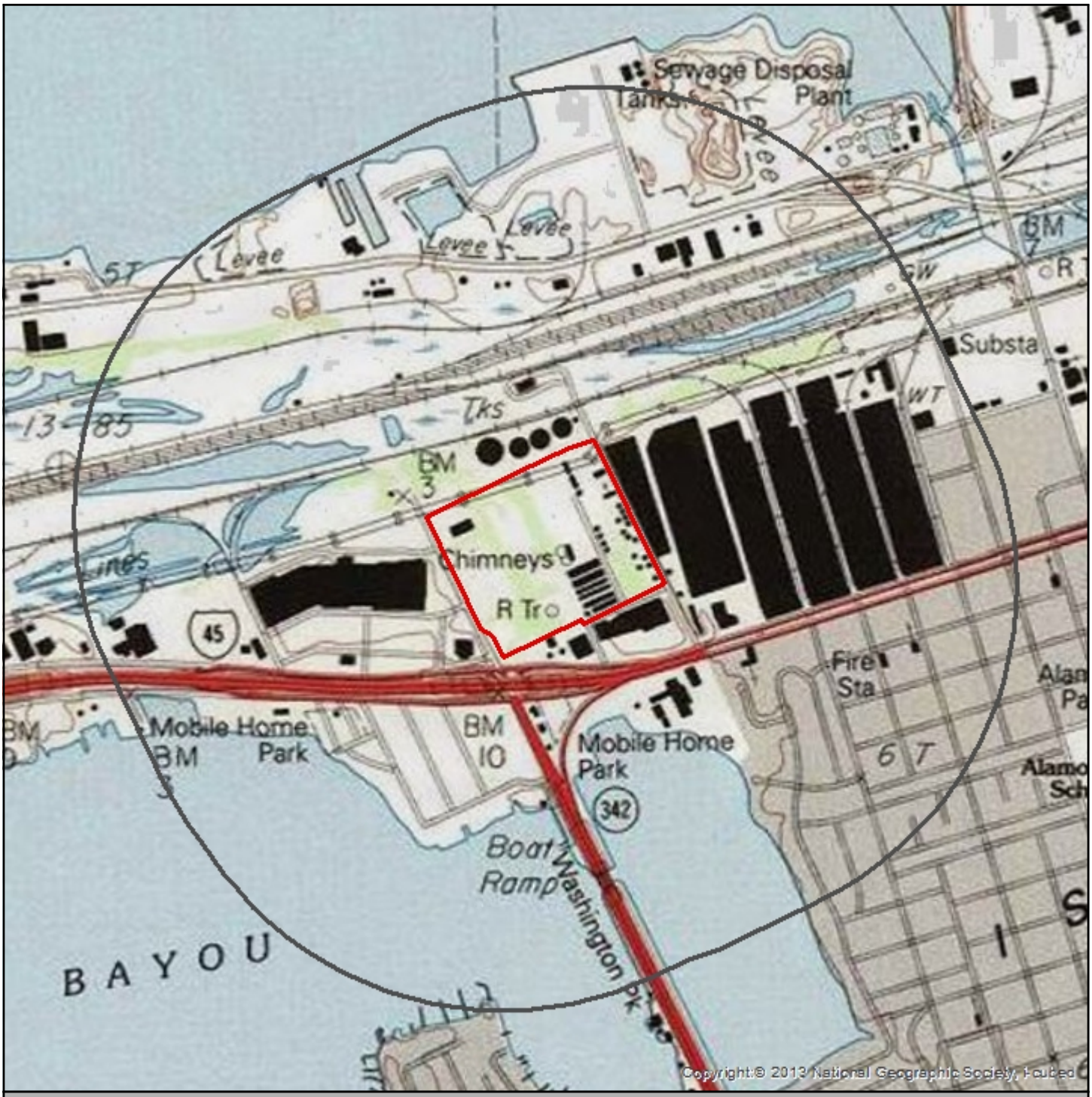
1 inch = 0.205 miles
1 inch = 1083 feet
1 centimeter = 0.130 kilometers
1 centimeter = 130 meters

N

Lambert Conformal Conic Projection
1983 North American Datum
First Standard Parallel: 33 0' 00" North
Second Standard Parallel: 45 0' 00" North
Central Meridian: 96 0' 00" West
Latitude of Origin: 39 0' 00" North

Banks Environmental Data, Inc. - 1601 Rio Grande, Ste. 500 - Austin, TX 78701 - 800.531.5255 P - 512.478.1433 F
www.banksenvdata.com

Topographic Overlay Map - 0.5 Mile Buffer



City of Galveston Former Incinerator Site

Well

Well Cluster

Target Property

Search Buffer

Target Property Quad Name(s)
Galveston (1977)

1 : 13,000

1 inch = 0.205 miles
1 inch = 1083 feet

Lambert Conformal Conic Projection
1983 North American Datum
First Standard Parallel: 33 0' 00" North
Second Standard Parallel: 45 0' 00" North
Central Meridian: 96 0' 00" West
Latitude of Origin: 39 0' 00" North

N

Banks Environmental Data, Inc. - 1601 Rio Grande, Ste. 500 - Austin, TX 78701 - 800.531.5255 P - 512.478.1433 F
www.banksenvdata.com

Current Imagery Overlay Map - 0.5 Mile Buffer

BANKS ENVIRONMENTAL DATA
A DIVISION OF THE BANKS GROUP

City of Galveston Former Incinerator Site

Well

Well Cluster

Target Property

Search Buffer

1 : 13,000

1 inch = 0.205 miles
1 inch = 1083 feet
1 centimeter = 0.130 kilometers
1 centimeter = 130 meters

N

Lambert Conformal Conic Projection
1983 North American Datum
First Standard Parallel: 33 0' 00" North
Second Standard Parallel: 45 0' 00" North
Central Meridian: 96 0' 00" West
Latitude of Origin: 39 0' 00" North

Banks Environmental Data, Inc. - 1601 Rio Grande, Ste. 500 - Austin, TX 78701 - 800.531.5255 P - 512.478.1433 F
www.banksenvdata.com

Water Well Details *City of Galveston Former Incinerator Site*

Banks Environmental Data performed a thorough search and no water wells were found.

Banks Environmental Data, Inc. - 1601 Rio Grande, Ste. 500 - Austin, TX 78701 - 800.531.5255 P - 512.478.1433 F
www.banksenvdata.com

Dataset Descriptions and Sources *City of Galveston Former Incinerator Site*

Dataset	Source	Dataset Description	Update Schedule	Data Requested	Data Obtained	Data Updated	Source Updated
TX HGSD - Texas HGSD	Harris Galveston Subsidence District/Fort Bend Subsidence District	This dataset contains all groundwater well records compiled by Harris Galveston Subsidence District/Fort Bend Subsidence District.	Quarterly	09/11/2015	10/01/2015	10/11/2015	10/01/2015
TX TCEQ HIST - Texas TCEQ Historical	Texas Commission on Environmental Quality	This dataset contains all historical water well records searched from the TCEQ Public Water Well Viewer. Banks Environmental Data plots each well record based on location information found on the log.	As requested	N/A	N/A	N/A	N/A
TX TCEQ PWS - Texas TCEQ PWS	Texas Commission on Environmental Quality	This dataset contains a collection of records from Texas Water Districts, Public Drinking Water Systems and Water and Sewer Utilities who submit information to the TCEQ.	Quarterly	09/11/2015	09/14/2015	10/11/2015	09/14/2015
TX TWDB GW - Texas TWDB Groundwater Database	Texas Water Development Board	This dataset contains water well records contained within Texas Water Development Board Groundwater Database.	Quarterly	07/07/2015	07/07/2015	07/11/2015	07/01/2015
TX TWDB WIID - Texas TWDB Submitted Drillers' Logs	Texas Water Development Board	This dataset contains water well records from the Texas Water Development Board Submitted Driller's Reports Database.	Quarterly	10/01/2015	10/01/2015	10/11/2015	10/01/2015
WW USGS - USGS Water Wells	U.S. Geological Survey	This dataset contains groundwater well records from the U.S. Geological Survey.	Quarterly	10/06/2015	10/06/2015	10/11/2015	10/06/2015

Banks Environmental Data, Inc. - 1601 Rio Grande, Ste. 500 - Austin, TX 78701 - 800.531.5255 P - 512.478.1433 F
www.banksenvdata.com

Disclaimer *City of Galveston Former Incinerator Site*

The Banks Environmental Data Water Well Report was prepared from existing state water well databases and/or additional file data/records research conducted at the state agency and the U.S. Geological Survey. Banks Environmental Data has performed a thorough and diligent search of all groundwater well information provided and recorded. All mapped locations are based on information obtained from the source. Although Banks performs quality assurance and quality control on all research projects, we recognize that any inaccuracies of the records and mapped well locations could possibly be traced to the appropriate regulatory authority or the actual driller. It may be possible that some water well schedules and logs have never been submitted to the regulatory authority by the water driller and, thus, may explain the possible unaccountability of privately drilled wells. It is uncertain if the above listing provides 100% of the existing wells within the area of review. Therefore, Banks Environmental Data cannot fully guarantee the accuracy of the data or well location(s) of those maps and records maintained by the regulatory authorities.

Banks Environmental Data, Inc. - 1601 Rio Grande, Ste. 500 - Austin, TX 78701 - 800.531.5255 P - 512.478.1433 F
www.banksenvdata.com

APPENDIX 6

MONITORING WELL RECORDS

[This appendix is not applicable.]

APPENDIX 7

AQUIFER TESTING DATA

[This appendix is not applicable.]

APPENDIX 8

STATISTICS DATA TABLES AND CALCULATIONS

[This appendix is not applicable.]

APPENDIX 9

DEVELOPMENT OF NON-DEFAULT RBELS AND PCLS

[This appendix is not applicable.]

APPENDIX 10

LABORATORY DATA PACKAGES AND DATA USABILITY SUMMARY

June 2015

City of Galveston Incineration Site Sampling Event – June 2015 Data Usability Summary

This Data Usability Summary (DUS) contains the results of the data review for the analyses of samples collected by AECOM at the City of Galveston Incineration Site from June 23 through 25, 2015. These samples were analyzed by DHL Analytical, Inc. (DHL) in Austin, Texas and Eurofins Lancaster (Lancaster) in Lancaster, Pennsylvania for the analytical methods specified on the chain-of-custody (C-O-C) documentation. Table 1 presents the analyses requested and a cross-reference of field sample identifications (IDs) and laboratory IDs.

The purpose of this sampling event is to delineate the contamination laterally and vertically of the constituents of concern in soil and groundwater.

Sample identification, dates sampled, matrices, and methods used for analyses are provided in Table 1. Samples were evaluated against the Texas Commission on Environmental Quality (TCEQ) *Review and Reporting of COC Concentration Data under TRRP* [Texas Risk Reduction Program], (RG-366/TRRP-13, May 2010) guidelines for data usability for the methods listed in this table.

The following laboratory submittals were examined:

- Laboratory reports;
- TRRP-13 Laboratory Review Checklists (LRCs); and
- TRRP-13 Exception Reports (ERs).

The analytical results and data qualifier definitions are presented in Attachment A. LRCs and ERs checklists are presented in Attachment B.

Table 1. Sample Distribution

Sample Identification	Laboratory Identification	Date Sampled	Metals SW-846 6020A	Mercury SW-846 7470A/ 7471B	VOCs SW-846 8260C	SVOCs SW-846 8270D	PCBs SW-846 8270D	PAHs SW-846 8270D SIM	Dioxins/Furans SW-846 8290A	TPH TX1005
Soils										
INC-SB01-010	1506310-20	6/25/2015	1	1	1	1	1	--	--	--
	7947198		--	--	--	--	--	--	2	--
INC-SB01-011	1506310-21	6/25/2015	1	1	1	1	1	--	--	--
	7947199		--	--	--	--	--	--	2	--
INC-SB01-020	1506310-22	6/25/2015	1	1	1	1	1	--	--	--
	7947200		--	--	--	--	--	--	2	--
INC-SB02-010	1506310-25	6/25/2015	1	1	1	1	1	--	--	--
	7947203		--	--	--	--	--	--	2	--
INC-SB02-020	1506310-26	6/25/2015	1	1	1	1	1	--	--	--
	7947204		--	--	--	--	--	--	2	--
INC-SB03-013	1506310-27	6/25/2015	1	1	1	1	1	--	--	--
	7947205		--	--	--	--	--	--	2	--
INC-SB03-020	1506310-28	6/25/2015	1	1	1	1	1	--	--	--
	7947208		--	--	--	--	--	--	2	--
INC-SB04-010	1506310-23	6/25/2015	1	1	1	1	1	--	--	--
	7947201		--	--	--	--	--	--	2	--
INC-SB04-020	1506310-24	6/25/2015	1	1	1	1	1	--	--	--
	7947202		--	--	--	--	--	--	2	--
INC-SB05-010	1506310-17	6/25/2015	1	1	1	1	1	--	--	--
	7947195		--	--	--	--	--	--	2	--
INC-SB05-020	1506310-18	6/25/2015	1	1	1	1	1	--	--	--
	7947196		--	--	--	--	--	--	2	--
INC-SB05-021	1506310-19	6/25/2015	1	1	1	1	1	--	--	--
	7947197		--	--	--	--	--	--	2	--
INC-SB06-010	1506310-10	6/24/2015	1	1	1	1	1	--	--	--
	7944101		--	--	--	--	--	--	2	--
INC-SB06-020	1506310-11	6/24/2015	1	1	1	1	1	--	--	--
	7944102		--	--	--	--	--	--	2	--
INC-SB07-010	1506310-08	6/24/2015	1	1	1	1	1	--	--	--
	7944099		--	--	--	--	--	--	2	--

Table 1. Sample Distribution (Continued)

Sample Identification	Laboratory Identification	Date Sampled	Metals SW-846 6020A	Mercury SW-846 7470A/ 7471B	VOCs SW-846 8260C	SVOCs SW-846 8270D	PCBs SW-846 8270D	PAHs SW-846 8270D SIM	Dioxins/Furans SW-846 8290A	TPH TX1005
Soils (Continued)										
INC-SB07-020	1506310-09	6/24/2015	1	1	1	1	1	--	--	--
	7944100		--	--	--	--	--	--	2	--
INC-SB08-010	1506310-06	6/24/2015	1	1	1	1	1	--	--	--
	7944097		--	--	--	--	--	--	2	--
INC-SB08-020	1506310-07	6/24/2015	1	1	1	1	1	--	--	--
	7944098		--	--	--	--	--	--	2	--
INC-SB09-010	1506310-34	6/25/2015	1	1	1	1	1	--	--	1
	7947211		--	--	--	--	--	--	2	--
INC-SB09-020	1506310-35	6/25/2015	1	1	1	1	1	--	--	1
	7947212		--	--	--	--	--	--	2	--
INC-SB10-010	1506310-32	6/25/2015	1	1	1	1	1	--	--	1
	7947209		--	--	--	--	--	--	2	--
INC-SB10-020	1506310-33	6/25/2015	1	1	1	1	1	--	--	1
	7947210		--	--	--	--	--	--	2	--
INC-SB11-010	1506293-10	6/23/2015	1	1	--	--	--	1	--	--
INC-SB11-011	1506293-11	6/23/2015	1	1	--	--	--	1	--	--
INC-SB11-020	1506293-12	6/23/2015	1	1	--	--	--	1	--	--
INC-SB12-010	1506293-13	6/23/2015	1	1	--	--	--	1	--	--
INC-SB12-020	1506293-14	6/23/2015	1	1	--	--	--	1	--	--
INC-SB13-010	1506293-21	6/23/2015	1	1	--	--	--	1	--	--
INC-SB13-020	1506293-22	6/23/2015	1	1	--	--	--	1	--	--
INC-SB14-013	1506310-01	6/24/2015	1	1	--	--	--	1	--	--
INC-SB14-020	1506310-02	6/24/2015	1	1	--	--	--	1	--	--
INC-SB15-010	1506310-03	6/24/2015	1	1	--	--	--	1	--	--
INC-SB15-020	1506310-04	6/24/2015	1	1	--	--	--	1	--	--
INC-SB15-021	1506310-05	6/24/2015	1	1	--	--	--	1	--	--
INC-SB16-010	1506293-17	6/23/2015	1	1	--	--	--	1	--	--
INC-SB16-020	1506293-18	6/23/2015	1	1	--	--	--	1	--	--
INC-SB17-010	1506293-19	6/23/2015	1	1	--	--	--	1	--	--
INC-SB17-020	1506293-20	6/23/2015	1	1	--	--	--	1	--	--
INC-SB18-010	1506293-03	6/23/2015	1	1	--	--	--	1	--	--

Table 1. Sample Distribution (Continued)

Sample Identification	Laboratory Identification	Date Sampled	Metals SW-846 6020A	Mercury SW-846 7470A/ 7471B	VOCs SW-846 8260C	SVOCs SW-846 8270D	PCBs SW-846 8270D	PAHs SW-846 8270D SIM	Dioxins/Furans SW-846 8290A	TPH TX1005
Soils (Continued)										
INC-SB18-023	1506293-05	6/23/2015	1	1	--	--	--	1	--	--
INC-SB19-010	1506293-02	6/23/2015	1	1	--	--	--	1	--	--
INC-SB19-020	1506293-01	6/23/2015	1	1	--	--	--	1	--	--
INC-SB20-010	1506293-04	6/23/2015	1	1	--	--	--	1	--	--
INC-SB20-011	1506293-06	6/23/2015	1	1	--	--	--	1	--	--
INC-SB20-020	1506293-07	6/23/2015	1	1	--	--	--	1	--	--
INC-SB22-010	1506293-08	6/23/2015	1	1	--	--	--	1	--	--
INC-SB22-020	1506293-09	6/23/2015	1	1	--	--	--	1	--	--
INC-SB24-010	1506310-29	6/25/2015	1	1	--	--	--	1	--	--
	7948391		--	--	--	--	--	--	2	--
INC-SB24-020	1506310-31	6/25/2015	1	1	--	--	--	1	--	--
	7948392		--	--	--	--	--	--	2	--
INC-SB27-010	1506293-15	6/23/2015	1	1	--	--	--	1	--	--
INC-SB27-020	1506293-16	6/23/2015	1	1	--	--	--	1	--	--
Groundwaters										
INC-MW01-010	1506310-14	6/24/2015	1	1	--	--	1	--	--	--
	7947194		--	--	--	--	--	--	2	--
INC-MW01-011	1506310-15	6/24/2015	1	1	--	--	1	--	--	--
	7946013		--	--	--	--	--	--	2	--
INC-MW03-013	1506310-16	6/24/2015	1	1	--	--	1	--	--	--
	7946014		--	--	--	--	--	--	2	--
INC-MW07-010	1506310-13	6/24/2015	1	1	--	--	1	--	--	--
	7944104		--	--	--	--	--	--	2	--
Equipment Blanks										
INC-SB06-015	1506310-12	6/24/2015	1	1	1	1	--	--	--	--
	7944103		--	--	--	--	--	--	2	--
INC-SB09-015	1506310-36	6/25/2015	1	1	1	1	1	--	--	--
	7947213		--	--	--	--	--	--	2	--
INC-SB24-015	1506310-30	6/25/2015	1	1	--	--	--	1	--	--

Table 1. Sample Distribution (Continued)

Sample Identification	Laboratory Identification	Date Sampled	Metals SW-846 6020A	Mercury SW-846 7470A/ 7471B	VOCs SW-846 8260C	SVOCs SW-846 8270D	PCBs SW-846 8270D	PAHs SW-846 8270D SIM	Dioxins/Furans SW-846 8290A	TPH TX1005
Trip Blanks										
INC-TB01-0615 [1635]	1506310-37	6/25/2015	--	--	1	--	--	--	--	--
INC-TB01-0615 [1640]	1506310-38	6/25/2015	--	--	1	--	--	--	--	--

1 - Analyzed by DHL Analytical, Inc. in Round Rock, Texas.
2 - Analyzed by Eurofins Lancaster in Lancaster, Pennsylvania.
-- Sample not analyzed for the indicated parameter.

ID - Identification.
PAH - Polychlorinated aromatic hydrocarbon.
PCB - Polychlorinated biphenyl.
SIM - Selective ion monitoring.
SVOC - Semivolatile organic compound.
SW-846 - Test Methods for Evaluation of Solid Waste: Physical/Chemical Methods, EPA, Office of Solid Waste and Emergency Response, December 1996, Revision 3 and subsequent revisions.
TCEQ - Texas Commission on Environmental Quality.
TPH - Total petroleum hydrocarbons.
TX - TCEQ method.
VOC - Volatile organic compound.

Note - The “1” designation at the end of the sample ID means the sample is a field duplicate of the associated “0” ending sample that precedes it. The “3” designation at the end of the sample ID means the sample is a client-specified parent sample for matrix spike/matrix spike duplicate analysis. The “5” designation at the end of the sample ID means the sample is an equipment blank.

Analytical results were evaluated in accordance with TRRP-13. The results indicate that most of the data are acceptable and usable. The not detected results for anthracene in sample INC-SB03-020 and anthracene and indeno(1,2,3-cd)pyrene in sample INC-SB09-020 were rejected due to MS/MSD recoveries below 10%. Some samples were diluted due to matrix interferences or high concentrations of target compounds, which resulted in elevated sample detection limits (SDLs) and method quantitation limits (MQLs).

Sample results that were reported between the SDLs and MQLs were qualified with "J" as estimated. Note that the DHL cites the reporting limit while Lancaster cites method report limit, which are the lowest standards used in the calibration curves and are therefore the equivalent to the MQLs. Lancaster also cites estimated detection limit, which is the equivalent to the SDL. The laboratory qualified data using statistically-derived control limits, which were also used for data review and validation. Samples that required further qualification or anomalies are discussed in this DUS. Only quality control (QC) results associated with field samples are discussed in the text. QC samples only associated with other QC samples (such as laboratory control samples [LCSs] for trip blanks) are not discussed.

Laboratory Certification

AECOM asserts that at the time the laboratory data were generated for this project, DHL and Lancaster were National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (TLAP) for the matrices, methods, and parameters prescribed in this report with the following exceptions:

- Cyclohexane by EPA SW-846 Method 8260C; and
- Benzaldehyde by EPA SW-846 Method 8270D.

The TLAP does not currently offer accreditation for these compounds by these methods in this matrix; therefore, these compounds are exempt from accreditation under 30 Texas Administrative Code (TAC) §25.6. As a result, all cyclohexane and benzaldehyde results were qualified with "X7." The applicable NELAP certifications are:

- DHL - T104704211-15-14, effective May 1, 2015 through April 30, 2016; and
- Lancaster - T104704194-14-19, effective December 29, 2014 through August 31, 2015.

Metals by EPA SW-846 Method 6020A

Samples were analyzed for arsenic, barium, cadmium, chromium, lead, selenium, and silver by United States Environmental Protection Agency (EPA) SW-846 Method 6020A. The QC requirements that were evaluated included holding times, detection limits, calibrations, blanks, LCS/laboratory control sample duplicate (LCSD) results, matrix spike/matrix spike duplicate

(MS/MSD) results, duplicates, serial dilutions, post digestion spikes, interference check samples, and internal standards. The QC results indicate that the reported data are usable for the intended purposes. Samples that required qualification or analytical anomalies are discussed below.

Blanks

Lead was detected in three method blanks (MBs). The results for lead in the associated samples were greater than five times the concentration in the MBs; therefore, no results were qualified due to similarity to MB concentrations.

Barium and lead were detected in one equipment blank (EB). The results for barium and lead in the associated samples were greater than five times the concentrations in the EBs; therefore, no results were qualified due to similarity to EB concentrations.

Matrix Spikes

Results were qualified if the average of the MS and MSD recoveries or the MS/MSD relative percent difference (RPD) were outside of the laboratory acceptance criteria for client samples in the same preparation batch as the client parent sample. Results were not evaluated if the MS/MSD spike concentrations were less than four times the concentrations in the unspiked parent sample. The MS/MSD results were not evaluated then since the spiked concentrations were insignificant and may not have represented the matrix effect. Metal results qualified due to MS/MSD recoveries or MS/MSD variability are presented in Table 2.

Table 2. Metal Results Qualified Due to MS/MSD Recoveries or MS/MSD Variability

Sample Identification	Analyte	Qualifier/Result	Reason
Soils			
INC-SB11-010 INC-SB11-011 INC-SB18-010 INC-SB18-023 INC-SB19-010 INC-SB19-020 INC-SB20-010 INC-SB20-011 INC-SB20-020 INC-SB22-010 INC-SB22-020	Chromium, total	JH (Detects)	Average MS/MSD recovery > UCL
INC-SB01-010 INC-SB01-011 INC-SB01-020 INC-SB02-010 INC-SB02-020 INC-SB03-013 INC-SB03-020 INC-SB04-010 INC-SB04-020 INC-SB05-010 INC-SB05-020	Arsenic	J (Detects)	MS/MSD RPD > CL

Table 2. Metal Results Qualified Due to MS/MSD Recoveries or MS/MSD Variability (Continued)

Sample Identification	Analyte	Qualifier/Result	Reason
Soils (Continued)			
INC-SB05-021 INC-SB06-010 INC-SB06-020 INC-SB09-010 INC-SB10-010 INC-SB10-020 INC-SB24-010 INC-SB24-020	Arsenic	J (Detects)	MS/MSD RPD > CL

CL - Control limit.
J - Estimated.
JH - Estimated/biased high.
MS/MSD - Matrix spike/matrix spike duplicate.
RPD - Relative percent difference.
UCL - Upper control limit.

Field Duplicates

Field duplicate results were evaluated using the acceptance criteria as specified in TRRP-13. When both the sample and field duplicate sample results are greater than five times the lower MQL and the RPD is greater than 30% (waters) or 50% (soils), then the parent and field duplicate sample results are qualified due to field duplicate variability. When one of the results for the field duplicate pair are less than five times the lower MQL and both of the results are greater than two times the higher MQL (waters) or three times the higher MQL (soils), then the results are qualified due to field duplicate variability. Metal results qualified due to field duplicate variability are presented in Table 3.

Table 3. Metal Results Qualified Due to Field Duplicate Variability

Sample Identification	Analyte	Qualifier/Result	Reason
Soils			
INC-SB05-020	Barium	J (Detects)	Field duplicate results did not meet acceptance criteria
INC-SB05-021			
INC-SB15-020			
INC-SB15-021			
INC-SB11-010	Lead		
INC-SB11-011			

J - Estimated.

Post Digestion Spikes

The post digestion spike recovery for lead could not be evaluated for parent sample INC-SB18-023 since the spike concentration was less than four times the concentration in the unspiked parent sample.

Mercury by EPA SW-846 Method 7470A/7471B

Samples were analyzed for mercury by EPA SW-846 Methods 7470A (waters)/7471A (soils). The QC requirements that were evaluated included holding times, detection limits, calibrations, blanks, LCS/LCSD results, MS/MSD results, duplicates, serial dilutions, and post digestion spikes. The QC results indicate that the reported data are usable for the intended purposes. There were no analytical anomalies and no results were qualified.

Volatile Organic Compounds by EPA SW-846 Method 8260C

Samples were analyzed for volatile organic compounds (VOCs) by EPA SW-846 Method 8260C. The QC requirements that were evaluated included sample receipt conditions, holding times, detection limits, calibrations, internal standards, blanks, LCS results, MS/MSD results, field duplicate samples, surrogate spike results, and site-specific screening criteria. The QC results indicate that the data are usable for the intended purposes. Samples that required qualification or analytical anomalies are discussed below.

Calibrations

Some continuing calibration verification (CCV) standards were recovered outside of the laboratory acceptance criteria. VOC results qualified due to CCV exceedances are included in Table 4.

Table 4. VOC Results Qualified Due to CCV Exceedances

Sample Identification	Analyte	Qualifier/Result	Reason
Soils			
INC-SB09-020	Toluene	JH (Detects)	CCV recovery > acceptance criteria
INC-SB01-010 INC-SB01-011 INC-SB01-020 INC-SB05-020 INC-SB05-021	1,1,2-Trichlorotrifluoroethane Hexachlorobutadiene	JL (Detects)/ UJL (Nondetects)	CCV recovery < acceptance criteria
INC-SB02-010 INC-SB02-020 INC-SB03-020 INC-SB04-010 INC-SB04-020 INC-SB09-020 INC-SB10-010 INC-SB10-020	1,1,2-Trichlorotrifluoroethane 1,2,3-Trichloropropane		

Table 4. VOC Results Qualified Due to CCV Exceedances (Continued)

Sample Identification	Analyte	Qualifier/Result	Reason
Soils (Continued)			
INC-SB03-013 INC-SB05-010 INC-SB06-010 INC-SB06-020 INC-SB07-010 INC-SB07-020 INC-SB08-010 INC-SB08-020	1,1,2-Trichlorotrifluoroethane 1,2,3-Trichloropropane Bromomethane Hexachlorobutadiene Methyl t-butyl ether Naphthalene Styrene	JL (Detects)/ UJL (Nondetects)	CCV recovery < acceptance criteria
INC-SB09-010	1,1,2-Trichlorotrifluoroethane Dichlorodifluoromethane		
Groundwaters			
INC-MW01-010 INC-MW01-011 INC-MW03-013 INC-MW07-010	1,1,2-Trichlorotrifluoroethane	JL (Detects)/ UJL (Nondetects)	CCV recovery < acceptance criteria

CCV - Continuing calibration verification.
JH - Estimated/biased high.
UJL - Not detected/estimated/biased low.
VOC - Volatile organic compound.

Matrix Spikes

Results were qualified if the average of the MS and MSD recoveries or the MS/MSD RPD were outside of the laboratory acceptance criteria for client samples in the same preparation batch as the client parent sample. Results were not evaluated if the MS/MSD spike concentrations were less than four times the concentrations in the unspiked parent sample. The MS/MSD results were not evaluated then since the spiked concentrations were insignificant and may not have represented the matrix effect. VOC results qualified due to MS/MSD recoveries are presented in Table 5. Results already qualified due to CCV recoveries are not included in this table.

Table 5. VOC Results Qualified Due to MS/MSD Recoveries

Sample Identification	Analyte	Qualifier/Result	Reason
Soils			
INC-SB01-010 INC-SB01-011 INC-SB01-020 INC-SB05-020 INC-SB05-021	1,1,1,2-Tetrachloroethane 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dichlorobenzene 1,3,5-Trimethylbenzene 1,3-Dichlorobenzene 1,3-Dichloropropane 1,4-Dichlorobenzene 1-Chlorohexane 2-Chlorotoluene 4-Chlorotoluene Bromobenzene Chlorobenzene Ethylbenzene Isopropylbenzene	JL (Detects)/ UJL (Nondetects)	Average MS/MSD recovery < LCL but ≥ 10%
INC-SB01-010 INC-SB01-011 INC-SB01-020 INC-SB05-020 INC-SB05-021	m & p-Xylene Naphthalene n-Butylbenzene n-Propylbenzene o-Xylene p-Isopropyltoluene sec-Butylbenzene Styrene tert-Butylbenzene Tetrachloroethene		
INC-SB03-013 INC-SB05-010 INC-SB06-010 INC-SB06-020 INC-SB07-010 INC-SB07-020 INC-SB08-010 INC-SB08-020	1,1,1,2-Tetrachloroethane 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dichlorobenzene 1,3,5-Trimethylbenzene 1,3-Dichlorobenzene 1,3-Dichloropropane 1,4-Dichlorobenzene 1-Chlorohexane 2-Chlorotoluene 4-Chlorotoluene Bromobenzene Chlorobenzene Ethylbenzene Isopropylbenzene m & p-Xylene n-Butylbenzene n-Propylbenzene o-Xylene p-Isopropyltoluene sec-Butylbenzene tert-Butylbenzene Tetrachloroethene		

JL - Estimated/biased low.
LCL - Lower control limit.
MS/MSD - Matrix spike/matrix spike duplicate.
UJL - Not detected/estimated/biased low.
VOC - Volatile organic compound.

Surrogates

Four surrogates were added to each sample. Results were qualified if two or more surrogates exceeded the laboratory acceptance criteria.

The recoveries for one surrogate in two samples were outside of the laboratory acceptance criteria. The recoveries for the other three surrogates in each of these samples were within acceptance criteria; therefore, no results were qualified.

Semivolatile Organic Compounds by EPA SW-846 Method 8270D

Samples were analyzed for semivolatile organic compounds (SVOCs) by EPA SW-846 Method 8270D. The QC requirements that were evaluated included sample receipt conditions, holding times, detection limits, calibrations, internal standards, field duplicates, blanks, LCS results, MS/MSD results, and surrogate spike results. The QC results indicate that most of the reported data are usable for the intended purposes. The not detected results for anthracene in sample INC-SB03-020 and anthracene and indeno(1,2,3-cd)pyrene in sample INC-SB09-020 were rejected due to MS/MSD recoveries below 10%. Samples that required qualification or analytical anomalies are discussed below.

Calibrations

Some CCV standards were recovered outside of the laboratory acceptance criteria. SVOC results qualified due to CCV exceedances are presented in Table 6.

Table 6. SVOC Results Qualified Due to CCV Exceedances

Sample Identification	Analyte	Qualifier/Result	Reason
Soils			
INC-SB04-010	Hexachlorocyclopentadiene	JL (Detects)/ UJL (Nondetects)	CCV recovery < acceptance criteria
INC-SB04-010 INC-SB05-010 INC-SB05-020 INC-SB05-021 INC-SB06-010 INC-SB06-020 INC-SB07-010 INC-SB07-020 INC-SB08-010 INC-SB08-020	Benzo(g,h,i)perylene Pyrene		
Groundwaters			
INC-MW01-010 INC-MW01-011 INC-MW03-013 INC-MW07-010	2,4-Dinitrophenol Pentachlorophenol	UJL (Nondetects)	CCV recovery < acceptance criteria

CCV - Continuing calibration verification.
SVOC - Semivolatile organic compound.
UJL - Not detected/estimated/biased low.

Blanks

Benzaldehyde was detected in one equipment blank (EB). Benzaldehyde was not detected in the associated samples; therefore, no results were qualified due to similarity to EB concentrations.

Laboratory Control Samples

Benzyl alcohol was recovered above the laboratory acceptance criteria in one LCS. Benzyl alcohol was not detected in the associated samples; therefore, no results were qualified due to this possible high bias.

Matrix Spikes

Results were qualified if the average of the MS and MSD recoveries or the MS/MSD RPD were outside of the laboratory acceptance criteria for client samples in the same preparation batch as the client parent sample. Results were not evaluated if the MS/MSD spike concentrations were less than four times the concentrations in the unspiked parent sample. The MS/MSD results were not evaluated then since the spiked concentrations were insignificant and may not have represented the matrix effect. SVOC results qualified due to MS/MSD recoveries or MS/MSD variability are presented in Table 7. Results already qualified due to CCV recoveries are not included in this table.

Table 7. SVOC Results Qualified Due to MS/MSD Recoveries or MS/MSD Variability

Sample Identification	Analyte	Qualifier/Result	Reason
Soils			
INC-SB02-020 INC-SB03-013 INC-SB03-020 INC-SB09-010 INC-SB09-020 INC-SB10-010 INC-SB10-020	2,4-Dinitrophenol Acenaphthene Carbazole Dibenz(a,h)anthracene Dibenzofuran Fluorene Naphthalene	JL (Detects)/ UJL (Nondetects)	Average MS/MSD recovery < LCL but ≥ 10%
INC-SB02-020 INC-SB03-013 INC-SB03-020 INC-SB09-010 INC-SB09-020 INC-SB10-010 INC-SB10-020	Anthracene Benzo(g,h,i)perylene Indeno(1,2,3-cd)pyrene	JL (Detects)/ R (Nondetects)	Average MS/MSD recovery < LCL and < 10%
INC-SB02-020 INC-SB03-013 INC-SB03-020 INC-SB09-010 INC-SB09-020 INC-SB10-010 INC-SB10-020	3,3'-Dichlorobenzidine Benzoic acid	J (Detects)/ UJ (Nondetects)	MS/MSD RPD > CL

Table 7. SVOC Results Qualified Due to MS/MSD Recoveries or MS/MSD Variability (Continued)

Sample Identification	Analyte	Qualifier/Result	Reason
Groundwaters			
INC-MW01-010 INC-MW01-011 INC-MW03-013 INC-MW07-010	3,3'-Dichlorobenzidine	UJL (Nondetects)	Average MS/MSD recovery < LCL but ≥ 10%
INC-MW01-010 INC-MW01-011 INC-MW03-013 INC-MW07-010	Fluoranthene	UJ (Nondetects)	MS/MSD RPD > CL

CL - Control limit.
J - Estimated.
JL - Estimated/biased low.
LCL - Lower control limit.
MS/MSD - Matrix spike/matrix spike duplicate.
R - Rejected
RPD - Relative percent difference.
SVOC - Semivolatile organic compound.
UJ - Not detected/estimated.
UJL - Not detected/estimated/biased low.

Field Duplicates

Field duplicate results were evaluated using the acceptance criteria as specified in TRRP-13. When both the sample and field duplicate sample results are greater than five times the lower MQL and the RPD is greater than 30% (waters) or 50% (soils), then the parent and field duplicate sample results are qualified due to field duplicate variability. When one of the results for the field duplicate pair are less than five times the lower MQL and both of the results are greater than two times the higher MQL (waters) or three times the higher MQL (soils), then the results are qualified due to field duplicate variability. SVOC results qualified due to field duplicate variability are presented in Table 8. Results already qualified due to CCV or MS recoveries are not included in this table.

Table 8. SVOC Results Qualified Due to Field Duplicate Variability

Sample Identification	Analyte	Qualifier/Result	Reason
Soils			
INC-SB05-020	Benzo(a)pyrene Fluoranthene	J (Detects)	Field duplicate results did not meet acceptance criteria
INC-SB05-021	Benzo(a)pyrene Chrysene Fluoranthene		

J - Estimated
SVOC - Semivolatile organic compound.

Polychlorinated Biphenyls by EPA SW-846 Method 8270D

Samples were analyzed for polychlorinated biphenyls (PCBs) by EPA SW-846 Method 8270D. The QC requirements that were evaluated included sample receipt conditions, holding times, detection limits, calibrations, internal standards, blanks, field duplicates, LCS results, MS/MSD results, and surrogate spike results. The QC results indicate that all of the reported data are

usable for the intended purposes. Samples that required qualification or analytical anomalies are discussed below.

Surrogates

Two surrogates were added to each sample. Results were qualified if both surrogates exceeded the laboratory acceptance criteria.

The recoveries for one surrogate in five samples were outside of the laboratory acceptance criteria. The recoveries for the other surrogate in each of these samples were within acceptance criteria; therefore, no results were qualified. Both surrogates were recovered about the acceptance criteria in one sample. PCBs were not detected in this sample; therefore, no results were qualified due to this possible high bias.

Polynuclear Aromatic Hydrocarbons by EPA SW-846 Method 8270D SIM

Samples were analyzed for polynuclear aromatic hydrocarbons (PAHs) by EPA SW-846 Method 8270D SIM. The QC requirements that were evaluated included sample receipt conditions, holding times, detection limits, calibrations, internal standards, field duplicates, blanks, LCS results, MS/MSD results, and surrogate spike results. The QC results indicate that all of the reported data are usable for the intended purposes. Samples that required qualification or analytical anomalies are discussed below.

Laboratory Control Samples

The recoveries for seven PAHs were recovered above the laboratory acceptance criteria in one LCS. PAH results qualified due to LCS recoveries are presented in Table 9.

Table 9. PAH Results Qualified Due to LCS Recoveries

Sample Identification	Analyte	Qualifier/Result	Reason
Soils			
INC-SB11-010 INC-SB11-020 INC-SB12-010 INC-SB12-020 INC-SB16-010 INC-SB16-020 INC-SB20-011 INC-SB20-020 INC-SB27-010 INC-SB27-020	Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene Fluoranthene Indeno(1,2,3-cd)pyrene Pyrene	JH (Detects)	LCS recovery > acceptance criteria

Table 9. PAH Results Qualified Due to LCS Recoveries (Continued)

Sample Identification	Analyte	Qualifier/Result	Reason
Soils (Continued)			
INC-SB11-011	Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene Fluoranthene Pyrene	JH (Detects)	LCS recovery > acceptance criteria
INC-SB17-010 INC-SB17-020 INC-SB18-010 INC-SB18-023 INC-SB19-010 INC-SB19-020 INC-SB20-010 INC-SB22-010 INC-SB22-020	Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene Pyrene		

JH - Estimated/biased high.
LCS - Laboratory control sample.
PAH - Polynuclear aromatic hydrocarbon.

Matrix Spikes

Results were qualified if the average of the MS and MSD recoveries or the MS/MSD relative percent difference (RPD) were outside of the laboratory acceptance criteria for client samples in the same preparation batch as the client parent sample. Results were not evaluated if the MS/MSD spike concentrations were less than four times the concentrations in the unspiked parent sample. The MS/MSD results were not evaluated then since the spiked concentrations were insignificant and may not have represented the matrix effect. PAH results qualified due to MS/MSD recoveries or MS/MSD variability are presented in Table 10. Results already qualified due to LCS recoveries are not included in this table.

Table 10. PAH Results Qualified Due to MS/MSD Recoveries or MS/MSD Variability

Sample Identification	Analyte	Qualifier/Result	Reason
Soils			
INC-SB11-010 INC-SB12-020	Benzo(a)pyrene Benzo(k)fluoranthene Chrysene Phenanthrene	JH (Detects)	Average MS/MSD recovery > UCL
INC-SB11-011	Anthracene Benzo(a)pyrene Chrysene Phenanthrene		

Table 10. PAH Results Qualified Due to MS/MSD Recoveries or MS/MSD Variability (Continued)

Sample Identification	Analyte	Qualifier/Result	Reason
Soils			
INC-SB11-020 INC-SB16-010 INC-SB16-020 INC-SB17-010 INC-SB17-020 INC-SB18-010 INC-SB18-023 INC-SB19-010 INC-SB19-020 INC-SB20-010 INC-SB20-011 INC-SB20-020 INC-SB22-010 INC-SB22-020 INC-SB27-010 INC-SB27-020	Anthracene Benzo(a)pyrene Benzo(k)fluoranthene Chrysene Phenanthrene	JH (Detects)	Average MS/MSD recovery > UCL
INC-SB12-010	Benzo(a)pyrene Chrysene Phenanthrene		
INC-SB13-010 INC-SB13-020 INC-SB14-013 INC-SB14-020 INC-SB15-010 INC-SB15-020 INC-SB15-021 INC-SB24-010 INC-SB24-020	Benzo(g,h,i)perylene Fluoranthene	JL (Detects)/ UJL (Nondetects)	Average MS/MSD recovery < LCL but > 10%
INC-SB11-010 INC-SB11-011 INC-SB11-020 INC-SB12-010 INC-SB12-020 INC-SB16-010 INC-SB16-020 INC-SB17-010 INC-SB17-020 INC-SB18-010 INC-SB18-023 INC-SB19-010 INC-SB19-020 INC-SB20-010 INC-SB20-011 INC-SB20-020 INC-SB22-010 INC-SB22-020 INC-SB27-010 INC-SB27-020	Dibenz(a,h)anthracene Naphthalene	J (Detects)/ UJ (Nondetects)	MS/MSD RPD > CL

CL - Control limit.
J - Estimated.
JH - Estimated/biased high.
JL - Estimated/biased low.
LCL - Lower control limit.
MS/MSD - Matrix spike/matrix spike duplicate.
PAH - Polynuclear aromatic hydrocarbon.
RPD - Relative percent difference.
UJL - Not detected/estimated/biased low.

Dioxins/Furans by EPA Method SW8290A

Samples were analyzed for dioxins and furans by EPA SW-846 Method 8290A. The QC requirements that were evaluated included holding times, detection limits, calibrations, internal standards, field duplicates, blanks, LCS results, MS/MSD results, and recovery spike results. Samples that required qualification or analytical anomalies are discussed below.

Blanks

Dioxins and furans were detected in the MBs and equipment blanks (EBs). Results in some samples in the associated samples were greater than five times the concentrations in the blanks; therefore, these results were not qualified due to similarity to MB or EB concentrations. Dioxins and furans results qualified due to similarity to MB or EB concentrations are presented in Table 11.

Table 11. Dioxin/Furan Results Qualified Due to Similarity to Blank Concentrations

Sample Identification	Analyte	Result (ng/kg)	Qualifier	Reason
Soils				
INC-SB04-020	1,2,3,4,6,7,8-HpCDD	1.75	U	Within 5x of MB
	1,2,3,4,7,8,9-HpCDF	0.301		
	1,2,3,7,8,9-HxCDD	0.201		
	1,2,3,7,8,9-HxCDF	1.06		
	2,3,4,6,7,8-HxCDF	0.239		
	OCDF	0.782		
INC-SB01-010	1,2,3,4,7,8-HxCDF	2.10		Within 5x of EB
	1,2,3,6,7,8-HxCDD	8.81		
	1,2,3,7,8,9-HxCDD	6.60		
	OCDD	561		
INC-SB01-011	1,2,3,4,7,8-HxCDF	2.02		
	1,2,3,6,7,8-HxCDD	11.9		
	1,2,3,7,8,9-HxCDD	8.24		
	OCDD	765		
INC-SB01-020	1,2,3,4,7,8-HxCDF	18.3		
	1,2,3,6,7,8-HxCDD	41.6		
	1,2,3,7,8,9-HxCDD	25.9		
	OCDD	732		
INC-SB02-010	1,2,3,4,7,8-HxCDF	5.64		
	1,2,3,6,7,8-HxCDD	13.8		
	1,2,3,7,8,9-HxCDD	9.92		
	OCDD	1440		
INC-SB02-020	1,2,3,4,7,8-HxCDF	13.5		
	1,2,3,6,7,8-HxCDD	18.6		
	1,2,3,7,8,9-HxCDD	14.0		
INC-SB03-013	1,2,3,4,7,8-HxCDF	8.01		
	1,2,3,6,7,8-HxCDD	12.5		
	1,2,3,7,8,9-HxCDD	9.35		
	OCDD	1020		

Table 11. Dioxin/Furan Results Qualified Due to Similarity to Blank Concentrations (Continued)

Sample Identification	Analyte	Result (ng/kg)	Qualifier	Reason
Soils (Continued)				
INC-SB03-020	1,2,3,4,7,8-HxCDF	5.63	U	Within 5x of EB
	1,2,3,6,7,8-HxCDD	12.1		
	1,2,3,7,8,9-HxCDD	10.4		
	OCDD	909		
INC-SB04-010	1,2,3,4,7,8-HxCDF	1.45		
	1,2,3,6,7,8-HxCDD	5.59		
	1,2,3,7,8,9-HxCDD	2.71		
	OCDD	287		
INC-SB04-020	1,2,3,4,7,8-HxCDF	0.508		
	OCDD	31.8		
INC-SB05-010	1,2,3,4,7,8-HxCDF	6.77		
	1,2,3,6,7,8-HxCDD	7.78		
	1,2,3,7,8,9-HxCDD	7.66		
	OCDD	821		
INC-SB05-020	1,2,3,4,7,8-HxCDF	7.20		
	1,2,3,6,7,8-HxCDD	23.0		
	1,2,3,7,8,9-HxCDD	18.2		
	OCDD	1170		
INC-SB05-021	1,2,3,4,7,8-HxCDF	4.67		
	1,2,3,6,7,8-HxCDD	19.6		
	1,2,3,7,8,9-HxCDD	15.4		
	OCDD	1040		
INC-SB09-010	1,2,3,4,7,8-HxCDF	45.4		
INC-SB10-010	1,2,3,4,7,8-HxCDF	2.19		
	1,2,3,6,7,8-HxCDD	5.13		
	1,2,3,7,8,9-HxCDD	3.60		
	OCDD	367		
INC-SB10-020	1,2,3,4,7,8-HxCDF	29.1		
	1,2,3,6,7,8-HxCDD	52.0		
	1,2,3,7,8,9-HxCDD	42.6		
INC-SB24-010	1,2,3,4,7,8-HxCDF	11.4		
	1,2,3,6,7,8-HxCDD	26.8		
	1,2,3,7,8,9-HxCDD	20.0		
INC-SB24-020	1,2,3,4,7,8-HxCDF	42.9		
Sample Identification	**Analyte**	**Result (pg/L)**	**Qualifier**	**Reason**
Groundwaters				
INC-MW01-010	1,2,3,4,6,7,8-HpCDD	0.806	U	Within 5x of MB
	1,2,3,4,6,7,8-HpCDF	0.164		
	1,2,3,4,7,8-HxCDD	0.118		
	1,2,3,6,7,8-HxCDF	0.0762		
	1,2,3,7,8,9-HxCDF	0.562		
	1,2,3,7,8-PeCDF	0.500		
	2,3,4,6,7,8-HxCDF	0.0613		
	2,3,4,7,8-PeCDF	0.236		
	OCDD	5.18		
	OCDF	0.393		

Table 11. Dioxin/Furan Results Qualified Due to Similarity to Blank Concentrations (Continued)

Sample Identification	Analyte	Result (pg/L)	Qualifier	Reason
Groundwaters (Continued)				
INC-MW01-011	1,2,3,4,6,7,8-HpCDD	0.306	U	Within 5x of MB
	1,2,3,4,6,7,8-HpCDF	0.261		
	1,2,3,6,7,8-HxCDF	0.212		
	1,2,3,7,8,9-HxCDF	0.361		
	1,2,3,7,8-PeCDD	0.258		
	1,2,3,7,8-PeCDF	0.699		
	2,3,4,6,7,8-HxCDF	0.237		
	2,3,4,7,8-PeCDF	0.269		
	OCDD	4.55		
	OCDF	0.579		
INC-MW03-013	1,2,3,4,6,7,8-HpCDD	0.745		
	1,2,3,4,6,7,8-HpCDF	0.216		
	1,2,3,6,7,8-HxCDF	0.177		
	1,2,3,7,8,9-HxCDF	0.746		
	1,2,3,7,8-PeCDD	0.692		
	1,2,3,7,8-PeCDF	0.573		
	2,3,4,6,7,8-HxCDF	0.224		
	2,3,4,7,8-PeCDF	0.321		
	OCDD	1.83		
INC-MW07-010	1,2,3,4,6,7,8-HpCDD	1.13		
	1,2,3,4,6,7,8-HpCDF	0.307		
	1,2,3,4,7,8,9-HpCDF	0.206		
	1,2,3,6,7,8-HxCDF	0.199		
	1,2,3,7,8,9-HxCDF	0.933		
	1,2,3,7,8-PeCDF	0.385		
	2,3,4,7,8-PeCDF	0.355		
	OCDF	0.720		

EB - Equipment blank.
MB - Method blank.
ng/L - Nanograms per liter.
pg/L - Picograms per liter.
U - Not detected; similar to blank concentration.

Other Notes
HpCDD - Heptachlorinated dibenzo-p-dioxin.
HpCDF - Heptachlorinated dibenzofuran.
HxCDD - Hexachlorinated dibenzo-p-dioxin.
HxCDD - Hexachlorinated dibenzo-p-dioxin.
OCDF - Octachlorinated dibenzofuran.
OCDD - Octachlorinated dibenzo-p-dioxin.
PeCDF - Pentachlorinated dibenzofuran.
PeCDD - Pentachlorinated dibenzo-p-dioxin.
TCDF - Tetrachlorinated dibenzofuran.
TCDD - Tetrachlorinated dibenzo-p-dioxin.

Ion Abundance Ratios

Some dioxin/furan congener results were reported with the ion abundance ratios outside of acceptance criteria. These results were reported by the laboratory as estimated maximum possible concentrations (EMPCs) with the quantitation based on the theoretical ion abundance ratio for these compounds. Therefore, using professional judgment, results reported as EMPCs

were qualified with "JH" as estimated/biased high and are presented in Table 12. Results already qualified due to similarity to blank concentrations are not included in this table.

Table 12. Dioxin/Furan Results Qualified Due to Ion Abundance Ratios

Sample Identification	Analyte	Qualifier/Result	Reason
Soils			
INC-SB01-010	1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,7,8-PeCDD 2,3,4,6,7,8-HxCDF 2,3,7,8-TCDD	JH (Detects)	Ion abundance ratios were outside of theoretical acceptance limits. The reported result is an EMPC.
INC-SB01-011	1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,7,8-PeCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 2,3,7,8-TCDF		
INC-SB01-020	1,2,3,4,7,8-HxCDD 2,3,7,8-TCDD		
INC-SB02-010	1,2,3,4,7,8,9-HpCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8-PeCDF 2,3,7,8-TCDD		
INC-SB02-020	1,2,3,4,7,8,9-HpCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF 2,3,7,8-TCDD		
INC-SB03-013	1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF 2,3,7,8-TCDD		
INC-SB03-020	1,2,3,4,7,8-HxCDD 2,3,4,7,8-PeCDF 2,3,7,8-TCDD		
INC-SB04-010	1,2,3,4,7,8,9-HpCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDF 1,2,3,7,8-PeCDD 2,3,4,6,7,8-HxCDF 2,3,4,7,8-PeCDF 2,3,7,8-TCDD 2,3,7,8-TCDF		
INC-SB04-020	1,2,3,4,6,7,8-HpCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 2,3,7,8-TCDD		
INC-SB05-010	1,2,3,4,7,8,9-HpCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,7,8-PeCDD 2,3,4,6,7,8-HxCDF 2,3,4,7,8-PeCDF		

Table 12. Dioxin/Furan Results Qualified Due to Ion Abundance Ratios (Continued)

Sample Identification	Analyte	Qualifier/Result	Reason
Soils (Continued)			
INC-SB05-020	1,2,3,4,7,8,9-HpCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,7,8-PeCDF 2,3,7,8-TCDD	JH (Detects)	Ion abundance ratios were outside of theoretical acceptance limits. The reported result is an EMPC.
INC-SB05-021	1,2,3,6,7,8-HxCDF 2,3,7,8-TCDD		
INC-SB06-010	1,2,3,6,7,8-HxCDD 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDD 1,2,3,7,8-PeCDD 1,2,3,7,8-PeCDF 2,3,7,8-TCDF		
INC-SB06-020	1,2,3,4,7,8,9-HpCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8-PeCDD 2,3,7,8-TCDD 2,3,7,8-TCDF		
INC-SB07-010	1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8-PeCDF OCDF		
INC-SB07-020	1,2,3,4,7,8,9-HpCDF 1,2,3,7,8,9-HxCDF 1,2,3,7,8-PeCDD 2,3,7,8-TCDD 2,3,7,8-TCDF		
INC-SB08-010	1,2,3,6,7,8-HxCDD		
INC-SB08-020	2,3,7,8-TCDD 2,3,7,8-TCDF		
INC-SB09-010	1,2,3,7,8,9-HxCDF		
INC-SB09-020	1,2,3,7,8-PeCDD		
INC-SB10-010	1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,7,8-PeCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 2,3,7,8-TCDD 2,3,7,8-TCDF		
INC-SB10-020	1,2,3,7,8,9-HxCDF 2,3,7,8-TCDD		
INC-SB24-010	1,2,3,4,7,8,9-HpCDF		
INC-SB24-020	1,2,3,7,8-PeCDF		

Table 12. Dioxin/Furan Results Qualified Due to Ion Abundance Ratios (Continued)

Sample Identification	Analyte	Qualifier/Result	Reason
Groundwaters			
INC-MW01-010	1,2,3,4,7,8-HxCDF	JH (Detects)	Ion abundance ratios were outside of theoretical acceptance limits. The reported result is an EMPC.
INC-MW07-010	1,2,3,4,7,8-HxCDF		

EMPC - Estimated maximum concentration level.
JH - Estimated/biased high.

Other Notes
HpCDD - Heptachlorinated dibenzo-p-dioxin.
HpCDF - Heptachlorinated dibenzofuran.
HxCDD - Hexachlorinated dibenzo-p-dioxin.
HxCDD - Hexachlorinated dibenzo-p-dioxin.
OCDF - Octachlorinated dibenzofuran.
OCDD - Octachlorinated dibenzo-p-dioxin.
PeCDF - Pentachlorinated dibenzofuran.
PeCDD - Pentachlorinated dibenzo-p-dioxin.
TCDF - Tetrachlorinated dibenzofuran.
TCDD - Tetrachlorinated dibenzo-p-dioxin.

Field Duplicates

Field duplicate results were evaluated using the acceptance criteria as specified in TRRP-13. When both the sample and field duplicate sample results are greater than five times the lower MQL and the RPD is greater than 30% (waters) or 50% (soils), then the parent and field duplicate sample results are qualified due to field duplicate variability. When one of the results for the field duplicate pair are less than five times the lower MQL and both of the results are greater than two times the higher MQL (waters) or three times the higher MQL (soils), then the results are qualified due to field duplicate variability. Dioxin/furan results qualified due to field duplicate variability are presented in Table 13. Results already qualified due to similarity to blank concentrations or EMPC results are not included in this table.

Table 13. Dioxin/Furan Results Qualified Due to Field Duplicate Variability

Sample Identification	Analyte	Qualifier/Result	Reason
Soils			
INC-SB05-020	1,2,3,4,6,7,8-HpCDD	J (Detects)	Field duplicate results did not meet acceptance criteria
INC-SB05-021			

J - Estimated.

Other Notes
HpCDD - Heptachlorinated dibenzo-p-dioxin.

Total Petroleum Hydrocarbons by TCEQ Method 1005

Samples were analyzed for total petroleum hydrocarbons by TCEQ Method 1005. The QC requirements that were evaluated included holding times, detection limits, calibrations, blanks, LCS/LCSD results, MS/MSD results, surrogate spike results, and field duplicate results. The QC

results indicate that the reported data are usable for the intended purposes. Samples that required qualification or analytical anomalies are discussed below.

Surrogates

Two surrogates were added to each sample. Results were qualified if both surrogates exceeded the laboratory acceptance criteria.

The recovery for one surrogate in one sample was outside of the laboratory acceptance criteria. The recovery for the other surrogate was within acceptance criteria; therefore, no results were qualified.

Attachment A

Analytical Results

DATA QUALIFIERS

Qualifier	Definition
U	Not detected: Analysis for the analyte was performed, but the analyte was not detected above the level of the associated value. The associated value is the sample detection limit (SDL).
J	Estimated: The analyte was detected and identified. The associated numerical value is the approximate concentration of the analyte in the sample.
UJ	Not detected, SDL is estimated: The analyte was not detected above the reported SDL. The numerical value of the SDL is estimated and may be inaccurate.
NJ	Tentatively identified, reported concentration is estimated: The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration. For example, analyte not included in the calibration or second column confirmation not performed.
R	Rejected: The data are unusable.
X1	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ.
X2	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is located outside of Texas, and is accredited or periodically inspected by that state.
X3	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ, and the work is performed for another company unit located on the same site as the laboratory.
X4	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ, and the work is performed without compensation for a government agency or charitable organization.
X5	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is accredited under federal law, including certification by the EPA to provide these data for decisions related to the Safe Drinking Water Act.
X6	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory provides these data necessary for emergency response activities and the required analytical data are not available from a laboratory accredited under TLAP.
X7	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The TCEQ does not offer accreditation for this analyte, in this matrix, by this method.
X8	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The TCEQ offers accreditation for this analyte, in this matrix, by this method, but the laboratory is not accredited for this analyte in this matrix by this method. The analyte result is validated and reported as part of a suite of analytes for the method.
X9	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The result was generated prior to July 1, 2008.
Bias Codes	**Definition**
H	Bias in sample result likely high.
L	Bias in sample result likely low.

Table A-1

Organic Analyses for Soils

PARAMETER																
SITE ID	GalInc				GalInc				GalInc				GalInc			
LOCATION ID	INC-SB01				INC-SB01				INC-SB01				INC-SB02			
SAMPLE ID	INC-SB01-010				INC-SB01-011 Dup of INC-SB01-010				INC-SB01-020				INC-SB02-010			
DATE SAMPLED	25-JUN-15				25-JUN-15				25-JUN-15				25-JUN-15			
BEG. DEPTH - END DEPTH (FT.)	0-0.5				0-0.5				2.5-3.5				0-0.5			
SM2540G - Percent Moisture (%)																
Moisture	18.1		(0.500	)[1]	24.3		(0.500	)[1]	14.9		(0.500	)[1]	11.0		(0.500	)[1]
SW8260C - Volatile Organic Compounds (mg/kg)																
1,1,1,2-Tetrachloroethane	ND	UJL	(0.00125	)[1]	ND	UJL	(0.00108	)[1]	ND	UJL	(0.00137	)[1]	ND	U	(0.00122	)[1]
1,1,1-Trichloroethane	ND	U	(0.00125	)[1]	ND	U	(0.00108	)[1]	ND	U	(0.00137	)[1]	ND	U	(0.00122	)[1]
1,1,2,2-Tetrachloroethane	ND	U	(0.00125	)[1]	ND	U	(0.00108	)[1]	ND	U	(0.00137	)[1]	ND	U	(0.00122	)[1]
1,1,2-Trichloroethane	ND	U	(0.00125	)[1]	ND	U	(0.00108	)[1]	ND	U	(0.00137	)[1]	ND	U	(0.00122	)[1]
1,1,2-Trichlorotrifluoroethane	ND	UJL	(0.00624	)[1]	ND	UJL	(0.00540	)[1]	ND	UJL	(0.00685	)[1]	ND	UJL	(0.00608	)[1]
1,1-Dichloroethane	ND	U	(0.00125	)[1]	ND	U	(0.00108	)[1]	ND	U	(0.00137	)[1]	ND	U	(0.00122	)[1]
1,1-Dichloroethene	ND	U	(0.00125	)[1]	ND	U	(0.00108	)[1]	ND	U	(0.00137	)[1]	ND	U	(0.00122	)[1]
1,1-Dichloropropene	ND	U	(0.00125	)[1]	ND	U	(0.00108	)[1]	ND	U	(0.00137	)[1]	ND	U	(0.00122	)[1]
1,2,3-Trichlorobenzene	ND	UJL	(0.00125	)[1]	ND	UJL	(0.00108	)[1]	ND	UJL	(0.00137	)[1]	ND	U	(0.00122	)[1]
1,2,3-Trichloropropane	ND	U	(0.00125	)[1]	ND	U	(0.00108	)[1]	ND	U	(0.00137	)[1]	ND	UJL	(0.00122	)[1]
1,2,4-Trichlorobenzene	ND	UJL	(0.00125	)[1]	ND	UJL	(0.00108	)[1]	ND	UJL	(0.00137	)[1]	ND	U	(0.00122	)[1]
1,2,4-Trimethylbenzene	ND	UJL	(0.00125	)[1]	ND	UJL	(0.00108	)[1]	ND	UJL	(0.00137	)[1]	ND	U	(0.00122	)[1]
1,2-Dibromo-3-chloropropane	ND	U	(0.00125	)[1]	ND	U	(0.00108	)[1]	ND	U	(0.00137	)[1]	ND	U	(0.00122	)[1]
1,2-Dibromoethane	ND	U	(0.00125	)[1]	ND	U	(0.00108	)[1]	ND	U	(0.00137	)[1]	ND	U	(0.00122	)[1]
1,2-Dichlorobenzene	ND	UJL	(0.00125	)[1]	ND	UJL	(0.00108	)[1]	ND	UJL	(0.00137	)[1]	ND	U	(0.00122	)[1]
1,2-Dichloroethane	ND	U	(0.00125	)[1]	ND	U	(0.00108	)[1]	ND	U	(0.00137	)[1]	ND	U	(0.00122	)[1]
1,2-Dichloropropane	ND	U	(0.00125	)[1]	ND	U	(0.00108	)[1]	ND	U	(0.00137	)[1]	ND	U	(0.00122	)[1]
1,3,5-Trimethylbenzene	ND	UJL	(0.00125	)[1]	ND	UJL	(0.00108	)[1]	ND	UJL	(0.00137	)[1]	ND	U	(0.00122	)[1]
1,3-Dichlorobenzene	ND	UJL	(0.00125	)[1]	ND	UJL	(0.00108	)[1]	ND	UJL	(0.00137	)[1]	ND	U	(0.00122	)[1]
1,3-Dichloropropane	ND	UJL	(0.00125	)[1]	ND	UJL	(0.00108	)[1]	ND	UJL	(0.00137	)[1]	ND	U	(0.00122	)[1]
1,4-Dichlorobenzene	ND	UJL	(0.00125	)[1]	ND	UJL	(0.00108	)[1]	ND	UJL	(0.00137	)[1]	ND	U	(0.00122	)[1]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)	GalInc INC-SB01 INC-SB01-010 25-JUN-15 0-0.5	GalInc INC-SB01 INC-SB01-011 Dup of INC-SB01-010 25-JUN-15 0-0.5	GalInc INC-SB01 INC-SB01-020 25-JUN-15 2.5-3.5	GalInc INC-SB02 INC-SB02-010 25-JUN-15 0-0.5
SW8260C - Volatile Organic Compounds, cont.	(mg/kg)				
1-Chlorohexane	ND	UJL(0.00125)[1]	ND UJL(0.00108)[1]	ND UJL(0.00137)[1]	ND U (0.00122)[1]
2,2-Dichloropropane	ND	U (0.00125)[1]	ND U (0.00108)[1]	ND U (0.00137)[1]	ND U (0.00122)[1]
2-Butanone(MEK)	ND	U (0.00624)[1]	ND U (0.00540)[1]	ND U (0.00685)[1]	ND U (0.00608)[1]
2-Chlorotoluene	ND	UJL(0.00125)[1]	ND UJL(0.00108)[1]	ND UJL(0.00137)[1]	ND U (0.00122)[1]
2-Hexanone	ND	U (0.00624)[1]	ND U (0.00540)[1]	ND U (0.00685)[1]	ND U (0.00608)[1]
4-Chlorotoluene	ND	UJL(0.00125)[1]	ND UJL(0.00108)[1]	ND UJL(0.00137)[1]	ND U (0.00122)[1]
4-Methyl-2-pentanone(MIBK)	ND	U (0.00624)[1]	ND U (0.00540)[1]	ND U (0.00685)[1]	ND U (0.00608)[1]
Acetone	ND	U (0.0187)[1]	ND U (0.0162)[1]	0.0903 (0.0206)[1]	0.0552 J (0.0182)[1]
Benzene	ND	U (0.00125)[1]	ND U (0.00108)[1]	0.00212 J (0.00137)[1]	ND U (0.00122)[1]
Bromobenzene	ND	UJL(0.00125)[1]	ND UJL(0.00108)[1]	ND UJL(0.00137)[1]	ND U (0.00122)[1]
Bromochloromethane	ND	U (0.00125)[1]	ND U (0.00108)[1]	ND U (0.00137)[1]	ND U (0.00122)[1]
Bromodichloromethane	ND	U (0.00125)[1]	ND U (0.00108)[1]	ND U (0.00137)[1]	ND U (0.00122)[1]
Bromoform	ND	U (0.00125)[1]	ND U (0.00108)[1]	ND U (0.00137)[1]	ND U (0.00122)[1]
Bromomethane	ND	U (0.00125)[1]	ND U (0.00108)[1]	ND U (0.00137)[1]	ND U (0.00122)[1]
Carbon disulfide	ND	U (0.00624)[1]	ND U (0.00540)[1]	ND U (0.00685)[1]	ND U (0.00608)[1]
Carbon tetrachloride	ND	U (0.00125)[1]	ND U (0.00108)[1]	ND U (0.00137)[1]	ND U (0.00122)[1]
Chlorobenzene	ND	UJL(0.00125)[1]	ND UJL(0.00108)[1]	ND UJL(0.00137)[1]	ND U (0.00122)[1]
Chloroethane	ND	U (0.00125)[1]	ND U (0.00108)[1]	ND U (0.00137)[1]	ND U (0.00122)[1]
Chloroform	ND	U (0.00125)[1]	ND U (0.00108)[1]	ND U (0.00137)[1]	ND U (0.00122)[1]
Chloromethane	ND	U (0.00125)[1]	ND U (0.00108)[1]	ND U (0.00137)[1]	ND U (0.00122)[1]
Cyclohexane	ND	UX7(0.00624)[1]	ND UX7(0.00540)[1]	ND UX7(0.00685)[1]	ND UX7(0.00608)[1]
Dibromochloromethane	ND	U (0.00125)[1]	ND U (0.00108)[1]	ND U (0.00137)[1]	ND U (0.00122)[1]
Dibromomethane	ND	U (0.00125)[1]	ND U (0.00108)[1]	ND U (0.00137)[1]	ND U (0.00122)[1]
Dichlorodifluoromethane	ND	U (0.00125)[1]	ND U (0.00108)[1]	ND U (0.00137)[1]	ND U (0.00122)[1]

PARAMETER	GalInc INC-SB01 INC-SB01-010 25-JUN-15 0-0.5		GalInc INC-SB01 INC-SB01-011 Dup of INC-SB01-010 25-JUN-15 0-0.5		GalInc INC-SB01 INC-SB01-020 25-JUN-15 2.5-3.5		GalInc INC-SB02 INC-SB02-010 25-JUN-15 0-0.5	
SW8260C - Volatile Organic Compounds, cont. (mg/kg)								
Ethylbenzene	ND	UJL(0.00125)[1]	ND	UJL(0.00108)[1]	ND	UJL(0.00137)[1]	ND	U (0.00122)[1]
Hexachlorobutadiene	ND	UJL(0.00125)[1]	ND	UJL(0.00108)[1]	ND	UJL(0.00137)[1]	ND	U (0.00122)[1]
Isopropylbenzene	ND	UJL(0.00125)[1]	ND	UJL(0.00108)[1]	ND	UJL(0.00137)[1]	ND	U (0.00122)[1]
Methyl acetate	ND	U (0.00624)[1]	ND	U (0.00540)[1]	ND	U (0.00685)[1]	ND	U (0.00608)[1]
Methyl t-butyl ether	ND	U (0.00125)[1]	ND	U (0.00108)[1]	ND	U (0.00137)[1]	ND	U (0.00122)[1]
Methylcyclohexane	ND	U (0.00624)[1]	ND	U (0.00540)[1]	ND	U (0.00685)[1]	ND	U (0.00608)[1]
Methylene chloride	ND	U (0.00624)[1]	ND	U (0.00540)[1]	ND	U (0.00685)[1]	ND	U (0.00608)[1]
Naphthalene	ND	UJL(0.00624)[1]	ND	UJL(0.00540)[1]	ND	UJL(0.00685)[1]	ND	U (0.00608)[1]
Styrene	ND	UJL(0.00125)[1]	ND	UJL(0.00108)[1]	ND	UJL(0.00137)[1]	ND	U (0.00122)[1]
Tetrachloroethene	ND	UJL(0.00125)[1]	ND	UJL(0.00108)[1]	ND	UJL(0.00137)[1]	ND	U (0.00122)[1]
Toluene	ND	U (0.00125)[1]	ND	U (0.00108)[1]	ND	U (0.00137)[1]	ND	U (0.00122)[1]
Trichloroethene	ND	U (0.00125)[1]	ND	U (0.00108)[1]	ND	U (0.00137)[1]	ND	U (0.00122)[1]
Trichlorofluoromethane	ND	U (0.00624)[1]	ND	U (0.00540)[1]	ND	U (0.00685)[1]	ND	U (0.00608)[1]
Vinyl chloride	ND	U (0.00125)[1]	ND	U (0.00108)[1]	ND	U (0.00137)[1]	ND	U (0.00122)[1]
cis-1,2-Dichloroethene	ND	U (0.00125)[1]	ND	U (0.00108)[1]	ND	U (0.00137)[1]	ND	U (0.00122)[1]
cis-1,3-Dichloropropene	ND	U (0.00125)[1]	ND	U (0.00108)[1]	ND	U (0.00137)[1]	ND	U (0.00122)[1]
m & p-Xylene	ND	UJL(0.00125)[1]	ND	UJL(0.00108)[1]	ND	UJL(0.00137)[1]	ND	U (0.00122)[1]
n-Butylbenzene	ND	UJL(0.00125)[1]	ND	UJL(0.00108)[1]	ND	UJL(0.00137)[1]	ND	U (0.00122)[1]
n-Propylbenzene	ND	UJL(0.00125)[1]	ND	UJL(0.00108)[1]	ND	UJL(0.00137)[1]	ND	U (0.00122)[1]
o-Xylene	ND	UJL(0.00125)[1]	ND	UJL(0.00108)[1]	ND	UJL(0.00137)[1]	ND	U (0.00122)[1]
p-Isopropyltoluene	ND	UJL(0.00125)[1]	ND	UJL(0.00108)[1]	ND	UJL(0.00137)[1]	ND	U (0.00122)[1]
sec-Butylbenzene	ND	UJL(0.00125)[1]	ND	UJL(0.00108)[1]	ND	UJL(0.00137)[1]	ND	U (0.00122)[1]
tert-Butylbenzene	ND	UJL(0.00125)[1]	ND	UJL(0.00108)[1]	ND	UJL(0.00137)[1]	ND	U (0.00122)[1]
trans-1,2-Dichloroethene	ND	U (0.00125)[1]	ND	U (0.00108)[1]	ND	U (0.00137)[1]	ND	U (0.00122)[1]

PARAMETER	GalInc INC-SB01 INC-SB01-010 25-JUN-15 0-0.5	GalInc INC-SB01 INC-SB01-011 Dup of INC-SB01-010 25-JUN-15 0-0.5	GalInc INC-SB01 INC-SB01-020 25-JUN-15 2.5-3.5	GalInc INC-SB02 INC-SB02-010 25-JUN-15 0-0.5
SW8260C - Volatile Organic Compounds, cont. (mg/kg)				
trans-1,3-Dichloropropene	ND U (0.00125)[1]	ND U (0.00108)[1]	ND U (0.00137)[1]	ND U (0.00122)[1]
SW8270D - Semivolatile Organic Compounds (mg/kg)				
2,4,5-Trichlorophenol	ND U (0.0101)[1]	ND U (0.0104)[1]	ND U (0.0113)[1]	ND U (0.0111)[1]
2,4,6-Trichlorophenol	ND U (0.0101)[1]	ND U (0.0104)[1]	ND U (0.0113)[1]	ND U (0.0111)[1]
2,4-Dichlorophenol	ND U (0.0101)[1]	ND U (0.0104)[1]	ND U (0.0113)[1]	ND U (0.0111)[1]
2,4-Dimethylphenol	ND U (0.0101)[1]	ND U (0.0104)[1]	ND U (0.0113)[1]	ND U (0.0111)[1]
2,4-Dinitrophenol	ND U (0.0507)[1]	ND U (0.0518)[1]	ND U (0.0566)[1]	ND U (0.0557)[1]
2,4-Dinitrotoluene	ND U (0.0101)[1]	ND U (0.0104)[1]	ND U (0.0113)[1]	ND U (0.0111)[1]
2,6-Dinitrotoluene	ND U (0.0101)[1]	ND U (0.0104)[1]	ND U (0.0113)[1]	ND U (0.0111)[1]
2-Chloronaphthalene	ND U (0.0101)[1]	ND U (0.0104)[1]	ND U (0.0113)[1]	ND U (0.0111)[1]
2-Chlorophenol	ND U (0.0101)[1]	ND U (0.0104)[1]	ND U (0.0113)[1]	ND U (0.0111)[1]
2-Methylnaphthalene	ND U (0.0101)[1]	ND U (0.0104)[1]	ND U (0.0113)[1]	ND U (0.0111)[1]
2-Methylphenol	ND U (0.0101)[1]	ND U (0.0104)[1]	ND U (0.0113)[1]	ND U (0.0111)[1]
2-Nitroaniline	ND U (0.0101)[1]	ND U (0.0104)[1]	ND U (0.0113)[1]	ND U (0.0111)[1]
2-Nitrophenol	ND U (0.0101)[1]	ND U (0.0104)[1]	ND U (0.0113)[1]	ND U (0.0111)[1]
3,3'-Dichlorobenzidine	ND U (0.0101)[1]	ND U (0.0104)[1]	ND U (0.0113)[1]	ND U (0.0111)[1]
3-Nitroaniline	ND U (0.0101)[1]	ND U (0.0104)[1]	ND U (0.0113)[1]	ND U (0.0111)[1]
4,6-Dinitro-2-methylphenol	ND U (0.0304)[1]	ND U (0.0311)[1]	ND U (0.0340)[1]	ND U (0.0334)[1]
4-Bromophenyl phenyl ether	ND U (0.0101)[1]	ND U (0.0104)[1]	ND U (0.0113)[1]	ND U (0.0111)[1]
4-Chloro-3-methylphenol	ND U (0.0101)[1]	ND U (0.0104)[1]	ND U (0.0113)[1]	ND U (0.0111)[1]
4-Chloroaniline	ND U (0.0304)[1]	ND U (0.0311)[1]	ND U (0.0340)[1]	ND U (0.0334)[1]
4-Chlorophenyl phenyl ether	ND U (0.0101)[1]	ND U (0.0104)[1]	ND U (0.0113)[1]	ND U (0.0111)[1]
4-Methylphenol	ND U (0.0203)[1]	ND U (0.0207)[1]	ND U (0.0226)[1]	ND U (0.0223)[1]

PARAMETER	GalInc INC-SB01 INC-SB01-010 25-JUN-15 0-0.5				GalInc INC-SB01 INC-SB01-011 Dup of INC-SB01-010 25-JUN-15 0-0.5				GalInc INC-SB01 INC-SB01-020 25-JUN-15 2.5-3.5				GalInc INC-SB02 INC-SB02-010 25-JUN-15 0-0.5			
SW8270D - Semivolatile Organic Compounds, cont. (mg/kg)																
4-Nitroaniline	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0111	)[1]
4-Nitrophenol	ND	U	(0.0507	)[1]	ND	U	(0.0518	)[1]	ND	U	(0.0566	)[1]	ND	U	(0.0557	)[1]
Acenaphthene	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	0.0260	J	(0.0111	)[1]
Acenaphthylene	0.0372		(0.0101	)[1]	0.0380		(0.0104	)[1]	0.0158	J	(0.0113	)[1]	0.135		(0.0111	)[1]
Acetophenone	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0111	)[1]
Anthracene	0.0588		(0.0101	)[1]	0.0684		(0.0104	)[1]	ND	U	(0.0113	)[1]	0.135		(0.0111	)[1]
Aroclor 1016	ND	U	(0.0169	)[1]	ND	U	(0.0173	)[1]	ND	U	(0.0189	)[1]	ND	U	(0.0186	)[1]
Aroclor 1221	ND	U	(0.0169	)[1]	ND	U	(0.0173	)[1]	ND	U	(0.0189	)[1]	ND	U	(0.0186	)[1]
Aroclor 1232	ND	U	(0.0169	)[1]	ND	U	(0.0173	)[1]	ND	U	(0.0189	)[1]	ND	U	(0.0186	)[1]
Aroclor 1242	ND	U	(0.0169	)[1]	ND	U	(0.0173	)[1]	ND	U	(0.0189	)[1]	ND	U	(0.0186	)[1]
Aroclor 1248	ND	U	(0.0169	)[1]	ND	U	(0.0173	)[1]	ND	U	(0.0189	)[1]	ND	U	(0.0186	)[1]
Aroclor 1254	ND	U	(0.0169	)[1]	ND	U	(0.0173	)[1]	ND	U	(0.0189	)[1]	ND	U	(0.0186	)[1]
Aroclor 1260	ND	U	(0.0169	)[1]	ND	U	(0.0173	)[1]	ND	U	(0.0189	)[1]	0.0491		(0.0186	)[1]
Atrazine	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0111	)[1]
Benzaldehyde	ND	UX7	(0.0101	)[1]	ND	UX7	(0.0104	)[1]	ND	UX7	(0.0113	)[1]	ND	UX7	(0.0111	)[1]
Benzo(a)anthracene	0.355		(0.0101	)[1]	0.442		(0.0104	)[1]	0.0287	J	(0.0113	)[1]	0.521		(0.0111	)[1]
Benzo(a)pyrene	0.353		(0.0101	)[1]	0.443		(0.0104	)[1]	0.0385		(0.0113	)[1]	0.586		(0.0111	)[1]
Benzo(b)fluoranthene	0.396		(0.0101	)[1]	0.584		(0.0104	)[1]	0.0287	J	(0.0113	)[1]	0.629		(0.0111	)[1]
Benzo(g,h,i)perylene	0.251		(0.0101	)[1]	0.314		(0.0104	)[1]	0.0166	J	(0.0113	)[1]	0.495		(0.0111	)[1]
Benzo(k)fluoranthene	0.274		(0.0101	)[1]	0.334		(0.0104	)[1]	0.0143	J	(0.0113	)[1]	0.318		(0.0111	)[1]
Benzoic acid	0.0737	J	(0.0507	)[1]	0.0801	J	(0.0518	)[1]	0.0657	J	(0.0566	)[1]	0.0905	J	(0.0557	)[1]
Benzyl alcohol	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0111	)[1]
Biphenyl	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0111	)[1]
Butylbenzylphthalate	0.0493	J	(0.0405	)[1]	0.0511	J	(0.0414	)[1]	ND	U	(0.0453	)[1]	ND	U	(0.0445	)[1]

PARAMETER	GalInc INC-SB01 INC-SB01-010 25-JUN-15 0-0.5				GalInc INC-SB01 INC-SB01-011 Dup of INC-SB01-010 25-JUN-15 0-0.5				GalInc INC-SB01 INC-SB01-020 25-JUN-15 2.5-3.5				GalInc INC-SB02 INC-SB02-010 25-JUN-15 0-0.5			
SW8270D - Semivolatile Organic Compounds, cont. (mg/kg)																
Caprolactam	ND	U	(0.0203	)[1]	ND	U	(0.0207	)[1]	ND	U	(0.0226	)[1]	ND	U	(0.0223	)[1]
Carbazole	0.0345		(0.0101	)[1]	0.0449		(0.0104	)[1]	ND	U	(0.0113	)[1]	0.0705		(0.0111	)[1]
Chrysene	0.357		(0.0101	)[1]	0.443		(0.0104	)[1]	0.0287	J	(0.0113	)[1]	0.545		(0.0111	)[1]
Di-n-butylphthalate	ND	U	(0.0405	)[1]	ND	U	(0.0414	)[1]	ND	U	(0.0453	)[1]	0.0601	J	(0.0445	)[1]
Di-n-octylphthalate	ND	U	(0.0405	)[1]	0.0421	J	(0.0414	)[1]	0.115		(0.0453	)[1]	0.174		(0.0445	)[1]
Dibenz(a,h)anthracene	0.0818		(0.0101	)[1]	0.131		(0.0104	)[1]	ND	U	(0.0113	)[1]	0.182		(0.0111	)[1]
Dibenzofuran	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	0.0156	J	(0.0111	)[1]
Diethyl phthalate	ND	U	(0.0405	)[1]	ND	U	(0.0414	)[1]	ND	U	(0.0453	)[1]	ND	U	(0.0445	)[1]
Dimethyl phthalate	ND	U	(0.0405	)[1]	ND	U	(0.0414	)[1]	ND	U	(0.0453	)[1]	ND	U	(0.0445	)[1]
Fluoranthene	0.638		(0.0101	)[1]	0.736		(0.0104	)[1]	0.0506		(0.0113	)[1]	0.949		(0.0111	)[1]
Fluorene	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	0.0312		(0.0111	)[1]
Hexachlorobenzene	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0111	)[1]
Hexachlorobutadiene	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0111	)[1]
Hexachlorocyclopentadiene	ND	U	(0.0304	)[1]	ND	U	(0.0311	)[1]	ND	U	(0.0340	)[1]	ND	U	(0.0334	)[1]
Hexachloroethane	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0111	)[1]
Indeno(1,2,3-cd)pyrene	0.222		(0.0101	)[1]	0.280		(0.0104	)[1]	0.0151	J	(0.0113	)[1]	0.393		(0.0111	)[1]
Isophorone	ND	U	(0.0304	)[1]	ND	U	(0.0311	)[1]	ND	U	(0.0340	)[1]	ND	U	(0.0334	)[1]
N-Nitroso-di-n-propylamine	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0111	)[1]
N-Nitrosodiphenylamine	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0111	)[1]
Naphthalene	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0111	)[1]
Nitrobenzene	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0111	)[1]
Pentachlorophenol	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0111	)[1]
Phenanthrene	0.247		(0.0101	)[1]	0.265		(0.0104	)[1]	0.0309		(0.0113	)[1]	0.408		(0.0111	)[1]
Phenol	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0111	)[1]

PARAMETER	GalInc INC-SB01 INC-SB01-010 25-JUN-15 0-0.5				GalInc INC-SB01 INC-SB01-011 Dup of INC-SB01-010 25-JUN-15 0-0.5				GalInc INC-SB01 INC-SB01-020 25-JUN-15 2.5-3.5				GalInc INC-SB02 INC-SB02-010 25-JUN-15 0-0.5			
SW8270D - Semivolatile Organic Compounds, cont. (mg/kg)																
Pyrene	0.547		(0.0101	)[1]	0.454		(0.0104	)[1]	0.0377		(0.0113	)[1]	0.807		(0.0111	)[1]
bis(2-Chloroethoxy)methane	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0111	)[1]
bis(2-Chloroethyl) ether	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0111	)[1]
bis(2-Chloroisopropyl) ether	ND	U	(0.0101	)[1]	ND	U	(0.0104	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0111	)[1]
bis(2-Ethylhexyl)phthalate	0.0466	J	(0.0304	)[1]	0.0511	J	(0.0311	)[1]	0.0438	J	(0.0340	)[1]	1.44		(0.0334	)[1]
SW8290A - Dioxins (ng/kg)																
1,2,3,4,6,7,8-HpCDD	99.8	JH	(0.586	)[1]	137	J	(0.476	)[1]	283		(0.551	)[1]	258		(0.656	)[1]
1,2,3,4,6,7,8-HpCDF	16.6	J	(0.211	)[1]	19.7	J	(0.143	)[1]	50.5		(0.141	)[1]	53.8	J	(0.192	)[1]
1,2,3,4,7,8,9-HpCDF	1.17	JH	(0.299	)[1]	0.942	J	(0.194	)[1]	7.06	J	(0.343	)[1]	2.38	JH	(0.417	)[1]
1,2,3,4,7,8-HxCDD	0.692	J	(0.538	)[1]	1.16	J	(0.411	)[1]	6.03	JH	(0.420	)[1]	1.37	J	(0.535	)[1]
1,2,3,4,7,8-HxCDF	2.10	U	(0.414	)[1]	2.02	U	(0.322	)[1]	18.3	U	(0.528	)[1]	5.64	U	(0.523	)[1]
1,2,3,6,7,8-HxCDD	8.81	U	(0.579	)[1]	11.9	U	(0.441	)[1]	41.6	U	(0.442	)[1]	13.8	U	(0.555	)[1]
1,2,3,6,7,8-HxCDF	2.92	JH	(0.392	)[1]	1.71	JH	(0.312	)[1]	14.1	J	(0.433	)[1]	6.57	JH	(0.473	)[1]
1,2,3,7,8,9-HxCDD	6.60	U	(0.623	)[1]	8.24	U	(0.482	)[1]	25.9	U	(0.449	)[1]	9.92	U	(0.572	)[1]
1,2,3,7,8,9-HxCDF	0.826	JH	(0.451	)[1]	1.97	JH	(0.440	)[1]	ND	U	(0.704	)[1]	3.33	J	(0.713	)[1]
1,2,3,7,8-PeCDD	2.61	JH	(0.699	)[1]	1.50	JH	(0.620	)[1]	9.00	J	(0.880	)[1]	5.26	J	(0.780	)[1]
1,2,3,7,8-PeCDF	2.40	J	(0.314	)[1]	1.52	JH	(0.239	)[1]	16.7	J	(0.315	)[1]	4.64	JH	(0.346	)[1]
2,3,4,6,7,8-HxCDF	3.54	JH	(0.335	)[1]	3.33	J	(0.313	)[1]	18.8	J	(0.471	)[1]	10.3	J	(0.534	)[1]
2,3,4,7,8-PeCDF	5.02	J	(0.291	)[1]	1.84	JH	(0.228	)[1]	21.7	J	(0.333	)[1]	ND	U	(0.370	)[1]
2,3,7,8-TCDD	0.676	JH	(0.554	)[1]	ND	U	(0.458	)[1]	2.55	JH	(0.609	)[1]	1.61	JH	(0.479	)[1]
2,3,7,8-TCDF	ND	U	(0.564	)[1]	0.773	JH	(0.489	)[1]	23.0		(1.23	)[1]	6.94	J	(0.877	)[1]
OCDD	561	U	(0.575	)[1]	765	U	(0.426	)[1]	732	U	(0.347	)[1]	1440	U	(0.703	)[1]
OCDF	13.4	J	(0.370	)[1]	20.6	J	(0.242	)[1]	31.3	J	(0.307	)[1]	56.4	J	(0.497	)[1]

SITE ID	GalInc	GalInc	GalInc	GalInc
LOCATION ID	INC-SB02	INC-SB03	INC-SB03	INC-SB04
SAMPLE ID	INC-SB02-020	INC-SB03-013	INC-SB03-020	INC-SB04-010
DATE SAMPLED	25-JUN-15	25-JUN-15	25-JUN-15	25-JUN-15
BEG. DEPTH - END DEPTH (FT.)	2.5-3.5	0-0.5	2-3	0-0.5
PARAMETER				
SM2540G - Percent Moisture (%)				
Moisture	18.0 (0.500)[1]	20.6 (0.500)[1]	16.0 (0.500)[1]	23.2 (0.500)[1]
SW8260C - Volatile Organic Compounds (mg/kg)				
1,1,1,2-Tetrachloroethane	ND U (0.00133)[1]	ND UJL(0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
1,1,1-Trichloroethane	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
1,1,2,2-Tetrachloroethane	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
1,1,2-Trichloroethane	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
1,1,2-Trichlorotrifluoroethane	ND UJL(0.00665)[1]	ND UJL(0.00661)[1]	ND UJL(0.00618)[1]	ND UJL(0.00672)[1]
1,1-Dichloroethane	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
1,1-Dichloroethene	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
1,1-Dichloropropene	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
1,2,3-Trichlorobenzene	ND U (0.00133)[1]	ND UJL(0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
1,2,3-Trichloropropane	ND UJL(0.00133)[1]	ND UJL(0.00132)[1]	ND UJL(0.00124)[1]	ND UJL(0.00134)[1]
1,2,4-Trichlorobenzene	ND U (0.00133)[1]	ND UJL(0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
1,2,4-Trimethylbenzene	ND U (0.00133)[1]	ND UJL(0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
1,2-Dibromo-3-chloropropane	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
1,2-Dibromoethane	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
1,2-Dichlorobenzene	ND U (0.00133)[1]	ND UJL(0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
1,2-Dichloroethane	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
1,2-Dichloropropane	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
1,3,5-Trimethylbenzene	ND U (0.00133)[1]	ND UJL(0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
1,3-Dichlorobenzene	ND U (0.00133)[1]	ND UJL(0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]

SITE ID
LOCATION ID
- SAMPLE ID
DATE SAMPLED
BEG. DEPTH - END DEPTH (FT.)

PARAMETER	GalInc INC-SB02 INC-SB02-020 25-JUN-15 2.5-3.5	GalInc INC-SB03 INC-SB03-013 25-JUN-15 0-0.5	GalInc INC-SB03 INC-SB03-020 25-JUN-15 2-3	GalInc INC-SB04 INC-SB04-010 25-JUN-15 0-0.5
SW8260C - Volatile Organic Compounds, cont. (mg/kg)				
1,3-Dichloropropane	ND U (0.00133)[1]	ND UJL(0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
1,4-Dichlorobenzene	ND U (0.00133)[1]	ND UJL(0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
1-Chlorohexane	ND U (0.00133)[1]	ND UJL(0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
2,2-Dichloropropane	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
2-Butanone(MEK)	ND U (0.00665)[1]	ND U (0.00661)[1]	ND U (0.00618)[1]	ND U (0.00672)[1]
2-Chlorotoluene	ND U (0.00133)[1]	ND UJL(0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
2-Hexanone	ND U (0.00665)[1]	ND U (0.00661)[1]	ND U (0.00618)[1]	ND U (0.00672)[1]
4-Chlorotoluene	ND U (0.00133)[1]	ND UJL(0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
4-Methyl-2-pentanone(MIBK)	ND U (0.00665)[1]	ND U (0.00661)[1]	ND U (0.00618)[1]	ND U (0.00672)[1]
Acetone	0.142 (0.0199)[1]	ND U (0.0198)[1]	0.131 (0.0185)[1]	ND U (0.0201)[1]
Benzene	0.00260 J (0.00133)[1]	ND U (0.00132)[1]	0.00153 J (0.00124)[1]	ND U (0.00134)[1]
Bromobenzene	ND U (0.00133)[1]	ND UJL(0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
Bromochloromethane	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
Bromodichloromethane	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
Bromoform	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
Bromomethane	ND U (0.00133)[1]	ND UJL(0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
Carbon disulfide	ND U (0.00665)[1]	ND U (0.00661)[1]	ND U (0.00618)[1]	ND U (0.00672)[1]
Carbon tetrachloride	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
Chlorobenzene	ND U (0.00133)[1]	ND UJL(0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
Chloroethane	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
Chloroform	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
Chloromethane	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
Cyclohexane	ND UX7(0.00665)[1]	ND UX7(0.00661)[1]	ND UX7(0.00618)[1]	ND UX7(0.00672)[1]
Dibromochloromethane	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)																
	GalInc INC-SB02 INC-SB02-020 25-JUN-15 2.5-3.5					GalInc INC-SB03 INC-SB03-013 25-JUN-15 0-0.5					GalInc INC-SB03 INC-SB03-020 25-JUN-15 2-3					GalInc INC-SB04 INC-SB04-010 25-JUN-15 0-0.5				
SW8260C - Volatile Organic Compounds, cont.	(mg/kg)																			
Dibromomethane	ND	U	(0.00133	)	[1]	ND	U	(0.00132	)	[1]	ND	U	(0.00124	)	[1]	ND	U	(0.00134	)	[1]
Dichlorodifluoromethane	ND	U	(0.00133	)	[1]	ND	U	(0.00132	)	[1]	ND	U	(0.00124	)	[1]	ND	U	(0.00134	)	[1]
Ethylbenzene	ND	U	(0.00133	)	[1]	ND	UJL	(0.00132	)	[1]	ND	U	(0.00124	)	[1]	ND	U	(0.00134	)	[1]
Hexachlorobutadiene	ND	U	(0.00133	)	[1]	ND	UJL	(0.00132	)	[1]	ND	U	(0.00124	)	[1]	ND	U	(0.00134	)	[1]
Isopropylbenzene	ND	U	(0.00133	)	[1]	ND	UJL	(0.00132	)	[1]	ND	U	(0.00124	)	[1]	ND	U	(0.00134	)	[1]
Methyl acetate	ND	U	(0.00665	)	[1]	ND	U	(0.00661	)	[1]	ND	U	(0.00618	)	[1]	ND	U	(0.00672	)	[1]
Methyl t-butyl ether	ND	U	(0.00133	)	[1]	ND	UJL	(0.00132	)	[1]	ND	U	(0.00124	)	[1]	ND	U	(0.00134	)	[1]
Methylcyclohexane	ND	U	(0.00665	)	[1]	ND	U	(0.00661	)	[1]	ND	U	(0.00618	)	[1]	ND	U	(0.00672	)	[1]
Methylene chloride	ND	U	(0.00665	)	[1]	ND	U	(0.00661	)	[1]	ND	U	(0.00618	)	[1]	ND	U	(0.00672	)	[1]
Naphthalene	ND	U	(0.00665	)	[1]	ND	UJL	(0.00661	)	[1]	ND	U	(0.00618	)	[1]	ND	U	(0.00672	)	[1]
Styrene	ND	U	(0.00133	)	[1]	ND	UJL	(0.00132	)	[1]	ND	U	(0.00124	)	[1]	ND	U	(0.00134	)	[1]
Tetrachloroethene	ND	U	(0.00133	)	[1]	ND	UJL	(0.00132	)	[1]	ND	U	(0.00124	)	[1]	ND	U	(0.00134	)	[1]
Toluene	ND	U	(0.00133	)	[1]	ND	U	(0.00132	)	[1]	ND	U	(0.00124	)	[1]	ND	U	(0.00134	)	[1]
Trichloroethene	ND	U	(0.00133	)	[1]	ND	U	(0.00132	)	[1]	ND	U	(0.00124	)	[1]	ND	U	(0.00134	)	[1]
Trichlorofluoromethane	ND	U	(0.00665	)	[1]	ND	U	(0.00661	)	[1]	ND	U	(0.00618	)	[1]	ND	U	(0.00672	)	[1]
Vinyl chloride	ND	U	(0.00133	)	[1]	ND	U	(0.00132	)	[1]	ND	U	(0.00124	)	[1]	ND	U	(0.00134	)	[1]
cis-1,2-Dichloroethene	ND	U	(0.00133	)	[1]	ND	U	(0.00132	)	[1]	ND	U	(0.00124	)	[1]	ND	U	(0.00134	)	[1]
cis-1,3-Dichloropropene	ND	U	(0.00133	)	[1]	ND	U	(0.00132	)	[1]	ND	U	(0.00124	)	[1]	ND	U	(0.00134	)	[1]
m & p-Xylene	ND	U	(0.00133	)	[1]	ND	UJL	(0.00132	)	[1]	ND	U	(0.00124	)	[1]	ND	U	(0.00134	)	[1]
n-Butylbenzene	ND	U	(0.00133	)	[1]	ND	UJL	(0.00132	)	[1]	ND	U	(0.00124	)	[1]	ND	U	(0.00134	)	[1]
n-Propylbenzene	ND	U	(0.00133	)	[1]	ND	UJL	(0.00132	)	[1]	ND	U	(0.00124	)	[1]	ND	U	(0.00134	)	[1]
o-Xylene	ND	U	(0.00133	)	[1]	ND	UJL	(0.00132	)	[1]	ND	U	(0.00124	)	[1]	ND	U	(0.00134	)	[1]
p-Isopropyltoluene	ND	U	(0.00133	)	[1]	ND	UJL	(0.00132	)	[1]	ND	U	(0.00124	)	[1]	ND	U	(0.00134	)	[1]
sec-Butylbenzene	ND	U	(0.00133	)	[1]	ND	UJL	(0.00132	)	[1]	ND	U	(0.00124	)	[1]	ND	U	(0.00134	)	[1]

PARAMETER	GalInc INC-SB02 INC-SB02-020 25-JUN-15 2.5-3.5	GalInc INC-SB03 INC-SB03-013 25-JUN-15 0-0.5	GalInc INC-SB03 INC-SB03-020 25-JUN-15 2-3	GalInc INC-SB04 INC-SB04-010 25-JUN-15 0-0.5
SW8260C - Volatile Organic Compounds, cont. (mg/kg)				
tert-Butylbenzene	ND U (0.00133)[1]	ND UJL(0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
trans-1,2-Dichloroethene	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
trans-1,3-Dichloropropene	ND U (0.00133)[1]	ND U (0.00132)[1]	ND U (0.00124)[1]	ND U (0.00134)[1]
SW8270D - Semivolatile Organic Compounds (mg/kg)				
2,4,5-Trichlorophenol	ND U (0.0121)[1]	ND U (0.0114)[1]	ND U (0.0121)[1]	ND U (0.0100)[1]
2,4,6-Trichlorophenol	ND U (0.0121)[1]	ND U (0.0114)[1]	ND U (0.0121)[1]	ND U (0.0100)[1]
2,4-Dichlorophenol	ND U (0.0121)[1]	ND U (0.0114)[1]	ND U (0.0121)[1]	ND U (0.0100)[1]
2,4-Dimethylphenol	ND U (0.0121)[1]	0.0318 (0.0114)[1]	ND U (0.0121)[1]	ND U (0.0100)[1]
2,4-Dinitrophenol	ND UJL(0.0603)[1]	ND UJL(0.0568)[1]	ND UJL(0.0604)[1]	ND U (0.0502)[1]
2,4-Dinitrotoluene	ND U (0.0121)[1]	ND U (0.0114)[1]	ND U (0.0121)[1]	ND U (0.0100)[1]
2,6-Dinitrotoluene	ND U (0.0121)[1]	ND U (0.0114)[1]	ND U (0.0121)[1]	ND U (0.0100)[1]
2-Chloronaphthalene	ND U (0.0121)[1]	ND U (0.0114)[1]	ND U (0.0121)[1]	ND U (0.0100)[1]
2-Chlorophenol	ND U (0.0121)[1]	ND U (0.0114)[1]	ND U (0.0121)[1]	ND U (0.0100)[1]
2-Methylnaphthalene	ND U (0.0121)[1]	0.426 (0.0114)[1]	ND U (0.0121)[1]	ND U (0.0100)[1]
2-Methylphenol	ND U (0.0121)[1]	0.0159 J (0.0114)[1]	ND U (0.0121)[1]	ND U (0.0100)[1]
2-Nitroaniline	ND U (0.0121)[1]	ND U (0.0114)[1]	ND U (0.0121)[1]	ND U (0.0100)[1]
2-Nitrophenol	ND U (0.0121)[1]	ND U (0.0114)[1]	ND U (0.0121)[1]	ND U (0.0100)[1]
3,3'-Dichlorobenzidine	ND UJ (0.0121)[1]	ND UJ (0.0114)[1]	ND UJ (0.0121)[1]	ND U (0.0100)[1]
3-Nitroaniline	ND U (0.0121)[1]	ND U (0.0114)[1]	ND U (0.0121)[1]	ND U (0.0100)[1]
4,6-Dinitro-2-methylphenol	ND U (0.0362)[1]	ND U (0.0341)[1]	ND U (0.0362)[1]	ND U (0.0301)[1]
4-Bromophenyl phenyl ether	ND U (0.0121)[1]	ND U (0.0114)[1]	ND U (0.0121)[1]	ND U (0.0100)[1]
4-Chloro-3-methylphenol	ND U (0.0121)[1]	ND U (0.0114)[1]	ND U (0.0121)[1]	ND U (0.0100)[1]
4-Chloroaniline	ND U (0.0362)[1]	ND U (0.0341)[1]	ND U (0.0362)[1]	ND U (0.0301)[1]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)														
	GalInc INC-SB02 INC-SB02-020 25-JUN-15 2.5-3.5				GalInc INC-SB03 INC-SB03-013 25-JUN-15 0-0.5				GalInc INC-SB03 INC-SB03-020 25-JUN-15 2-3				GalInc INC-SB04 INC-SB04-010 25-JUN-15 0-0.5			
SW8270D - Semivolatile Organic Compounds, cont. (mg/kg)															
4-Chlorophenyl phenyl ether	ND	U	(0.0121	)[1]	ND	U	(0.0114	)[1]	ND	U	(0.0121	)[1]	ND	U	(0.0100	)[1]
4-Methylphenol	ND	U	(0.0241	)[1]	0.0356		(0.0227	)[1]	ND	U	(0.0241	)[1]	ND	U	(0.0201	)[1]
4-Nitroaniline	ND	U	(0.0121	)[1]	ND	U	(0.0114	)[1]	ND	U	(0.0121	)[1]	ND	U	(0.0100	)[1]
4-Nitrophenol	ND	U	(0.0603	)[1]	ND	U	(0.0568	)[1]	ND	U	(0.0604	)[1]	ND	U	(0.0502	)[1]
Acenaphthene	0.0217	JL	(0.0121	)[1]	1.10	JL	(0.0114	)[1]	ND	UJL	(0.0121	)[1]	0.0194	J	(0.0100	)[1]
Acenaphthylene	0.0691		(0.0121	)[1]	0.118		(0.0114	)[1]	0.0185	J	(0.0121	)[1]	0.0489		(0.0100	)[1]
Acetophenone	ND	U	(0.0121	)[1]	ND	U	(0.0114	)[1]	ND	U	(0.0121	)[1]	ND	U	(0.0100	)[1]
Anthracene	0.0803	JL	(0.0121	)[1]	2.33	JL	(0.0114	)[1]	ND	R	(0.0121	)[1]	0.0710		(0.0100	)[1]
Aroclor 1016	ND	U	(0.0201	)[1]	ND	U	(0.0189	)[1]	ND	U	(0.0201	)[1]	ND	U	(0.0167	)[1]
Aroclor 1221	ND	U	(0.0201	)[1]	ND	U	(0.0189	)[1]	ND	U	(0.0201	)[1]	ND	U	(0.0167	)[1]
Aroclor 1232	ND	U	(0.0201	)[1]	ND	U	(0.0189	)[1]	ND	U	(0.0201	)[1]	ND	U	(0.0167	)[1]
Aroclor 1242	ND	U	(0.0201	)[1]	ND	U	(0.0189	)[1]	ND	U	(0.0201	)[1]	ND	U	(0.0167	)[1]
Aroclor 1248	ND	U	(0.0201	)[1]	ND	U	(0.0189	)[1]	ND	U	(0.0201	)[1]	ND	U	(0.0167	)[1]
Aroclor 1254	ND	U	(0.0201	)[1]	ND	U	(0.0189	)[1]	ND	U	(0.0201	)[1]	ND	U	(0.0167	)[1]
Aroclor 1260	0.0359	J	(0.0201	)[1]	ND	U	(0.0189	)[1]	ND	U	(0.0201	)[1]	ND	U	(0.0167	)[1]
Atrazine	ND	U	(0.0121	)[1]	ND	U	(0.0114	)[1]	ND	U	(0.0121	)[1]	ND	U	(0.0100	)[1]
Benzaldehyde	ND	UX7	(0.0121	)[1]	ND	UX7	(0.0114	)[1]	ND	UX7	(0.0121	)[1]	ND	UX7	(0.0100	)[1]
Benzo(a)anthracene	0.364		(0.0121	)[1]	3.88		(0.114	)[10]	0.0330		(0.0121	)[1]	0.509		(0.0100	)[1]
Benzo(a)pyrene	0.384		(0.0121	)[1]	3.31		(0.0114	)[1]	0.0467		(0.0121	)[1]	0.542		(0.0100	)[1]
Benzo(b)fluoranthene	0.402		(0.0121	)[1]	2.83		(0.114	)[10]	0.0346		(0.0121	)[1]	0.615		(0.0100	)[1]
Benzo(g,h,i)perylene	0.308	JL	(0.0121	)[1]	1.85	JL	(0.0114	)[1]	0.0314	JL	(0.0121	)[1]	0.417		(0.0100	)[1]
Benzo(k)fluoranthene	0.299		(0.0121	)[1]	2.21		(0.114	)[10]	0.0258	J	(0.0121	)[1]	0.445		(0.0100	)[1]
Benzoic acid	0.0924	J	(0.0603	)[1]	ND	UJ	(0.0568	)[1]	0.0652	J	(0.0604	)[1]	0.0743	J	(0.0502	)[1]
Benzyl alcohol	ND	U	(0.0121	)[1]	ND	U	(0.0114	)[1]	ND	U	(0.0121	)[1]	ND	U	(0.0100	)[1]

PARAMETER	GalInc INC-SB02 INC-SB02-020 25-JUN-15 2.5-3.5				GalInc INC-SB03 INC-SB03-013 25-JUN-15 0-0.5				GalInc INC-SB03 INC-SB03-020 25-JUN-15 2-3				GalInc INC-SB04 INC-SB04-010 25-JUN-15 0-0.5			
SW8270D - Semivolatile Organic Compounds, cont. (mg/kg)																
Biphenyl	ND	U	(0.0121	)[1]	0.104		(0.0114	)[1]	ND	U	(0.0121	)[1]	ND	U	(0.0100	)[1]
Butylbenzylphthalate	ND	U	(0.0482	)[1]	0.0735	J	(0.0454	)[1]	ND	U	(0.0483	)[1]	ND	U	(0.0402	)[1]
Caprolactam	ND	U	(0.0241	)[1]	ND	U	(0.0227	)[1]	ND	U	(0.0241	)[1]	ND	U	(0.0201	)[1]
Carbazole	0.0426	JL	(0.0121	)[1]	1.22	JL	(0.0114	)[1]	ND	UJL	(0.0121	)[1]	0.0475		(0.0100	)[1]
Chrysene	0.362		(0.0121	)[1]	3.67		(0.0114	)[1]	0.0306	J	(0.0121	)[1]	0.528		(0.0100	)[1]
Di-n-butylphthalate	ND	U	(0.0482	)[1]	ND	U	(0.0454	)[1]	ND	U	(0.0483	)[1]	ND	U	(0.0402	)[1]
Di-n-octylphthalate	0.133		(0.0482	)[1]	ND	U	(0.0454	)[1]	0.0523	J	(0.0483	)[1]	0.0529	J	(0.0402	)[1]
Dibenz(a,h)anthracene	0.101	JL	(0.0121	)[1]	1.06	JL	(0.0114	)[1]	ND	UJL	(0.0121	)[1]	0.178		(0.0100	)[1]
Dibenzofuran	ND	UJL	(0.0121	)[1]	0.749	JL	(0.0114	)[1]	ND	UJL	(0.0121	)[1]	ND	U	(0.0100	)[1]
Diethyl phthalate	ND	U	(0.0482	)[1]	ND	U	(0.0454	)[1]	ND	U	(0.0483	)[1]	ND	U	(0.0402	)[1]
Dimethyl phthalate	ND	U	(0.0482	)[1]	ND	U	(0.0454	)[1]	ND	U	(0.0483	)[1]	ND	U	(0.0402	)[1]
Fluoranthene	0.703		(0.0121	)[1]	7.92		(0.114	)[10]	0.0475		(0.0121	)[1]	0.953		(0.0100	)[1]
Fluorene	0.0209	JL	(0.0121	)[1]	1.20	JL	(0.0114	)[1]	ND	UJL	(0.0121	)[1]	0.0141	J	(0.0100	)[1]
Hexachlorobenzene	ND	U	(0.0121	)[1]	ND	U	(0.0114	)[1]	ND	U	(0.0121	)[1]	ND	U	(0.0100	)[1]
Hexachlorobutadiene	ND	U	(0.0121	)[1]	ND	U	(0.0114	)[1]	ND	U	(0.0121	)[1]	ND	U	(0.0100	)[1]
Hexachlorocyclopentadiene	ND	U	(0.0362	)[1]	ND	U	(0.0341	)[1]	ND	U	(0.0362	)[1]	ND	UJL	(0.0301	)[1]
Hexachloroethane	ND	U	(0.0121	)[1]	ND	U	(0.0114	)[1]	ND	U	(0.0121	)[1]	ND	U	(0.0100	)[1]
Indeno(1,2,3-cd)pyrene	0.263	JL	(0.0121	)[1]	1.83	JL	(0.0114	)[1]	0.0241	JL	(0.0121	)[1]	0.374		(0.0100	)[1]
Isophorone	ND	U	(0.0362	)[1]	ND	U	(0.0341	)[1]	ND	U	(0.0362	)[1]	ND	U	(0.0301	)[1]
N-Nitroso-di-n-propylamine	ND	U	(0.0121	)[1]	ND	U	(0.0114	)[1]	ND	U	(0.0121	)[1]	ND	U	(0.0100	)[1]
N-Nitrosodiphenylamine	ND	U	(0.0121	)[1]	ND	U	(0.0114	)[1]	ND	U	(0.0121	)[1]	ND	U	(0.0100	)[1]
Naphthalene	0.0121	JL	(0.0121	)[1]	0.670	JL	(0.0114	)[1]	ND	UJL	(0.0121	)[1]	ND	U	(0.0100	)[1]
Nitrobenzene	ND	U	(0.0121	)[1]	ND	U	(0.0114	)[1]	ND	U	(0.0121	)[1]	ND	U	(0.0100	)[1]
Pentachlorophenol	ND	U	(0.0121	)[1]	ND	U	(0.0114	)[1]	ND	U	(0.0121	)[1]	0.0174	J	(0.0100	)[1]

PARAMETER	GalInc INC-SB02 INC-SB02-020 25-JUN-15 2.5-3.5				GalInc INC-SB03 INC-SB03-013 25-JUN-15 0-0.5				GalInc INC-SB03 INC-SB03-020 25-JUN-15 2-3				GalInc INC-SB04 INC-SB04-010 25-JUN-15 0-0.5			
SW8270D - Semivolatile Organic Compounds, cont. (mg/kg)																
Phenanthrene	0.320		(0.0121	)[1]	7.84		(0.114	)[10]	0.0217	J	(0.0121	)[1]	0.315		(0.0100	)[1]
Phenol	ND	U	(0.0121	)[1]	ND	U	(0.0114	)[1]	ND	U	(0.0121	)[1]	ND	U	(0.0100	)[1]
Pyrene	0.586		(0.0121	)[1]	6.20		(0.114	)[10]	0.0419		(0.0121	)[1]	0.796		(0.0100	)[1]
bis(2-Chloroethoxy)methane	ND	U	(0.0121	)[1]	ND	U	(0.0114	)[1]	ND	U	(0.0121	)[1]	ND	U	(0.0100	)[1]
bis(2-Chloroethyl) ether	ND	U	(0.0121	)[1]	ND	U	(0.0114	)[1]	ND	U	(0.0121	)[1]	ND	U	(0.0100	)[1]
bis(2-Chloroisopropyl) ether	ND	U	(0.0121	)[1]	ND	U	(0.0114	)[1]	ND	U	(0.0121	)[1]	ND	U	(0.0100	)[1]
bis(2-Ethylhexyl)phthalate	0.0498	J	(0.0362	)[1]	0.0568	J	(0.0341	)[1]	0.0402	J	(0.0362	)[1]	0.0616	J	(0.0301	)[1]
SW8290A - Dioxins (ng/kg)																
1,2,3,4,6,7,8-HpCDD	348		(0.719	)[1]	189		(0.529	)[1]	144		(0.486	)[1]	51.1	J	(0.647	)[1]
1,2,3,4,6,7,8-HpCDF	92.6		(0.196	)[1]	58.2	J	(0.195	)[1]	31.8	J	(0.151	)[1]	18.1	J	(0.240	)[1]
1,2,3,4,7,8,9-HpCDF	6.56	JH	(0.462	)[1]	4.49	J	(0.370	)[1]	7.76	J	(0.384	)[1]	0.768	JH	(0.497	)[1]
1,2,3,4,7,8-HxCDD	4.78	JH	(0.550	)[1]	4.84	JH	(0.378	)[1]	6.42	JH	(0.439	)[1]	1.32	JH	(0.487	)[1]
1,2,3,4,7,8-HxCDF	13.5	U	(0.612	)[1]	8.01	U	(0.347	)[1]	5.63	U	(0.376	)[1]	1.45	U	(0.515	)[1]
1,2,3,6,7,8-HxCDD	18.6	U	(0.578	)[1]	12.5	U	(0.406	)[1]	12.1	U	(0.442	)[1]	5.59	U	(0.487	)[1]
1,2,3,6,7,8-HxCDF	11.3	J	(0.504	)[1]	8.32	J	(0.304	)[1]	6.15	J	(0.319	)[1]	3.19	JH	(0.446	)[1]
1,2,3,7,8,9-HxCDD	14.0	U	(0.621	)[1]	9.35	U	(0.443	)[1]	10.4	U	(0.476	)[1]	2.71	U	(0.531	)[1]
1,2,3,7,8,9-HxCDF	4.75	JH	(0.781	)[1]	2.79	JH	(0.425	)[1]	7.59	J	(0.514	)[1]	ND	U	(0.683	)[1]
1,2,3,7,8-PeCDD	8.06	J	(0.763	)[1]	6.16	J	(0.694	)[1]	7.51	J	(0.451	)[1]	1.30	JH	(0.660	)[1]
1,2,3,7,8-PeCDF	8.96	J	(0.359	)[1]	6.95	J	(0.279	)[1]	6.80	J	(0.238	)[1]	1.65	J	(0.372	)[1]
2,3,4,6,7,8-HxCDF	14.2	J	(0.570	)[1]	9.19	J	(0.351	)[1]	7.81	J	(0.357	)[1]	6.31	JH	(0.502	)[1]
2,3,4,7,8-PeCDF	15.2	J	(0.382	)[1]	10.4	J	(0.288	)[1]	6.72	JH	(0.251	)[1]	1.54	JH	(0.373	)[1]
2,3,7,8-TCDD	1.84	JH	(0.576	)[1]	1.47	JH	(0.451	)[1]	1.45	JH	(0.376	)[1]	0.904	JH	(0.563	)[1]
2,3,7,8-TCDF	11.3	J	(0.900	)[1]	6.17	J	(0.633	)[1]	2.40	J	(0.406	)[1]	0.901	JH	(0.697	)[1]

PARAMETER		SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)											
		GalInc INC-SB02 INC-SB02-020 25-JUN-15 2.5-3.5			GalInc INC-SB03 INC-SB03-013 25-JUN-15 0-0.5			GalInc INC-SB03 INC-SB03-020 25-JUN-15 2-3			GalInc INC-SB04 INC-SB04-010 25-JUN-15 0-0.5		
SW8290A - Dioxins, cont. (ng/kg)													
OCDD	2040	(0.706	)[1]	1020	U (0.457	)[1]	909	U (0.549	)[1]	287	U (0.492	)[1]
OCDF	118	(0.421	)[1]	65.4	J (0.200	)[1]	46.9	J (0.407	)[1]	17.7	J (0.591	)[1]

PARAMETER	GalInc INC-SB04 INC-SB04-020 25-JUN-15 2-3				GalInc INC-SB05 INC-SB05-010 25-JUN-15 0-0.5				GalInc INC-SB05 INC-SB05-020 25-JUN-15 2.5-3.5				GalInc INC-SB05 INC-SB05-021 Dup of INC-SB05-0 25-JUN-15 2.5-3.5			
SM2540G - Percent Moisture (%)																
Moisture	10.6		(0.500	)[1]	7.90		(0.500	)[1]	22.6		(0.500	)[1]	18.1		(0.500	)[1]
SW8260C - Volatile Organic Compounds (mg/kg)																
1,1,1,2-Tetrachloroethane	ND	U	(0.00123	)[1]	ND	UJL	(0.000980	)[1]	ND	UJL	(0.00105	)[1]	ND	UJL	(0.00126	)[1]
1,1,1-Trichloroethane	ND	U	(0.00123	)[1]	ND	U	(0.000980	)[1]	ND	U	(0.00105	)[1]	ND	U	(0.00126	)[1]
1,1,2,2-Tetrachloroethane	ND	U	(0.00123	)[1]	ND	U	(0.000980	)[1]	ND	U	(0.00105	)[1]	ND	U	(0.00126	)[1]
1,1,2-Trichloroethane	ND	U	(0.00123	)[1]	ND	U	(0.000980	)[1]	ND	U	(0.00105	)[1]	ND	U	(0.00126	)[1]
1,1,2-Trichlorotrifluoroethane	ND	UJL	(0.00616	)[1]	ND	UJL	(0.00490	)[1]	ND	UJL	(0.00526	)[1]	ND	UJL	(0.00631	)[1]
1,1-Dichloroethane	ND	U	(0.00123	)[1]	ND	U	(0.000980	)[1]	ND	U	(0.00105	)[1]	ND	U	(0.00126	)[1]
1,1-Dichloroethene	ND	U	(0.00123	)[1]	ND	U	(0.000980	)[1]	ND	U	(0.00105	)[1]	ND	U	(0.00126	)[1]
1,1-Dichloropropene	ND	U	(0.00123	)[1]	ND	U	(0.000980	)[1]	ND	U	(0.00105	)[1]	ND	U	(0.00126	)[1]
1,2,3-Trichlorobenzene	ND	U	(0.00123	)[1]	ND	UJL	(0.000980	)[1]	ND	UJL	(0.00105	)[1]	ND	UJL	(0.00126	)[1]
1,2,3-Trichloropropane	ND	UJL	(0.00123	)[1]	ND	UJL	(0.000980	)[1]	ND	U	(0.00105	)[1]	ND	U	(0.00126	)[1]
1,2,4-Trichlorobenzene	ND	U	(0.00123	)[1]	ND	UJL	(0.000980	)[1]	ND	UJL	(0.00105	)[1]	ND	UJL	(0.00126	)[1]
1,2,4-Trimethylbenzene	ND	U	(0.00123	)[1]	ND	UJL	(0.000980	)[1]	ND	UJL	(0.00105	)[1]	ND	UJL	(0.00126	)[1]
1,2-Dibromo-3-chloropropane	ND	U	(0.00123	)[1]	ND	U	(0.000980	)[1]	ND	U	(0.00105	)[1]	ND	U	(0.00126	)[1]
1,2-Dibromoethane	ND	U	(0.00123	)[1]	ND	U	(0.000980	)[1]	ND	U	(0.00105	)[1]	ND	U	(0.00126	)[1]
1,2-Dichlorobenzene	ND	U	(0.00123	)[1]	ND	UJL	(0.000980	)[1]	ND	UJL	(0.00105	)[1]	ND	UJL	(0.00126	)[1]
1,2-Dichloroethane	ND	U	(0.00123	)[1]	ND	U	(0.000980	)[1]	ND	U	(0.00105	)[1]	ND	U	(0.00126	)[1]
1,2-Dichloropropane	ND	U	(0.00123	)[1]	ND	U	(0.000980	)[1]	ND	U	(0.00105	)[1]	ND	U	(0.00126	)[1]
1,3,5-Trimethylbenzene	ND	U	(0.00123	)[1]	ND	UJL	(0.000980	)[1]	ND	UJL	(0.00105	)[1]	ND	UJL	(0.00126	)[1]
1,3-Dichlorobenzene	ND	U	(0.00123	)[1]	ND	UJL	(0.000980	)[1]	ND	UJL	(0.00105	)[1]	ND	UJL	(0.00126	)[1]
1,3-Dichloropropane	ND	U	(0.00123	)[1]	ND	UJL	(0.000980	)[1]	ND	UJL	(0.00105	)[1]	ND	UJL	(0.00126	)[1]
1,4-Dichlorobenzene	ND	U	(0.00123	)[1]	ND	UJL	(0.000980	)[1]	ND	UJL	(0.00105	)[1]	ND	UJL	(0.00126	)[1]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)										
	GalInc INC-SB04 INC-SB04-020 25-JUN-15 2-3			GalInc INC-SB05 INC-SB05-010 25-JUN-15 0-0.5			GalInc INC-SB05 INC-SB05-020 25-JUN-15 2.5-3.5			GalInc INC-SB05 INC-SB05-021 Dup of INC-SB05-0 25-JUN-15 2.5-3.5		
SW8260C - Volatile Organic Compounds, cont. (mg/kg)											
1-Chlorohexane	ND	U	(0.00123)[1]	ND	UJL	(0.000980)[1]	ND	UJL	(0.00105)[1]	ND	UJL (0.00126)[1]
2,2-Dichloropropane	ND	U	(0.00123)[1]	ND	U	(0.000980)[1]	ND	U	(0.00105)[1]	ND	U (0.00126)[1]
2-Butanone(MEK)	ND	U	(0.00616)[1]	ND	U	(0.00490)[1]	0.0353		(0.00526)[1]	0.00837	J (0.00631)[1]
2-Chlorotoluene	ND	U	(0.00123)[1]	ND	UJL	(0.000980)[1]	ND	UJL	(0.00105)[1]	ND	UJL (0.00126)[1]
2-Hexanone	ND	U	(0.00616)[1]	ND	U	(0.00490)[1]	ND	U	(0.00526)[1]	ND	U (0.00631)[1]
4-Chlorotoluene	ND	U	(0.00123)[1]	ND	UJL	(0.000980)[1]	ND	UJL	(0.00105)[1]	ND	UJL (0.00126)[1]
4-Methyl-2-pentanone(MIBK)	ND	U	(0.00616)[1]	ND	U	(0.00490)[1]	ND	U	(0.00526)[1]	ND	U (0.00631)[1]
Acetone	0.187		(0.0185)[1]	ND	U	(0.0147)[1]	0.259		(0.0158)[1]	0.130	(0.0189)[1]
Benzene	ND	U	(0.00123)[1]	ND	U	(0.000980)[1]	0.00174	J	(0.00105)[1]	ND	U (0.00126)[1]
Bromobenzene	ND	U	(0.00123)[1]	ND	UJL	(0.000980)[1]	ND	UJL	(0.00105)[1]	ND	UJL (0.00126)[1]
Bromochloromethane	ND	U	(0.00123)[1]	ND	U	(0.000980)[1]	ND	U	(0.00105)[1]	ND	U (0.00126)[1]
Bromodichloromethane	ND	U	(0.00123)[1]	ND	U	(0.000980)[1]	ND	U	(0.00105)[1]	ND	U (0.00126)[1]
Bromoform	ND	U	(0.00123)[1]	ND	U	(0.000980)[1]	ND	U	(0.00105)[1]	ND	U (0.00126)[1]
Bromomethane	ND	U	(0.00123)[1]	ND	UJL	(0.000980)[1]	ND	U	(0.00105)[1]	ND	U (0.00126)[1]
Carbon disulfide	ND	U	(0.00616)[1]	ND	U	(0.00490)[1]	ND	U	(0.00526)[1]	ND	U (0.00631)[1]
Carbon tetrachloride	ND	U	(0.00123)[1]	ND	U	(0.000980)[1]	ND	U	(0.00105)[1]	ND	U (0.00126)[1]
Chlorobenzene	ND	U	(0.00123)[1]	ND	UJL	(0.000980)[1]	ND	UJL	(0.00105)[1]	ND	UJL (0.00126)[1]
Chloroethane	ND	U	(0.00123)[1]	ND	U	(0.000980)[1]	ND	U	(0.00105)[1]	ND	U (0.00126)[1]
Chloroform	ND	U	(0.00123)[1]	ND	U	(0.000980)[1]	ND	U	(0.00105)[1]	ND	U (0.00126)[1]
Chloromethane	ND	U	(0.00123)[1]	ND	U	(0.000980)[1]	0.00259	J	(0.00105)[1]	ND	U (0.00126)[1]
Cyclohexane	ND	UX7	(0.00616)[1]	ND	UX7	(0.00490)[1]	ND	UX7	(0.00526)[1]	ND	UX7 (0.00631)[1]
Dibromochloromethane	ND	U	(0.00123)[1]	ND	U	(0.000980)[1]	ND	U	(0.00105)[1]	ND	U (0.00126)[1]
Dibromomethane	ND	U	(0.00123)[1]	ND	U	(0.000980)[1]	ND	U	(0.00105)[1]	ND	U (0.00126)[1]
Dichlorodifluoromethane	ND	U	(0.00123)[1]	ND	U	(0.000980)[1]	ND	U	(0.00105)[1]	ND	U (0.00126)[1]

PARAMETER	GalInc INC-SB04 INC-SB04-020 25-JUN-15 2-3	GalInc INC-SB05 INC-SB05-010 25-JUN-15 0-0.5	GalInc INC-SB05 INC-SB05-020 25-JUN-15 2.5-3.5	GalInc INC-SB05 INC-SB05-021 Dup of INC-SB05-0 25-JUN-15 2.5-3.5
SW8260C - Volatile Organic Compounds, cont. (mg/kg)				
Ethylbenzene	ND U (0.00123)[1]	ND UJL(0.000980)[1]	ND UJL(0.00105)[1]	ND UJL(0.00126)[1]
Hexachlorobutadiene	ND U (0.00123)[1]	ND UJL(0.000980)[1]	ND UJL(0.00105)[1]	ND UJL(0.00126)[1]
Isopropylbenzene	ND U (0.00123)[1]	ND UJL(0.000980)[1]	ND UJL(0.00105)[1]	ND UJL(0.00126)[1]
Methyl acetate	ND U (0.00616)[1]	ND U (0.00490)[1]	ND U (0.00526)[1]	ND U (0.00631)[1]
Methyl t-butyl ether	ND U (0.00123)[1]	ND UJL(0.000980)[1]	ND U (0.00105)[1]	ND U (0.00126)[1]
Methylcyclohexane	ND U (0.00616)[1]	ND U (0.00490)[1]	ND U (0.00526)[1]	ND U (0.00631)[1]
Methylene chloride	ND U (0.00616)[1]	ND U (0.00490)[1]	ND U (0.00526)[1]	ND U (0.00631)[1]
Naphthalene	ND U (0.00616)[1]	ND UJL(0.00490)[1]	ND UJL(0.00526)[1]	ND UJL(0.00631)[1]
Styrene	ND U (0.00123)[1]	ND UJL(0.000980)[1]	ND UJL(0.00105)[1]	ND UJL(0.00126)[1]
Tetrachloroethene	ND U (0.00123)[1]	ND UJL(0.000980)[1]	ND UJL(0.00105)[1]	ND UJL(0.00126)[1]
Toluene	ND U (0.00123)[1]	ND U (0.000980)[1]	ND U (0.00105)[1]	ND U (0.00126)[1]
Trichloroethene	ND U (0.00123)[1]	ND U (0.000980)[1]	ND U (0.00105)[1]	ND U (0.00126)[1]
Trichlorofluoromethane	ND U (0.00616)[1]	ND U (0.00490)[1]	ND U (0.00526)[1]	ND U (0.00631)[1]
Vinyl chloride	ND U (0.00123)[1]	ND U (0.000980)[1]	ND U (0.00105)[1]	ND U (0.00126)[1]
cis-1,2-Dichloroethene	ND U (0.00123)[1]	ND U (0.000980)[1]	ND U (0.00105)[1]	ND U (0.00126)[1]
cis-1,3-Dichloropropene	ND U (0.00123)[1]	ND U (0.000980)[1]	ND U (0.00105)[1]	ND U (0.00126)[1]
m & p-Xylene	ND U (0.00123)[1]	ND UJL(0.000980)[1]	ND UJL(0.00105)[1]	ND UJL(0.00126)[1]
n-Butylbenzene	ND U (0.00123)[1]	ND UJL(0.000980)[1]	ND UJL(0.00105)[1]	ND UJL(0.00126)[1]
n-Propylbenzene	ND U (0.00123)[1]	ND UJL(0.000980)[1]	ND UJL(0.00105)[1]	ND UJL(0.00126)[1]
o-Xylene	ND U (0.00123)[1]	ND UJL(0.000980)[1]	ND UJL(0.00105)[1]	ND UJL(0.00126)[1]
p-Isopropyltoluene	ND U (0.00123)[1]	ND UJL(0.000980)[1]	ND UJL(0.00105)[1]	ND UJL(0.00126)[1]
sec-Butylbenzene	ND U (0.00123)[1]	ND UJL(0.000980)[1]	ND UJL(0.00105)[1]	ND UJL(0.00126)[1]
tert-Butylbenzene	ND U (0.00123)[1]	ND UJL(0.000980)[1]	ND UJL(0.00105)[1]	ND UJL(0.00126)[1]
trans-1,2-Dichloroethene	ND U (0.00123)[1]	ND U (0.000980)[1]	ND U (0.00105)[1]	ND U (0.00126)[1]

PARAMETER	GalInc INC-SB04 INC-SB04-020 25-JUN-15 2-3				GalInc INC-SB05 INC-SB05-010 25-JUN-15 0-0.5				GalInc INC-SB05 INC-SB05-020 25-JUN-15 2.5-3.5				GalInc INC-SB05 INC-SB05-021 Dup of INC-SB05-0 25-JUN-15 2.5-3.5			
SW8260C - Volatile Organic Compounds, cont. (mg/kg)																
trans-1,3-Dichloropropene	ND	U	(0.00123	)[1]	ND	U	(0.000980	)[1]	ND	U	(0.00105	)[1]	ND	U	(0.00126	)[1]
SW8270D - Semivolatile Organic Compounds (mg/kg)																
2,4,5-Trichlorophenol	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
2,4,6-Trichlorophenol	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
2,4-Dichlorophenol	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
2,4-Dimethylphenol	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
2,4-Dinitrophenol	ND	U	(0.0555	)[1]	ND	U	(0.0538	)[1]	ND	U	(0.0564	)[1]	ND	U	(0.0537	)[1]
2,4-Dinitrotoluene	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
2,6-Dinitrotoluene	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
2-Chloronaphthalene	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
2-Chlorophenol	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
2-Methylnaphthalene	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
2-Methylphenol	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
2-Nitroaniline	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
2-Nitrophenol	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
3,3'-Dichlorobenzidine	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
3-Nitroaniline	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
4,6-Dinitro-2-methylphenol	ND	U	(0.0333	)[1]	ND	U	(0.0323	)[1]	ND	U	(0.0338	)[1]	ND	U	(0.0322	)[1]
4-Bromophenyl phenyl ether	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
4-Chloro-3-methylphenol	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
4-Chloroaniline	ND	U	(0.0333	)[1]	ND	U	(0.0323	)[1]	ND	U	(0.0338	)[1]	ND	U	(0.0322	)[1]
4-Chlorophenyl phenyl ether	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
4-Methylphenol	ND	U	(0.0222	)[1]	ND	U	(0.0215	)[1]	ND	U	(0.0225	)[1]	ND	U	(0.0215	)[1]

PARAMETER	GalInc INC-SB04 INC-SB04-020 25-JUN-15 2-3				GalInc INC-SB05 INC-SB05-010 25-JUN-15 0-0.5				GalInc INC-SB05 INC-SB05-020 25-JUN-15 2.5-3.5				GalInc INC-SB05 INC-SB05-021 Dup of INC-SB05-0 25-JUN-15 2.5-3.5			
SW8270D - Semivolatile Organic Compounds, cont. (mg/kg)																
4-Nitroaniline	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
4-Nitrophenol	ND	U	(0.0555	)[1]	ND	U	(0.0538	)[1]	ND	U	(0.0564	)[1]	ND	U	(0.0537	)[1]
Acenaphthene	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
Acenaphthylene	ND	U	(0.0111	)[1]	0.0215	J	(0.0108	)[1]	ND	U	(0.0113	)[1]	0.0179	J	(0.0107	)[1]
Acetophenone	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
Anthracene	ND	U	(0.0111	)[1]	0.0136	J	(0.0108	)[1]	ND	U	(0.0113	)[1]	0.0179	J	(0.0107	)[1]
Aroclor 1016	ND	U	(0.0185	)[1]	ND	U	(0.0179	)[1]	ND	U	(0.0188	)[1]	ND	U	(0.0179	)[1]
Aroclor 1221	ND	U	(0.0185	)[1]	ND	U	(0.0179	)[1]	ND	U	(0.0188	)[1]	ND	U	(0.0179	)[1]
Aroclor 1232	ND	U	(0.0185	)[1]	ND	U	(0.0179	)[1]	ND	U	(0.0188	)[1]	ND	U	(0.0179	)[1]
Aroclor 1242	ND	U	(0.0185	)[1]	ND	U	(0.0179	)[1]	ND	U	(0.0188	)[1]	ND	U	(0.0179	)[1]
Aroclor 1248	ND	U	(0.0185	)[1]	ND	U	(0.0179	)[1]	ND	U	(0.0188	)[1]	ND	U	(0.0179	)[1]
Aroclor 1254	ND	U	(0.0185	)[1]	ND	U	(0.0179	)[1]	ND	U	(0.0188	)[1]	ND	U	(0.0179	)[1]
Aroclor 1260	ND	U	(0.0185	)[1]	ND	U	(0.0179	)[1]	ND	U	(0.0188	)[1]	ND	U	(0.0179	)[1]
Atrazine	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
Benzaldehyde	ND	UX7	(0.0111	)[1]	ND	UX7	(0.0108	)[1]	ND	UX7	(0.0113	)[1]	ND	UX7	(0.0107	)[1]
Benzo(a)anthracene	ND	U	(0.0111	)[1]	0.0688		(0.0108	)[1]	0.0443		(0.0113	)[1]	0.217		(0.0107	)[1]
Benzo(a)pyrene	ND	U	(0.0111	)[1]	0.102		(0.0108	)[1]	0.0601	J	(0.0113	)[1]	0.239	J	(0.0107	)[1]
Benzo(b)fluoranthene	ND	U	(0.0111	)[1]	0.108		(0.0108	)[1]	0.0443		(0.0113	)[1]	0.246		(0.0107	)[1]
Benzo(g,h,i)perylene	ND	UJL	(0.0111	)[1]	0.0724	JL	(0.0108	)[1]	0.0383	JL	(0.0113	)[1]	0.166	JL	(0.0107	)[1]
Benzo(k)fluoranthene	ND	U	(0.0111	)[1]	0.0631		(0.0108	)[1]	0.0323		(0.0113	)[1]	0.141		(0.0107	)[1]
Benzoic acid	0.0570	J	(0.0555	)[1]	0.0731	J	(0.0538	)[1]	0.0759	J	(0.0564	)[1]	0.0659	J	(0.0537	)[1]
Benzyl alcohol	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
Biphenyl	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
Butylbenzylphthalate	ND	U	(0.0444	)[1]	ND	U	(0.0430	)[1]	ND	U	(0.0451	)[1]	ND	U	(0.0430	)[1]

PARAMETER	GalInc INC-SB04 INC-SB04-020 25-JUN-15 2-3				GalInc INC-SB05 INC-SB05-010 25-JUN-15 0-0.5				GalInc INC-SB05 INC-SB05-020 25-JUN-15 2.5-3.5				GalInc INC-SB05 INC-SB05-021 Dup of INC-SB05-0 25-JUN-15 2.5-3.5			
SW8270D - Semivolatile Organic Compounds, cont. (mg/kg)																
Caprolactam	0.0252	J	(0.0222	)[1]	ND	U	(0.0215	)[1]	0.0398		(0.0225	)[1]	ND	U	(0.0215	)[1]
Carbazole	ND	U	(0.0111	)[1]	0.0108	J	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
Chrysene	ND	U	(0.0111	)[1]	0.0882		(0.0108	)[1]	0.0443		(0.0113	)[1]	0.216	J	(0.0107	)[1]
Di-n-butylphthalate	ND	U	(0.0444	)[1]	0.0437	J	(0.0430	)[1]	0.0503	J	(0.0451	)[1]	ND	U	(0.0430	)[1]
Di-n-octylphthalate	0.0563	J	(0.0444	)[1]	ND	U	(0.0430	)[1]	0.0639	J	(0.0451	)[1]	0.0975		(0.0430	)[1]
Dibenz(a,h)anthracene	ND	U	(0.0111	)[1]	0.0272	J	(0.0108	)[1]	0.0158	J	(0.0113	)[1]	0.0645		(0.0107	)[1]
Dibenzofuran	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
Diethyl phthalate	ND	U	(0.0444	)[1]	ND	U	(0.0430	)[1]	ND	U	(0.0451	)[1]	ND	U	(0.0430	)[1]
Dimethyl phthalate	ND	U	(0.0444	)[1]	ND	U	(0.0430	)[1]	ND	U	(0.0451	)[1]	ND	U	(0.0430	)[1]
Fluoranthene	ND	U	(0.0111	)[1]	0.166		(0.0108	)[1]	0.0631	J	(0.0113	)[1]	0.362	J	(0.0107	)[1]
Fluorene	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
Hexachlorobenzene	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
Hexachlorobutadiene	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
Hexachlorocyclopentadiene	ND	U	(0.0333	)[1]	ND	U	(0.0323	)[1]	ND	U	(0.0338	)[1]	ND	U	(0.0322	)[1]
Hexachloroethane	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
Indeno(1,2,3-cd)pyrene	ND	U	(0.0111	)[1]	0.0588		(0.0108	)[1]	0.0346		(0.0113	)[1]	0.143		(0.0107	)[1]
Isophorone	ND	U	(0.0333	)[1]	ND	U	(0.0323	)[1]	ND	U	(0.0338	)[1]	ND	U	(0.0322	)[1]
N-Nitroso-di-n-propylamine	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
N-Nitrosodiphenylamine	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
Naphthalene	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
Nitrobenzene	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
Pentachlorophenol	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
Phenanthrene	ND	U	(0.0111	)[1]	0.0545		(0.0108	)[1]	0.0173	J	(0.0113	)[1]	0.0760		(0.0107	)[1]
Phenol	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]

PARAMETER	GalInc INC-SB04 INC-SB04-020 25-JUN-15 2-3				GalInc INC-SB05 INC-SB05-010 25-JUN-15 0-0.5				GalInc INC-SB05 INC-SB05-020 25-JUN-15 2.5-3.5				GalInc INC-SB05 INC-SB05-021 Dup of INC-SB05-0 25-JUN-15 2.5-3.5			
SW8270D - Semivolatile Organic Compounds, cont. (mg/kg)																
Pyrene	ND	UJL	(0.0111	)[1]	0.130	JL	(0.0108	)[1]	0.0564	JL	(0.0113	)[1]	0.325	JL	(0.0107	)[1]
bis(2-Chloroethoxy)methane	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
bis(2-Chloroethyl) ether	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
bis(2-Chloroisopropyl) ether	ND	U	(0.0111	)[1]	ND	U	(0.0108	)[1]	ND	U	(0.0113	)[1]	ND	U	(0.0107	)[1]
bis(2-Ethylhexyl)phthalate	0.0400	J	(0.0333	)[1]	0.0609	J	(0.0323	)[1]	0.0406	J	(0.0338	)[1]	0.0516	J	(0.0322	)[1]
SW8290A - Dioxins (ng/kg)																
1,2,3,4,6,7,8-HpCDD	1.75	U	(0.238	)[1]	142		(0.558	)[1]	242	J	(0.739	)[1]	249	J	(0.532	)[1]
1,2,3,4,6,7,8-HpCDF	0.440	JH	(0.0594	)[1]	39.0	J	(0.246	)[1]	48.7	J	(0.257	)[1]	31.9	J	(0.135	)[1]
1,2,3,4,7,8,9-HpCDF	0.301	U	(0.157	)[1]	3.61	JH	(0.428	)[1]	5.57	JH	(0.543	)[1]	2.15	J	(0.316	)[1]
1,2,3,4,7,8-HxCDD	ND	U	(0.174	)[1]	3.15	JH	(0.513	)[1]	4.83	JH	(0.841	)[1]	4.21	J	(0.606	)[1]
1,2,3,4,7,8-HxCDF	0.508	U	(0.178	)[1]	6.77	U	(0.455	)[1]	7.20	U	(0.647	)[1]	4.67	U	(0.404	)[1]
1,2,3,6,7,8-HxCDD	ND	U	(0.183	)[1]	7.78	U	(0.529	)[1]	23.0	U	(0.837	)[1]	19.6	U	(0.615	)[1]
1,2,3,6,7,8-HxCDF	ND	U	(0.146	)[1]	6.49	JH	(0.409	)[1]	7.60	J	(0.551	)[1]	4.04	JH	(0.336	)[1]
1,2,3,7,8,9-HxCDD	0.201	U	(0.192	)[1]	7.66	U	(0.565	)[1]	18.2	U	(0.914	)[1]	15.4	U	(0.636	)[1]
1,2,3,7,8,9-HxCDF	1.06	U	(0.190	)[1]	1.90	JH	(0.590	)[1]	4.81	JH	(0.976	)[1]	2.90	J	(0.547	)[1]
1,2,3,7,8-PeCDD	ND	U	(0.271	)[1]	2.30	JH	(0.619	)[1]	7.03	J	(1.27	)[1]	8.42	J	(0.895	)[1]
1,2,3,7,8-PeCDF	0.733	JH	(0.150	)[1]	6.18	J	(0.293	)[1]	6.89	JH	(0.415	)[1]	3.64	J	(0.253	)[1]
2,3,4,6,7,8-HxCDF	0.239	U	(0.167	)[1]	8.70	JH	(0.364	)[1]	7.44	J	(0.633	)[1]	6.69	J	(0.360	)[1]
2,3,4,7,8-PeCDF	0.456	JH	(0.164	)[1]	6.53	JH	(0.309	)[1]	9.81	J	(0.425	)[1]	5.60	J	(0.263	)[1]
2,3,7,8-TCDD	0.399	JH	(0.296	)[1]	ND	U	(0.534	)[1]	1.31	JH	(0.976	)[1]	1.63	JH	(0.746	)[1]
2,3,7,8-TCDF	ND	U	(0.314	)[1]	5.99	J	(0.727	)[1]	11.4	J	(1.49	)[1]	7.08	J	(0.705	)[1]
OCDD	31.8	U	(0.323	)[1]	821	U	(0.498	)[1]	1170	U	(0.805	)[1]	1040	U	(0.479	)[1]
OCDF	0.782	U	(0.290	)[1]	46.5	J	(0.292	)[1]	58.3	J	(0.500	)[1]	31.5	J	(0.379	)[1]

PARAMETER	GalInc INC-SB06 INC-SB06-010 24-JUN-15 0-0.5			GalInc INC-SB06 INC-SB06-020 24-JUN-15 3-4			GalInc INC-SB07 INC-SB07-010 24-JUN-15 0-0.5			GalInc INC-SB07 INC-SB07-020 24-JUN-15 2-3		
SM2540G - Percent Moisture (%)												
Moisture	7.20	(0.500	)[1]	16.3	(0.500	)[1]	15.5	(0.500	)[1]	24.1	(0.500	)[1]
SW8260C - Volatile Organic Compounds (mg/kg)												
1,1,1,2-Tetrachloroethane	ND	UJL(0.00140	)[1]	ND	UJL(0.00140	)[1]	ND	UJL(0.00140	)[1]	ND	UJL(0.00131	)[1]
1,1,1-Trichloroethane	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00131	)[1]
1,1,2,2-Tetrachloroethane	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00131	)[1]
1,1,2-Trichloroethane	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00131	)[1]
1,1,2-Trichlorotrifluoroethane	ND	UJL(0.00698	)[1]	ND	UJL(0.00698	)[1]	ND	UJL(0.00698	)[1]	ND	UJL(0.00657	)[1]
1,1-Dichloroethane	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00131	)[1]
1,1-Dichloroethene	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00131	)[1]
1,1-Dichloropropene	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00131	)[1]
1,2,3-Trichlorobenzene	ND	UJL(0.00140	)[1]	ND	UJL(0.00140	)[1]	ND	UJL(0.00140	)[1]	ND	UJL(0.00131	)[1]
1,2,3-Trichloropropane	ND	UJL(0.00140	)[1]	ND	UJL(0.00140	)[1]	ND	UJL(0.00140	)[1]	ND	UJL(0.00131	)[1]
1,2,4-Trichlorobenzene	ND	UJL(0.00140	)[1]	ND	UJL(0.00140	)[1]	ND	UJL(0.00140	)[1]	ND	UJL(0.00131	)[1]
1,2,4-Trimethylbenzene	ND	UJL(0.00140	)[1]	0.207	JL (0.00140	)[1]	ND	UJL(0.00140	)[1]	ND	UJL(0.00131	)[1]
1,2-Dibromo-3-chloropropane	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00131	)[1]
1,2-Dibromoethane	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00131	)[1]
1,2-Dichlorobenzene	ND	UJL(0.00140	)[1]	ND	UJL(0.00140	)[1]	ND	UJL(0.00140	)[1]	ND	UJL(0.00131	)[1]
1,2-Dichloroethane	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00131	)[1]
1,2-Dichloropropane	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00140	)[1]	ND	U (0.00131	)[1]
1,3,5-Trimethylbenzene	ND	UJL(0.00140	)[1]	0.0548	JL (0.00140	)[1]	ND	UJL(0.00140	)[1]	ND	UJL(0.00131	)[1]
1,3-Dichlorobenzene	ND	UJL(0.00140	)[1]	ND	UJL(0.00140	)[1]	ND	UJL(0.00140	)[1]	ND	UJL(0.00131	)[1]

PARAMETER	GalInc INC-SB06 INC-SB06-010 24-JUN-15 0-0.5		GalInc INC-SB06 INC-SB06-020 24-JUN-15 3-4		GalInc INC-SB07 INC-SB07-010 24-JUN-15 0-0.5		GalInc INC-SB07 INC-SB07-020 24-JUN-15 2-3	
SW8260C - Volatile Organic Compounds, cont. (mg/kg)								
1,3-Dichloropropane	ND	UJL(0.00140)[1]	ND	UJL(0.00140)[1]	ND	UJL(0.00140)[1]	ND	UJL(0.00131)[1]
1,4-Dichlorobenzene	ND	UJL(0.00140)[1]	ND	UJL(0.00140)[1]	ND	UJL(0.00140)[1]	ND	UJL(0.00131)[1]
1-Chlorohexane	ND	UJL(0.00140)[1]	ND	UJL(0.00140)[1]	ND	UJL(0.00140)[1]	ND	UJL(0.00131)[1]
2,2-Dichloropropane	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00131)[1]
2-Butanone(MEK)	ND	U (0.00698)[1]	0.0632	(0.00698)[1]	ND	U (0.00698)[1]	0.0318	(0.00657)[1]
2-Chlorotoluene	ND	UJL(0.00140)[1]	ND	UJL(0.00140)[1]	ND	UJL(0.00140)[1]	ND	UJL(0.00131)[1]
2-Hexanone	ND	U (0.00698)[1]	ND	U (0.00698)[1]	ND	U (0.00698)[1]	ND	U (0.00657)[1]
4-Chlorotoluene	ND	UJL(0.00140)[1]	ND	UJL(0.00140)[1]	ND	UJL(0.00140)[1]	ND	UJL(0.00131)[1]
4-Methyl-2-pentanone(MIBK)	ND	U (0.00698)[1]	ND	U (0.00698)[1]	ND	U (0.00698)[1]	ND	U (0.00657)[1]
Acetone	ND	U (0.0209)[1]	0.387	(0.0210)[1]	ND	U (0.0209)[1]	0.154	(0.0197)[1]
Benzene	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00131)[1]
Bromobenzene	ND	UJL(0.00140)[1]	ND	UJL(0.00140)[1]	ND	UJL(0.00140)[1]	ND	UJL(0.00131)[1]
Bromochloromethane	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00131)[1]
Bromodichloromethane	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00131)[1]
Bromoform	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00131)[1]
Bromomethane	ND	UJL(0.00140)[1]	ND	UJL(0.00140)[1]	ND	UJL(0.00140)[1]	ND	UJL(0.00131)[1]
Carbon disulfide	ND	U (0.00698)[1]	0.00760	J (0.00698)[1]	ND	U (0.00698)[1]	ND	U (0.00657)[1]
Carbon tetrachloride	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00131)[1]
Chlorobenzene	ND	UJL(0.00140)[1]	ND	UJL(0.00140)[1]	ND	UJL(0.00140)[1]	ND	UJL(0.00131)[1]
Chloroethane	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00131)[1]
Chloroform	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00131)[1]
Chloromethane	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00131)[1]
Cyclohexane	ND	UX7(0.00698)[1]	0.0228	X7 (0.00698)[1]	ND	UX7(0.00698)[1]	ND	UX7(0.00657)[1]
Dibromochloromethane	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00140)[1]	ND	U (0.00131)[1]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)	GalInc INC-SB06 INC-SB06-010 24-JUN-15 0-0.5	GalInc INC-SB06 INC-SB06-020 24-JUN-15 3-4	GalInc INC-SB07 INC-SB07-010 24-JUN-15 0-0.5	GalInc INC-SB07 INC-SB07-020 24-JUN-15 2-3
SW8260C - Volatile Organic Compounds, cont.	(mg/kg)				
Dibromomethane	ND	U (0.00140)[1]	ND U (0.00140)[1]	ND U (0.00140)[1]	ND U (0.00131)[1]
Dichlorodifluoromethane	ND	U (0.00140)[1]	ND U (0.00140)[1]	ND U (0.00140)[1]	ND U (0.00131)[1]
Ethylbenzene	ND	UJL(0.00140)[1]	0.0205 JL (0.00140)[1]	ND UJL(0.00140)[1]	ND UJL(0.00131)[1]
Hexachlorobutadiene	ND	UJL(0.00140)[1]	ND UJL(0.00140)[1]	ND UJL(0.00140)[1]	ND UJL(0.00131)[1]
Isopropylbenzene	ND	UJL(0.00140)[1]	0.0127 JL (0.00140)[1]	ND UJL(0.00140)[1]	ND UJL(0.00131)[1]
Methyl acetate	ND	U (0.00698)[1]	ND U (0.00698)[1]	ND U (0.00698)[1]	ND U (0.00657)[1]
Methyl t-butyl ether	ND	UJL(0.00140)[1]	ND UJL(0.00140)[1]	ND UJL(0.00140)[1]	ND UJL(0.00131)[1]
Methylcyclohexane	ND	U (0.00698)[1]	0.0835 (0.00698)[1]	ND U (0.00698)[1]	ND U (0.00657)[1]
Methylene chloride	ND	U (0.00698)[1]	ND U (0.00698)[1]	ND U (0.00698)[1]	ND U (0.00657)[1]
Naphthalene	ND	UJL(0.00698)[1]	0.0931 JL (0.00698)[1]	ND UJL(0.00698)[1]	ND UJL(0.00657)[1]
Styrene	ND	UJL(0.00140)[1]	ND UJL(0.00140)[1]	ND UJL(0.00140)[1]	ND UJL(0.00131)[1]
Tetrachloroethene	ND	UJL(0.00140)[1]	ND UJL(0.00140)[1]	ND UJL(0.00140)[1]	ND UJL(0.00131)[1]
Toluene	ND	U (0.00140)[1]	0.00686 J (0.00140)[1]	ND U (0.00140)[1]	ND U (0.00131)[1]
Trichloroethene	ND	U (0.00140)[1]	ND U (0.00140)[1]	ND U (0.00140)[1]	ND U (0.00131)[1]
Trichlorofluoromethane	ND	U (0.00698)[1]	ND U (0.00698)[1]	ND U (0.00698)[1]	ND U (0.00657)[1]
Vinyl chloride	ND	U (0.00140)[1]	ND U (0.00140)[1]	ND U (0.00140)[1]	ND U (0.00131)[1]
cis-1,2-Dichloroethene	ND	U (0.00140)[1]	ND U (0.00140)[1]	ND U (0.00140)[1]	ND U (0.00131)[1]
cis-1,3-Dichloropropene	ND	U (0.00140)[1]	ND U (0.00140)[1]	ND U (0.00140)[1]	ND U (0.00131)[1]
m & p-Xylene	ND	UJL(0.00140)[1]	0.0553 JL (0.00140)[1]	ND UJL(0.00140)[1]	ND UJL(0.00131)[1]
n-Butylbenzene	ND	UJL(0.00140)[1]	0.00567 JL (0.00140)[1]	ND UJL(0.00140)[1]	ND UJL(0.00131)[1]
n-Propylbenzene	ND	UJL(0.00140)[1]	0.0192 JL (0.00140)[1]	ND UJL(0.00140)[1]	ND UJL(0.00131)[1]
o-Xylene	ND	UJL(0.00140)[1]	0.0213 JL (0.00140)[1]	ND UJL(0.00140)[1]	ND UJL(0.00131)[1]
p-Isopropyltoluene	ND	UJL(0.00140)[1]	0.0101 JL (0.00140)[1]	ND UJL(0.00140)[1]	ND UJL(0.00131)[1]
sec-Butylbenzene	ND	UJL(0.00140)[1]	0.00522 JL (0.00140)[1]	ND UJL(0.00140)[1]	ND UJL(0.00131)[1]

PARAMETER	GalInc INC-SB06 INC-SB06-010 24-JUN-15 0-0.5			GalInc INC-SB06 INC-SB06-020 24-JUN-15 3-4			GalInc INC-SB07 INC-SB07-010 24-JUN-15 0-0.5			GalInc INC-SB07 INC-SB07-020 24-JUN-15 2-3		
SW8260C - Volatile Organic Compounds, cont. (mg/kg)												
tert-Butylbenzene	ND	UJL	(0.00140)[1]	ND	UJL	(0.00140)[1]	ND	UJL	(0.00140)[1]	ND	UJL	(0.00131)[1]
trans-1,2-Dichloroethene	ND	U	(0.00140)[1]	ND	U	(0.00140)[1]	ND	U	(0.00140)[1]	ND	U	(0.00131)[1]
trans-1,3-Dichloropropene	ND	U	(0.00140)[1]	ND	U	(0.00140)[1]	ND	U	(0.00140)[1]	ND	U	(0.00131)[1]
SW8270D - Semivolatile Organic Compounds (mg/kg)												
2,4,5-Trichlorophenol	ND	U	(0.0103)[1]	ND	U	(0.110)[10]	ND	U	(0.0110)[1]	ND	U	(0.121)[10]
2,4,6-Trichlorophenol	ND	U	(0.0103)[1]	ND	U	(0.110)[10]	ND	U	(0.0110)[1]	ND	U	(0.121)[10]
2,4-Dichlorophenol	ND	U	(0.0103)[1]	ND	U	(0.110)[10]	ND	U	(0.0110)[1]	ND	U	(0.121)[10]
2,4-Dimethylphenol	ND	U	(0.0103)[1]	ND	U	(0.110)[10]	ND	U	(0.0110)[1]	ND	U	(0.121)[10]
2,4-Dinitrophenol	ND	U	(0.0517)[1]	ND	U	(0.548)[10]	ND	U	(0.0548)[1]	ND	U	(0.605)[10]
2,4-Dinitrotoluene	ND	U	(0.0103)[1]	ND	U	(0.110)[10]	ND	U	(0.0110)[1]	ND	U	(0.121)[10]
2,6-Dinitrotoluene	ND	U	(0.0103)[1]	ND	U	(0.110)[10]	ND	U	(0.0110)[1]	ND	U	(0.121)[10]
2-Chloronaphthalene	ND	U	(0.0103)[1]	ND	U	(0.110)[10]	ND	U	(0.0110)[1]	ND	U	(0.121)[10]
2-Chlorophenol	ND	U	(0.0103)[1]	ND	U	(0.110)[10]	ND	U	(0.0110)[1]	ND	U	(0.121)[10]
2-Methylnaphthalene	ND	U	(0.0103)[1]	ND	U	(0.110)[10]	ND	U	(0.0110)[1]	ND	U	(0.121)[10]
2-Methylphenol	ND	U	(0.0103)[1]	ND	U	(0.110)[10]	ND	U	(0.0110)[1]	ND	U	(0.121)[10]
2-Nitroaniline	ND	U	(0.0103)[1]	ND	U	(0.110)[10]	ND	U	(0.0110)[1]	ND	U	(0.121)[10]
2-Nitrophenol	ND	U	(0.0103)[1]	ND	U	(0.110)[10]	ND	U	(0.0110)[1]	ND	U	(0.121)[10]
3,3'-Dichlorobenzidine	ND	U	(0.0103)[1]	ND	U	(0.110)[10]	ND	U	(0.0110)[1]	ND	U	(0.121)[10]
3-Nitroaniline	ND	U	(0.0103)[1]	ND	U	(0.110)[10]	ND	U	(0.0110)[1]	ND	U	(0.121)[10]
4,6-Dinitro-2-methylphenol	ND	U	(0.0310)[1]	ND	U	(0.329)[10]	ND	U	(0.0329)[1]	ND	U	(0.363)[10]
4-Bromophenyl phenyl ether	ND	U	(0.0103)[1]	ND	U	(0.110)[10]	ND	U	(0.0110)[1]	ND	U	(0.121)[10]
4-Chloro-3-methylphenol	ND	U	(0.0103)[1]	ND	U	(0.110)[10]	ND	U	(0.0110)[1]	ND	U	(0.121)[10]
4-Chloroaniline	ND	U	(0.0310)[1]	ND	U	(0.329)[10]	ND	U	(0.0329)[1]	ND	U	(0.363)[10]

PARAMETER	GalInc INC-SB06 INC-SB06-010 24-JUN-15 0-0.5				GalInc INC-SB06 INC-SB06-020 24-JUN-15 3-4				GalInc INC-SB07 INC-SB07-010 24-JUN-15 0-0.5				GalInc INC-SB07 INC-SB07-020 24-JUN-15 2-3			
SW8270D - Semivolatile Organic Compounds, cont. (mg/kg)																
4-Chlorophenyl phenyl ether	ND	U	(0.0103	)[1]	ND	U	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
4-Methylphenol	ND	U	(0.0207	)[1]	ND	U	(0.219	)[10]	ND	U	(0.0219	)[1]	ND	U	(0.242	)[10]
4-Nitroaniline	ND	U	(0.0103	)[1]	ND	U	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
4-Nitrophenol	ND	U	(0.0517	)[1]	ND	U	(0.548	)[10]	ND	U	(0.0548	)[1]	ND	U	(0.605	)[10]
Acenaphthene	ND	U	(0.0103	)[1]	0.117	J	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
Acenaphthylene	0.0317		(0.0103	)[1]	0.153	J	(0.110	)[10]	0.0278	J	(0.0110	)[1]	0.185	J	(0.121	)[10]
Acetophenone	ND	U	(0.0103	)[1]	ND	U	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
Anthracene	0.0289		(0.0103	)[1]	0.183	J	(0.110	)[10]	0.0205	J	(0.0110	)[1]	ND	U	(0.121	)[10]
Aroclor 1016	ND	U	(0.0172	)[1]	ND	U	(0.0183	)[1]	ND	U	(0.0183	)[1]	ND	U	(0.0202	)[1]
Aroclor 1221	ND	U	(0.0172	)[1]	ND	U	(0.0183	)[1]	ND	U	(0.0183	)[1]	ND	U	(0.0202	)[1]
Aroclor 1232	ND	U	(0.0172	)[1]	ND	U	(0.0183	)[1]	ND	U	(0.0183	)[1]	ND	U	(0.0202	)[1]
Aroclor 1242	ND	U	(0.0172	)[1]	ND	U	(0.0183	)[1]	ND	U	(0.0183	)[1]	ND	U	(0.0202	)[1]
Aroclor 1248	ND	U	(0.0172	)[1]	ND	U	(0.0183	)[1]	ND	U	(0.0183	)[1]	ND	U	(0.0202	)[1]
Aroclor 1254	0.0436		(0.0172	)[1]	ND	U	(0.0183	)[1]	ND	U	(0.0183	)[1]	ND	U	(0.0202	)[1]
Aroclor 1260	0.0297	J	(0.0172	)[1]	ND	U	(0.0183	)[1]	ND	U	(0.0183	)[1]	ND	U	(0.0202	)[1]
Atrazine	ND	U	(0.0103	)[1]	ND	U	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
Benzaldehyde	ND	UX7	(0.0103	)[1]	ND	UX7	(0.110	)[10]	ND	UX7	(0.0110	)[1]	ND	UX7	(0.121	)[10]
Benzo(a)anthracene	0.172		(0.0103	)[1]	0.153	J	(0.110	)[10]	0.0863		(0.0110	)[1]	0.234	J	(0.121	)[10]
Benzo(a)pyrene	0.212		(0.0103	)[1]	0.285	J	(0.110	)[10]	0.105		(0.0110	)[1]	0.379		(0.121	)[10]
Benzo(b)fluoranthene	0.245		(0.0103	)[1]	0.146	J	(0.110	)[10]	0.0994		(0.0110	)[1]	0.194	J	(0.121	)[10]
Benzo(g,h,i)perylene	0.166	JL	(0.0103	)[1]	0.117	JL	(0.110	)[10]	0.0702	JL	(0.0110	)[1]	0.169	JL	(0.121	)[10]
Benzo(k)fluoranthene	0.131		(0.0103	)[1]	ND	U	(0.110	)[10]	0.0570		(0.0110	)[1]	0.153	J	(0.121	)[10]
Benzoic acid	0.0758	J	(0.0517	)[1]	ND	U	(0.548	)[10]	0.0804	J	(0.0548	)[1]	ND	U	(0.605	)[10]
Benzyl alcohol	ND	U	(0.0103	)[1]	ND	U	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]

PARAMETER	GalInc INC-SB06 INC-SB06-010 24-JUN-15 0-0.5				GalInc INC-SB06 INC-SB06-020 24-JUN-15 3-4				GalInc INC-SB07 INC-SB07-010 24-JUN-15 0-0.5				GalInc INC-SB07 INC-SB07-020 24-JUN-15 2-3			
SW8270D - Semivolatile Organic Compounds, cont. (mg/kg)																
Biphenyl	ND	U	(0.0103	)[1]	ND	U	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
Butylbenzylphthalate	ND	U	(0.0413	)[1]	ND	U	(0.438	)[10]	ND	U	(0.0439	)[1]	ND	U	(0.484	)[10]
Caprolactam	ND	U	(0.0207	)[1]	ND	U	(0.219	)[10]	0.0833		(0.0219	)[1]	ND	U	(0.242	)[10]
Carbazole	0.0193	J	(0.0103	)[1]	0.168	J	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
Chrysene	0.172		(0.0103	)[1]	0.124	J	(0.110	)[10]	0.0877		(0.0110	)[1]	0.194	J	(0.121	)[10]
Di-n-butylphthalate	0.0434	J	(0.0413	)[1]	ND	U	(0.438	)[10]	ND	U	(0.0439	)[1]	ND	U	(0.484	)[10]
Di-n-octylphthalate	ND	U	(0.0413	)[1]	0.884		(0.438	)[10]	0.0446	J	(0.0439	)[1]	ND	U	(0.484	)[10]
Dibenz(a,h)anthracene	0.0675		(0.0103	)[1]	ND	U	(0.110	)[10]	0.0263	J	(0.0110	)[1]	ND	U	(0.121	)[10]
Dibenzofuran	ND	U	(0.0103	)[1]	ND	U	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
Diethyl phthalate	ND	U	(0.0413	)[1]	ND	U	(0.438	)[10]	ND	U	(0.0439	)[1]	ND	U	(0.484	)[10]
Dimethyl phthalate	ND	U	(0.0413	)[1]	ND	U	(0.438	)[10]	ND	U	(0.0439	)[1]	ND	U	(0.484	)[10]
Fluoranthene	0.283		(0.0103	)[1]	0.153	J	(0.110	)[10]	0.164		(0.0110	)[1]	0.331		(0.121	)[10]
Fluorene	ND	U	(0.0103	)[1]	ND	U	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
Hexachlorobenzene	ND	U	(0.0103	)[1]	ND	U	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
Hexachlorobutadiene	ND	U	(0.0103	)[1]	ND	U	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
Hexachlorocyclopentadiene	ND	U	(0.0310	)[1]	ND	U	(0.329	)[10]	ND	U	(0.0329	)[1]	ND	U	(0.363	)[10]
Hexachloroethane	ND	U	(0.0103	)[1]	ND	U	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
Indeno(1,2,3-cd)pyrene	0.141		(0.0103	)[1]	ND	U	(0.110	)[10]	0.0578		(0.0110	)[1]	0.169	J	(0.121	)[10]
Isophorone	ND	U	(0.0310	)[1]	ND	U	(0.329	)[10]	ND	U	(0.0329	)[1]	ND	U	(0.363	)[10]
N-Nitroso-di-n-propylamine	ND	U	(0.0103	)[1]	ND	U	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
N-Nitrosodiphenylamine	ND	U	(0.0103	)[1]	ND	U	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
Naphthalene	ND	U	(0.0103	)[1]	0.175	J	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
Nitrobenzene	ND	U	(0.0103	)[1]	ND	U	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
Pentachlorophenol	ND	U	(0.0103	)[1]	ND	U	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]

PARAMETER	GalInc INC-SB06 INC-SB06-010 24-JUN-15 0-0.5				GalInc INC-SB06 INC-SB06-020 24-JUN-15 3-4				GalInc INC-SB07 INC-SB07-010 24-JUN-15 0-0.5				GalInc INC-SB07 INC-SB07-020 24-JUN-15 2-3			
SW8270D - Semivolatile Organic Compounds, cont. (mg/kg)																
Phenanthrene	0.107		(0.0103	)[1]	0.175	J	(0.110	)[10]	0.0687		(0.0110	)[1]	0.169	J	(0.121	)[10]
Phenol	ND	U	(0.0103	)[1]	ND	U	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
Pyrene	0.249	JL	(0.0103	)[1]	0.146	JL	(0.110	)[10]	0.130	JL	(0.0110	)[1]	0.290	JL	(0.121	)[10]
bis(2-Chloroethoxy)methane	ND	U	(0.0103	)[1]	ND	U	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
bis(2-Chloroethyl) ether	ND	U	(0.0103	)[1]	ND	U	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
bis(2-Chloroisopropyl) ether	ND	U	(0.0103	)[1]	ND	U	(0.110	)[10]	ND	U	(0.0110	)[1]	ND	U	(0.121	)[10]
bis(2-Ethylhexyl)phthalate	0.0503	J	(0.0310	)[1]	83.9		(3.29	)[100]	0.0431	J	(0.0329	)[1]	ND	U	(0.363	)[10]
SW8290A - Dioxins (ng/kg)																
1,2,3,4,6,7,8-HpCDD	448		(0.573	)[1]	772		(0.964	)[1]	170		(0.562	)[1]	489		(0.662	)[1]
1,2,3,4,6,7,8-HpCDF	99.3		(0.219	)[1]	73.6		(0.194	)[1]	31.6	J	(0.193	)[1]	98.0		(0.264	)[1]
1,2,3,4,7,8,9-HpCDF	8.41	J	(0.390	)[1]	7.43	JH	(0.370	)[1]	1.91	J	(0.366	)[1]	8.64	JH	(0.392	)[1]
1,2,3,4,7,8-HxCDD	9.21	J	(0.434	)[1]	17.2	JH	(0.577	)[1]	2.57	JH	(0.617	)[1]	10.4	J	(0.394	)[1]
1,2,3,4,7,8-HxCDF	16.2	J	(0.509	)[1]	11.4	J	(0.583	)[1]	5.24	J	(0.491	)[1]	29.2	J	(0.664	)[1]
1,2,3,6,7,8-HxCDD	26.6	JH	(0.461	)[1]	37.7	J	(0.610	)[1]	11.5	JH	(0.642	)[1]	43.1	J	(0.415	)[1]
1,2,3,6,7,8-HxCDF	16.7	JH	(0.460	)[1]	10.6	J	(0.503	)[1]	5.28	J	(0.440	)[1]	27.0	J	(0.624	)[1]
1,2,3,7,8,9-HxCDD	20.3	JH	(0.479	)[1]	38.1	J	(0.642	)[1]	9.29	J	(0.683	)[1]	31.0	J	(0.427	)[1]
1,2,3,7,8,9-HxCDF	ND	U	(0.673	)[1]	3.99	J	(0.670	)[1]	ND	U	(0.615	)[1]	16.2	JH	(0.765	)[1]
1,2,3,7,8-PeCDD	6.77	JH	(0.916	)[1]	12.7	JH	(1.20	)[1]	3.02	J	(0.680	)[1]	16.3	JH	(1.05	)[1]
1,2,3,7,8-PeCDF	14.8	JH	(0.383	)[1]	6.76	J	(0.346	)[1]	6.32	JH	(0.285	)[1]	12.3	J	(0.548	)[1]
2,3,4,6,7,8-HxCDF	24.7	J	(0.492	)[1]	14.1	J	(0.453	)[1]	8.16	J	(0.423	)[1]	32.5	J	(0.522	)[1]
2,3,4,7,8-PeCDF	21.7	J	(0.392	)[1]	11.8	J	(0.342	)[1]	8.03	J	(0.306	)[1]	ND	U	(0.515	)[1]
2,3,7,8-TCDD	ND	U	(0.694	)[1]	3.84	JH	(0.846	)[1]	ND	U	(0.596	)[1]	5.55	JH	(0.804	)[1]
2,3,7,8-TCDF	12.7	JH	(1.15	)[1]	8.43	JH	(0.901	)[1]	5.39	J	(0.722	)[1]	16.9	JH	(1.56	)[1]

	SITE ID	GalInc			GalInc				GalInc				GalInc			
	LOCATION ID	INC-SB06			INC-SB06				INC-SB07				INC-SB07			
	SAMPLE ID	INC-SB06-010			INC-SB06-020				INC-SB07-010				INC-SB07-020			
	DATE SAMPLED	24-JUN-15			24-JUN-15				24-JUN-15				24-JUN-15			
	BEG. DEPTH - END DEPTH (FT.)	0-0.5			3-4				0-0.5				2-3			
PARAMETER																
SW8290A - Dioxins, cont. (ng/kg)																
OCDD	2300	(0.519	)[1]	3760		(0.619	)[1]	682		(0.485	)[1]	1930		(0.531	)[1]
OCDF	116	(0.316	)[1]	91.9	J	(0.354	)[1]	32.4	JH	(0.349	)[1]	63.6	J	(0.347	)[1]

PARAMETER	GalInc INC-SB08 INC-SB08-010 24-JUN-15 0-0.5		GalInc INC-SB08 INC-SB08-020 24-JUN-15 2-3		GalInc INC-SB09 INC-SB09-010 25-JUN-15 0-0.5		GalInc INC-SB09 INC-SB09-020 25-JUN-15 2.5-3.5	
SITE ID								
LOCATION ID								
SAMPLE ID								
DATE SAMPLED								
BEG. DEPTH - END DEPTH (FT.)								
SM2540G - Percent Moisture (%)								
Moisture	16.6	(0.500)[1]	18.5	(0.500)[1]	14.1	(0.500)[1]	21.9	(0.500)[1]
SW8260C - Volatile Organic Compounds (mg/kg)								
1,1,1,2-Tetrachloroethane	ND	UJL(0.00130)[1]	ND	UJL(0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
1,1,1-Trichloroethane	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
1,1,2,2-Tetrachloroethane	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
1,1,2-Trichloroethane	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
1,1,2-Trichlorotrifluoroethane	ND	UJL(0.00652)[1]	ND	UJL(0.00550)[1]	ND	UJL(0.00985)[1]	ND	UJL(0.00825)[1]
1,1-Dichloroethane	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
1,1-Dichloroethene	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
1,1-Dichloropropene	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
1,2,3-Trichlorobenzene	ND	UJL(0.00130)[1]	ND	UJL(0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
1,2,3-Trichloropropane	ND	UJL(0.00130)[1]	ND	UJL(0.00110)[1]	ND	U (0.00197)[1]	ND	UJL(0.00165)[1]
1,2,4-Trichlorobenzene	ND	UJL(0.00130)[1]	ND	UJL(0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
1,2,4-Trimethylbenzene	ND	UJL(0.00130)[1]	ND	UJL(0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
1,2-Dibromo-3-chloropropane	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
1,2-Dibromoethane	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
1,2-Dichlorobenzene	ND	UJL(0.00130)[1]	ND	UJL(0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
1,2-Dichloroethane	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
1,2-Dichloropropane	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
1,3,5-Trimethylbenzene	ND	UJL(0.00130)[1]	ND	UJL(0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
1,3-Dichlorobenzene	ND	UJL(0.00130)[1]	ND	UJL(0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
1,3-Dichloropropane	ND	UJL(0.00130)[1]	ND	UJL(0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
1,4-Dichlorobenzene	ND	UJL(0.00130)[1]	ND	UJL(0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]

PARAMETER	GalInc INC-SB08 INC-SB08-010 24-JUN-15 0-0.5		GalInc INC-SB08 INC-SB08-020 24-JUN-15 2-3		GalInc INC-SB09 INC-SB09-010 25-JUN-15 0-0.5		GalInc INC-SB09 INC-SB09-020 25-JUN-15 2.5-3.5	
SW8260C - Volatile Organic Compounds, cont.	(mg/kg)							
1-Chlorohexane	ND	UJL(0.00130)[1]	ND	UJL(0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
2,2-Dichloropropane	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
2-Butanone(MEK)	ND	U (0.00652)[1]	0.0106	J (0.00550)[1]	ND	U (0.00985)[1]	0.00948	J (0.00825)[1]
2-Chlorotoluene	ND	UJL(0.00130)[1]	ND	UJL(0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
2-Hexanone	ND	U (0.00652)[1]	ND	U (0.00550)[1]	ND	U (0.00985)[1]	ND	U (0.00825)[1]
4-Chlorotoluene	ND	UJL(0.00130)[1]	ND	UJL(0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
4-Methyl-2-pentanone(MIBK)	ND	U (0.00652)[1]	ND	U (0.00550)[1]	ND	U (0.00985)[1]	ND	U (0.00825)[1]
Acetone	ND	U (0.0196)[1]	0.0368	J (0.0165)[1]	ND	U (0.0296)[1]	0.273	(0.0247)[1]
Benzene	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	0.00211	J (0.00165)[1]
Bromobenzene	ND	UJL(0.00130)[1]	ND	UJL(0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
Bromochloromethane	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
Bromodichloromethane	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
Bromoform	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
Bromomethane	ND	UJL(0.00130)[1]	ND	UJL(0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
Carbon disulfide	ND	U (0.00652)[1]	ND	U (0.00550)[1]	ND	U (0.00985)[1]	ND	U (0.00825)[1]
Carbon tetrachloride	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
Chlorobenzene	ND	UJL(0.00130)[1]	ND	UJL(0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
Chloroethane	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
Chloroform	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
Chloromethane	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
Cyclohexane	ND	UX7(0.00652)[1]	ND	UX7(0.00550)[1]	ND	UX7(0.00985)[1]	ND	UX7(0.00825)[1]
Dibromochloromethane	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
Dibromomethane	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	U (0.00197)[1]	ND	U (0.00165)[1]
Dichlorodifluoromethane	ND	U (0.00130)[1]	ND	U (0.00110)[1]	ND	UJL(0.00197)[1]	ND	U (0.00165)[1]

PARAMETER	GalInc INC-SB08 INC-SB08-010 24-JUN-15 0-0.5	GalInc INC-SB08 INC-SB08-020 24-JUN-15 2-3	GalInc INC-SB09 INC-SB09-010 25-JUN-15 0-0.5	GalInc INC-SB09 INC-SB09-020 25-JUN-15 2.5-3.5
SW8260C - Volatile Organic Compounds, cont. (mg/kg)				
Ethylbenzene	ND UJL(0.00130)[1]	ND UJL(0.00110)[1]	ND U (0.00197)[1]	ND U (0.00165)[1]
Hexachlorobutadiene	ND UJL(0.00130)[1]	ND UJL(0.00110)[1]	ND U (0.00197)[1]	ND U (0.00165)[1]
Isopropylbenzene	ND UJL(0.00130)[1]	ND UJL(0.00110)[1]	ND U (0.00197)[1]	ND U (0.00165)[1]
Methyl acetate	ND U (0.00652)[1]	ND U (0.00550)[1]	ND U (0.00985)[1]	ND U (0.00825)[1]
Methyl t-butyl ether	ND UJL(0.00130)[1]	ND UJL(0.00110)[1]	ND U (0.00197)[1]	ND U (0.00165)[1]
Methylcyclohexane	ND U (0.00652)[1]	ND U (0.00550)[1]	ND U (0.00985)[1]	ND U (0.00825)[1]
Methylene chloride	ND U (0.00652)[1]	ND U (0.00550)[1]	ND U (0.00985)[1]	ND U (0.00825)[1]
Naphthalene	ND UJL(0.00652)[1]	ND UJL(0.00550)[1]	ND U (0.00985)[1]	ND U (0.00825)[1]
Styrene	ND UJL(0.00130)[1]	ND UJL(0.00110)[1]	ND U (0.00197)[1]	ND U (0.00165)[1]
Tetrachloroethene	ND UJL(0.00130)[1]	ND UJL(0.00110)[1]	ND U (0.00197)[1]	ND U (0.00165)[1]
Toluene	ND U (0.00130)[1]	ND U (0.00110)[1]	ND U (0.00197)[1]	0.00520 JH (0.00165)[1]
Trichloroethene	ND U (0.00130)[1]	ND U (0.00110)[1]	ND U (0.00197)[1]	ND U (0.00165)[1]
Trichlorofluoromethane	ND U (0.00652)[1]	ND U (0.00550)[1]	0.0191 J (0.00985)[1]	ND U (0.00825)[1]
Vinyl chloride	ND U (0.00130)[1]	ND U (0.00110)[1]	ND U (0.00197)[1]	ND U (0.00165)[1]
cis-1,2-Dichloroethene	ND U (0.00130)[1]	ND U (0.00110)[1]	ND U (0.00197)[1]	ND U (0.00165)[1]
cis-1,3-Dichloropropene	ND U (0.00130)[1]	ND U (0.00110)[1]	ND U (0.00197)[1]	ND U (0.00165)[1]
m & p-Xylene	ND UJL(0.00130)[1]	ND UJL(0.00110)[1]	ND U (0.00197)[1]	ND U (0.00165)[1]
n-Butylbenzene	ND UJL(0.00130)[1]	ND UJL(0.00110)[1]	ND U (0.00197)[1]	ND U (0.00165)[1]
n-Propylbenzene	ND UJL(0.00130)[1]	ND UJL(0.00110)[1]	ND U (0.00197)[1]	ND U (0.00165)[1]
o-Xylene	ND UJL(0.00130)[1]	ND UJL(0.00110)[1]	ND U (0.00197)[1]	ND U (0.00165)[1]
p-Isopropyltoluene	ND UJL(0.00130)[1]	ND UJL(0.00110)[1]	ND U (0.00197)[1]	ND U (0.00165)[1]
sec-Butylbenzene	ND UJL(0.00130)[1]	ND UJL(0.00110)[1]	ND U (0.00197)[1]	ND U (0.00165)[1]
tert-Butylbenzene	ND UJL(0.00130)[1]	ND UJL(0.00110)[1]	ND U (0.00197)[1]	ND U (0.00165)[1]
trans-1,2-Dichloroethene	ND U (0.00130)[1]	ND U (0.00110)[1]	ND U (0.00197)[1]	ND U (0.00165)[1]

PARAMETER	GalInc INC-SB08 INC-SB08-010 24-JUN-15 0-0.5	GalInc INC-SB08 INC-SB08-020 24-JUN-15 2-3	GalInc INC-SB09 INC-SB09-010 25-JUN-15 0-0.5	GalInc INC-SB09 INC-SB09-020 25-JUN-15 2.5-3.5
SITE ID				
LOCATION ID				
SAMPLE ID				
DATE SAMPLED				
BEG. DEPTH - END DEPTH (FT.)				
SW8260C - Volatile Organic Compounds, cont. (mg/kg)				
trans-1,3-Dichloropropene	ND U (0.00130)[1]	ND U (0.00110)[1]	ND U (0.00197)[1]	ND U (0.00165)[1]
SW8270D - Semivolatile Organic Compounds (mg/kg)				
2,4,5-Trichlorophenol	ND U (0.0115)[1]	ND U (0.0234)[2]	ND U (0.114)[10]	ND U (0.0618)[5]
2,4,6-Trichlorophenol	ND U (0.0115)[1]	ND U (0.0234)[2]	ND U (0.114)[10]	ND U (0.0618)[5]
2,4-Dichlorophenol	ND U (0.0115)[1]	ND U (0.0234)[2]	ND U (0.114)[10]	ND U (0.0618)[5]
2,4-Dimethylphenol	ND U (0.0115)[1]	ND U (0.0234)[2]	ND U (0.114)[10]	ND U (0.0618)[5]
2,4-Dinitrophenol	ND U (0.0577)[1]	ND U (0.117)[2]	ND UJL(0.570)[10]	ND UJL(0.309)[5]
2,4-Dinitrotoluene	ND U (0.0115)[1]	ND U (0.0234)[2]	ND U (0.114)[10]	ND U (0.0618)[5]
2,6-Dinitrotoluene	ND U (0.0115)[1]	ND U (0.0234)[2]	ND U (0.114)[10]	ND U (0.0618)[5]
2-Chloronaphthalene	ND U (0.0115)[1]	ND U (0.0234)[2]	ND U (0.114)[10]	ND U (0.0618)[5]
2-Chlorophenol	ND U (0.0115)[1]	ND U (0.0234)[2]	ND U (0.114)[10]	ND U (0.0618)[5]
2-Methylnaphthalene	ND U (0.0115)[1]	ND U (0.0234)[2]	0.167 J (0.114)[10]	0.461 (0.0618)[5]
2-Methylphenol	ND U (0.0115)[1]	ND U (0.0234)[2]	ND U (0.114)[10]	ND U (0.0618)[5]
2-Nitroaniline	ND U (0.0115)[1]	ND U (0.0234)[2]	ND U (0.114)[10]	ND U (0.0618)[5]
2-Nitrophenol	ND U (0.0115)[1]	ND U (0.0234)[2]	ND U (0.114)[10]	ND U (0.0618)[5]
3,3'-Dichlorobenzidine	ND U (0.0115)[1]	ND U (0.0234)[2]	ND UJ (0.114)[10]	ND UJ (0.0618)[5]
3-Nitroaniline	ND U (0.0115)[1]	ND U (0.0234)[2]	ND U (0.114)[10]	ND U (0.0618)[5]
4,6-Dinitro-2-methylphenol	ND U (0.0346)[1]	ND U (0.0702)[2]	ND U (0.342)[10]	ND U (0.185)[5]
4-Bromophenyl phenyl ether	ND U (0.0115)[1]	ND U (0.0234)[2]	ND U (0.114)[10]	ND U (0.0618)[5]
4-Chloro-3-methylphenol	ND U (0.0115)[1]	ND U (0.0234)[2]	ND U (0.114)[10]	ND U (0.0618)[5]
4-Chloroaniline	ND U (0.0346)[1]	ND U (0.0702)[2]	ND U (0.342)[10]	ND U (0.185)[5]
4-Chlorophenyl phenyl ether	ND U (0.0115)[1]	ND U (0.0234)[2]	ND U (0.114)[10]	ND U (0.0618)[5]
4-Methylphenol	ND U (0.0231)[1]	ND U (0.0468)[2]	ND U (0.228)[10]	ND U (0.124)[5]

PARAMETER	GalInc INC-SB08 INC-SB08-010 24-JUN-15 0-0.5				GalInc INC-SB08 INC-SB08-020 24-JUN-15 2-3				GalInc INC-SB09 INC-SB09-010 25-JUN-15 0-0.5				GalInc INC-SB09 INC-SB09-020 25-JUN-15 2.5-3.5			
SW8270D - Semivolatile Organic Compounds, cont. (mg/kg)																
4-Nitroaniline	ND	U	(0.0115	)[1]	ND	U	(0.0234	)[2]	ND	U	(0.114	)[10]	ND	U	(0.0618	)[5]
4-Nitrophenol	ND	U	(0.0577	)[1]	ND	U	(0.117	)[2]	ND	U	(0.570	)[10]	ND	U	(0.309	)[5]
Acenaphthene	0.0200	J	(0.0115	)[1]	ND	U	(0.0234	)[2]	ND	UJL	(0.114	)[10]	0.0823	JL	(0.0618	)[5]
Acenaphthylene	0.0723		(0.0115	)[1]	0.0515	J	(0.0234	)[2]	0.806		(0.114	)[10]	0.128	J	(0.0618	)[5]
Acetophenone	ND	U	(0.0115	)[1]	ND	U	(0.0234	)[2]	ND	U	(0.114	)[10]	ND	U	(0.0618	)[5]
Anthracene	0.0800		(0.0115	)[1]	0.0499	J	(0.0234	)[2]	0.638	JL	(0.114	)[10]	ND	R	(0.0618	)[5]
Aroclor 1016	ND	U	(0.0192	)[1]	ND	U	(0.0195	)[1]	ND	U	(0.0190	)[1]	ND	U	(0.0206	)[1]
Aroclor 1221	ND	U	(0.0192	)[1]	ND	U	(0.0195	)[1]	ND	U	(0.0190	)[1]	ND	U	(0.0206	)[1]
Aroclor 1232	ND	U	(0.0192	)[1]	ND	U	(0.0195	)[1]	ND	U	(0.0190	)[1]	ND	U	(0.0206	)[1]
Aroclor 1242	ND	U	(0.0192	)[1]	ND	U	(0.0195	)[1]	ND	U	(0.0190	)[1]	ND	U	(0.0206	)[1]
Aroclor 1248	ND	U	(0.0192	)[1]	ND	U	(0.0195	)[1]	ND	U	(0.0190	)[1]	ND	U	(0.0206	)[1]
Aroclor 1254	0.110		(0.0192	)[1]	0.0461		(0.0195	)[1]	ND	U	(0.0190	)[1]	ND	U	(0.0206	)[1]
Aroclor 1260	0.0855		(0.0192	)[1]	0.0735		(0.0195	)[1]	4.78		(0.0950	)[5]	0.240		(0.0206	)[1]
Atrazine	ND	U	(0.0115	)[1]	ND	U	(0.0234	)[2]	ND	U	(0.114	)[10]	ND	U	(0.0618	)[5]
Benzaldehyde	ND	UX7	(0.0115	)[1]	ND	UX7	(0.0234	)[2]	ND	UX7	(0.114	)[10]	ND	UX7	(0.0618	)[5]
Benzo(a)anthracene	0.425		(0.0115	)[1]	0.182		(0.0234	)[2]	0.198	J	(0.114	)[10]	0.0659	J	(0.0618	)[5]
Benzo(a)pyrene	0.476		(0.0115	)[1]	0.193		(0.0234	)[2]	0.312		(0.114	)[10]	0.144	J	(0.0618	)[5]
Benzo(b)fluoranthene	0.533		(0.0115	)[1]	0.209		(0.0234	)[2]	0.190	J	(0.114	)[10]	0.0659	J	(0.0618	)[5]
Benzo(g,h,i)perylene	0.387	JL	(0.0115	)[1]	0.173	JL	(0.0234	)[2]	0.312	JL	(0.114	)[10]	0.0659	JL	(0.0618	)[5]
Benzo(k)fluoranthene	0.398		(0.0115	)[1]	0.108		(0.0234	)[2]	ND	U	(0.114	)[10]	ND	U	(0.0618	)[5]
Benzoic acid	0.104	J	(0.0577	)[1]	ND	U	(0.117	)[2]	1.07	J	(0.570	)[10]	ND	UJ	(0.309	)[5]
Benzyl alcohol	ND	U	(0.0115	)[1]	ND	U	(0.0234	)[2]	ND	U	(0.114	)[10]	ND	U	(0.0618	)[5]
Biphenyl	ND	U	(0.0115	)[1]	ND	U	(0.0234	)[2]	ND	U	(0.114	)[10]	ND	U	(0.0618	)[5]
Butylbenzylphthalate	0.0477	J	(0.0462	)[1]	ND	U	(0.0936	)[2]	ND	U	(0.456	)[10]	ND	U	(0.247	)[5]

PARAMETER	GalInc INC-SB08 INC-SB08-010 24-JUN-15 0-0.5				GalInc INC-SB08 INC-SB08-020 24-JUN-15 2-3				GalInc INC-SB09 INC-SB09-010 25-JUN-15 0-0.5				GalInc INC-SB09 INC-SB09-020 25-JUN-15 2.5-3.5			
SW8270D - Semivolatile Organic Compounds, cont. (mg/kg)																
Caprolactam	ND	U	(0.0231	)[1]	ND	U	(0.0468	)[2]	ND	U	(0.228	)[10]	ND	U	(0.124	)[5]
Carbazole	0.0462		(0.0115	)[1]	0.0374	J	(0.0234	)[2]	ND	UJL	(0.114	)[10]	ND	UJL	(0.0618	)[5]
Chrysene	0.425		(0.0115	)[1]	0.178		(0.0234	)[2]	0.144	J	(0.114	)[10]	ND	U	(0.0618	)[5]
Di-n-butylphthalate	0.0477	J	(0.0462	)[1]	ND	U	(0.0936	)[2]	0.471	J	(0.456	)[10]	ND	U	(0.247	)[5]
Di-n-octylphthalate	0.0677	J	(0.0462	)[1]	0.443		(0.0936	)[2]	ND	U	(0.456	)[10]	ND	U	(0.247	)[5]
Dibenz(a,h)anthracene	0.163		(0.0115	)[1]	0.0561	J	(0.0234	)[2]	ND	UJL	(0.114	)[10]	ND	UJL	(0.0618	)[5]
Dibenzofuran	ND	U	(0.0115	)[1]	ND	U	(0.0234	)[2]	ND	UJL	(0.114	)[10]	ND	UJL	(0.0618	)[5]
Diethyl phthalate	ND	U	(0.0462	)[1]	ND	U	(0.0936	)[2]	ND	U	(0.456	)[10]	ND	U	(0.247	)[5]
Dimethyl phthalate	ND	U	(0.0462	)[1]	ND	U	(0.0936	)[2]	ND	U	(0.456	)[10]	ND	U	(0.247	)[5]
Fluoranthene	0.757		(0.0115	)[1]	0.352		(0.0234	)[2]	0.220	J	(0.114	)[10]	0.0782	J	(0.0618	)[5]
Fluorene	0.0216	J	(0.0115	)[1]	ND	U	(0.0234	)[2]	0.243	JL	(0.114	)[10]	0.0865	JL	(0.0618	)[5]
Hexachlorobenzene	ND	U	(0.0115	)[1]	ND	U	(0.0234	)[2]	0.464		(0.114	)[10]	ND	U	(0.0618	)[5]
Hexachlorobutadiene	ND	U	(0.0115	)[1]	ND	U	(0.0234	)[2]	ND	U	(0.114	)[10]	ND	U	(0.0618	)[5]
Hexachlorocyclopentadiene	ND	U	(0.0346	)[1]	ND	U	(0.0702	)[2]	ND	U	(0.342	)[10]	ND	U	(0.185	)[5]
Hexachloroethane	ND	U	(0.0115	)[1]	ND	U	(0.0234	)[2]	ND	U	(0.114	)[10]	ND	U	(0.0618	)[5]
Indeno(1,2,3-cd)pyrene	0.351		(0.0115	)[1]	0.114		(0.0234	)[2]	0.152	JL	(0.114	)[10]	ND	R	(0.0618	)[5]
Isophorone	ND	U	(0.0346	)[1]	ND	U	(0.0702	)[2]	ND	U	(0.342	)[10]	ND	U	(0.185	)[5]
N-Nitroso-di-n-propylamine	ND	U	(0.0115	)[1]	ND	U	(0.0234	)[2]	ND	U	(0.114	)[10]	ND	U	(0.0618	)[5]
N-Nitrosodiphenylamine	ND	U	(0.0115	)[1]	ND	U	(0.0234	)[2]	ND	U	(0.114	)[10]	ND	U	(0.0618	)[5]
Naphthalene	ND	U	(0.0115	)[1]	ND	U	(0.0234	)[2]	ND	UJL	(0.114	)[10]	ND	UJL	(0.0618	)[5]
Nitrobenzene	ND	U	(0.0115	)[1]	ND	U	(0.0234	)[2]	ND	U	(0.114	)[10]	ND	U	(0.0618	)[5]
Pentachlorophenol	ND	U	(0.0115	)[1]	ND	U	(0.0234	)[2]	ND	U	(0.114	)[10]	ND	U	(0.0618	)[5]
Phenanthrene	0.326		(0.0115	)[1]	0.229		(0.0234	)[2]	0.190	J	(0.114	)[10]	0.0988	J	(0.0618	)[5]
Phenol	ND	U	(0.0115	)[1]	ND	U	(0.0234	)[2]	ND	U	(0.114	)[10]	ND	U	(0.0618	)[5]

SITE ID	GalInc	GalInc	GalInc	GalInc
LOCATION ID	INC-SB08	INC-SB08	INC-SB09	INC-SB09
SAMPLE ID	INC-SB08-010	INC-SB08-020	INC-SB09-010	INC-SB09-020
DATE SAMPLED	24-JUN-15	24-JUN-15	25-JUN-15	25-JUN-15
BEG. DEPTH - END DEPTH (FT.)	0-0.5	2-3	0-0.5	2.5-3.5
PARAMETER				
SW8270D - Semivolatile Organic Compounds, cont. (mg/kg)				
Pyrene	0.493 JL (0.0115)[1]	0.313 JL (0.0234)[2]	0.220 J (0.114)[10]	0.0741 J (0.0618)[5]
bis(2-Chloroethoxy)methane	ND U (0.0115)[1]	ND U (0.0234)[2]	ND U (0.114)[10]	ND U (0.0618)[5]
bis(2-Chloroethyl) ether	ND U (0.0115)[1]	ND U (0.0234)[2]	ND U (0.114)[10]	ND U (0.0618)[5]
bis(2-Chloroisopropyl) ether	ND U (0.0115)[1]	ND U (0.0234)[2]	ND U (0.114)[10]	ND U (0.0618)[5]
bis(2-Ethylhexyl)phthalate	0.325 (0.0346)[1]	0.0998 J (0.0702)[2]	0.448 J (0.342)[10]	0.292 J (0.185)[5]
SW8290A - Dioxins (ng/kg)				
1,2,3,4,6,7,8-HpCDD	1530 (1.18)[1]	883 (0.863)[1]	2560 (1.27)[1]	2310 (1.54)[1]
1,2,3,4,6,7,8-HpCDF	310 (0.252)[1]	824 (0.294)[1]	2620 (0.786)[1]	443 (0.322)[1]
1,2,3,4,7,8,9-HpCDF	18.2 J (0.416)[1]	82.6 (0.494)[1]	72.6 (1.29)[1]	37.1 J (0.676)[1]
1,2,3,4,7,8-HxCDD	31.0 J (0.648)[1]	31.4 J (0.447)[1]	41.1 J (0.720)[1]	48.8 J (0.901)[1]
1,2,3,4,7,8-HxCDF	48.7 J (0.801)[1]	266 (0.889)[1]	45.4 U (0.761)[1]	137 (1.07)[1]
1,2,3,6,7,8-HxCDD	98.4 JH (0.697)[1]	62.3 (0.478)[1]	114 (0.791)[1]	139 (0.953)[1]
1,2,3,6,7,8-HxCDF	44.6 J (0.744)[1]	268 (0.800)[1]	48.7 J (0.723)[1]	127 (0.932)[1]
1,2,3,7,8,9-HxCDD	87.9 (0.741)[1]	58.3 J (0.501)[1]	104 (0.771)[1]	118 (0.999)[1]
1,2,3,7,8,9-HxCDF	ND U (1.14)[1]	64.7 (0.981)[1]	13.2 JH (0.950)[1]	40.2 J (1.36)[1]
1,2,3,7,8-PeCDD	36.4 J (1.72)[1]	31.0 J (1.36)[1]	ND U (1.20)[1]	50.5 JH (1.53)[1]
1,2,3,7,8-PeCDF	41.0 J (0.551)[1]	127 (0.463)[1]	23.4 J (0.459)[1]	96.3 (0.583)[1]
2,3,4,6,7,8-HxCDF	54.6 J (0.802)[1]	293 (0.714)[1]	55.1 J (0.763)[1]	207 (1.02)[1]
2,3,4,7,8-PeCDF	62.8 (0.534)[1]	250 (0.449)[1]	26.6 J (0.430)[1]	204 (0.605)[1]
2,3,7,8-TCDD	10.9 J (1.19)[1]	8.25 JH (0.872)[1]	ND U (0.505)[1]	14.8 (1.00)[1]
2,3,7,8-TCDF	70.5 (1.64)[1]	71.6 JH (3.68)[1]	19.9 (0.698)[1]	143 (1.53)[1]
OCDD	6040 (0.988)[1]	3750 (0.540)[1]	14300 (1.42)[1]	8400 (1.38)[1]
OCDF	206 (0.459)[1]	300 (0.375)[1]	16000 (1.22)[1]	522 (0.496)[1]

PARAMETER	GalInc INC-SB10 INC-SB10-010 25-JUN-15 0-0.5	GalInc INC-SB10 INC-SB10-020 25-JUN-15 2.5-3.5	GalInc INC-SB11 INC-SB11-010 23-JUN-15 0-0.5	GalInc INC-SB11 INC-SB11-011 Dup of INC-SB11-0 23-JUN-15 0-0.5
SM2540G - Percent Moisture (%)				
Moisture	5.40 (0.500)[1]	19.2 (0.500)[1]	NA	NA
SW8260C - Volatile Organic Compounds (mg/kg)				
1,1,1,2-Tetrachloroethane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
1,1,1-Trichloroethane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
1,1,2,2-Tetrachloroethane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
1,1,2-Trichloroethane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
1,1,2-Trichlorotrifluoroethane	ND UJL(0.00687)[1]	ND UJL(0.00803)[1]	NA	NA
1,1-Dichloroethane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
1,1-Dichloroethene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
1,1-Dichloropropene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
1,2,3-Trichlorobenzene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
1,2,3-Trichloropropane	ND UJL(0.00137)[1]	ND UJL(0.00161)[1]	NA	NA
1,2,4-Trichlorobenzene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
1,2,4-Trimethylbenzene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
1,2-Dibromo-3-chloropropane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
1,2-Dibromoethane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
1,2-Dichlorobenzene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
1,2-Dichloroethane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
1,2-Dichloropropane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
1,3,5-Trimethylbenzene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
1,3-Dichlorobenzene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA

SITE ID	GalInc	GalInc	GalInc	GalInc
LOCATION ID	INC-SB10	INC-SB10	INC-SB11	INC-SB11
SAMPLE ID	INC-SB10-010	INC-SB10-020	INC-SB11-010	INC-SB11-011 Dup of INC-SB11-0
DATE SAMPLED	25-JUN-15	25-JUN-15	23-JUN-15	23-JUN-15
BEG. DEPTH - END DEPTH (FT.)	0-0.5	2.5-3.5	0-0.5	0-0.5
PARAMETER				
SW8260C - Volatile Organic Compounds, cont. (mg/kg)				
1,3-Dichloropropane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
1,4-Dichlorobenzene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
1-Chlorohexane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
2,2-Dichloropropane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
2-Butanone(MEK)	ND U (0.00687)[1]	ND U (0.00803)[1]	NA	NA
2-Chlorotoluene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
2-Hexanone	ND U (0.00687)[1]	ND U (0.00803)[1]	NA	NA
4-Chlorotoluene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
4-Methyl-2-pentanone(MIBK)	ND U (0.00687)[1]	ND U (0.00803)[1]	NA	NA
Acetone	0.0347 J (0.0206)[1]	0.129 (0.0241)[1]	NA	NA
Benzene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Bromobenzene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Bromochloromethane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Bromodichloromethane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Bromoform	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Bromomethane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Carbon disulfide	ND U (0.00687)[1]	ND U (0.00803)[1]	NA	NA
Carbon tetrachloride	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Chlorobenzene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Chloroethane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Chloroform	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Chloromethane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Cyclohexane	ND UX7(0.00687)[1]	ND UX7(0.00803)[1]	NA	NA
Dibromochloromethane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA

PARAMETER	GalInc INC-SB10 INC-SB10-010 25-JUN-15 0-0.5	GalInc INC-SB10 INC-SB10-020 25-JUN-15 2.5-3.5	GalInc INC-SB11 INC-SB11-010 23-JUN-15 0-0.5	GalInc INC-SB11 INC-SB11-011 Dup of INC-SB11-0 23-JUN-15 0-0.5
SW8260C - Volatile Organic Compounds, cont. (mg/kg)				
Dibromomethane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Dichlorodifluoromethane	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Ethylbenzene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Hexachlorobutadiene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Isopropylbenzene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Methyl acetate	ND U (0.00687)[1]	ND U (0.00803)[1]	NA	NA
Methyl t-butyl ether	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Methylcyclohexane	ND U (0.00687)[1]	ND U (0.00803)[1]	NA	NA
Methylene chloride	ND U (0.00687)[1]	ND U (0.00803)[1]	NA	NA
Naphthalene	ND U (0.00687)[1]	ND U (0.00803)[1]	NA	NA
Styrene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Tetrachloroethene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Toluene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Trichloroethene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
Trichlorofluoromethane	ND U (0.00687)[1]	ND U (0.00803)[1]	NA	NA
Vinyl chloride	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
cis-1,2-Dichloroethene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
cis-1,3-Dichloropropene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
m & p-Xylene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
n-Butylbenzene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
n-Propylbenzene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
o-Xylene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
p-Isopropyltoluene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
sec-Butylbenzene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA

PARAMETER	GalInc INC-SB10 INC-SB10-010 25-JUN-15 0-0.5	GalInc INC-SB10 INC-SB10-020 25-JUN-15 2.5-3.5	GalInc INC-SB11 INC-SB11-010 23-JUN-15 0-0.5	GalInc INC-SB11 INC-SB11-011 Dup of INC-SB11-0 23-JUN-15 0-0.5
SW8260C - Volatile Organic Compounds, cont. (mg/kg)				
tert-Butylbenzene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
trans-1,2-Dichloroethene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
trans-1,3-Dichloropropene	ND U (0.00137)[1]	ND U (0.00161)[1]	NA	NA
SW8270D - Low-Level Semivolatile Organic Compounds (mg/kg)				
Acenaphthene	NA	NA	ND U (0.0544)[10]	ND U (0.0526)[10]
Acenaphthylene	NA	NA	ND U (0.0544)[10]	0.0655 J (0.0526)[10]
Anthracene	NA	NA	ND U (0.0544)[10]	0.0762 JH (0.0526)[10]
Benzo(a)anthracene	NA	NA	0.157 JH (0.0544)[10]	0.253 JH (0.0526)[10]
Benzo(a)pyrene	NA	NA	0.198 JH (0.0544)[10]	0.370 JH (0.263)[50]
Benzo(b)fluoranthene	NA	NA	0.245 JH (0.0544)[10]	0.372 JH (0.263)[50]
Benzo(g,h,i)perylene	NA	NA	0.451 JH (0.0544)[10]	0.512 JH (0.263)[50]
Benzo(k)fluoranthene	NA	NA	0.0898 JH (0.0544)[10]	ND U (0.263)[50]
Chrysene	NA	NA	0.252 JH (0.0544)[10]	0.343 JH (0.0526)[10]
Dibenz(a,h)anthracene	NA	NA	ND UJ (0.0544)[10]	ND UJ (0.263)[50]
Fluoranthene	NA	NA	0.296 JH (0.0544)[10]	0.616 JH (0.0526)[10]
Fluorene	NA	NA	ND U (0.0544)[10]	ND U (0.0526)[10]
Indeno(1,2,3-cd)pyrene	NA	NA	0.175 JH (0.0544)[10]	ND U (0.263)[50]
Naphthalene	NA	NA	ND UJ (0.0544)[10]	ND UJ (0.0526)[10]
Phenanthrene	NA	NA	0.127 JH (0.0544)[10]	0.171 JH (0.0526)[10]
Pyrene	NA	NA	0.281 JH (0.0544)[10]	0.548 JH (0.0526)[10]
SW8270D - Semivolatile Organic Compounds (mg/kg)				
2,4,5-Trichlorophenol	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA

SITE ID	GalInc	GalInc	GalInc	GalInc
LOCATION ID	INC-SB10	INC-SB10	INC-SB11	INC-SB11
SAMPLE ID	INC-SB10-010	INC-SB10-020	INC-SB11-010	INC-SB11-011 Dup of INC-SB11-0
DATE SAMPLED	25-JUN-15	25-JUN-15	23-JUN-15	23-JUN-15
BEG. DEPTH - END DEPTH (FT.)	0-0.5	2.5-3.5	0-0.5	0-0.5
PARAMETER				
SW8270D - Semivolatile Organic Compounds, cont. (mg/kg)				
2,4,6-Trichlorophenol	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
2,4-Dichlorophenol	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
2,4-Dimethylphenol	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
2,4-Dinitrophenol	ND UJL(0.0514)[1]	ND UJL(0.0623)[1]	NA	NA
2,4-Dinitrotoluene	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
2,6-Dinitrotoluene	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
2-Chloronaphthalene	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
2-Chlorophenol	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
2-Methylnaphthalene	ND U (0.0103)[1]	0.135 (0.0125)[1]	NA	NA
2-Methylphenol	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
2-Nitroaniline	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
2-Nitrophenol	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
3,3'-Dichlorobenzidine	ND UJ (0.0103)[1]	ND UJ (0.0125)[1]	NA	NA
3-Nitroaniline	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
4,6-Dinitro-2-methylphenol	ND U (0.0308)[1]	ND U (0.0374)[1]	NA	NA
4-Bromophenyl phenyl ether	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
4-Chloro-3-methylphenol	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
4-Chloroaniline	ND U (0.0308)[1]	ND U (0.0374)[1]	NA	NA
4-Chlorophenyl phenyl ether	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
4-Methylphenol	ND U (0.0205)[1]	ND U (0.0249)[1]	NA	NA
4-Nitroaniline	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
4-Nitrophenol	ND U (0.0514)[1]	ND U (0.0623)[1]	NA	NA
Acenaphthene	ND UJL(0.0103)[1]	ND UJL(0.0125)[1]	NA	NA
Acenaphthylene	0.0233 J (0.0103)[1]	0.177 (0.0125)[1]	NA	NA

SITE ID	GalInc	GalInc	GalInc	GalInc
LOCATION ID	INC-SB10	INC-SB10	INC-SB11	INC-SB11
SAMPLE ID	INC-SB10-010	INC-SB10-020	INC-SB11-010	INC-SB11-011 Dup of INC-SB11-0
DATE SAMPLED	25-JUN-15	25-JUN-15	23-JUN-15	23-JUN-15
BEG. DEPTH - END DEPTH (FT.)	0-0.5	2.5-3.5	0-0.5	0-0.5
PARAMETER				
SW8270D - Semivolatile Organic Compounds, cont. (mg/kg)				
Acetophenone	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
Anthracene	0.0288 JL (0.0103)[1]	0.0897 JL (0.0125)[1]	NA	NA
Aroclor 1016	ND U (0.0171)[1]	ND U (0.0208)[1]	NA	NA
Aroclor 1221	ND U (0.0171)[1]	ND U (0.0208)[1]	NA	NA
Aroclor 1232	ND U (0.0171)[1]	ND U (0.0208)[1]	NA	NA
Aroclor 1242	ND U (0.0171)[1]	ND U (0.0208)[1]	NA	NA
Aroclor 1248	ND U (0.0171)[1]	ND U (0.0208)[1]	NA	NA
Aroclor 1254	ND U (0.0171)[1]	ND U (0.0208)[1]	NA	NA
Aroclor 1260	0.246 (0.0171)[1]	0.0547 (0.0208)[1]	NA	NA
Atrazine	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
Benzaldehyde	ND UX7(0.0103)[1]	ND UX7(0.0125)[1]	NA	NA
Benzo(a)anthracene	0.0144 J (0.0103)[1]	0.0532 (0.0125)[1]	NA	NA
Benzo(a)pyrene	0.0253 J (0.0103)[1]	0.110 (0.0125)[1]	NA	NA
Benzo(b)fluoranthene	0.0123 J (0.0103)[1]	0.106 (0.0125)[1]	NA	NA
Benzo(g,h,i)perylene	0.0219 JL (0.0103)[1]	0.149 JL (0.0125)[1]	NA	NA
Benzo(k)fluoranthene	ND U (0.0103)[1]	0.0673 (0.0125)[1]	NA	NA
Benzoic acid	0.0774 J (0.0514)[1]	0.111 J (0.0623)[1]	NA	NA
Benzyl alcohol	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
Biphenyl	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
Butylbenzylphthalate	ND U (0.0411)[1]	ND U (0.0498)[1]	NA	NA
Caprolactam	ND U (0.0205)[1]	ND U (0.0249)[1]	NA	NA
Carbazole	ND UJL(0.0103)[1]	ND UJL(0.0125)[1]	NA	NA
Chrysene	ND U (0.0103)[1]	0.0482 (0.0125)[1]	NA	NA
Di-n-butylphthalate	0.0411 J (0.0411)[1]	ND U (0.0498)[1]	NA	NA

PARAMETER	GalInc INC-SB10 INC-SB10-010 25-JUN-15 0-0.5	GalInc INC-SB10 INC-SB10-020 25-JUN-15 2.5-3.5	GalInc INC-SB11 INC-SB11-010 23-JUN-15 0-0.5	GalInc INC-SB11 INC-SB11-011 Dup of INC-SB11-0 23-JUN-15 0-0.5
SW8270D - Semivolatile Organic Compounds, cont. (mg/kg)				
Di-n-octylphthalate	ND U (0.0411)[1]	ND U (0.0498)[1]	NA	NA
Dibenz(a,h)anthracene	ND UJL(0.0103)[1]	0.0449 JL (0.0125)[1]	NA	NA
Dibenzofuran	ND UJL(0.0103)[1]	0.0233 JL (0.0125)[1]	NA	NA
Diethyl phthalate	ND U (0.0411)[1]	ND U (0.0498)[1]	NA	NA
Dimethyl phthalate	ND U (0.0411)[1]	ND U (0.0498)[1]	NA	NA
Fluoranthene	0.0151 J (0.0103)[1]	0.0233 J (0.0125)[1]	NA	NA
Fluorene	ND UJL(0.0103)[1]	ND UJL(0.0125)[1]	NA	NA
Hexachlorobenzene	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
Hexachlorobutadiene	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
Hexachlorocyclopentadiene	ND U (0.0308)[1]	ND U (0.0374)[1]	NA	NA
Hexachloroethane	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
Indeno(1,2,3-cd)pyrene	0.0103 JL (0.0103)[1]	0.110 JL (0.0125)[1]	NA	NA
Isophorone	ND U (0.0308)[1]	ND U (0.0374)[1]	NA	NA
N-Nitroso-di-n-propylamine	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
N-Nitrosodiphenylamine	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
Naphthalene	ND UJL(0.0103)[1]	0.0440 JL (0.0125)[1]	NA	NA
Nitrobenzene	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
Pentachlorophenol	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
Phenanthrene	0.0116 J (0.0103)[1]	0.113 (0.0125)[1]	NA	NA
Phenol	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
Pyrene	0.0144 J (0.0103)[1]	0.0449 (0.0125)[1]	NA	NA
bis(2-Chloroethoxy)methane	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
bis(2-Chloroethyl) ether	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA
bis(2-Chloroisopropyl) ether	ND U (0.0103)[1]	ND U (0.0125)[1]	NA	NA

PARAMETER	GalInc INC-SB10 INC-SB10-010 25-JUN-15 0-0.5				GalInc INC-SB10 INC-SB10-020 25-JUN-15 2.5-3.5				GalInc INC-SB11 INC-SB11-010 23-JUN-15 0-0.5	GalInc INC-SB11 INC-SB11-011 Dup of INC-SB11-0 23-JUN-15 0-0.5
SW8270D - Semivolatile Organic Compounds, cont. (mg/kg)										
bis(2-Ethylhexyl)phthalate	0.0404	J	(0.0308	)[1]	0.0681	J	(0.0374	)[1]	NA	NA
SW8290A - Dioxins (ng/kg)										
1,2,3,4,6,7,8-HpCDD	71.7		(0.567	)[1]	1030		(1.29	)[1]	NA	NA
1,2,3,4,6,7,8-HpCDF	94.8		(0.248	)[1]	148		(0.337	)[1]	NA	NA
1,2,3,4,7,8,9-HpCDF	3.70	J	(0.595	)[1]	10.9	J	(0.639	)[1]	NA	NA
1,2,3,4,7,8-HxCDD	1.77	JH	(0.507	)[1]	13.8	J	(0.824	)[1]	NA	NA
1,2,3,4,7,8-HxCDF	2.19	U	(0.479	)[1]	29.1	U	(0.865	)[1]	NA	NA
1,2,3,6,7,8-HxCDD	5.13	U	(0.532	)[1]	52.0	U	(0.809	)[1]	NA	NA
1,2,3,6,7,8-HxCDF	2.64	JH	(0.390	)[1]	28.5	J	(0.805	)[1]	NA	NA
1,2,3,7,8,9-HxCDD	3.60	U	(0.555	)[1]	42.6	U	(0.903	)[1]	NA	NA
1,2,3,7,8,9-HxCDF	2.37	JH	(0.580	)[1]	11.3	JH	(1.14	)[1]	NA	NA
1,2,3,7,8-PeCDD	2.34	JH	(0.649	)[1]	15.0	J	(1.36	)[1]	NA	NA
1,2,3,7,8-PeCDF	6.73	JH	(0.249	)[1]	22.2	J	(0.588	)[1]	NA	NA
2,3,4,6,7,8-HxCDF	3.87	J	(0.484	)[1]	32.9	J	(0.890	)[1]	NA	NA
2,3,4,7,8-PeCDF	1.07	JH	(0.260	)[1]	35.9	J	(0.565	)[1]	NA	NA
2,3,7,8-TCDD	1.05	JH	(0.447	)[1]	7.99	JH	(0.816	)[1]	NA	NA
2,3,7,8-TCDF	1.30	JH	(0.482	)[1]	41.2		(1.14	)[1]	NA	NA
OCDD	367	U	(0.593	)[1]	4880		(1.50	)[1]	NA	NA
OCDF	408		(0.753	)[1]	193		(0.579	)[1]	NA	NA

PARAMETER	GalInc INC-SB11 INC-SB11-020 23-JUN-15 0.5-1.5				GalInc INC-SB12 INC-SB12-010 23-JUN-15 0-0.5				GalInc INC-SB12 INC-SB12-020 23-JUN-15 1.5-2.5				GalInc INC-SB13 INC-SB13-010 23-JUN-15 0-0.5			
SW8270D - Low-Level Semivolatile Organic Compounds (mg/kg)																
Acenaphthene	ND	U	(0.0121	)[2]	ND	U	(0.0115	)[2]	ND	U	(0.0124	)[2]	ND	U	(0.0572	)[10]
Acenaphthylene	0.0271		(0.0121	)[2]	ND	U	(0.0115	)[2]	ND	U	(0.0124	)[2]	ND	U	(0.0572	)[10]
Anthracene	0.0257	JH	(0.0121	)[2]	ND	U	(0.0115	)[2]	ND	U	(0.0124	)[2]	ND	U	(0.0572	)[10]
Benzo(a)anthracene	0.120	JH	(0.0121	)[2]	0.0176	JH	(0.0115	)[2]	0.0466	JH	(0.0124	)[2]	0.634		(0.0572	)[10]
Benzo(a)pyrene	0.134	JH	(0.0121	)[2]	0.0135	JH	(0.0115	)[2]	0.0458	JH	(0.0124	)[2]	0.560		(0.0572	)[10]
Benzo(b)fluoranthene	0.147	JH	(0.0121	)[2]	0.0385	JH	(0.0115	)[2]	0.102	JH	(0.0124	)[2]	0.725		(0.0572	)[10]
Benzo(g,h,i)perylene	0.195	JH	(0.0121	)[2]	0.0459	JH	(0.0115	)[2]	0.100	JH	(0.0124	)[2]	0.402	JL	(0.0572	)[10]
Benzo(k)fluoranthene	0.0667	JH	(0.0121	)[2]	ND	U	(0.0115	)[2]	0.0293	JH	(0.0124	)[2]	0.441		(0.0572	)[10]
Chrysene	0.146	JH	(0.0121	)[2]	0.0707	JH	(0.0115	)[2]	0.0909	JH	(0.0124	)[2]	0.635		(0.0572	)[10]
Dibenz(a,h)anthracene	0.0416	J	(0.0121	)[2]	ND	UJ	(0.0115	)[2]	0.0147	J	(0.0124	)[2]	ND	U	(0.0572	)[10]
Fluoranthene	0.202	JH	(0.0121	)[2]	0.0298	JH	(0.0115	)[2]	0.0708	JH	(0.0124	)[2]	1.16	JL	(0.0572	)[10]
Fluorene	ND	U	(0.0121	)[2]	ND	U	(0.0115	)[2]	ND	U	(0.0124	)[2]	ND	U	(0.0572	)[10]
Indeno(1,2,3-cd)pyrene	0.145	JH	(0.0121	)[2]	0.0145	JH	(0.0115	)[2]	0.0531	JH	(0.0124	)[2]	0.493		(0.0572	)[10]
Naphthalene	ND	UJ	(0.0121	)[2]	0.0212	J	(0.0115	)[2]	0.176	J	(0.0124	)[2]	ND	U	(0.0572	)[10]
Phenanthrene	0.0775	JH	(0.0121	)[2]	0.0441	JH	(0.0115	)[2]	0.0689	JH	(0.0124	)[2]	0.447		(0.0572	)[10]
Pyrene	0.266	JH	(0.0121	)[2]	0.0340	JH	(0.0115	)[2]	0.0749	JH	(0.0124	)[2]	0.986		(0.0572	)[10]

PARAMETER	GalInc INC-SB13 INC-SB13-020 23-JUN-15 2-3				GalInc INC-SB14 INC-SB14-013 24-JUN-15 0-0.5				GalInc INC-SB14 INC-SB14-020 24-JUN-15 3-4				GalInc INC-SB15 INC-SB15-010 24-JUN-15 0-0.5			
SW8270D - Low-Level Semivolatile Organic Compounds (mg/kg)																
Acenaphthene	ND	U	(0.0113	)[2]	ND	U	(0.103	)[20]	ND	U	(0.0580	)[10]	ND	U	(0.105	)[20]
Acenaphthylene	ND	U	(0.0113	)[2]	ND	U	(0.103	)[20]	ND	U	(0.0580	)[10]	ND	U	(0.105	)[20]
Anthracene	ND	U	(0.0113	)[2]	ND	U	(0.103	)[20]	ND	U	(0.0580	)[10]	ND	U	(0.105	)[20]
Benzo(a)anthracene	0.0261		(0.0113	)[2]	0.691		(0.103	)[20]	0.230		(0.0580	)[10]	ND	U	(0.105	)[20]
Benzo(a)pyrene	0.0562		(0.0113	)[2]	0.793		(0.103	)[20]	0.324		(0.0580	)[10]	ND	U	(0.105	)[20]
Benzo(b)fluoranthene	0.0694		(0.0113	)[2]	1.03		(0.103	)[20]	0.323		(0.0580	)[10]	ND	U	(0.105	)[20]
Benzo(g,h,i)perylene	0.0535	JL	(0.0113	)[2]	0.723	JL	(0.103	)[20]	0.217	JL	(0.0580	)[10]	ND	UJL	(0.105	)[20]
Benzo(k)fluoranthene	0.0516		(0.0113	)[2]	0.608		(0.103	)[20]	0.209		(0.0580	)[10]	ND	U	(0.105	)[20]
Chrysene	0.0488		(0.0113	)[2]	0.746		(0.103	)[20]	0.247		(0.0580	)[10]	ND	U	(0.105	)[20]
Dibenz(a,h)anthracene	ND	U	(0.0113	)[2]	ND	U	(0.103	)[20]	ND	U	(0.0580	)[10]	ND	U	(0.105	)[20]
Fluoranthene	0.0640	JL	(0.0113	)[2]	1.21	JL	(0.103	)[20]	0.641	JL	(0.0580	)[10]	ND	UJL	(0.105	)[20]
Fluorene	ND	U	(0.0113	)[2]	ND	U	(0.103	)[20]	ND	U	(0.0580	)[10]	ND	U	(0.105	)[20]
Indeno(1,2,3-cd)pyrene	0.0551		(0.0113	)[2]	0.794		(0.103	)[20]	0.257		(0.0580	)[10]	ND	U	(0.105	)[20]
Naphthalene	ND	U	(0.0113	)[2]	ND	U	(0.103	)[20]	ND	U	(0.0580	)[10]	ND	U	(0.105	)[20]
Phenanthrene	0.0233		(0.0113	)[2]	0.469		(0.103	)[20]	0.313		(0.0580	)[10]	ND	U	(0.105	)[20]
Pyrene	0.0592		(0.0113	)[2]	1.09		(0.103	)[20]	0.609		(0.0580	)[10]	ND	U	(0.105	)[20]

PARAMETER	GalInc INC-SB15 INC-SB15-020 24-JUN-15 2-3				GalInc INC-SB15 INC-SB15-021 Dup of INC-SB15-020 24-JUN-15 2-3				GalInc INC-SB16 INC-SB16-010 23-JUN-15 0-0.5				GalInc INC-SB16 INC-SB16-020 23-JUN-15 2-3			
SW8270D - Low-Level Semivolatile Organic Compounds (mg/kg)																
Acenaphthene	ND	U	(0.319	)[50]	ND	U	(0.113	)[20]	0.129	J	(0.120	)[20]	ND	U	(0.0281	)[5]
Acenaphthylene	ND	U	(0.319	)[50]	ND	U	(0.113	)[20]	ND	U	(0.120	)[20]	ND	U	(0.0281	)[5]
Anthracene	ND	U	(0.319	)[50]	ND	U	(0.113	)[20]	4.61	JH	(0.120	)[20]	0.0356	JH	(0.0281	)[5]
Benzo(a)anthracene	ND	U	(0.319	)[50]	ND	U	(0.113	)[20]	59.7	JH	(0.120	)[20]	0.127	JH	(0.0281	)[5]
Benzo(a)pyrene	ND	U	(0.319	)[50]	0.334		(0.113	)[20]	52.6	JH	(0.120	)[20]	0.145	JH	(0.0281	)[5]
Benzo(b)fluoranthene	0.646		(0.319	)[50]	0.399		(0.113	)[20]	49.3	JH	(0.120	)[20]	0.142	JH	(0.0281	)[5]
Benzo(g,h,i)perylene	ND	UJL	(0.319	)[50]	ND	UJL	(0.113	)[20]	26.5	JH	(0.120	)[20]	0.139	JH	(0.0281	)[5]
Benzo(k)fluoranthene	0.473	J	(0.319	)[50]	0.269		(0.113	)[20]	22.8	JH	(0.120	)[20]	0.0575	JH	(0.0281	)[5]
Chrysene	ND	U	(0.319	)[50]	0.330		(0.113	)[20]	59.6	JH	(0.120	)[20]	0.149	JH	(0.0281	)[5]
Dibenz(a,h)anthracene	ND	U	(0.319	)[50]	ND	U	(0.113	)[20]	5.87	J	(0.120	)[20]	0.0283	J	(0.0281	)[5]
Fluoranthene	0.787	JL	(0.319	)[50]	0.565	JL	(0.113	)[20]	101	JH	(0.120	)[20]	0.200	JH	(0.0281	)[5]
Fluorene	ND	U	(0.319	)[50]	ND	U	(0.113	)[20]	ND	U	(0.120	)[20]	ND	U	(0.0281	)[5]
Indeno(1,2,3-cd)pyrene	ND	U	(0.319	)[50]	0.297		(0.113	)[20]	25.3	JH	(0.120	)[20]	0.0941	JH	(0.0281	)[5]
Naphthalene	ND	U	(0.319	)[50]	ND	U	(0.113	)[20]	ND	UJ	(0.120	)[20]	ND	UJ	(0.0281	)[5]
Phenanthrene	ND	U	(0.319	)[50]	0.252		(0.113	)[20]	19.5	JH	(0.120	)[20]	0.104	JH	(0.0281	)[5]
Pyrene	0.670		(0.319	)[50]	0.477		(0.113	)[20]	73.2	JH	(0.120	)[20]	0.175	JH	(0.0281	)[5]

PARAMETER	GalInc INC-SB17 INC-SB17-010 23-JUN-15 0-0.5	GalInc INC-SB17 INC-SB17-020 23-JUN-15 2-3	GalInc INC-SB18 INC-SB18-010 23-JUN-15 0-0.5	GalInc INC-SB18 INC-SB18-023 23-JUN-15 1.5-2.5
SW8270D - Low-Level Semivolatile Organic Compounds (mg/kg)				
Acenaphthene	ND U (0.0250)[5]	1.57 (0.113)[20]	0.0906 J (0.0614)[10]	0.307 (0.0344)[5]
Acenaphthylene	0.0935 (0.0250)[5]	1.27 (0.113)[20]	0.253 (0.0614)[10]	0.420 (0.0344)[5]
Anthracene	0.118 JH (0.0250)[5]	3.87 JH (0.113)[20]	0.417 JH (0.0614)[10]	0.995 JH (0.0344)[5]
Benzo(a)anthracene	0.419 JH (0.0250)[5]	14.2 JH (0.113)[20]	1.85 JH (0.0614)[10]	3.58 JH (0.0344)[5]
Benzo(a)pyrene	0.460 JH (0.0250)[5]	13.3 JH (0.113)[20]	2.47 JH (0.0614)[10]	3.16 JH (0.0344)[5]
Benzo(b)fluoranthene	0.478 JH (0.0250)[5]	14.0 JH (0.113)[20]	3.36 JH (0.0614)[10]	3.08 JH (0.0344)[5]
Benzo(g,h,i)perylene	0.417 JH (0.0250)[5]	12.4 JH (0.113)[20]	2.55 JH (0.0614)[10]	2.03 JH (0.0344)[5]
Benzo(k)fluoranthene	0.226 JH (0.0250)[5]	6.67 JH (0.113)[20]	1.47 JH (0.0614)[10]	1.55 JH (0.0344)[5]
Chrysene	0.467 JH (0.0250)[5]	15.4 JH (0.113)[20]	2.27 JH (0.0614)[10]	3.57 JH (0.0344)[5]
Dibenz(a,h)anthracene	0.0882 J (0.0250)[5]	3.06 J (0.113)[20]	0.462 J (0.0614)[10]	0.540 J (0.0344)[5]
Fluoranthene	0.810 JH (0.0250)[5]	31.4 JH (0.113)[20]	4.03 JH (0.0614)[10]	6.18 JH (0.0344)[5]
Fluorene	0.0299 JH (0.0250)[5]	1.26 JH (0.113)[20]	0.0974 JH (0.0614)[10]	0.451 JH (0.0344)[5]
Indeno(1,2,3-cd)pyrene	0.318 JH (0.0250)[5]	10.3 JH (0.113)[20]	1.97 JH (0.0614)[10]	1.81 JH (0.0344)[5]
Naphthalene	ND UJ (0.0250)[5]	0.837 J (0.113)[20]	0.0670 J (0.0614)[10]	0.156 J (0.0344)[5]
Phenanthrene	0.288 JH (0.0250)[5]	21.0 JH (0.113)[20]	1.57 JH (0.0614)[10]	4.89 JH (0.0344)[5]
Pyrene	0.686 JH (0.0250)[5]	33.0 JH (0.113)[20]	2.99 JH (0.0614)[10]	4.87 JH (0.0344)[5]

SITE ID	GalInc	GalInc	GalInc	GalInc
LOCATION ID	INC-SB19	INC-SB19	INC-SB20	INC-SB20
SAMPLE ID	INC-SB19-010	INC-SB19-020	INC-SB20-010	INC-SB20-011 Dup of INC-SB20-0
DATE SAMPLED	23-JUN-15	23-JUN-15	23-JUN-15	23-JUN-15
BEG. DEPTH - END DEPTH (FT.)	0-0.5	1.5-2.5	0-0.5	0-0.5
PARAMETER				
SW8270D - Low-Level Semivolatile Organic Compounds (mg/kg)				
Acenaphthene	0.0932 J (0.0542)[10]	0.00812 J (0.00702)[1]	0.0764 (0.0105)[2]	ND U (0.0108)[2]
Acenaphthylene	0.111 (0.0542)[10]	0.00722 J (0.00702)[1]	0.0401 (0.0105)[2]	0.0319 (0.0108)[2]
Anthracene	0.328 JH (0.0542)[10]	0.0162 JH (0.00702)[1]	0.191 JH (0.0105)[2]	0.0356 JH (0.0108)[2]
Benzo(a)anthracene	1.57 JH (0.0542)[10]	0.105 JH (0.00702)[1]	0.595 JH (0.0105)[2]	0.124 JH (0.0108)[2]
Benzo(a)pyrene	1.51 JH (0.0542)[10]	0.101 JH (0.00702)[1]	0.547 JH (0.0105)[2]	0.140 JH (0.0108)[2]
Benzo(b)fluoranthene	1.68 JH (0.0542)[10]	0.114 JH (0.00702)[1]	0.574 JH (0.0105)[2]	0.153 JH (0.0108)[2]
Benzo(g,h,i)perylene	1.14 JH (0.0542)[10]	0.0795 JH (0.00702)[1]	0.331 JH (0.0105)[2]	0.172 JH (0.0108)[2]
Benzo(k)fluoranthene	0.781 JH (0.0542)[10]	0.0516 JH (0.00702)[1]	0.277 JH (0.0105)[2]	0.0670 JH (0.0108)[2]
Chrysene	1.74 JH (0.0542)[10]	0.124 JH (0.00702)[1]	0.678 JH (0.0105)[2]	0.156 JH (0.0108)[2]
Dibenz(a,h)anthracene	0.287 J (0.0542)[10]	0.0198 J (0.00702)[1]	0.0931 J (0.0105)[2]	0.0288 J (0.0108)[2]
Fluoranthene	2.29 JH (0.0542)[10]	0.184 JH (0.00702)[1]	1.65 JH (0.0105)[2]	0.200 JH (0.0108)[2]
Fluorene	0.110 JH (0.0542)[10]	0.0138 JH (0.00702)[1]	0.0408 JH (0.0105)[2]	ND U (0.0108)[2]
Indeno(1,2,3-cd)pyrene	0.991 JH (0.0542)[10]	0.0666 JH (0.00702)[1]	0.345 JH (0.0105)[2]	0.0980 JH (0.0108)[2]
Naphthalene	ND UJ (0.0542)[10]	0.0108 J (0.00702)[1]	0.151 J (0.0105)[2]	0.0285 J (0.0108)[2]
Phenanthrene	1.92 JH (0.0542)[10]	0.0891 JH (0.00702)[1]	1.51 JH (0.0105)[2]	0.148 JH (0.0108)[2]
Pyrene	1.83 JH (0.0542)[10]	0.150 JH (0.00702)[1]	1.33 JH (0.0105)[2]	0.184 JH (0.0108)[2]

SITE ID	GalInc	GalInc	GalInc	GalInc
LOCATION ID	INC-SB20	INC-SB22	INC-SB22	INC-SB24
SAMPLE ID	INC-SB20-020	INC-SB22-010	INC-SB22-020	INC-SB24-010
DATE SAMPLED	23-JUN-15	23-JUN-15	23-JUN-15	25-JUN-15
BEG. DEPTH - END DEPTH (FT.)	1.5-2.5	0-0.5	2.5-3.5	0-0.5
PARAMETER				
SM2540G - Percent Moisture (%)				
Moisture	NA	NA	NA	15.3 (0.500)[1]
SW8270D - Low-Level Semivolatile Organic Compounds (mg/kg)				
Acenaphthene	ND U (0.0300)[5]	0.636 (0.103)[20]	0.147 (0.0118)[2]	ND U (0.0285)[5]
Acenaphthylene	ND U (0.0300)[5]	0.392 (0.103)[20]	0.0611 (0.0118)[2]	ND U (0.0285)[5]
Anthracene	0.0426 JH (0.0300)[5]	2.00 JH (0.103)[20]	0.459 JH (0.0118)[2]	0.0877 (0.0285)[5]
Benzo(a)anthracene	0.146 JH (0.0300)[5]	5.73 JH (0.103)[20]	1.05 JH (0.0118)[2]	0.474 (0.0285)[5]
Benzo(a)pyrene	0.151 JH (0.0300)[5]	4.79 JH (0.103)[20]	0.861 JH (0.0118)[2]	0.568 (0.0285)[5]
Benzo(b)fluoranthene	0.161 JH (0.0300)[5]	4.86 JH (0.103)[20]	0.872 JH (0.0118)[2]	0.630 (0.0285)[5]
Benzo(g,h,i)perylene	0.143 JH (0.0300)[5]	2.76 JH (0.103)[20]	0.521 JH (0.0118)[2]	0.557 JL (0.0285)[5]
Benzo(k)fluoranthene	0.0758 JH (0.0300)[5]	2.35 JH (0.103)[20]	0.428 JH (0.0118)[2]	0.397 (0.0285)[5]
Chrysene	0.168 JH (0.0300)[5]	5.60 JH (0.103)[20]	1.02 JH (0.0118)[2]	0.440 (0.0285)[5]
Dibenz(a,h)anthracene	ND UJ (0.0300)[5]	0.930 J (0.103)[20]	0.139 J (0.0118)[2]	0.107 (0.0285)[5]
Fluoranthene	0.288 JH (0.0300)[5]	13.3 JH (0.103)[20]	2.95 JH (0.0118)[2]	0.682 JL (0.0285)[5]
Fluorene	ND U (0.0300)[5]	0.897 JH (0.103)[20]	0.263 JH (0.0118)[2]	ND U (0.0285)[5]
Indeno(1,2,3-cd)pyrene	0.0954 JH (0.0300)[5]	3.22 JH (0.103)[20]	0.470 JH (0.0118)[2]	0.551 (0.0285)[5]
Naphthalene	ND UJ (0.0300)[5]	0.193 J (0.103)[20]	0.0261 J (0.0118)[2]	ND U (0.0285)[5]
Phenanthrene	0.129 JH (0.0300)[5]	8.86 JH (0.103)[20]	2.01 JH (0.0118)[2]	0.350 (0.0285)[5]
Pyrene	0.177 JH (0.0300)[5]	8.31 JH (0.103)[20]	2.07 JH (0.0118)[2]	0.650 (0.0285)[5]
SW8290A - Dioxins (ng/kg)				
1,2,3,4,6,7,8-HpCDD	NA	NA	NA	426 (0.533)[1]
1,2,3,4,6,7,8-HpCDF	NA	NA	NA	95.9 (0.146)[1]
1,2,3,4,7,8,9-HpCDF	NA	NA	NA	5.81 JH (0.255)[1]

PARAMETER	GalInc INC-SB20 INC-SB20-020 23-JUN-15 1.5-2.5	GalInc INC-SB22 INC-SB22-010 23-JUN-15 0-0.5	GalInc INC-SB22 INC-SB22-020 23-JUN-15 2.5-3.5	GalInc INC-SB24 INC-SB24-010 25-JUN-15 0-0.5
SW8290A - Dioxins, cont. (ng/kg)				
1,2,3,4,7,8-HxCDD	NA	NA	NA	7.41 J (0.309)[1]
1,2,3,4,7,8-HxCDF	NA	NA	NA	11.4 U (0.326)[1]
1,2,3,6,7,8-HxCDD	NA	NA	NA	26.8 U (0.326)[1]
1,2,3,6,7,8-HxCDF	NA	NA	NA	12.0 J (0.300)[1]
1,2,3,7,8,9-HxCDD	NA	NA	NA	20.0 U (0.331)[1]
1,2,3,7,8,9-HxCDF	NA	NA	NA	ND U (0.404)[1]
1,2,3,7,8-PeCDD	NA	NA	NA	8.52 J (0.609)[1]
1,2,3,7,8-PeCDF	NA	NA	NA	9.28 J (0.206)[1]
2,3,4,6,7,8-HxCDF	NA	NA	NA	16.4 J (0.255)[1]
2,3,4,7,8-PeCDF	NA	NA	NA	17.6 J (0.208)[1]
2,3,7,8-TCDD	NA	NA	NA	2.44 J (0.383)[1]
2,3,7,8-TCDF	NA	NA	NA	14.4 (0.553)[1]
OCDD	NA	NA	NA	2300 (0.389)[1]
OCDF	NA	NA	NA	97.2 J (0.173)[1]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)										
	GalInc INC-SB24 INC-SB24-020 25-JUN-15 3-4				GalInc INC-SB27 INC-SB27-010 23-JUN-15 0-0.5				GalInc INC-SB27 INC-SB27-020 23-JUN-15 2-3			
SM2540G - Percent Moisture (%)												
Moisture	23.7		(0.500	)[1]	NA				NA			
SW8270D - Low-Level Semivolatile Organic Compounds (mg/kg)												
Acenaphthene	ND	U	(0.0313	)[5]	ND	U	(0.0240	)[5]	ND	U	(0.0322	)[5]
Acenaphthylene	ND	U	(0.0313	)[5]	ND	U	(0.0240	)[5]	0.0404	J	(0.0322	)[5]
Anthracene	0.0749		(0.0313	)[5]	0.0241	JH	(0.0240	)[5]	0.155	JH	(0.0322	)[5]
Benzo(a)anthracene	0.369		(0.0313	)[5]	0.0842	JH	(0.0240	)[5]	0.445	JH	(0.0322	)[5]
Benzo(a)pyrene	0.427		(0.0313	)[5]	0.0913	JH	(0.0240	)[5]	0.524	JH	(0.0322	)[5]
Benzo(b)fluoranthene	0.540		(0.0313	)[5]	0.0963	JH	(0.0240	)[5]	0.597	JH	(0.0322	)[5]
Benzo(g,h,i)perylene	0.510	JL	(0.0313	)[5]	0.0815	JH	(0.0240	)[5]	0.432	JH	(0.0322	)[5]
Benzo(k)fluoranthene	0.343		(0.0313	)[5]	0.0450	JH	(0.0240	)[5]	0.271	JH	(0.0322	)[5]
Chrysene	0.348		(0.0313	)[5]	0.0980	JH	(0.0240	)[5]	0.593	JH	(0.0322	)[5]
Dibenz(a,h)anthracene	0.0951		(0.0313	)[5]	0.0263	J	(0.0240	)[5]	0.101	J	(0.0322	)[5]
Fluoranthene	0.547	JL	(0.0313	)[5]	0.174	JH	(0.0240	)[5]	0.877	JH	(0.0322	)[5]
Fluorene	ND	U	(0.0313	)[5]	ND	U	(0.0240	)[5]	ND	U	(0.0322	)[5]
Indeno(1,2,3-cd)pyrene	0.486		(0.0313	)[5]	0.0882	JH	(0.0240	)[5]	0.359	JH	(0.0322	)[5]
Naphthalene	ND	U	(0.0313	)[5]	ND	UJ	(0.0240	)[5]	0.0389	J	(0.0322	)[5]
Phenanthrene	0.235		(0.0313	)[5]	0.0930	JH	(0.0240	)[5]	0.533	JH	(0.0322	)[5]
Pyrene	0.463		(0.0313	)[5]	0.149	JH	(0.0240	)[5]	0.686	JH	(0.0322	)[5]
SW8290A - Dioxins (ng/kg)												
1,2,3,4,6,7,8-HpCDD	2180		(1.43	)[1]	NA				NA			
1,2,3,4,6,7,8-HpCDF	203		(0.412	)[1]	NA				NA			
1,2,3,4,7,8,9-HpCDF	13.3	J	(0.627	)[1]	NA				NA			

Compiled: 08/21/15 () = Detection Limit [] = Dilution Factor ND = Not Detected NA = Not Applicable * - Value considered suspect, Refer to QC Report

SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)						
PARAMETER	GalInc INC-SB24 INC-SB24-020 25-JUN-15 3-4				GalInc INC-SB27 INC-SB27-010 23-JUN-15 0-0.5	GalInc INC-SB27 INC-SB27-020 23-JUN-15 2-3
SW8290A - Dioxins, cont. (ng/kg)						
1,2,3,4,7,8-HxCDD	91.1		(1.02	)[1]	NA	NA
1,2,3,4,7,8-HxCDF	42.9	U	(0.744	)[1]	NA	NA
1,2,3,6,7,8-HxCDD	253		(1.08	)[1]	NA	NA
1,2,3,6,7,8-HxCDF	31.6	J	(0.706	)[1]	NA	NA
1,2,3,7,8,9-HxCDD	304		(1.10	)[1]	NA	NA
1,2,3,7,8,9-HxCDF	ND	U	(0.808	)[1]	NA	NA
1,2,3,7,8-PeCDD	143		(1.47	)[1]	NA	NA
1,2,3,7,8-PeCDF	22.2	JH	(0.513	)[1]	NA	NA
2,3,4,6,7,8-HxCDF	38.6	J	(0.774	)[1]	NA	NA
2,3,4,7,8-PeCDF	ND	U	(0.507	)[1]	NA	NA
2,3,7,8-TCDD	28.0		(1.02	)[1]	NA	NA
2,3,7,8-TCDF	27.5		(1.11	)[1]	NA	NA
OCDD	6380		(1.23	)[1]	NA	NA
OCDF	201		(0.406	)[1]	NA	NA

Table A-2

Inorganic Analyses for Soils

SITE ID	GalInc	GalInc	GalInc	GalInc
LOCATION ID	INC-SB01	INC-SB01	INC-SB01	INC-SB02
SAMPLE ID	INC-SB01-010	INC-SB01-011 Dup of INC-SB01-010	INC-SB01-020	INC-SB02-010
DATE SAMPLED	25-JUN-15	25-JUN-15	25-JUN-15	25-JUN-15
BEG. DEPTH - END DEPTH (FT.)	0-0.5	0-0.5	2.5-3.5	0-0.5
PARAMETER				
Percent Solid (%)				
Percent moisture	7.23 (0.00)[1]	5.86 (0.00)[1]	12.7 (0.00)[1]	13.2 (0.00)[1]
SW6020A - Metals (mg/kg)				
Arsenic	9.29 J (0.473)[5]	9.78 J (0.506)[5]	46.9 J (0.511)[5]	20.7 J (0.534)[5]
Barium	509 (4.73)[50]	412 (5.06)[50]	1200 (5.11)[50]	561 (10.7)[100]
Cadmium	2.22 (0.0946)[5]	1.42 (0.101)[5]	3.73 (0.102)[5]	5.53 (0.107)[5]
Chromium, total	31.1 (0.473)[5]	21.0 (0.506)[5]	73.5 (0.511)[5]	41.9 (0.534)[5]
Lead	656 (0.946)[50]	430 (1.01)[50]	2090 (1.02)[50]	3850 (2.13)[100]
Selenium	0.486 (0.142)[5]	0.565 (0.152)[5]	0.550 (0.153)[5]	0.347 J (0.160)[5]
Silver	5.97 (0.0946)[5]	5.44 (0.101)[5]	5.91 (0.102)[5]	3.69 (0.107)[5]
SW7471B - Mercury (mg/kg)				
Mercury	0.0838 (0.0167)[1]	0.0854 (0.0165)[1]	0.704 (0.0828)[5]	0.821 (0.0912)[5]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)														
	GalInc INC-SB02 INC-SB02-020 25-JUN-15 2.5-3.5				GalInc INC-SB03 INC-SB03-013 25-JUN-15 0-0.5				GalInc INC-SB03 INC-SB03-020 25-JUN-15 2-3				GalInc INC-SB04 INC-SB04-010 25-JUN-15 0-0.5		
Percent Solid (%)															
Percent moisture	21.8		(0.00	)[1]	14.5		(0.00	)[1]	17.7		(0.00	)[1]	2.05		(0.00	)[1]
SW6020A - Metals (mg/kg)															
Arsenic	20.1	J	(0.576	)[5]	27.1	J	(0.552	)[5]	12.2	J	(0.579	)[5]	4.87	J	(0.452	)[5]
Barium	1570		(5.76	)[50]	356		(0.552	)[5]	387		(0.579	)[5]	235		(0.452	)[5]
Cadmium	5.06		(0.115	)[5]	3.74		(0.110	)[5]	7.28		(0.116	)[5]	0.927		(0.0903	)[5]
Chromium, total	114		(0.576	)[5]	39.3		(0.552	)[5]	40.7		(0.579	)[5]	10.4		(0.452	)[5]
Lead	1980		(1.15	)[50]	857		(1.10	)[50]	696		(1.16	)[50]	253		(0.0903	)[5]
Selenium	0.402	J	(0.173	)[5]	0.528	J	(0.165	)[5]	0.517	J	(0.174	)[5]	0.205	J	(0.136	)[5]
Silver	5.02		(0.115	)[5]	2.34		(0.110	)[5]	5.25		(0.116	)[5]	0.633		(0.0903	)[5]
SW7471B - Mercury (mg/kg)															
Mercury	0.644		(0.100	)[5]	0.124		(0.0163	)[1]	0.210		(0.0169	)[1]	0.0389		(0.0141	)[1]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)														
	GalInc INC-SB04 INC-SB04-020 25-JUN-15 2-3				GalInc INC-SB05 INC-SB05-010 25-JUN-15 0-0.5				GalInc INC-SB05 INC-SB05-020 25-JUN-15 2.5-3.5				GalInc INC-SB05 INC-SB05-021 Dup of INC-SB05-0 25-JUN-15 2.5-3.5			
Percent Solid (%)															
Percent moisture	10.8		(0.00	)[1]	9.37		(0.00	)[1]	14.4		(0.00	)[1]	10.8		(0.00	)[1]
SW6020A - Metals (mg/kg)															
Arsenic	1.21	J	(0.514	)[5]	30.9	J	(0.546	)[5]	81.8	J	(0.536	)[5]	66.7	J	(0.519	)[5]
Barium	10.8		(0.514	)[5]	970		(5.46	)[50]	992	J	(5.36	)[50]	583	J	(5.19	)[50]
Cadmium	ND	U	(0.103	)[5]	2.05		(0.109	)[5]	4.13		(0.107	)[5]	2.96		(0.104	)[5]
Chromium, total	4.35		(0.514	)[5]	52.3		(0.546	)[5]	86.3		(0.536	)[5]	79.4		(0.519	)[5]
Lead	3.52		(0.103	)[5]	1070		(1.09	)[50]	2310		(1.07	)[50]	2230		(1.04	)[50]
Selenium	0.418	J	(0.154	)[5]	0.345	J	(0.164	)[5]	0.381	J	(0.161	)[5]	0.346	J	(0.156	)[5]
Silver	ND	U	(0.103	)[5]	3.06		(0.109	)[5]	2.68		(0.107	)[5]	3.22		(0.104	)[5]
SW7471B - Mercury (mg/kg)															
Mercury	ND	U	(0.0175	)[1]	0.0702		(0.0174	)[1]	0.108		(0.0174	)[1]	0.102		(0.0161	)[1]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)													
	GalInc INC-SB06 INC-SB06-010 24-JUN-15 0-0.5				GalInc INC-SB06 INC-SB06-020 24-JUN-15 3-4				GalInc INC-SB07 INC-SB07-010 24-JUN-15 0-0.5				GalInc INC-SB07 INC-SB07-020 24-JUN-15 2-3		
Percent Solid (%)														
Percent moisture	6.92		(0.00	)[1]	13.8		(0.00	)[1]	13.1		(0.00	)[1]	18.3	(0.00	)[1]
SW6020A - Metals (mg/kg)														
Arsenic	37.2	J	(0.467	)[5]	68.7	J	(0.532	)[5]	ND	U	(5.43	)[50]	37.1	(0.532	)[5]
Barium	56.6		(4.67	)[50]	411		(0.532	)[5]	157		(5.43	)[50]	1190	(5.32	)[50]
Cadmium	5.25		(0.0934	)[5]	4.62		(0.106	)[5]	1.11	J	(1.09	)[50]	7.72	(0.106	)[5]
Chromium, total	41.9		(0.467	)[5]	66.5		(0.532	)[5]	13.5	J	(5.43	)[50]	88.4	(0.532	)[5]
Lead	2250		(0.934	)[50]	1300		(1.06	)[50]	306		(1.09	)[50]	1970	(1.06	)[50]
Selenium	0.792		(0.140	)[5]	0.639		(0.160	)[5]	ND	U	(1.63	)[50]	0.570	(0.160	)[5]
Silver	4.10		(0.0934	)[5]	2.04		(0.106	)[5]	ND	U	(1.09	)[50]	23.0	(0.106	)[5]
SW7471B - Mercury (mg/kg)														
Mercury	0.659		(0.0241	)[1]	0.215		(0.0167	)[1]	0.0604		(0.0176	)[1]	0.572	(0.0193	)[1]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)														
		GalInc INC-SB08 INC-SB08-010 24-JUN-15 0-0.5				GalInc INC-SB08 INC-SB08-020 24-JUN-15 2-3				GalInc INC-SB09 INC-SB09-010 25-JUN-15 0-0.5				GalInc INC-SB09 INC-SB09-020 25-JUN-15 2.5-3.5	
Percent Solid (%)															
Percent moisture	15.4		(0.00	)[1]	14.9		(0.00	)[1]	13.1		(0.00	)[1]	22.5	(0.00	)[1]
SW6020A - Metals (mg/kg)															
Arsenic	56.5		(5.74	)[50]	53.3		(5.71	)[50]	11.8	J	(0.533	)[5]	229	(5.86	)[50]
Barium	1100		(5.74	)[50]	975		(5.71	)[50]	816		(5.33	)[50]	1530	(5.86	)[50]
Cadmium	10.0		(1.15	)[50]	68.4		(1.14	)[50]	6.15		(0.107	)[5]	14.5	(1.17	)[50]
Chromium, total	100		(5.74	)[50]	135		(5.71	)[50]	48.6		(0.533	)[5]	75.8	(5.86	)[50]
Lead	2710		(1.15	)[50]	20400		(11.4	)[500]	969		(1.07	)[50]	1890	(1.17	)[50]
Selenium	ND	U	(1.72	)[50]	1.88	J	(1.71	)[50]	1.04		(0.160	)[5]	ND	U (1.76	)[50]
Silver	6.84		(1.15	)[50]	4.17		(1.14	)[50]	2.33		(0.107	)[5]	12.9	(1.17	)[50]
SW7471B - Mercury (mg/kg)															
Mercury	0.903		(0.0802	)[5]	0.293		(0.0164	)[1]	0.187		(0.0174	)[1]	0.854	(0.0911	)[5]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)															
	GalInc INC-SB10 INC-SB10-010 25-JUN-15 0-0.5				GalInc INC-SB10 INC-SB10-020 25-JUN-15 2.5-3.5				GalInc INC-SB11 INC-SB11-010 23-JUN-15 0-0.5				GalInc INC-SB11 INC-SB11-011 Dup of INC-SB11-0 23-JUN-15 0-0.5			
Percent Solid (%)																
Percent moisture	6.87		(0.00	)[1]	22.6		(0.00	)[1]	15.4		(0.00	)[1]	11.6		(0.00	)[1]
SW6020A - Metals (mg/kg)																
Arsenic	2.93	J	(0.493	)[5]	54.6	J	(0.598	)[5]	29.8		(0.574	)[5]	26.5		(0.472	)[5]
Barium	43.9		(0.493	)[5]	757		(5.98	)[50]	506		(0.574	)[5]	489		(4.72	)[50]
Cadmium	0.345		(0.0985	)[5]	6.08		(0.120	)[5]	6.82		(0.115	)[5]	8.17		(0.0943	)[5]
Chromium, total	5.31		(0.493	)[5]	96.6		(0.598	)[5]	42.9	JH	(0.574	)[5]	43.5	JH	(0.472	)[5]
Lead	58.3		(0.0985	)[5]	2370		(1.20	)[50]	3240	J	(1.15	)[50]	1270	J	(0.943	)[50]
Selenium	0.318	J	(0.148	)[5]	0.571	J	(0.179	)[5]	0.622		(0.172	)[5]	0.768		(0.141	)[5]
Silver	0.148	J	(0.0985	)[5]	9.35		(0.120	)[5]	3.79		(0.115	)[5]	2.35		(0.0943	)[5]
SW7471B - Mercury (mg/kg)																
Mercury	ND	U	(0.0155	)[1]	1.39		(0.181	)[10]	0.238		(0.0180	)[1]	0.230		(0.0174	)[1]

SITE ID	GalInc	GalInc	GalInc	GalInc
LOCATION ID	INC-SB11	INC-SB12	INC-SB12	INC-SB13
SAMPLE ID	INC-SB11-020	INC-SB12-010	INC-SB12-020	INC-SB13-010
DATE SAMPLED	23-JUN-15	23-JUN-15	23-JUN-15	23-JUN-15
BEG. DEPTH - END DEPTH (FT.)	0.5-1.5	0-0.5	1.5-2.5	0-0.5
PARAMETER				
Percent Solid (%)				
Percent moisture	18.0 (0.00)[1]	17.4 (0.00)[1]	26.3 (0.00)[1]	17.2 (0.00)[1]
SW6020A - Metals (mg/kg)				
Arsenic	53.3 (5.45)[50]	41.3 (5.45)[50]	48.1 (6.59)[50]	10.9 J (5.81)[50]
Barium	641 (5.45)[50]	1790 (5.45)[50]	994 (6.59)[50]	544 (5.81)[50]
Cadmium	12.4 (1.09)[50]	8.54 (1.09)[50]	22.2 (1.32)[50]	2.12 J (1.16)[50]
Chromium, total	96.3 (5.45)[50]	142 (5.45)[50]	95.2 (6.59)[50]	31.4 (5.81)[50]
Lead	4800 (1.09)[50]	4190 (1.09)[50]	30400 (13.2)[500]	511 (1.16)[50]
Selenium	ND U (1.63)[50]	ND U (1.64)[50]	ND U (1.98)[50]	ND U (1.74)[50]
Silver	4.25 (1.09)[50]	17.4 (1.09)[50]	5.15 (1.32)[50]	3.14 (1.16)[50]
SW7471B - Mercury (mg/kg)				
Mercury	0.125 (0.0164)[1]	0.962 (0.0815)[5]	0.493 (0.0201)[1]	0.402 (0.0170)[1]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)																
	GalInc INC-SB13 INC-SB13-020 23-JUN-15 2-3				GalInc INC-SB14 INC-SB14-013 24-JUN-15 0-0.5				GalInc INC-SB14 INC-SB14-020 24-JUN-15 3-4				GalInc INC-SB15 INC-SB15-010 24-JUN-15 0-0.5			
Percent Solid (%)																
Percent moisture	19.0		(0.00	)[1]	5.84		(0.00	)[1]	15.8		(0.00	)[1]	7.31		(0.00	)[1]
SW6020A - Metals (mg/kg)																
Arsenic	32.8		(5.99	)[50]	ND	U	(5.01	)[50]	ND	U	(5.94	)[50]	ND	U	(4.90	)[50]
Barium	325		(5.99	)[50]	140		(5.01	)[50]	25.7		(5.94	)[50]	28.0		(4.90	)[50]
Cadmium	8.47		(1.20	)[50]	ND	U	(1.00	)[50]	ND	U	(1.19	)[50]	ND	U	(0.981	)[50]
Chromium, total	61.6		(5.99	)[50]	17.6	J	(5.01	)[50]	7.47	J	(5.94	)[50]	8.66	J	(4.90	)[50]
Lead	676		(1.20	)[50]	149		(1.00	)[50]	16.3		(1.19	)[50]	18.3		(0.981	)[50]
Selenium	ND	U	(1.80	)[50]	ND	U	(1.50	)[50]	ND	U	(1.78	)[50]	ND	U	(1.47	)[50]
Silver	5.80		(1.20	)[50]	ND	U	(1.00	)[50]	ND	U	(1.19	)[50]	ND	U	(0.981	)[50]
SW7471B - Mercury (mg/kg)																
Mercury	0.286		(0.0169	)[1]	0.0676		(0.0154	)[1]	0.0248	J	(0.0163	)[1]	ND	U	(0.0148	)[1]

SITE ID	GalInc	GalInc	GalInc	GalInc
LOCATION ID	INC-SB15	INC-SB15	INC-SB16	INC-SB16
SAMPLE ID	INC-SB15-020	INC-SB15-021 Dup of INC-SB15-020	INC-SB16-010	INC-SB16-020
DATE SAMPLED	24-JUN-15	24-JUN-15	23-JUN-15	23-JUN-15
BEG. DEPTH - END DEPTH (FT.)	2-3	2-3	0-0.5	2-3
PARAMETER				
Percent Solid (%)				
Percent moisture	28.3 (0.00)[1]	12.8 (0.00)[1]	19.7 (0.00)[1]	15.5 (0.00)[1]
SW6020A - Metals (mg/kg)				
Arsenic	ND U (6.84)[50]	ND U (5.74)[50]	89.9 (5.66)[50]	61.5 (5.63)[50]
Barium	164 J (6.84)[50]	110 J (5.74)[50]	2360 (5.66)[50]	974 (5.63)[50]
Cadmium	ND U (1.37)[50]	ND U (1.15)[50]	8.39 (1.13)[50]	13.1 (1.13)[50]
Chromium, total	11.1 J (6.84)[50]	11.7 J (5.74)[50]	51.6 (5.66)[50]	93.6 (5.63)[50]
Lead	27.1 (1.37)[50]	37.9 (1.15)[50]	3760 (1.13)[50]	2020 (1.13)[50]
Selenium	ND U (2.05)[50]	ND U (1.72)[50]	ND U (1.70)[50]	ND U (1.69)[50]
Silver	ND U (1.37)[50]	ND U (1.15)[50]	3.86 (1.13)[50]	1.29 J (1.13)[50]
SW7471B - Mercury (mg/kg)				
Mercury	0.0329 J (0.0193)[1]	0.0387 J (0.0164)[1]	0.160 (0.0189)[1]	0.177 (0.0162)[1]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)														
	GalInc INC-SB17 INC-SB17-010 23-JUN-15 0-0.5				GalInc INC-SB17 INC-SB17-020 23-JUN-15 2-3				GalInc INC-SB18 INC-SB18-010 23-JUN-15 0-0.5				GalInc INC-SB18 INC-SB18-023 23-JUN-15 1.5-2.5			
Percent Solid (%)															
Percent moisture	6.88		(0.00	)[1]	13.8		(0.00	)[1]	19.7		(0.00	)[1]	29.2		(0.00	)[1]
SW6020A - Metals (mg/kg)															
Arsenic	7.20	J	(5.32	)[50]	53.0		(5.23	)[50]	6.77		(0.593	)[5]	19.1		(0.642	)[5]
Barium	739		(5.32	)[50]	418		(5.23	)[50]	569		(0.593	)[5]	1580		(64.2	)[500]
Cadmium	ND	U	(1.06	)[50]	ND	U	(1.05	)[50]	2.53		(0.119	)[5]	3.00		(0.128	)[5]
Chromium, total	17.7	J	(5.32	)[50]	12.2	J	(5.23	)[50]	21.4	JH	(0.593	)[5]	176	JH	(0.642	)[5]
Lead	61.6		(1.06	)[50]	189		(1.05	)[50]	401		(0.119	)[5]	3830		(12.8	)[500]
Selenium	ND	U	(1.59	)[50]	ND	U	(1.57	)[50]	0.562	J	(0.178	)[5]	0.513	J	(0.193	)[5]
Silver	ND	U	(1.06	)[50]	ND	U	(1.05	)[50]	0.628		(0.119	)[5]	2.52		(0.128	)[5]
SW7471B - Mercury (mg/kg)															
Mercury	0.0587		(0.0154	)[1]	0.531		(0.0180	)[1]	0.217		(0.0186	)[1]	0.462		(0.107	)[5]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)														
	GalInc INC-SB19 INC-SB19-010 23-JUN-15 0-0.5				GalInc INC-SB19 INC-SB19-020 23-JUN-15 1.5-2.5				GalInc INC-SB20 INC-SB20-010 23-JUN-15 0-0.5				GalInc INC-SB20 INC-SB20-011 Dup of INC-SB20-0 23-JUN-15 0-0.5			
Percent Solid (%)															
Percent moisture	11.0		(0.00	)[1]	29.0		(0.00	)[1]	11.3		(0.00	)[1]	11.8		(0.00	)[1]
SW6020A - Metals (mg/kg)															
Arsenic	17.2		(0.540	)[5]	18.2		(0.641	)[5]	2.61		(0.553	)[5]	2.95		(0.510	)[5]
Barium	385		(0.540	)[5]	289		(0.641	)[5]	58.9		(0.553	)[5]	56.5		(0.510	)[5]
Cadmium	3.32		(0.108	)[5]	2.83		(0.128	)[5]	0.203	J	(0.111	)[5]	0.200	J	(0.102	)[5]
Chromium, total	43.3	JH	(0.540	)[5]	29.0	JH	(0.641	)[5]	6.77	JH	(0.553	)[5]	6.45	JH	(0.510	)[5]
Lead	686		(1.08	)[50]	987		(1.28	)[50]	41.6		(0.111	)[5]	46.6		(0.102	)[5]
Selenium	0.331	J	(0.162	)[5]	0.455	J	(0.192	)[5]	0.426	J	(0.166	)[5]	0.361	J	(0.153	)[5]
Silver	0.984		(0.108	)[5]	1.23		(0.128	)[5]	0.481		(0.111	)[5]	ND	U	(0.102	)[5]
SW7471B - Mercury (mg/kg)															
Mercury	0.208		(0.0167	)[1]	0.447		(0.0204	)[1]	0.0371	J	(0.0165	)[1]	0.0272	J	(0.0162	)[1]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)													
		GalInc INC-SB20 INC-SB20-020 23-JUN-15 1.5-2.5			GalInc INC-SB22 INC-SB22-010 23-JUN-15 0-0.5			GalInc INC-SB22 INC-SB22-020 23-JUN-15 2.5-3.5			GalInc INC-SB24 INC-SB24-010 25-JUN-15 0-0.5		
Percent Solid (%)													
Percent moisture	18.5	(0.00	)[1]	10.4	(0.00	)[1]	22.7	(0.00	)[1]	14.8	(0.00	)[1]
SW6020A - Metals (mg/kg)												
Arsenic	5.13	(0.584	)[5]	3.94	(0.473	)[5]	9.34	(0.634	)[5]	23.8	J (0.533	)[5]
Barium	120	(0.584	)[5]	109	(0.473	)[5]	172	(0.634	)[5]	777	(5.33	)[50]
Cadmium	1.42	(0.117	)[5]	0.673	(0.0945	)[5]	1.38	(0.127	)[5]	7.26	(0.107	)[5]
Chromium, total	10.2	JH (0.584	)[5]	7.52	JH (0.473	)[5]	15.9	JH (0.634	)[5]	67.2	(0.533	)[5]
Lead	256	(0.117	)[5]	190	(0.0945	)[5]	439	(0.127	)[5]	1450	(1.07	)[50]
Selenium	0.397	J (0.175	)[5]	0.348	J (0.142	)[5]	0.409	J (0.190	)[5]	0.602	(0.160	)[5]
Silver	1.11	(0.117	)[5]	ND	U (0.0945	)[5]	0.489	(0.127	)[5]	3.54	(0.107	)[5]
SW7471B - Mercury (mg/kg)												
Mercury	0.137	(0.0183	)[1]	0.232	(0.0150	)[1]	0.0951	(0.0176	)[1]	0.497	(0.0817	)[5]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)												
	GalInc INC-SB24 INC-SB24-020 25-JUN-15 3-4				GalInc INC-SB27 INC-SB27-010 23-JUN-15 0-0.5				GalInc INC-SB27 INC-SB27-020 23-JUN-15 2-3			
Percent Solid (%)												
Percent moisture	25.8		(0.00	)[1]	4.73		(0.00	)[1]	26.0		(0.00	)[1]
SW6020A - Metals (mg/kg)												
Arsenic	65.0	J	(0.624	)[5]	ND	U	(5.00	)[50]	38.6		(6.43	)[50]
Barium	809		(12.5	)[100]	63.7		(5.00	)[50]	1070		(6.43	)[50]
Cadmium	19.9		(0.125	)[5]	ND	U	(1.00	)[50]	5.70		(1.29	)[50]
Chromium, total	105		(0.624	)[5]	10.8	J	(5.00	)[50]	49.8		(6.43	)[50]
Lead	6970		(2.50	)[100]	41.9		(1.00	)[50]	1360		(1.29	)[50]
Selenium	1.15		(0.187	)[5]	ND	U	(1.50	)[50]	ND	U	(1.93	)[50]
Silver	3.17		(0.125	)[5]	ND	U	(1.00	)[50]	1.76	J	(1.29	)[50]
SW7471B - Mercury (mg/kg)												
Mercury	0.910		(0.0971	)[5]	0.0533		(0.0160	)[1]	0.0667		(0.0195	)[1]

Table A-3

Organic Analyses for Groundwaters

[This table is not applicable.]

Table A-4

Organic Analyses for Groundwaters

[This table is not applicable.]

Attachment B

TRRP-13 LRCs and ERs

DHL Analytical Checklists

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: City of Galveston Incinerator	**Date:** 7/10/15
Reviewer Name: Carlos Castro	**Laboratory Work Order:** 1506293
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?		X			R5-04
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			R6-04
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?		X			R7-04
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: City of Galveston Incinerator	**Date:** : 7/10/15
Reviewer Name: Carlos Castro	**Laboratory Work Order:** 1506293

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?		X			**S4-01**
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			**S9-01**
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5,
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) The amount of analyte measured in the duplicate,
  - b) The calculated RPD, and
  - c) The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-6, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager	Scott Schroeder	7/10/15
Scott Schroeder – Technical Director	Signature	Date

DHL Analytical, Inc. **Date:** *10-Jul-15*

CLIENT: AECOM
Project: City of Galveston Incinerator
Lab Order: 1506293

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7471B - Mercury Analysis
Method SW8270D-LL - PAH Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 6/25/15. A total of 22 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R5-04

For Metals analysis performed on 7/7/15 Lead was detected below the reporting limit in the method blank (MB-70261). All associated samples were detected greater than 10 times the amount in the blank for this analyte. No further corrective actions were taken.

Exception Report R6-04

For PAH analysis performed on 7/7/15 (batch 70328) the LCS was slightly above control limits for seven compounds. These are flagged accordingly in the QC summary report. This was approved by the client. No further corrective actions were taken.

Exception Report R7-03 & R7-04

For PAH analysis performed on 7/7/15 and 7/8/18 (batches 70328 & 70332) the matrix spikes and matrix spike duplicate recoveries were out of control limits for sixteen compounds. In addition, the matrix spike and matrix spike duplicate (batch 70328) had the RPD above control limits for a total of twelve compounds. This was due to the non-homogeneity of the matrix spike and matrix spike duplicate. The matrix spike duplicate extract was noticeably darker than the matrix spike. These are flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate (batch 70328) was from this work order. The sample selected for the matrix spike and matrix spike duplicate (batch 70332) was not from this work order. No further corrective actions were taken.

For Metals analysis performed on 7/1/15 and 7/7/15 (batches 70255 & 70261) the matrix spikes and matrix spike duplicate recoveries were out of control limits for a total of three analytes. In addition, the matrix spike and matrix spike duplicate (batch 70255) had the RPD above control limits for Barium.

These are flagged accordingly. The sample selected for the matrix spike and matrix spike duplicate (batch 70255) was from this work order. The sample selected for the matrix spike and matrix spike duplicate (batch 70261) was not from this work order. The LCSs were within control limits for these analytes. No further corrective actions were taken.

For Mercury analysis performed on 6/29/15 (batch 70215) the matrix spike recovery was above control limits. This is flagged accordingly. The sample selected for the matrix spike and matrix spike duplicate (batch 70215) was from this work order. The LCS was within control limits. No further corrective actions were taken.

Exception Report R10-01

For Metals analysis (batch 70261) the matrix spike and matrix spike duplicate (1506310-01 MS/MSD) were analyzed at a 50x dilution. This was approved by the client.

For PAH analysis all samples were diluted prior to analysis due to the nature of the samples except for sample INC-SB19-020 (color).

For Metals analysis eleven samples were diluted prior to analysis due to the nature of the samples (concentration of target analytes).

Exception Report S4-01

For PAH analysis sample INC-SB11-011 had the low response for the internal standard Perylene-d12. This was due to the sample extract matrix and color. All associated compounds are being reported from the 50x dilution.

Exception Report S4-01

For Metals analysis performed on 7/1/15 (batch 70255) the PDS recovery was above control limits for Lead. This is flagged accordingly in the QC summary report. The serial dilution was within control limits for this analyte. No further corrective actions were taken.

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: City of Galveston Incinerator	**Date:** 7/13/15
Reviewer Name: Carlos Castro	**Laboratory Work Order:** 1506310
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?	X				
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			R4-02
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?		X			R5-04
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			R6-04
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?		X			R7-04
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: City of Galveston Incinerator	**Date:** 7/13/15
Reviewer Name: Carlos Castro	**Laboratory Work Order:** 1506310

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?		X			**S1-06**
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?		X			**S2-02**
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with NELAC Chapter 5,
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs).
R4 Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits.
R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits.
R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits
R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-6, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager	Scott Schroeder	7/14/15
Scott Schroeder – Technical Director	Signature	Date

CLIENT: AECOM
Project: City of Galveston Incinerator
Lab Order: 1506310

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis (soil & water)
Method SW7470A/7471B - Mercury Analysis (water & soil)
Method SW8270D-LL - PAH Analysis (soil & water)
Method SW8270D - Semivolatiles Analysis (soil & water) (the compound Benzaldehyde is not NELAC certified)
Method SW8270D - PCB Analysis (soil & water)
Method SW8260C - Volatile Organics (soil & water) (the compound Cyclohexane is not NELAC certified)
Method Tx1005 - Total Petroleum Hydrocarbons Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 6/26/15. A total of 38 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R4-02

For Semivolatiles analysis performed on 7/8/15, 7/2/15 and 7/7/15 the surrogate recoveries for samples INC-SB06-020, INC-SB01-020, ICV-150702 and ICV-150707 were above control limits for a total of four surrogates. These are flagged accordingly. The remaining surrogates were within control limits. No further corrective actions were taken.

For PCB analysis performed on 7/2/15, 7/6/15, 7/7/15 and 7/8/15 the surrogate recoveries for seven and the matrix spike duplicate (batch 70341) were above control limits for 2-Fluorobiphenyl and/or 4-Terphenyl-d14. These are flagged accordingly. The remaining surrogate was within control limits except for sample INC-SB01-010 which was confirmed by re-analysis. No further corrective actions were taken.

For TPH analysis performed on 7/2/15 the surrogate recovery for sample INC-SB09-010 was above control limits for Octacosane. This is flagged accordingly. The remaining surrogate was within control limits. No further corrective actions were taken.

For Volatiles analysis performed on 6/30/15 and 7/7/15 the surrogate recoveries for samples INC-SB06-020 and INC-SB09-010 were out of control limits for Dibromomfluoromethane or 4-Bromofluorobenzene. These are flagged accordingly. The remaining surrogates were within control limits. No further corrective actions were taken.

Exception Report R5-04

For Metals analysis performed on 7/7/15 and 7/8/15 (batches 70261 & 70338) Lead was detected below the reporting limits in the method blanks (MB-70261 & MB-70338). All associated samples were detected greater than 10 times the amount in the blanks for this analyte. No further corrective actions were taken.

For Volatiles analysis performed on 6/30/15 (batch 70240) Acetone was detected below the reporting limit in the method blank (MB-70240). In addition, Acetone and 1-Chlorohexane were detected below the reporting limit in the system blank (MB-150630). All associated samples may be biased high for these compounds. No further corrective actions were taken.

For Semivolatiles analysis performed on 7/7/15 and 7/8/15 (batches 70307 & 70340) Bis(2-ethylhexyl)phthalate was detected below the reporting limit in the method blanks (MB-70307 & MB-70340). All associated samples may be biased high for this compound. No further corrective actions were taken.

Exception Report R6-04

For Semivolatiles analysis performed on 7/8/15 (batch 70340) the LCS was slightly above control limits for Benzyl alcohol. This is flagged accordingly in the QC summary report. All associated samples were below detection limits for this compound. No further corrective actions were taken.

Exception Report R7-03 & R7-04

For Semivolatiles analysis performed on 7/2/15, 7/7/15 and 7/8/15 (batches 70291, 70307 & 70340) the matrix spikes and matrix spike duplicate recoveries were out of control limits for a total of twenty-one compounds. In addition, the matrix spikes and matrix spike duplicates (batches 70291, 70307 & 70340) had the RPDs above control limits for a total of four compounds. For batch 70340 this was due to the variation of the extract colors between the matrix spike and matrix spike duplicate. The matrix spike and matrix spike duplicate (batch 70340) were re-analyzed to confirm the non-homogeneity of the samples. These are flagged accordingly in the QC summary report. The samples selected for the matrix spike and matrix spike duplicate (batches 70291 & 70340) were from this work order. The sample selected for the matrix spike and matrix spike duplicate (batch 70307) was not from this work order. The LCSs were within control limits for these compounds. No further corrective actions were taken.

For Metals analysis performed on 7/2/15, 7/6/15, 7/7/15 and 7/8/15 (batches 70280, 70316, 70261 & 70338) the matrix spikes and matrix spike duplicate recoveries were out of control limits for a total of three analytes. In addition, the matrix spike and matrix spike duplicate (batch 70316) had the RPD slightly above control limits for Arsenic. These are flagged accordingly. The samples selected for the

matrix spikes and matrix spike duplicates (batches 70261 & 70316) were from this work order. The sample selected for the matrix spike and matrix spike duplicate (batches 70280 & 70338) were not from this work order. The LCSs were within control limits for these analytes. No further corrective actions were taken.

For Volatiles analysis performed on 6/30/15 (batch 70240) the matrix spike and matrix spike duplicate recoveries were below control limits for a total of twenty-eight compounds. This was due to matrix interference. These are flagged accordingly. The sample selected for the matrix spike and matrix spike duplicate (batch 70240) was from this work order. The LCS was within control limits for these compounds. No further corrective actions were taken.

For PAH analysis performed on 7/8/15 (batches 70332) the matrix spike and matrix spike duplicate recoveries were below control limits for Benzo[g,h,i]perylene and/or Fluoranthene. This was due to the color of the matrix spike and matrix spike duplicate. These are flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate (batch 70332) was from this work order. The LCS was within control limits for these compounds. No further corrective actions were taken.

Exception Report R10-01

For Metals analysis (batch 70261) the matrix spike and matrix spike duplicate (1506310-01 MS/MSD) were analyzed at a 50x dilution. This was approved by the client.

For PAH analysis seven samples were diluted prior to analysis due to the nature of the samples (color).

For Metals analysis nine samples were diluted prior to analysis due to the nature of the samples (concentration of target analytes).

For Semivolatiles analysis five samples were diluted prior to analysis due to the nature of the samples (color and/or concentration of hydrocarbons).

For PAH analysis (batch 70265) an MS/MSD was not performed due to insufficient sample volume. An LCS/LCSD was performed instead.

For Volatiles analysis (batch 70297) an MS/MSD was not performed. The client specified MS/MSD was performed in batch 70240 (1506310-27 MS/MSD).

Exception Report S1-06

For Semivolatiles analysis, the recovery of 3,3'-Dichlorobenzidine for the Second Source Calibration Verification was above the method control limits. This compound was within method control limits in the daily calibrations. No further corrective actions were taken.

Exception Report S2-02

For Volatiles analysis, the recoveries for a total of fourteen compounds for the Initial Calibration Verifications (ICV-150629, ICV-150630, ICV2-150630, ICV-150701 & ICV-150707) were out of the method control limits specified in SW8260C (80-120% recovery). These are flagged accordingly in the QC summary report. The number of target compounds outside of the method control limits for the ICVs are less than 20% of the total number of compounds being reported; this is allowed in SW8260C specifications. These compounds were within control limits in the associated LCSs. No further corrective actions were taken.

For Semivolatiles analysis, the recoveries for a total of eleven compounds for the Initial Calibration Verifications (ICV-150702, ICV-150707, ICV-150708 & ICV-150710) were out of the method control limits specified in SW8270D (80-120% recovery). These are flagged accordingly. The number of target compounds outside of the method control limits for the ICVs are less than 20% of the total number of compounds being reported; this is allowed in SW8270D specifications. These compounds were within control limits in the associated LCSs except for Benzyl alcohol (ICV-150708). No further corrective actions were taken.

For PCB analysis, the recovery of one compound for the Initial Calibration Verification (ICV-150706 2154) was slightly below the method control limits specified in SW8270D (80-120% recovery). This is flagged accordingly. The number of target compounds outside of the method control limits for the ICV is less than 20% of the total number of compounds being reported; this is allowed in SW8270D specifications. This compound was within control limits in the associated LCS. No further corrective actions were taken.

Eurofins Lancaster Checklists

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Data Package Signature Page	SDG #: CGI01
Department or Fraction: Dioxins/Furans HRMS	Project Name: City Of Galveston Incinerator
LLI Sample #(s): 7944097-7944104	Batch #(s): 15182001, 15182002

This Data Package consists of:

Signature Page (this page)
Quality Control Reference List
Laboratory Review Check List (LRC) including:
a) Reportable Data,
b) Supporting Data, and
c) Exception Report (for every "No" or "Not Reviewed (NR)" item in laboratory review checklist).

R4 Surrogate Summary Forms including:
a) Calculated recovery (%R), and
b) Surrogate QC limits.

R5 Summary Forms for Blank Samples;

R6 Summary Forms for Laboratory Control Samples (LCSs) including:
a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c) LCS QC limits.

R7 Summary Forms for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
a) MS/MSD spiking amounts,
b) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
c) Calculated %Rs and relative percent differences (RPDs), and
d) MS/MSD QC limits

R8 Laboratory Analytical Duplicate (if applicable) Recovery and Precision:
a) The amount of analyte measured in the duplicate,
b) The calculated RPD, and
c) The laboratory's QC limits for analytical duplicates.

R9 List of Method Quantitation Limits (MQLs) and detectability check samples (DCS) results for each analyte for each method and matrix.

R10 Other problems or anomalies

Release Statement:

I am responsible for the release of this section of the laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for the methods, analytes, and matrices reported in this section of the data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory for this section of the data package have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Jessica R. Baron	Jessica R. Baron	Specialist	08/11/2015
Name (printed)	Signature	Official Title (printed)	Date

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Review Checklist: Reportable Data	SDG #: CGI01
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	LLI Sample #(s): 7944097-7944104
LRC Date: 08/11/2015	Batch #(s): 15182001, 15182002

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
R2	OI	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**ANALYSIS REPORTS**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results <MQL, were all other raw values bracketed by calibration standards?			X		
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TIC's reported?			X		
R4	O	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**SUMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations <MQL?	X				
R6	OI	**LABORATORY CONTROL SAMPLES (LCS)**					
		1) Were all Chemicals of Concern (COC) included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCS's analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COC's at the MDL used to calculate the SDL's?	X				
		6) Was the LCSD RPD within QC limits?			X		
R7	OI	**MATRIX SPIKE (MS) AND MATRIX DUPLICATE (MSD) DATA**					
		1) Were the project/method-specified analytes included in the MS and MSD?			X		
		2) Were MS/MSD analyzed at the appropriate frequency?			X		
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		4) Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**METHOD QUANTITATION LIMITS (MQLS)**					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	OI	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?		X			1, 2
		2) Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				

[1]Items identified by the letter "R" must be included in the laboratory data package.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Review Checklist: Supporting Data	SDG #: CGI01
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	LLI Sample #(s): 7944097-7944104
LRC Date: 08/11/2015	Batch #(s): 15182001, 15182002

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
S1	OI	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factor (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICV AND CCV)**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the Inorganic CCB<MDL?			X		
S3	O	**MASS SPECTRAL TUNING**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Was ion abundance data within the method-required QC limits?	X				
S4	OI	**INTERNAL STANDARDS (IS)**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**RAW DATA (NELAC Section 5.5.10)**					
		1) Were the raw data (e.g., chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**DUAL COLUMN CONFIRMATION**					
		Did dual column confirmation results meet the method-required QC?	X				
S7	O	**TENTATIVELY IDENTIFIED COMPOUNDS (TICS)**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS**					
		Were percent recoveries within method QC limits?			X		
S9	I	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND MSA**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?			X		
S11	OI	**PROFICIENCY TEST REPORTS**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**STANDARDS DOCUMENTATION**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated where applicable?	X				
S16	OI	**LABORATORY STANDARD OPERATING PROCEDURES (SOPS)**					
		Are laboratory SOPs current and on file for each method performed?	X				

[1]Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

TRRP-13 Laboratory Review Checklist: Exception Reports	SDG #: CGI01
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	ELLE Sample #(s): 7944097-7944104
LRC Date: 08/11/2015	Batch #(s): 15182001, 15182002

ER # [1]	DESCRIPTION
1	R10 1) (Sample number(s): 7944097-7944098, 7944100-7944102: Analysis: 12937) Reporting limits were raised due to interference from the sample matrix.
2	R10 1) Confirmation analysis for 2378-TCDF was performed on samples 7944097, 7944098, 7944100, and 7944101.

[1]ER#=Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC).

Issued by Dept. 4038 Management

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

TRRP-13 Laboratory Data Package Signature Page for Field COC, Sample Identification, and Analysis Reports	SDG # : CGI02
LLI Sample #(s): 7946013-7946016	Project Name: City Of Galveston Incinerator

This section of the data package consists of:

Signature Page (this page)

Laboratory Review Check List (LRC) including:

a) COC/Sample Identification, and

b) Exception Report (for every "No" or "Not Reviewed (NR)" item in laboratory review checklist).

R1 Field Chain-of-Custody Documentation;

R2 Sample Identification Cross-reference;

R3 Analysis Reports for each environmental sample that includes:

a) Items consistent with NELAC 5.13 or ISO/IEC 71025 Section 5.10,

b) Dilution factors,

c) Preparation methods, and

d) If required for the project, tentatively identified compounds (TICs).

Release Statement:

I am responsible for the release of this section of the data package. This section of the laboratory data package has been reviewed and is complete. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies, observed by this laboratory as having the potential to affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

Brandy Barclay
Name (printed)

Senior Administrator
Official Title (printed)

Brandy Barclay
Signature

8-11-15
Date

3681.04

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Data Package Signature Page	SDG #: CGI02
Department or Fraction: Dioxins/Furans HRMS	Project Name: City Of Galveston Incinerator
LLI Sample #(s): 7946013-7946016	Batch #(s): 15182001

This Data Package consists of:

Signature Page (this page)
Quality Control Reference List
Laboratory Review Check List (LRC) including:
a) Reportable Data,
b) Supporting Data, and
c) Exception Report (for every "No" or "Not Reviewed (NR)" item in laboratory review checklist).

R4 Surrogate Summary Forms including:
a) Calculated recovery (%R), and
b) Surrogate QC limits.

R5 Summary Forms for Blank Samples;

R6 Summary Forms for Laboratory Control Samples (LCSs) including:
a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c) LCS QC limits.

R7 Summary Forms for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
a) MS/MSD spiking amounts,
b) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
c) Calculated %Rs and relative percent differences (RPDs), and
d) MS/MSD QC limits

R8 Laboratory Analytical Duplicate (if applicable) Recovery and Precision:
a) The amount of analyte measured in the duplicate,
b) The calculated RPD, and
c) The laboratory's QC limits for analytical duplicates.

R9 List of Method Quantitation Limits (MQLs) and detectability check samples (DCS) results for each analyte for each method and matrix.

R10 Other problems or anomalies

Release Statement:

I am responsible for the release of this section of the laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for the methods, analytes, and matrices reported in this section of the data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory for this section of the data package have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Jessica R. Baron	Jessica Baron	Specialist	08/11/2015
Name (printed)	Signature	Official Title (printed)	Date

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Review Checklist: Reportable Data	SDG #: CGI02
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	LLI Sample #(s): 7946013-7946016
LRC Date: 08/11/2015	Batch #(s): 15182001

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
R2	OI	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**ANALYSIS REPORTS**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results <MQL, were all other raw values bracketed by calibration standards?			X		
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TIC's reported?			X		
R4	O	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**SUMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations <MQL?	X				
R6	OI	**LABORATORY CONTROL SAMPLES (LCS)**					
		1) Were all Chemicals of Concern (COC) included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCS's analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COC's at the MDL used to calculate the SDL's?	X				
		6) Was the LCSD RPD within QC limits?			X		
R7	OI	**MATRIX SPIKE (MS) AND MATRIX DUPLICATE (MSD) DATA**					
		1) Were the project/method-specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**METHOD QUANTITATION LIMITS (MQLS)**					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	OI	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				

[1]Items identified by the letter "R" must be included in the laboratory data package.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Review Checklist: Supporting Data	SDG #: CGI02
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	LLI Sample #(s): 7946013-7946016
LRC Date: 08/11/2015	Batch #(s): 15182001

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
S1	OI	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factor (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICV AND CCV)**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB<MDL?			X		
S3	O	**MASS SPECTRAL TUNING**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Was ion abundance data within the method-required QC limits?	X				
S4	OI	**INTERNAL STANDARDS (IS)**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**RAW DATA (NELAC Section 5.5.10)**					
		1) Were the raw data (e.g., chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**DUAL COLUMN CONFIRMATION**					
		Did dual column confirmation results meet the method-required QC?	X				
S7	O	**TENTATIVELY IDENTIFIED COMPOUNDS (TICS)**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS**					
		Were percent recoveries within method QC limits?			X		
S9	I	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND MSA**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?			X		
S11	OI	**PROFICIENCY TEST REPORTS**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**STANDARDS DOCUMENTATION**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated where applicable?	X				
S16	OI	**LABORATORY STANDARD OPERATING PROCEDURES (SOPS)**					
		Are laboratory SOPs current and on file for each method performed?	X				

[1]Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

TRRP-13 Laboratory Data Package Signature Page for Field COC, Sample Identification, and Analysis Reports	SDG # : CGI03
LLI Sample #(s): 7947194-7947213	Project Name: City Of Galveston Incinerator

This section of the data package consists of:

Signature Page (this page)

Laboratory Review Check List (LRC) including:

a) COC/Sample Identification, and

b) Exception Report (for every "No" or "Not Reviewed (NR)" item in laboratory review checklist).

R1 Field Chain-of-Custody Documentation;

R2 Sample Identification Cross-reference;

R3 Analysis Reports for each environmental sample that includes:

a) Items consistent with NELAC 5.13 or ISO/IEC 71025 Section 5.10,

b) Dilution factors,

c) Preparation methods, and

d) If required for the project, tentatively identified compounds (TICs).

Release Statement:

I am responsible for the release of this section of the data package. This section of the laboratory data package has been reviewed and is complete. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies, observed by this laboratory as having the potential to affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

Brandy Barclay
Name (printed)

Senior Administrator
Official Title (printed)

Brandy Barclay
Signature

8-11-15
Date

3681.04

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Data Package Signature Page	SDG #: CGI03
Department or Fraction: Dioxins/Furans HRMS	Project Name: City Of Galveston Incinerator
LLI Sample #(s): 7947194-7947213	Batch #(s): 15182001, 15182002, 15183004

This Data Package consists of:

Signature Page (this page)
Quality Control Reference List
Laboratory Review Check List (LRC) including:
a) Reportable Data,
b) Supporting Data, and
c) Exception Report (for every "No" or "Not Reviewed (NR)" item in laboratory review checklist).

R4 Surrogate Summary Forms including:
a) Calculated recovery (%R), and
b) Surrogate QC limits.

R5 Summary Forms for Blank Samples;

R6 Summary Forms for Laboratory Control Samples (LCSs) including:
a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c) LCS QC limits.

R7 Summary Forms for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
a) MS/MSD spiking amounts,
b) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
c) Calculated %Rs and relative percent differences (RPDs), and
d) MS/MSD QC limits

R8 Laboratory Analytical Duplicate (if applicable) Recovery and Precision:
a) The amount of analyte measured in the duplicate,
b) The calculated RPD, and
c) The laboratory's QC limits for analytical duplicates.

R9 List of Method Quantitation Limits (MQLs) and detectability check samples (DCS) results for each analyte for each method and matrix.

R10 Other problems or anomalies

Release Statement:

I am responsible for the release of this section of the laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for the methods, analytes, and matrices reported in this section of the data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory for this section of the data package have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Jessica R. Baron	Jessica R Baron	Specialist	08/11/2015
Name (printed)	Signature	Official Title (printed)	Date

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Review Checklist: Reportable Data	SDG #: CGI03
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	LLI Sample #(s): 7947194-7947213
LRC Date: 08/11/2015	Batch #(s): 15182001, 15182002, 15183004

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
R2	OI	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**ANALYSIS REPORTS**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results <MQL, were all other raw values bracketed by calibration standards?			X		
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TIC's reported?			X		
R4	O	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**SUMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations <MQL?	X				
R6	OI	**LABORATORY CONTROL SAMPLES (LCS)**					
		1) Were all Chemicals of Concern (COC) included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCS's analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COC's at the MDL used to calculate the SDL's?	X				
		6) Was the LCSD RPD within QC limits?			X		
R7	OI	**MATRIX SPIKE (MS) AND MATRIX DUPLICATE (MSD) DATA**					
		1) Were the project/method-specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**METHOD QUANTITATION LIMITS (MQLS)**					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	OI	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?		X			1, 2
		2) Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				

[1]Items identified by the letter "R" must be included in the laboratory data package.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Review Checklist: Supporting Data	SDG #: CGI03
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	LLI Sample #(s): 7947194-7947213
LRC Date: 08/11/2015	Batch #(s): 15182001, 15182002, 15183004

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
S1	OI	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factor (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICV AND CCV)**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB<MDL?			X		
S3	O	**MASS SPECTRAL TUNING**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Was ion abundance data within the method-required QC limits?	X				
S4	OI	**INTERNAL STANDARDS (IS)**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**RAW DATA (NELAC Section 5.5.10)**					
		1) Were the raw data (e.g., chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**DUAL COLUMN CONFIRMATION**					
		Did dual column confirmation results meet the method-required QC?	X				
S7	O	**TENTATIVELY IDENTIFIED COMPOUNDS (TICS)**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS**					
		Were percent recoveries within method QC limits?			X		
S9	I	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND MSA**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?			X		
S11	OI	**PROFICIENCY TEST REPORTS**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**STANDARDS DOCUMENTATION**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated where applicable?	X				
S16	OI	**LABORATORY STANDARD OPERATING PROCEDURES (SOPS)**					
		Are laboratory SOPs current and on file for each method performed?	X				

[1]Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

TRRP-13 Laboratory Review Checklist: Exception Reports	SDG #: CGI03
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	ELLE Sample #(s): 7947194-7947213
LRC Date: 08/11/2015	Batch #(s): 15182001, 15182002, 15183004

ER # [1]	DESCRIPTION
1	R10 1) (Sample number(s): 7947195-7947212: Analysis: 12937) Reporting limits were raised due to interference from the sample matrix.
2	R10 1) Confirmation analysis for 2378-TCDF was performed on samples 7947196, 7947200, 7947210-7947212.

[1]ER#=Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC).

Issued by Dept. 4038 Management

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

TRRP-13 Laboratory Data Package Signature Page for Field COC, Sample Identification, and Analysis Reports	SDG # : CGI04
LLI Sample #(s): 7948391-7948392	Project Name: City Of Galveston Incinerator

This section of the data package consists of:

Signature Page (this page)

Laboratory Review Check List (LRC) including:

a) COC/Sample Identification, and

b) Exception Report (for every "No" or "Not Reviewed (NR)" item in laboratory review checklist).

R1 Field Chain-of-Custody Documentation;

R2 Sample Identification Cross-reference;

R3 Analysis Reports for each environmental sample that includes:

a) Items consistent with NELAC 5.13 or ISO/IEC 71025 Section 5.10,

b) Dilution factors,

c) Preparation methods, and

d) If required for the project, tentatively identified compounds (TICs).

Release Statement:

I am responsible for the release of this section of the data package. This section of the laboratory data package has been reviewed and is complete. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies, observed by this laboratory as having the potential to affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

Brandy Barclay
Name (printed)

Senior Administrator
Official Title (printed)

Brandy Barclay
Signature

8·11·15
Date

3681.04

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Data Package Signature Page	SDG #: CGI04
Department or Fraction: Dioxins/Furans HRMS	Project Name: City Of Galveston Incinerator
LLI Sample #(s): 7948391-7948392	Batch #(s): 15183004

This Data Package consists of:

Signature Page (this page)
Quality Control Reference List
Laboratory Review Check List (LRC) including:
a) Reportable Data,
b) Supporting Data, and
c) Exception Report (for every "No" or "Not Reviewed (NR)" item in laboratory review checklist).

R4 Surrogate Summary Forms including:
a) Calculated recovery (%R), and
b) Surrogate QC limits.

R5 Summary Forms for Blank Samples;

R6 Summary Forms for Laboratory Control Samples (LCSs) including:
a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c) LCS QC limits.

R7 Summary Forms for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
a) MS/MSD spiking amounts,
b) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
c) Calculated %Rs and relative percent differences (RPDs), and
d) MS/MSD QC limits

R8 Laboratory Analytical Duplicate (if applicable) Recovery and Precision:
a) The amount of analyte measured in the duplicate,
b) The calculated RPD, and
c) The laboratory's QC limits for analytical duplicates.

R9 List of Method Quantitation Limits (MQLs) and detectability check samples (DCS) results for each analyte for each method and matrix.

R10 Other problems or anomalies

Release Statement:

I am responsible for the release of this section of the laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for the methods, analytes, and matrices reported in this section of the data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory for this section of the data package have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Jessica R. Baron	Jessica R Baron	Specialist	08/11/2015
Name (printed)	Signature	Official Title (printed)	Date

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Review Checklist: Reportable Data	SDG #: CGI04
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	LLI Sample #(s): 7948391-7948392
LRC Date: 08/11/2015	Batch #(s): 15183004

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
R2	OI	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**ANALYSIS REPORTS**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results <MQL, were all other raw values bracketed by calibration standards?			X		
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TIC's reported?			X		
R4	O	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**SUMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations <MQL?	X				
R6	OI	**LABORATORY CONTROL SAMPLES (LCS)**					
		1) Were all Chemicals of Concern (COC) included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCS's analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COC's at the MDL used to calculate the SDL's?	X				
		6) Was the LCSD RPD within QC limits?			X		
R7	OI	**MATRIX SPIKE (MS) AND MATRIX DUPLICATE (MSD) DATA**					
		1) Were the project/method-specified analytes included in the MS and MSD?			X		
		2) Were MS/MSD analyzed at the appropriate frequency?			X		
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		4) Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**METHOD QUANTITATION LIMITS (MQLS)**					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	OI	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?		X			1, 2
		2) Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				

[1]Items identified by the letter "R" must be included in the laboratory data package.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Review Checklist: Supporting Data	SDG #: CGI04
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	LLI Sample #(s): 7948391-7948392
LRC Date: 08/11/2015	Batch #(s): 15183004

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
S1	OI	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factor (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICV AND CCV)**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB<MDL?			X		
S3	O	**MASS SPECTRAL TUNING**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Was ion abundance data within the method-required QC limits?	X				
S4	OI	**INTERNAL STANDARDS (IS)**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**RAW DATA (NELAC Section 5.5.10)**					
		1) Were the raw data (e.g., chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**DUAL COLUMN CONFIRMATION**					
		Did dual column confirmation results meet the method-required QC?	X				
S7	O	**TENTATIVELY IDENTIFIED COMPOUNDS (TICS)**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS**					
		Were percent recoveries within method QC limits?			X		
S9	I	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND MSA**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?			X		
S11	OI	**PROFICIENCY TEST REPORTS**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**STANDARDS DOCUMENTATION**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated where applicable?	X				
S16	OI	**LABORATORY STANDARD OPERATING PROCEDURES (SOPS)**					
		Are laboratory SOPs current and on file for each method performed?	X				

[1]Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

TRRP-13 Laboratory Review Checklist: Exception Reports	SDG #: CGI04
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	ELLE Sample #(s): 7948391-7948392
LRC Date: 08/11/2015	Batch #(s): 15183004

ER # [1]	DESCRIPTION
1	R10 1) (Sample number(s): 7948391-7948392: Analysis: 12937) Reporting limits were raised due to interference from the sample matrix.
2	R10 1) Confirmation analysis for 2378-TCDF was performed on samples 7948391-7948392.

[1]ER#=Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC).

Issued by Dept. 4038 Management

DHL Analytical, Inc.
Laboratory Review Checklist: Reportable Data

Project Name: City of Galveston Incinerator	**Date:** 7/10/15
Reviewer Name: Carlos Castro	**Laboratory Work Order:** 1506293
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				**R1-01**
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?		X			**R5-04**
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			**R6-04**
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			**R7-03**
		4) Were MS/MSD RPDs within laboratory QC limits?		X			**R7-04**
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				**R10-01**
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.
Laboratory Review Checklist (continued): Supporting Data

Project Name: City of Galveston Incinerator | **Date:** 7/10/15

Reviewer Name: Carlos Castro | **Laboratory Work Order:** 1506293

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?		X			**S4-01**
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			**S9-01**
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with NELAC Chapter 5,
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs).
R4 Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits.
R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits.
R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits
R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-6, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager

Scott Schroeder – Technical Director

Signature

7/10/15
Date

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7471B - Mercury Analysis
Method SW8270D-LL - PAH Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 6/25/15. A total of 22 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R5-04

For Metals analysis performed on 7/7/15 Lead was detected below the reporting limit in the method blank (MB-70261). All associated samples were detected greater than 10 times the amount in the blank for this analyte. No further corrective actions were taken.

Exception Report R6-04

For PAH analysis performed on 7/7/15 (batch 70328) the LCS was slightly above control limits for seven compounds. These are flagged accordingly in the QC summary report. This was approved by the client. No further corrective actions were taken.

Exception Report R7-03 & R7-04

For PAH analysis performed on 7/7/15 and 7/8/18 (batches 70328 & 70332) the matrix spikes and matrix spike duplicate recoveries were out of control limits for sixteen compounds. In addition, the matrix spike and matrix spike duplicate (batch 70328) had the RPD above control limits for a total of twelve compounds. This was due to the non-homogeneity of the matrix spike and matrix spike duplicate. The matrix spike duplicate extract was noticeably darker than the matrix spike. These are flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate (batch 70328) was from this work order. The sample selected for the matrix spike and matrix spike duplicate (batch 70332) was not from this work order. No further corrective actions were taken.

For Metals analysis performed on 7/1/15 and 7/7/15 (batches 70255 & 70261) the matrix spikes and matrix spike duplicate recoveries were out of control limits for a total of three analytes. In addition, the matrix spike and matrix spike duplicate (batch 70255) had the RPD above control limits for Barium.

These are flagged accordingly. The sample selected for the matrix spike and matrix spike duplicate (batch 70255) was from this work order. The sample selected for the matrix spike and matrix spike duplicate (batch 70261) was not from this work order. The LCSs were within control limits for these analytes. No further corrective actions were taken.

For Mercury analysis performed on 6/29/15 (batch 70215) the matrix spike recovery was above control limits. This is flagged accordingly. The sample selected for the matrix spike and matrix spike duplicate (batch 70215) was from this work order. The LCS was within control limits. No further corrective actions were taken.

Exception Report R10-01

For Metals analysis (batch 70261) the matrix spike and matrix spike duplicate (1506310-01 MS/MSD) were analyzed at a 50x dilution. This was approved by the client.

For PAH analysis all samples were diluted prior to analysis due to the nature of the samples except for sample INC-SB19-020 (color).

For Metals analysis eleven samples were diluted prior to analysis due to the nature of the samples (concentration of target analytes).

Exception Report S4-01

For PAH analysis sample INC-SB11-011 had the low response for the internal standard Perylene-d12. This was due to the sample extract matrix and color. All associated compounds are being reported from the 50x dilution.

Exception Report S4-01

For Metals analysis performed on 7/1/15 (batch 70255) the PDS recovery was above control limits for Lead. This is flagged accordingly in the QC summary report. The serial dilution was within control limits for this analyte. No further corrective actions were taken.

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT: AECOM
Project: City of Galveston Incinerator
Lab Order: 1506293

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1506293-01	INC-SB19-020		06/23/15 10:10 AM	6/25/2015
1506293-02	INC-SB19-010		06/23/15 09:50 AM	6/25/2015
1506293-03	INC-SB18-010		06/23/15 10:45 AM	6/25/2015
1506293-04	INC-SB20-010		06/23/15 11:35 AM	6/25/2015
1506293-05	INC-SB18-023		06/23/15 10:50 AM	6/25/2015
1506293-06	INC-SB20-011		06/23/15 11:35 AM	6/25/2015
1506293-07	INC-SB20-020		06/23/15 11:45 AM	6/25/2015
1506293-08	INC-SB22-010		06/23/15 12:00 PM	6/25/2015
1506293-09	INC-SB22-020		06/23/15 12:10 PM	6/25/2015
1506293-10	INC-SB11-010		06/23/15 01:00 PM	6/25/2015
1506293-11	INC-SB11-011		06/23/15 01:00 PM	6/25/2015
1506293-12	INC-SB11-020		06/23/15 01:10 PM	6/25/2015
1506293-13	INC-SB12-010		06/23/15 01:25 PM	6/25/2015
1506293-14	INC-SB12-020		06/23/15 01:35 PM	6/25/2015
1506293-15	INC-SB27-010		06/23/15 02:05 PM	6/25/2015
1506293-16	INC-SB27-020		06/23/15 03:00 PM	6/25/2015
1506293-17	INC-SB16-010		06/23/15 03:15 PM	6/25/2015
1506293-18	INC-SB16-020		06/23/15 03:25 PM	6/25/2015
1506293-19	INC-SB17-010		06/23/15 03:35 PM	6/25/2015
1506293-20	INC-SB17-020		06/23/15 03:45 PM	6/25/2015
1506293-21	INC-SB13-010		06/23/15 04:05 PM	6/25/2015
1506293-22	INC-SB13-020		06/23/15 04:15 PM	6/25/2015

Lab Order: 1506293
Client: AECOM
Project: City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506293-01A	INC-SB19-020	06/23/15 10:10 AM	Soil	SW7471A	Mercury Soil Prep, Total	06/25/15 02:08 PM	70215
	INC-SB19-020	06/23/15 10:10 AM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70247
	INC-SB19-020	06/23/15 10:10 AM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB19-020	06/23/15 10:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	06/29/15 01:46 PM	70255
	INC-SB19-020	06/23/15 10:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	06/29/15 01:46 PM	70255
1506293-02A	INC-SB19-010	06/23/15 09:50 AM	Soil	SW7471A	Mercury Soil Prep, Total	06/25/15 02:08 PM	70215
	INC-SB19-010	06/23/15 09:50 AM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70247
	INC-SB19-010	06/23/15 09:50 AM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB19-010	06/23/15 09:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	06/29/15 01:46 PM	70255
	INC-SB19-010	06/23/15 09:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	06/29/15 01:46 PM	70255
1506293-03A	INC-SB18-010	06/23/15 10:45 AM	Soil	SW7471A	Mercury Soil Prep, Total	06/25/15 02:08 PM	70215
	INC-SB18-010	06/23/15 10:45 AM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70247
	INC-SB18-010	06/23/15 10:45 AM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB18-010	06/23/15 10:45 AM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB18-010	06/23/15 10:45 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	06/29/15 01:46 PM	70255
1506293-04A	INC-SB20-010	06/23/15 11:35 AM	Soil	SW7471A	Mercury Soil Prep, Total	06/25/15 02:08 PM	70215
	INC-SB20-010	06/23/15 11:35 AM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70247
	INC-SB20-010	06/23/15 11:35 AM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB20-010	06/23/15 11:35 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	06/29/15 01:46 PM	70255
1506293-05A	INC-SB18-023	06/23/15 10:50 AM	Soil	SW7471A	Mercury Soil Prep, Total	06/25/15 02:08 PM	70215
	INC-SB18-023	06/23/15 10:50 AM	Soil	SW7471A	Mercury Soil Prep, Total	06/25/15 02:08 PM	70215
	INC-SB18-023	06/23/15 10:50 AM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70303
	INC-SB18-023	06/23/15 10:50 AM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB18-023	06/23/15 10:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	06/29/15 01:46 PM	70255
	INC-SB18-023	06/23/15 10:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	06/29/15 01:46 PM	70255
1506293-06A	INC-SB20-011	06/23/15 11:35 AM	Soil	SW7471A	Mercury Soil Prep, Total	06/25/15 02:08 PM	70215
	INC-SB20-011	06/23/15 11:35 AM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70248
	INC-SB20-011	06/23/15 11:35 AM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328

Lab Order: 1506293
Client: AECOM
Project: City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506293-06A	INC-SB20-011	06/23/15 11:35 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	06/29/15 01:46 PM	70255
1506293-07A	INC-SB20-020	06/23/15 11:45 AM	Soil	SW7471A	Mercury Soil Prep, Total	06/25/15 02:08 PM	70215
	INC-SB20-020	06/23/15 11:45 AM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70248
	INC-SB20-020	06/23/15 11:45 AM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB20-020	06/23/15 11:45 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	06/29/15 01:46 PM	70255
1506293-08A	INC-SB22-010	06/23/15 12:00 PM	Soil	SW7471A	Mercury Soil Prep, Total	06/25/15 02:08 PM	70215
	INC-SB22-010	06/23/15 12:00 PM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70248
	INC-SB22-010	06/23/15 12:00 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB22-010	06/23/15 12:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	06/29/15 01:46 PM	70255
1506293-09A	INC-SB22-020	06/23/15 12:10 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 09:14 AM	70317
	INC-SB22-020	06/23/15 12:10 PM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70248
	INC-SB22-020	06/23/15 12:10 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB22-020	06/23/15 12:10 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	06/29/15 01:46 PM	70255
1506293-10A	INC-SB11-010	06/23/15 01:00 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 09:14 AM	70317
	INC-SB11-010	06/23/15 01:00 PM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70248
	INC-SB11-010	06/23/15 01:00 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB11-010	06/23/15 01:00 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB11-010	06/23/15 01:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	06/29/15 01:46 PM	70255
	INC-SB11-010	06/23/15 01:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	06/29/15 01:46 PM	70255
1506293-11A	INC-SB11-011	06/23/15 01:00 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 09:14 AM	70317
	INC-SB11-011	06/23/15 01:00 PM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70248
	INC-SB11-011	06/23/15 01:00 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB11-011	06/23/15 01:00 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB11-011	06/23/15 01:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	06/29/15 01:46 PM	70255
	INC-SB11-011	06/23/15 01:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	06/29/15 01:46 PM	70255
1506293-12A	INC-SB11-020	06/23/15 01:10 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 09:14 AM	70317
	INC-SB11-020	06/23/15 01:10 PM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70248
	INC-SB11-020	06/23/15 01:10 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328

Lab Order: 1506293
Client: AECOM
Project: City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506293-12A	INC-SB11-020	06/23/15 01:10 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261
1506293-13A	INC-SB12-010	06/23/15 01:25 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 09:14 AM	70317
	INC-SB12-010	06/23/15 01:25 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 09:14 AM	70317
	INC-SB12-010	06/23/15 01:25 PM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70248
	INC-SB12-010	06/23/15 01:25 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB12-010	06/23/15 01:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261
1506293-14A	INC-SB12-020	06/23/15 01:35 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 09:14 AM	70317
	INC-SB12-020	06/23/15 01:35 PM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70248
	INC-SB12-020	06/23/15 01:35 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB12-020	06/23/15 01:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261
	INC-SB12-020	06/23/15 01:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261
1506293-15A	INC-SB27-010	06/23/15 02:05 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 09:14 AM	70317
	INC-SB27-010	06/23/15 02:05 PM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70248
	INC-SB27-010	06/23/15 02:05 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB27-010	06/23/15 02:05 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261
1506293-16A	INC-SB27-020	06/23/15 03:00 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 09:14 AM	70317
	INC-SB27-020	06/23/15 03:00 PM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70248
	INC-SB27-020	06/23/15 03:00 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB27-020	06/23/15 03:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261
1506293-17A	INC-SB16-010	06/23/15 03:15 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 09:14 AM	70317
	INC-SB16-010	06/23/15 03:15 PM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70248
	INC-SB16-010	06/23/15 03:15 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB16-010	06/23/15 03:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261
1506293-18A	INC-SB16-020	06/23/15 03:25 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 09:14 AM	70317
	INC-SB16-020	06/23/15 03:25 PM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70248
	INC-SB16-020	06/23/15 03:25 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB16-020	06/23/15 03:25 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB16-020	06/23/15 03:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261

Lab Order: 1506293
Client: AECOM
Project: City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506293-19A	INC-SB17-010	06/23/15 03:35 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 09:14 AM	70317
	INC-SB17-010	06/23/15 03:35 PM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70248
	INC-SB17-010	06/23/15 03:35 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB17-010	06/23/15 03:35 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB17-010	06/23/15 03:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261
1506293-20A	INC-SB17-020	06/23/15 03:45 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 09:14 AM	70317
	INC-SB17-020	06/23/15 03:45 PM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70248
	INC-SB17-020	06/23/15 03:45 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 09:30 AM	70328
	INC-SB17-020	06/23/15 03:45 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261
1506293-21A	INC-SB13-010	06/23/15 04:05 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 09:14 AM	70317
	INC-SB13-010	06/23/15 04:05 PM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70248
	INC-SB13-010	06/23/15 04:05 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 11:06 AM	70332
	INC-SB13-010	06/23/15 04:05 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261
1506293-22A	INC-SB13-020	06/23/15 04:15 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 09:14 AM	70317
	INC-SB13-020	06/23/15 04:15 PM	Soil	D2216	Moisture Preparation	06/29/15 08:49 AM	70248
	INC-SB13-020	06/23/15 04:15 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 11:06 AM	70332
	INC-SB13-020	06/23/15 04:15 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 11:06 AM	70332
	INC-SB13-020	06/23/15 04:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261

Lab Order: 1506293
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506293-01A	INC-SB19-020	Soil	SW8270D-LL	PAHs: GC/MS	70328	1	07/07/15 07:45 PM	GCMS6_150707A
	INC-SB19-020	Soil	D2216	Percent Moisture	70247	1	06/30/15 09:06 AM	PMOIST_150629C
	INC-SB19-020	Soil	SW7471B	Total Mercury: Soil/Solid	70215	1	06/29/15 03:59 PM	CETAC2_HG_150629B
	INC-SB19-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70255	5	07/01/15 03:39 PM	ICP-MS4_150701B
	INC-SB19-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70255	50	07/02/15 12:04 PM	ICP-MS4_150702B
1506293-02A	INC-SB19-010	Soil	SW8270D-LL	PAHs: GC/MS	70328	10	07/08/15 02:31 AM	GCMS6_150707A
	INC-SB19-010	Soil	D2216	Percent Moisture	70247	1	06/30/15 09:06 AM	PMOIST_150629C
	INC-SB19-010	Soil	SW7471B	Total Mercury: Soil/Solid	70215	1	06/29/15 04:01 PM	CETAC2_HG_150629B
	INC-SB19-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70255	5	07/01/15 03:41 PM	ICP-MS4_150701B
	INC-SB19-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70255	50	07/02/15 12:06 PM	ICP-MS4_150702B
1506293-03A	INC-SB18-010	Soil	SW8270D-LL	PAHs: GC/MS	70328	10	07/08/15 12:04 PM	GCMS6_150708A
	INC-SB18-010	Soil	SW8270D-LL	PAHs: GC/MS	70328	10	07/08/15 03:11 AM	GCMS6_150707A
	INC-SB18-010	Soil	D2216	Percent Moisture	70247	1	06/30/15 09:06 AM	PMOIST_150629C
	INC-SB18-010	Soil	SW7471B	Total Mercury: Soil/Solid	70215	1	06/29/15 04:04 PM	CETAC2_HG_150629B
	INC-SB18-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70255	5	07/01/15 03:43 PM	ICP-MS4_150701B
1506293-04A	INC-SB20-010	Soil	SW8270D-LL	PAHs: GC/MS	70328	2	07/07/15 09:47 PM	GCMS6_150707A
	INC-SB20-010	Soil	D2216	Percent Moisture	70247	1	06/30/15 09:06 AM	PMOIST_150629C
	INC-SB20-010	Soil	SW7471B	Total Mercury: Soil/Solid	70215	1	06/29/15 04:06 PM	CETAC2_HG_150629B
	INC-SB20-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70255	5	07/01/15 03:45 PM	ICP-MS4_150701B
1506293-05A	INC-SB18-023	Soil	SW8270D-LL	PAHs: GC/MS	70328	5	07/07/15 05:03 PM	GCMS6_150707A
	INC-SB18-023	Soil	D2216	Percent Moisture	70303	1	07/02/15 08:57 AM	PMOIST_150701A
	INC-SB18-023	Soil	SW7471B	Total Mercury: Soil/Solid	70215	1	06/29/15 03:06 PM	CETAC2_HG_150629B
	INC-SB18-023	Soil	SW7471B	Total Mercury: Soil/Solid	70215	5	06/29/15 03:16 PM	CETAC2_HG_150629B
	INC-SB18-023	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70255	500	07/02/15 12:00 PM	ICP-MS4_150702B
	INC-SB18-023	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70255	5	07/01/15 03:36 PM	ICP-MS4_150701B

Lab Order: 1506293
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506293-06A	INC-SB20-011	Soil	SW8270D-LL	PAHs: GC/MS	70328	2	07/07/15 09:06 PM	GCMS6_150707A
	INC-SB20-011	Soil	D2216	Percent Moisture	70248	1	06/30/15 09:06 AM	PMOIST_150629D
	INC-SB20-011	Soil	SW7471B	Total Mercury: Soil/Solid	70215	1	06/29/15 04:08 PM	CETAC2_HG_150629B
	INC-SB20-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70255	5	07/01/15 03:47 PM	ICP-MS4_150701B
1506293-07A	INC-SB20-020	Soil	SW8270D-LL	PAHs: GC/MS	70328	5	07/08/15 12:30 AM	GCMS6_150707A
	INC-SB20-020	Soil	D2216	Percent Moisture	70248	1	06/30/15 09:06 AM	PMOIST_150629D
	INC-SB20-020	Soil	SW7471B	Total Mercury: Soil/Solid	70215	1	06/29/15 04:10 PM	CETAC2_HG_150629B
	INC-SB20-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70255	5	07/01/15 03:49 PM	ICP-MS4_150701B
1506293-08A	INC-SB22-010	Soil	SW8270D-LL	PAHs: GC/MS	70328	20	07/08/15 12:45 PM	GCMS6_150708A
	INC-SB22-010	Soil	D2216	Percent Moisture	70248	1	06/30/15 09:06 AM	PMOIST_150629D
	INC-SB22-010	Soil	SW7471B	Total Mercury: Soil/Solid	70215	1	06/29/15 04:13 PM	CETAC2_HG_150629B
	INC-SB22-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70255	5	07/01/15 03:51 PM	ICP-MS4_150701B
1506293-09A	INC-SB22-020	Soil	SW8270D-LL	PAHs: GC/MS	70328	2	07/07/15 11:49 PM	GCMS6_150707A
	INC-SB22-020	Soil	D2216	Percent Moisture	70248	1	06/30/15 09:06 AM	PMOIST_150629D
	INC-SB22-020	Soil	SW7471B	Total Mercury: Soil/Solid	70317	1	07/07/15 09:58 AM	CETAC2_HG_150707A
	INC-SB22-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70255	5	07/01/15 03:53 PM	ICP-MS4_150701B
1506293-10A	INC-SB11-010	Soil	SW8270D-LL	PAHs: GC/MS	70328	50	07/08/15 04:07 PM	GCMS6_150708A
	INC-SB11-010	Soil	SW8270D-LL	PAHs: GC/MS	70328	10	07/08/15 05:28 PM	GCMS6_150708A
	INC-SB11-010	Soil	D2216	Percent Moisture	70248	1	06/30/15 09:06 AM	PMOIST_150629D
	INC-SB11-010	Soil	SW7471B	Total Mercury: Soil/Solid	70317	1	07/07/15 10:01 AM	CETAC2_HG_150707A
	INC-SB11-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70255	5	07/01/15 03:55 PM	ICP-MS4_150701B
	INC-SB11-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70255	50	07/02/15 12:08 PM	ICP-MS4_150702B
1506293-11A	INC-SB11-011	Soil	SW8270D-LL	PAHs: GC/MS	70328	50	07/08/15 04:48 PM	GCMS6_150708A
	INC-SB11-011	Soil	SW8270D-LL	PAHs: GC/MS	70328	10	07/08/15 06:09 PM	GCMS6_150708A
	INC-SB11-011	Soil	D2216	Percent Moisture	70248	1	06/30/15 09:06 AM	PMOIST_150629D

Lab Order: 1506293
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506293-11A	INC-SB11-011	Soil	SW7471B	Total Mercury: Soil/Solid	70317	1	07/07/15 10:03 AM	CETAC2_HG_150707A
	INC-SB11-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70255	50	07/02/15 12:10 PM	ICP-MS4_150702B
	INC-SB11-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70255	5	07/01/15 04:32 PM	ICP-MS4_150701B
1506293-12A	INC-SB11-020	Soil	SW8270D-LL	PAHs: GC/MS	70328	2	07/07/15 08:26 PM	GCMS6_150707A
	INC-SB11-020	Soil	D2216	Percent Moisture	70248	1	06/30/15 09:06 AM	PMOIST_150629D
	INC-SB11-020	Soil	SW7471B	Total Mercury: Soil/Solid	70317	1	07/07/15 10:05 AM	CETAC2_HG_150707A
	INC-SB11-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	50	07/07/15 06:12 PM	ICP-MS4_150707D
1506293-13A	INC-SB12-010	Soil	SW8270D-LL	PAHs: GC/MS	70328	2	07/07/15 10:27 PM	GCMS6_150707A
	INC-SB12-010	Soil	D2216	Percent Moisture	70248	1	06/30/15 09:06 AM	PMOIST_150629D
	INC-SB12-010	Soil	SW7471B	Total Mercury: Soil/Solid	70317	1	07/07/15 10:07 AM	CETAC2_HG_150707A
	INC-SB12-010	Soil	SW7471B	Total Mercury: Soil/Solid	70317	5	07/07/15 12:12 PM	CETAC2_HG_150707A
	INC-SB12-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	50	07/07/15 06:14 PM	ICP-MS4_150707D
1506293-14A	INC-SB12-020	Soil	SW8270D-LL	PAHs: GC/MS	70328	2	07/07/15 11:08 PM	GCMS6_150707A
	INC-SB12-020	Soil	D2216	Percent Moisture	70248	1	06/30/15 09:06 AM	PMOIST_150629D
	INC-SB12-020	Soil	SW7471B	Total Mercury: Soil/Solid	70317	1	07/07/15 10:10 AM	CETAC2_HG_150707A
	INC-SB12-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	50	07/07/15 06:16 PM	ICP-MS4_150707D
	INC-SB12-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	500	07/08/15 11:38 AM	ICP-MS4_150708B
1506293-15A	INC-SB27-010	Soil	SW8270D-LL	PAHs: GC/MS	70328	5	07/08/15 01:10 AM	GCMS6_150707A
	INC-SB27-010	Soil	D2216	Percent Moisture	70248	1	06/30/15 09:06 AM	PMOIST_150629D
	INC-SB27-010	Soil	SW7471B	Total Mercury: Soil/Solid	70317	1	07/07/15 10:12 AM	CETAC2_HG_150707A
	INC-SB27-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	50	07/07/15 06:18 PM	ICP-MS4_150707D
1506293-16A	INC-SB27-020	Soil	SW8270D-LL	PAHs: GC/MS	70328	5	07/08/15 01:51 AM	GCMS6_150707A
	INC-SB27-020	Soil	D2216	Percent Moisture	70248	1	06/30/15 09:06 AM	PMOIST_150629D
	INC-SB27-020	Soil	SW7471B	Total Mercury: Soil/Solid	70317	1	07/07/15 10:14 AM	CETAC2_HG_150707A
	INC-SB27-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	50	07/07/15 06:20 PM	ICP-MS4_150707D

Lab Order: 1506293
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506293-17A	INC-SB16-010	Soil	SW8270D-LL	PAHs: GC/MS	70328	20	07/08/15 01:25 PM	GCMS6_150708A
	INC-SB16-010	Soil	D2216	Percent Moisture	70248	1	06/30/15 09:06 AM	PMOIST_150629D
	INC-SB16-010	Soil	SW7471B	Total Mercury: Soil/Solid	70317	1	07/07/15 10:16 AM	CETAC2_HG_150707A
	INC-SB16-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	50	07/07/15 06:22 PM	ICP-MS4_150707D
1506293-18A	INC-SB16-020	Soil	SW8270D-LL	PAHs: GC/MS	70328	20	07/08/15 02:06 PM	GCMS6_150708A
	INC-SB16-020	Soil	SW8270D-LL	PAHs: GC/MS	70328	5	07/08/15 06:49 PM	GCMS6_150708A
	INC-SB16-020	Soil	D2216	Percent Moisture	70248	1	06/30/15 09:06 AM	PMOIST_150629D
	INC-SB16-020	Soil	SW7471B	Total Mercury: Soil/Solid	70317	1	07/07/15 10:23 AM	CETAC2_HG_150707A
	INC-SB16-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	50	07/07/15 06:24 PM	ICP-MS4_150707D
1506293-19A	INC-SB17-010	Soil	SW8270D-LL	PAHs: GC/MS	70328	20	07/08/15 02:46 PM	GCMS6_150708A
	INC-SB17-010	Soil	SW8270D-LL	PAHs: GC/MS	70328	5	07/08/15 07:30 PM	GCMS6_150708A
	INC-SB17-010	Soil	D2216	Percent Moisture	70248	1	06/30/15 09:06 AM	PMOIST_150629D
	INC-SB17-010	Soil	SW7471B	Total Mercury: Soil/Solid	70317	1	07/07/15 10:26 AM	CETAC2_HG_150707A
	INC-SB17-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	50	07/07/15 06:26 PM	ICP-MS4_150707D
1506293-20A	INC-SB17-020	Soil	SW8270D-LL	PAHs: GC/MS	70328	20	07/08/15 03:27 PM	GCMS6_150708A
	INC-SB17-020	Soil	D2216	Percent Moisture	70248	1	06/30/15 09:06 AM	PMOIST_150629D
	INC-SB17-020	Soil	SW7471B	Total Mercury: Soil/Solid	70317	1	07/07/15 10:28 AM	CETAC2_HG_150707A
	INC-SB17-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	50	07/07/15 06:55 PM	ICP-MS4_150707D
1506293-21A	INC-SB13-010	Soil	SW8270D-LL	PAHs: GC/MS	70332	10	07/08/15 02:17 PM	GCMS4_150708A
	INC-SB13-010	Soil	D2216	Percent Moisture	70248	1	06/30/15 09:06 AM	PMOIST_150629D
	INC-SB13-010	Soil	SW7471B	Total Mercury: Soil/Solid	70317	1	07/07/15 10:30 AM	CETAC2_HG_150707A
	INC-SB13-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	50	07/07/15 06:57 PM	ICP-MS4_150707D
1506293-22A	INC-SB13-020	Soil	SW8270D-LL	PAHs: GC/MS	70332	10	07/08/15 02:48 PM	GCMS4_150708A
	INC-SB13-020	Soil	SW8270D-LL	PAHs: GC/MS	70332	2	07/08/15 06:55 PM	GCMS4_150708A
	INC-SB13-020	Soil	D2216	Percent Moisture	70248	1	06/30/15 09:06 AM	PMOIST_150629D

Lab Order: 1506293
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506293-22A	INC-SB13-020	Soil	SW7471B	Total Mercury: Soil/Solid	70317	1	07/07/15 10:32 AM	CETAC2_HG_150707A
	INC-SB13-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	50	07/07/15 06:59 PM	ICP-MS4_150707D

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB19-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-01
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 10:10 AM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.447	0.0204	0.0510		mg/Kg-dry	1	06/29/15 03:59 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	18.2	0.641	1.28		mg/Kg-dry	5	07/01/15 03:39 PM
Barium	289	0.641	2.56		mg/Kg-dry	5	07/01/15 03:39 PM
Cadmium	2.83	0.128	0.384		mg/Kg-dry	5	07/01/15 03:39 PM
Chromium	29.0	0.641	2.56		mg/Kg-dry	5	07/01/15 03:39 PM
Lead	987	1.28	3.84		mg/Kg-dry	50	07/02/15 12:04 PM
Selenium	0.455	0.192	0.641	J	mg/Kg-dry	5	07/01/15 03:39 PM
Silver	1.23	0.128	0.256		mg/Kg-dry	5	07/01/15 03:39 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.00812	0.00702	0.0140	J	mg/Kg-dry	1	07/07/15 07:45 PM
Acenaphthylene	0.00722	0.00702	0.0140	J	mg/Kg-dry	1	07/07/15 07:45 PM
Anthracene	0.0162	0.00702	0.0140		mg/Kg-dry	1	07/07/15 07:45 PM
Benzo[a]anthracene	0.105	0.00702	0.0140		mg/Kg-dry	1	07/07/15 07:45 PM
Benzo[a]pyrene	0.101	0.00702	0.0140		mg/Kg-dry	1	07/07/15 07:45 PM
Benzo[b]fluoranthene	0.114	0.00702	0.0140		mg/Kg-dry	1	07/07/15 07:45 PM
Benzo[g,h,i]perylene	0.0795	0.00702	0.0140		mg/Kg-dry	1	07/07/15 07:45 PM
Benzo[k]fluoranthene	0.0516	0.00702	0.0140		mg/Kg-dry	1	07/07/15 07:45 PM
Chrysene	0.124	0.00702	0.0140		mg/Kg-dry	1	07/07/15 07:45 PM
Dibenz[a,h]anthracene	0.0198	0.00702	0.0140		mg/Kg-dry	1	07/07/15 07:45 PM
Fluoranthene	0.184	0.00702	0.0140		mg/Kg-dry	1	07/07/15 07:45 PM
Fluorene	0.0138	0.00702	0.0140	J	mg/Kg-dry	1	07/07/15 07:45 PM
Indeno[1,2,3-cd]pyrene	0.0666	0.00702	0.0140		mg/Kg-dry	1	07/07/15 07:45 PM
Naphthalene	0.0108	0.00702	0.0140	J	mg/Kg-dry	1	07/07/15 07:45 PM
Phenanthrene	0.0891	0.00702	0.0140		mg/Kg-dry	1	07/07/15 07:45 PM
Pyrene	0.150	0.00702	0.0140		mg/Kg-dry	1	07/07/15 07:45 PM
Surr: 2-Fluorobiphenyl	76.6	0	43-125		%REC	1	07/07/15 07:45 PM
Surr: 4-Terphenyl-d14	80.9	0	32-125		%REC	1	07/07/15 07:45 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	29.0	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB19-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-02
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 09:50 AM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.208	0.0167	0.0418		mg/Kg-dry	1	06/29/15 04:01 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	17.2	0.540	1.08		mg/Kg-dry	5	07/01/15 03:41 PM
Barium	385	0.540	2.16		mg/Kg-dry	5	07/01/15 03:41 PM
Cadmium	3.32	0.108	0.324		mg/Kg-dry	5	07/01/15 03:41 PM
Chromium	43.3	0.540	2.16		mg/Kg-dry	5	07/01/15 03:41 PM
Lead	686	1.08	3.24		mg/Kg-dry	50	07/02/15 12:06 PM
Selenium	0.331	0.162	0.540	J	mg/Kg-dry	5	07/01/15 03:41 PM
Silver	0.984	0.108	0.216		mg/Kg-dry	5	07/01/15 03:41 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.0932	0.0542	0.108	J	mg/Kg-dry	10	07/08/15 02:31 AM
Acenaphthylene	0.111	0.0542	0.108		mg/Kg-dry	10	07/08/15 02:31 AM
Anthracene	0.328	0.0542	0.108		mg/Kg-dry	10	07/08/15 02:31 AM
Benzo[a]anthracene	1.57	0.0542	0.108		mg/Kg-dry	10	07/08/15 02:31 AM
Benzo[a]pyrene	1.51	0.0542	0.108		mg/Kg-dry	10	07/08/15 02:31 AM
Benzo[b]fluoranthene	1.68	0.0542	0.108		mg/Kg-dry	10	07/08/15 02:31 AM
Benzo[g,h,i]perylene	1.14	0.0542	0.108		mg/Kg-dry	10	07/08/15 02:31 AM
Benzo[k]fluoranthene	0.781	0.0542	0.108		mg/Kg-dry	10	07/08/15 02:31 AM
Chrysene	1.74	0.0542	0.108		mg/Kg-dry	10	07/08/15 02:31 AM
Dibenz[a,h]anthracene	0.287	0.0542	0.108		mg/Kg-dry	10	07/08/15 02:31 AM
Fluoranthene	2.29	0.0542	0.108		mg/Kg-dry	10	07/08/15 02:31 AM
Fluorene	0.110	0.0542	0.108		mg/Kg-dry	10	07/08/15 02:31 AM
Indeno[1,2,3-cd]pyrene	0.991	0.0542	0.108		mg/Kg-dry	10	07/08/15 02:31 AM
Naphthalene	<0.0542	0.0542	0.108		mg/Kg-dry	10	07/08/15 02:31 AM
Phenanthrene	1.92	0.0542	0.108		mg/Kg-dry	10	07/08/15 02:31 AM
Pyrene	1.83	0.0542	0.108		mg/Kg-dry	10	07/08/15 02:31 AM
Surr: 2-Fluorobiphenyl	102	0	43-125		%REC	10	07/08/15 02:31 AM
Surr: 4-Terphenyl-d14	52.3	0	32-125		%REC	10	07/08/15 02:31 AM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	11.0	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB18-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-03
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 10:45 AM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.217	0.0186	0.0466		mg/Kg-dry	1	06/29/15 04:04 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	6.77	0.593	1.19		mg/Kg-dry	5	07/01/15 03:43 PM
Barium	569	0.593	2.37		mg/Kg-dry	5	07/01/15 03:43 PM
Cadmium	2.53	0.119	0.356		mg/Kg-dry	5	07/01/15 03:43 PM
Chromium	21.4	0.593	2.37		mg/Kg-dry	5	07/01/15 03:43 PM
Lead	401	0.119	0.356		mg/Kg-dry	5	07/01/15 03:43 PM
Selenium	0.562	0.178	0.593	J	mg/Kg-dry	5	07/01/15 03:43 PM
Silver	0.628	0.119	0.237		mg/Kg-dry	5	07/01/15 03:43 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.0906	0.0614	0.123	J	mg/Kg-dry	10	07/08/15 12:04 PM
Acenaphthylene	0.253	0.0614	0.123		mg/Kg-dry	10	07/08/15 12:04 PM
Anthracene	0.417	0.0614	0.123		mg/Kg-dry	10	07/08/15 12:04 PM
Benzo[a]anthracene	1.85	0.0614	0.123		mg/Kg-dry	10	07/08/15 12:04 PM
Benzo[a]pyrene	2.47	0.0614	0.123		mg/Kg-dry	10	07/08/15 12:04 PM
Benzo[b]fluoranthene	3.36	0.0614	0.123		mg/Kg-dry	10	07/08/15 12:04 PM
Benzo[g,h,i]perylene	2.55	0.0614	0.123		mg/Kg-dry	10	07/08/15 12:04 PM
Benzo[k]fluoranthene	1.47	0.0614	0.123		mg/Kg-dry	10	07/08/15 12:04 PM
Chrysene	2.27	0.0614	0.123		mg/Kg-dry	10	07/08/15 12:04 PM
Dibenz[a,h]anthracene	0.462	0.0614	0.123		mg/Kg-dry	10	07/08/15 12:04 PM
Fluoranthene	4.03	0.0614	0.123		mg/Kg-dry	10	07/08/15 12:04 PM
Fluorene	0.0974	0.0614	0.123	J	mg/Kg-dry	10	07/08/15 12:04 PM
Indeno[1,2,3-cd]pyrene	1.97	0.0614	0.123		mg/Kg-dry	10	07/08/15 12:04 PM
Naphthalene	0.0670	0.0614	0.123	J	mg/Kg-dry	10	07/08/15 12:04 PM
Phenanthrene	1.57	0.0614	0.123		mg/Kg-dry	10	07/08/15 12:04 PM
Pyrene	2.99	0.0614	0.123		mg/Kg-dry	10	07/08/15 12:04 PM
Surr: 2-Fluorobiphenyl	78.2	0	43-125		%REC	10	07/08/15 12:04 PM
Surr: 4-Terphenyl-d14	69.9	0	32-125		%REC	10	07/08/15 12:04 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	19.7	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB20-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-04
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 11:35 AM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.0371	0.0165	0.0412	J	mg/Kg-dry	1	06/29/15 04:06 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	2.61	0.553	1.11		mg/Kg-dry	5	07/01/15 03:45 PM
Barium	58.9	0.553	2.21		mg/Kg-dry	5	07/01/15 03:45 PM
Cadmium	0.203	0.111	0.332	J	mg/Kg-dry	5	07/01/15 03:45 PM
Chromium	6.77	0.553	2.21		mg/Kg-dry	5	07/01/15 03:45 PM
Lead	41.6	0.111	0.332		mg/Kg-dry	5	07/01/15 03:45 PM
Selenium	0.426	0.166	0.553	J	mg/Kg-dry	5	07/01/15 03:45 PM
Silver	0.481	0.111	0.221		mg/Kg-dry	5	07/01/15 03:45 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.0764	0.0105	0.0209		mg/Kg-dry	2	07/07/15 09:47 PM
Acenaphthylene	0.0401	0.0105	0.0209		mg/Kg-dry	2	07/07/15 09:47 PM
Anthracene	0.191	0.0105	0.0209		mg/Kg-dry	2	07/07/15 09:47 PM
Benzo[a]anthracene	0.595	0.0105	0.0209		mg/Kg-dry	2	07/07/15 09:47 PM
Benzo[a]pyrene	0.547	0.0105	0.0209		mg/Kg-dry	2	07/07/15 09:47 PM
Benzo[b]fluoranthene	0.574	0.0105	0.0209		mg/Kg-dry	2	07/07/15 09:47 PM
Benzo[g,h,i]perylene	0.331	0.0105	0.0209		mg/Kg-dry	2	07/07/15 09:47 PM
Benzo[k]fluoranthene	0.277	0.0105	0.0209		mg/Kg-dry	2	07/07/15 09:47 PM
Chrysene	0.678	0.0105	0.0209		mg/Kg-dry	2	07/07/15 09:47 PM
Dibenz[a,h]anthracene	0.0931	0.0105	0.0209		mg/Kg-dry	2	07/07/15 09:47 PM
Fluoranthene	1.65	0.0105	0.0209		mg/Kg-dry	2	07/07/15 09:47 PM
Fluorene	0.0408	0.0105	0.0209		mg/Kg-dry	2	07/07/15 09:47 PM
Indeno[1,2,3-cd]pyrene	0.345	0.0105	0.0209		mg/Kg-dry	2	07/07/15 09:47 PM
Naphthalene	0.151	0.0105	0.0209		mg/Kg-dry	2	07/07/15 09:47 PM
Phenanthrene	1.51	0.0105	0.0209		mg/Kg-dry	2	07/07/15 09:47 PM
Pyrene	1.33	0.0105	0.0209		mg/Kg-dry	2	07/07/15 09:47 PM
Surr: 2-Fluorobiphenyl	78.0	0	43-125		%REC	2	07/07/15 09:47 PM
Surr: 4-Terphenyl-d14	79.3	0	32-125		%REC	2	07/07/15 09:47 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	11.3	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB18-023
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-05
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 10:50 AM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.462	0.107	0.267		mg/Kg-dry	5	06/29/15 03:16 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	19.1	0.642	1.28		mg/Kg-dry	5	07/01/15 03:36 PM
Barium	1580	64.2	257		mg/Kg-dry	500	07/02/15 12:00 PM
Cadmium	3.00	0.128	0.385		mg/Kg-dry	5	07/01/15 03:36 PM
Chromium	176	0.642	2.57		mg/Kg-dry	5	07/01/15 03:36 PM
Lead	3830	12.8	38.5		mg/Kg-dry	500	07/02/15 12:00 PM
Selenium	0.513	0.193	0.642	J	mg/Kg-dry	5	07/01/15 03:36 PM
Silver	2.52	0.128	0.257		mg/Kg-dry	5	07/01/15 03:36 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.307	0.0344	0.0687		mg/Kg-dry	5	07/07/15 05:03 PM
Acenaphthylene	0.420	0.0344	0.0687		mg/Kg-dry	5	07/07/15 05:03 PM
Anthracene	0.995	0.0344	0.0687		mg/Kg-dry	5	07/07/15 05:03 PM
Benzo[a]anthracene	3.58	0.0344	0.0687		mg/Kg-dry	5	07/07/15 05:03 PM
Benzo[a]pyrene	3.16	0.0344	0.0687		mg/Kg-dry	5	07/07/15 05:03 PM
Benzo[b]fluoranthene	3.08	0.0344	0.0687		mg/Kg-dry	5	07/07/15 05:03 PM
Benzo[g,h,i]perylene	2.03	0.0344	0.0687		mg/Kg-dry	5	07/07/15 05:03 PM
Benzo[k]fluoranthene	1.55	0.0344	0.0687		mg/Kg-dry	5	07/07/15 05:03 PM
Chrysene	3.57	0.0344	0.0687		mg/Kg-dry	5	07/07/15 05:03 PM
Dibenz[a,h]anthracene	0.540	0.0344	0.0687		mg/Kg-dry	5	07/07/15 05:03 PM
Fluoranthene	6.18	0.0344	0.0687		mg/Kg-dry	5	07/07/15 05:03 PM
Fluorene	0.451	0.0344	0.0687		mg/Kg-dry	5	07/07/15 05:03 PM
Indeno[1,2,3-cd]pyrene	1.81	0.0344	0.0687		mg/Kg-dry	5	07/07/15 05:03 PM
Naphthalene	0.156	0.0344	0.0687		mg/Kg-dry	5	07/07/15 05:03 PM
Phenanthrene	4.89	0.0344	0.0687		mg/Kg-dry	5	07/07/15 05:03 PM
Pyrene	4.87	0.0344	0.0687		mg/Kg-dry	5	07/07/15 05:03 PM
Surr: 2-Fluorobiphenyl	71.3	0	43-125		%REC	5	07/07/15 05:03 PM
Surr: 4-Terphenyl-d14	63.9	0	32-125		%REC	5	07/07/15 05:03 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	29.2	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB20-011
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-06
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 11:35 AM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.0272	0.0162	0.0404	J	mg/Kg-dry	1	06/29/15 04:08 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	2.95	0.510	1.02		mg/Kg-dry	5	07/01/15 03:47 PM
Barium	56.5	0.510	2.04		mg/Kg-dry	5	07/01/15 03:47 PM
Cadmium	0.200	0.102	0.306	J	mg/Kg-dry	5	07/01/15 03:47 PM
Chromium	6.45	0.510	2.04		mg/Kg-dry	5	07/01/15 03:47 PM
Lead	46.6	0.102	0.306		mg/Kg-dry	5	07/01/15 03:47 PM
Selenium	0.361	0.153	0.510	J	mg/Kg-dry	5	07/01/15 03:47 PM
Silver	<0.102	0.102	0.204		mg/Kg-dry	5	07/01/15 03:47 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0108	0.0108	0.0216		mg/Kg-dry	2	07/07/15 09:06 PM
Acenaphthylene	0.0319	0.0108	0.0216		mg/Kg-dry	2	07/07/15 09:06 PM
Anthracene	0.0356	0.0108	0.0216		mg/Kg-dry	2	07/07/15 09:06 PM
Benzo[a]anthracene	0.124	0.0108	0.0216		mg/Kg-dry	2	07/07/15 09:06 PM
Benzo[a]pyrene	0.140	0.0108	0.0216		mg/Kg-dry	2	07/07/15 09:06 PM
Benzo[b]fluoranthene	0.153	0.0108	0.0216		mg/Kg-dry	2	07/07/15 09:06 PM
Benzo[g,h,i]perylene	0.172	0.0108	0.0216		mg/Kg-dry	2	07/07/15 09:06 PM
Benzo[k]fluoranthene	0.0670	0.0108	0.0216		mg/Kg-dry	2	07/07/15 09:06 PM
Chrysene	0.156	0.0108	0.0216		mg/Kg-dry	2	07/07/15 09:06 PM
Dibenz[a,h]anthracene	0.0288	0.0108	0.0216		mg/Kg-dry	2	07/07/15 09:06 PM
Fluoranthene	0.200	0.0108	0.0216		mg/Kg-dry	2	07/07/15 09:06 PM
Fluorene	<0.0108	0.0108	0.0216		mg/Kg-dry	2	07/07/15 09:06 PM
Indeno[1,2,3-cd]pyrene	0.0980	0.0108	0.0216		mg/Kg-dry	2	07/07/15 09:06 PM
Naphthalene	0.0285	0.0108	0.0216		mg/Kg-dry	2	07/07/15 09:06 PM
Phenanthrene	0.148	0.0108	0.0216		mg/Kg-dry	2	07/07/15 09:06 PM
Pyrene	0.184	0.0108	0.0216		mg/Kg-dry	2	07/07/15 09:06 PM
Surr: 2-Fluorobiphenyl	78.1	0	43-125		%REC	2	07/07/15 09:06 PM
Surr: 4-Terphenyl-d14	64.9	0	32-125		%REC	2	07/07/15 09:06 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	11.8	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB20-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-07
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 11:45 AM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.137	0.0183	0.0458		mg/Kg-dry	1	06/29/15 04:10 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	5.13	0.584	1.17		mg/Kg-dry	5	07/01/15 03:49 PM
Barium	120	0.584	2.34		mg/Kg-dry	5	07/01/15 03:49 PM
Cadmium	1.42	0.117	0.351		mg/Kg-dry	5	07/01/15 03:49 PM
Chromium	10.2	0.584	2.34		mg/Kg-dry	5	07/01/15 03:49 PM
Lead	256	0.117	0.351		mg/Kg-dry	5	07/01/15 03:49 PM
Selenium	0.397	0.175	0.584	J	mg/Kg-dry	5	07/01/15 03:49 PM
Silver	1.11	0.117	0.234		mg/Kg-dry	5	07/01/15 03:49 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0300	0.0300	0.0600		mg/Kg-dry	5	07/08/15 12:30 AM
Acenaphthylene	<0.0300	0.0300	0.0600		mg/Kg-dry	5	07/08/15 12:30 AM
Anthracene	0.0426	0.0300	0.0600	J	mg/Kg-dry	5	07/08/15 12:30 AM
Benzo[a]anthracene	0.146	0.0300	0.0600		mg/Kg-dry	5	07/08/15 12:30 AM
Benzo[a]pyrene	0.151	0.0300	0.0600		mg/Kg-dry	5	07/08/15 12:30 AM
Benzo[b]fluoranthene	0.161	0.0300	0.0600		mg/Kg-dry	5	07/08/15 12:30 AM
Benzo[g,h,i]perylene	0.143	0.0300	0.0600		mg/Kg-dry	5	07/08/15 12:30 AM
Benzo[k]fluoranthene	0.0758	0.0300	0.0600		mg/Kg-dry	5	07/08/15 12:30 AM
Chrysene	0.168	0.0300	0.0600		mg/Kg-dry	5	07/08/15 12:30 AM
Dibenz[a,h]anthracene	<0.0300	0.0300	0.0600		mg/Kg-dry	5	07/08/15 12:30 AM
Fluoranthene	0.288	0.0300	0.0600		mg/Kg-dry	5	07/08/15 12:30 AM
Fluorene	<0.0300	0.0300	0.0600		mg/Kg-dry	5	07/08/15 12:30 AM
Indeno[1,2,3-cd]pyrene	0.0954	0.0300	0.0600		mg/Kg-dry	5	07/08/15 12:30 AM
Naphthalene	<0.0300	0.0300	0.0600		mg/Kg-dry	5	07/08/15 12:30 AM
Phenanthrene	0.129	0.0300	0.0600		mg/Kg-dry	5	07/08/15 12:30 AM
Pyrene	0.177	0.0300	0.0600		mg/Kg-dry	5	07/08/15 12:30 AM
Surr: 2-Fluorobiphenyl	98.3	0	43-125		%REC	5	07/08/15 12:30 AM
Surr: 4-Terphenyl-d14	57.0	0	32-125		%REC	5	07/08/15 12:30 AM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	18.5	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB22-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-08
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 12:00 PM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.232	0.0150	0.0374		mg/Kg-dry	1	06/29/15 04:13 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	3.94	0.473	0.945		mg/Kg-dry	5	07/01/15 03:51 PM
Barium	109	0.473	1.89		mg/Kg-dry	5	07/01/15 03:51 PM
Cadmium	0.673	0.0945	0.284		mg/Kg-dry	5	07/01/15 03:51 PM
Chromium	7.52	0.473	1.89		mg/Kg-dry	5	07/01/15 03:51 PM
Lead	190	0.0945	0.284		mg/Kg-dry	5	07/01/15 03:51 PM
Selenium	0.348	0.142	0.473	J	mg/Kg-dry	5	07/01/15 03:51 PM
Silver	<0.0945	0.0945	0.189		mg/Kg-dry	5	07/01/15 03:51 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.636	0.103	0.206		mg/Kg-dry	20	07/08/15 12:45 PM
Acenaphthylene	0.392	0.103	0.206		mg/Kg-dry	20	07/08/15 12:45 PM
Anthracene	2.00	0.103	0.206		mg/Kg-dry	20	07/08/15 12:45 PM
Benzo[a]anthracene	5.73	0.103	0.206		mg/Kg-dry	20	07/08/15 12:45 PM
Benzo[a]pyrene	4.79	0.103	0.206		mg/Kg-dry	20	07/08/15 12:45 PM
Benzo[b]fluoranthene	4.86	0.103	0.206		mg/Kg-dry	20	07/08/15 12:45 PM
Benzo[g,h,i]perylene	2.76	0.103	0.206		mg/Kg-dry	20	07/08/15 12:45 PM
Benzo[k]fluoranthene	2.35	0.103	0.206		mg/Kg-dry	20	07/08/15 12:45 PM
Chrysene	5.60	0.103	0.206		mg/Kg-dry	20	07/08/15 12:45 PM
Dibenz[a,h]anthracene	0.930	0.103	0.206		mg/Kg-dry	20	07/08/15 12:45 PM
Fluoranthene	13.3	0.103	0.206		mg/Kg-dry	20	07/08/15 12:45 PM
Fluorene	0.897	0.103	0.206		mg/Kg-dry	20	07/08/15 12:45 PM
Indeno[1,2,3-cd]pyrene	3.22	0.103	0.206		mg/Kg-dry	20	07/08/15 12:45 PM
Naphthalene	0.193	0.103	0.206	J	mg/Kg-dry	20	07/08/15 12:45 PM
Phenanthrene	8.86	0.103	0.206		mg/Kg-dry	20	07/08/15 12:45 PM
Pyrene	8.31	0.103	0.206		mg/Kg-dry	20	07/08/15 12:45 PM
Surr: 2-Fluorobiphenyl	101	0	43-125		%REC	20	07/08/15 12:45 PM
Surr: 4-Terphenyl-d14	69.9	0	32-125		%REC	20	07/08/15 12:45 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	10.4	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB22-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-09
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 12:10 PM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.0951	0.0176	0.0441		mg/Kg-dry	1	07/07/15 09:58 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	9.34	0.634	1.27		mg/Kg-dry	5	07/01/15 03:53 PM
Barium	172	0.634	2.54		mg/Kg-dry	5	07/01/15 03:53 PM
Cadmium	1.38	0.127	0.381		mg/Kg-dry	5	07/01/15 03:53 PM
Chromium	15.9	0.634	2.54		mg/Kg-dry	5	07/01/15 03:53 PM
Lead	439	0.127	0.381		mg/Kg-dry	5	07/01/15 03:53 PM
Selenium	0.409	0.190	0.634	J	mg/Kg-dry	5	07/01/15 03:53 PM
Silver	0.489	0.127	0.254		mg/Kg-dry	5	07/01/15 03:53 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.147	0.0118	0.0236		mg/Kg-dry	2	07/07/15 11:49 PM
Acenaphthylene	0.0611	0.0118	0.0236		mg/Kg-dry	2	07/07/15 11:49 PM
Anthracene	0.459	0.0118	0.0236		mg/Kg-dry	2	07/07/15 11:49 PM
Benzo[a]anthracene	1.05	0.0118	0.0236		mg/Kg-dry	2	07/07/15 11:49 PM
Benzo[a]pyrene	0.861	0.0118	0.0236		mg/Kg-dry	2	07/07/15 11:49 PM
Benzo[b]fluoranthene	0.872	0.0118	0.0236		mg/Kg-dry	2	07/07/15 11:49 PM
Benzo[g,h,i]perylene	0.521	0.0118	0.0236		mg/Kg-dry	2	07/07/15 11:49 PM
Benzo[k]fluoranthene	0.428	0.0118	0.0236		mg/Kg-dry	2	07/07/15 11:49 PM
Chrysene	1.02	0.0118	0.0236		mg/Kg-dry	2	07/07/15 11:49 PM
Dibenz[a,h]anthracene	0.139	0.0118	0.0236		mg/Kg-dry	2	07/07/15 11:49 PM
Fluoranthene	2.95	0.0118	0.0236		mg/Kg-dry	2	07/07/15 11:49 PM
Fluorene	0.263	0.0118	0.0236		mg/Kg-dry	2	07/07/15 11:49 PM
Indeno[1,2,3-cd]pyrene	0.470	0.0118	0.0236		mg/Kg-dry	2	07/07/15 11:49 PM
Naphthalene	0.0261	0.0118	0.0236		mg/Kg-dry	2	07/07/15 11:49 PM
Phenanthrene	2.01	0.0118	0.0236		mg/Kg-dry	2	07/07/15 11:49 PM
Pyrene	2.07	0.0118	0.0236		mg/Kg-dry	2	07/07/15 11:49 PM
Surr: 2-Fluorobiphenyl	105	0	43-125		%REC	2	07/07/15 11:49 PM
Surr: 4-Terphenyl-d14	85.1	0	32-125		%REC	2	07/07/15 11:49 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	22.7	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB11-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-10
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 01:00 PM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.238	0.0180	0.0450		mg/Kg-dry	1	07/07/15 10:01 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	29.8	0.574	1.15		mg/Kg-dry	5	07/01/15 03:55 PM
Barium	506	0.574	2.29		mg/Kg-dry	5	07/01/15 03:55 PM
Cadmium	6.82	0.115	0.344		mg/Kg-dry	5	07/01/15 03:55 PM
Chromium	42.9	0.574	2.29		mg/Kg-dry	5	07/01/15 03:55 PM
Lead	3240	1.15	3.44		mg/Kg-dry	50	07/02/15 12:08 PM
Selenium	0.622	0.172	0.574		mg/Kg-dry	5	07/01/15 03:55 PM
Silver	3.79	0.115	0.229		mg/Kg-dry	5	07/01/15 03:55 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0544	0.0544	0.109		mg/Kg-dry	10	07/08/15 05:28 PM
Acenaphthylene	<0.0544	0.0544	0.109		mg/Kg-dry	10	07/08/15 05:28 PM
Anthracene	<0.0544	0.0544	0.109		mg/Kg-dry	10	07/08/15 05:28 PM
Benzo[a]anthracene	0.157	0.0544	0.109		mg/Kg-dry	10	07/08/15 05:28 PM
Benzo[a]pyrene	0.198	0.0544	0.109		mg/Kg-dry	10	07/08/15 05:28 PM
Benzo[b]fluoranthene	0.245	0.0544	0.109		mg/Kg-dry	10	07/08/15 05:28 PM
Benzo[g,h,i]perylene	0.451	0.0544	0.109		mg/Kg-dry	10	07/08/15 05:28 PM
Benzo[k]fluoranthene	0.0898	0.0544	0.109	J	mg/Kg-dry	10	07/08/15 05:28 PM
Chrysene	0.252	0.0544	0.109		mg/Kg-dry	10	07/08/15 05:28 PM
Dibenz[a,h]anthracene	<0.0544	0.0544	0.109		mg/Kg-dry	10	07/08/15 05:28 PM
Fluoranthene	0.296	0.0544	0.109		mg/Kg-dry	10	07/08/15 05:28 PM
Fluorene	<0.0544	0.0544	0.109		mg/Kg-dry	10	07/08/15 05:28 PM
Indeno[1,2,3-cd]pyrene	0.175	0.0544	0.109		mg/Kg-dry	10	07/08/15 05:28 PM
Naphthalene	<0.0544	0.0544	0.109		mg/Kg-dry	10	07/08/15 05:28 PM
Phenanthrene	0.127	0.0544	0.109		mg/Kg-dry	10	07/08/15 05:28 PM
Pyrene	0.281	0.0544	0.109		mg/Kg-dry	10	07/08/15 05:28 PM
Surr: 2-Fluorobiphenyl	66.2	0	43-125		%REC	10	07/08/15 05:28 PM
Surr: 4-Terphenyl-d14	79.8	0	32-125		%REC	10	07/08/15 05:28 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	15.4	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB11-011
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-11
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 01:00 PM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.230	0.0174	0.0434		mg/Kg-dry	1	07/07/15 10:03 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	26.5	0.472	0.943		mg/Kg-dry	5	07/01/15 04:32 PM
Barium	489	4.72	18.9		mg/Kg-dry	50	07/02/15 12:10 PM
Cadmium	8.17	0.0943	0.283		mg/Kg-dry	5	07/01/15 04:32 PM
Chromium	43.5	0.472	1.89		mg/Kg-dry	5	07/01/15 04:32 PM
Lead	1270	0.943	2.83		mg/Kg-dry	50	07/02/15 12:10 PM
Selenium	0.768	0.141	0.472		mg/Kg-dry	5	07/01/15 04:32 PM
Silver	2.35	0.0943	0.189		mg/Kg-dry	5	07/01/15 04:32 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0526	0.0526	0.105		mg/Kg-dry	10	07/08/15 06:09 PM
Acenaphthylene	0.0655	0.0526	0.105	J	mg/Kg-dry	10	07/08/15 06:09 PM
Anthracene	0.0762	0.0526	0.105	J	mg/Kg-dry	10	07/08/15 06:09 PM
Benzo[a]anthracene	0.253	0.0526	0.105		mg/Kg-dry	10	07/08/15 06:09 PM
Benzo[a]pyrene	0.370	0.263	0.526	J	mg/Kg-dry	50	07/08/15 04:48 PM
Benzo[b]fluoranthene	0.372	0.263	0.526	J	mg/Kg-dry	50	07/08/15 04:48 PM
Benzo[g,h,i]perylene	0.512	0.263	0.526	J	mg/Kg-dry	50	07/08/15 04:48 PM
Benzo[k]fluoranthene	<0.263	0.263	0.526		mg/Kg-dry	50	07/08/15 04:48 PM
Chrysene	0.343	0.0526	0.105		mg/Kg-dry	10	07/08/15 06:09 PM
Dibenz[a,h]anthracene	<0.263	0.263	0.526		mg/Kg-dry	50	07/08/15 04:48 PM
Fluoranthene	0.616	0.0526	0.105		mg/Kg-dry	10	07/08/15 06:09 PM
Fluorene	<0.0526	0.0526	0.105		mg/Kg-dry	10	07/08/15 06:09 PM
Indeno[1,2,3-cd]pyrene	<0.263	0.263	0.526		mg/Kg-dry	50	07/08/15 04:48 PM
Naphthalene	<0.0526	0.0526	0.105		mg/Kg-dry	10	07/08/15 06:09 PM
Phenanthrene	0.171	0.0526	0.105		mg/Kg-dry	10	07/08/15 06:09 PM
Pyrene	0.548	0.0526	0.105		mg/Kg-dry	10	07/08/15 06:09 PM
Surr: 2-Fluorobiphenyl	66.5	0	43-125		%REC	50	07/08/15 04:48 PM
Surr: 2-Fluorobiphenyl	81.8	0	43-125		%REC	10	07/08/15 06:09 PM
Surr: 4-Terphenyl-d14	63.6	0	32-125		%REC	50	07/08/15 04:48 PM
Surr: 4-Terphenyl-d14	93.7	0	32-125		%REC	10	07/08/15 06:09 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	11.6	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB11-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-12
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 01:10 PM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.125	0.0164	0.0410		mg/Kg-dry	1	07/07/15 10:05 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	53.3	5.45	10.9		mg/Kg-dry	50	07/07/15 06:12 PM
Barium	641	5.45	21.8		mg/Kg-dry	50	07/07/15 06:12 PM
Cadmium	12.4	1.09	3.27		mg/Kg-dry	50	07/07/15 06:12 PM
Chromium	96.3	5.45	21.8		mg/Kg-dry	50	07/07/15 06:12 PM
Lead	4800	1.09	3.27		mg/Kg-dry	50	07/07/15 06:12 PM
Selenium	<1.63	1.63	5.45		mg/Kg-dry	50	07/07/15 06:12 PM
Silver	4.25	1.09	2.18		mg/Kg-dry	50	07/07/15 06:12 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0121	0.0121	0.0242		mg/Kg-dry	2	07/07/15 08:26 PM
Acenaphthylene	0.0271	0.0121	0.0242		mg/Kg-dry	2	07/07/15 08:26 PM
Anthracene	0.0257	0.0121	0.0242		mg/Kg-dry	2	07/07/15 08:26 PM
Benzo[a]anthracene	0.120	0.0121	0.0242		mg/Kg-dry	2	07/07/15 08:26 PM
Benzo[a]pyrene	0.134	0.0121	0.0242		mg/Kg-dry	2	07/07/15 08:26 PM
Benzo[b]fluoranthene	0.147	0.0121	0.0242		mg/Kg-dry	2	07/07/15 08:26 PM
Benzo[g,h,i]perylene	0.195	0.0121	0.0242		mg/Kg-dry	2	07/07/15 08:26 PM
Benzo[k]fluoranthene	0.0667	0.0121	0.0242		mg/Kg-dry	2	07/07/15 08:26 PM
Chrysene	0.146	0.0121	0.0242		mg/Kg-dry	2	07/07/15 08:26 PM
Dibenz[a,h]anthracene	0.0416	0.0121	0.0242		mg/Kg-dry	2	07/07/15 08:26 PM
Fluoranthene	0.202	0.0121	0.0242		mg/Kg-dry	2	07/07/15 08:26 PM
Fluorene	<0.0121	0.0121	0.0242		mg/Kg-dry	2	07/07/15 08:26 PM
Indeno[1,2,3-cd]pyrene	0.145	0.0121	0.0242		mg/Kg-dry	2	07/07/15 08:26 PM
Naphthalene	<0.0121	0.0121	0.0242		mg/Kg-dry	2	07/07/15 08:26 PM
Phenanthrene	0.0775	0.0121	0.0242		mg/Kg-dry	2	07/07/15 08:26 PM
Pyrene	0.266	0.0121	0.0242		mg/Kg-dry	2	07/07/15 08:26 PM
Surr: 2-Fluorobiphenyl	78.0	0	43-125		%REC	2	07/07/15 08:26 PM
Surr: 4-Terphenyl-d14	84.2	0	32-125		%REC	2	07/07/15 08:26 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	18.0	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB12-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-13
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 01:25 PM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.962	0.0815	0.204		mg/Kg-dry	5	07/07/15 12:12 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	41.3	5.45	10.9		mg/Kg-dry	50	07/07/15 06:14 PM
Barium	1790	5.45	21.8		mg/Kg-dry	50	07/07/15 06:14 PM
Cadmium	8.54	1.09	3.27		mg/Kg-dry	50	07/07/15 06:14 PM
Chromium	142	5.45	21.8		mg/Kg-dry	50	07/07/15 06:14 PM
Lead	4190	1.09	3.27		mg/Kg-dry	50	07/07/15 06:14 PM
Selenium	<1.64	1.64	5.45		mg/Kg-dry	50	07/07/15 06:14 PM
Silver	17.4	1.09	2.18		mg/Kg-dry	50	07/07/15 06:14 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0115	0.0115	0.0229		mg/Kg-dry	2	07/07/15 10:27 PM
Acenaphthylene	<0.0115	0.0115	0.0229		mg/Kg-dry	2	07/07/15 10:27 PM
Anthracene	<0.0115	0.0115	0.0229		mg/Kg-dry	2	07/07/15 10:27 PM
Benzo[a]anthracene	0.0176	0.0115	0.0229	J	mg/Kg-dry	2	07/07/15 10:27 PM
Benzo[a]pyrene	0.0135	0.0115	0.0229	J	mg/Kg-dry	2	07/07/15 10:27 PM
Benzo[b]fluoranthene	0.0385	0.0115	0.0229		mg/Kg-dry	2	07/07/15 10:27 PM
Benzo[g,h,i]perylene	0.0459	0.0115	0.0229		mg/Kg-dry	2	07/07/15 10:27 PM
Benzo[k]fluoranthene	<0.0115	0.0115	0.0229		mg/Kg-dry	2	07/07/15 10:27 PM
Chrysene	0.0707	0.0115	0.0229		mg/Kg-dry	2	07/07/15 10:27 PM
Dibenz[a,h]anthracene	<0.0115	0.0115	0.0229		mg/Kg-dry	2	07/07/15 10:27 PM
Fluoranthene	0.0298	0.0115	0.0229		mg/Kg-dry	2	07/07/15 10:27 PM
Fluorene	<0.0115	0.0115	0.0229		mg/Kg-dry	2	07/07/15 10:27 PM
Indeno[1,2,3-cd]pyrene	0.0145	0.0115	0.0229	J	mg/Kg-dry	2	07/07/15 10:27 PM
Naphthalene	0.0212	0.0115	0.0229	J	mg/Kg-dry	2	07/07/15 10:27 PM
Phenanthrene	0.0441	0.0115	0.0229		mg/Kg-dry	2	07/07/15 10:27 PM
Pyrene	0.0340	0.0115	0.0229		mg/Kg-dry	2	07/07/15 10:27 PM
Surr: 2-Fluorobiphenyl	80.3	0	43-125		%REC	2	07/07/15 10:27 PM
Surr: 4-Terphenyl-d14	64.4	0	32-125		%REC	2	07/07/15 10:27 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	17.4	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB12-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-14
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 01:35 PM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.493	0.0201	0.0503		mg/Kg-dry	1	07/07/15 10:10 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	48.1	6.59	13.2		mg/Kg-dry	50	07/07/15 06:16 PM
Barium	994	6.59	26.4		mg/Kg-dry	50	07/07/15 06:16 PM
Cadmium	22.2	1.32	3.95		mg/Kg-dry	50	07/07/15 06:16 PM
Chromium	95.2	6.59	26.4		mg/Kg-dry	50	07/07/15 06:16 PM
Lead	30400	13.2	39.5		mg/Kg-dry	500	07/08/15 11:38 AM
Selenium	<1.98	1.98	6.59		mg/Kg-dry	50	07/07/15 06:16 PM
Silver	5.15	1.32	2.64		mg/Kg-dry	50	07/07/15 06:16 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0124	0.0124	0.0249		mg/Kg-dry	2	07/07/15 11:08 PM
Acenaphthylene	<0.0124	0.0124	0.0249		mg/Kg-dry	2	07/07/15 11:08 PM
Anthracene	<0.0124	0.0124	0.0249		mg/Kg-dry	2	07/07/15 11:08 PM
Benzo[a]anthracene	0.0466	0.0124	0.0249		mg/Kg-dry	2	07/07/15 11:08 PM
Benzo[a]pyrene	0.0458	0.0124	0.0249		mg/Kg-dry	2	07/07/15 11:08 PM
Benzo[b]fluoranthene	0.102	0.0124	0.0249		mg/Kg-dry	2	07/07/15 11:08 PM
Benzo[g,h,i]perylene	0.100	0.0124	0.0249		mg/Kg-dry	2	07/07/15 11:08 PM
Benzo[k]fluoranthene	0.0293	0.0124	0.0249		mg/Kg-dry	2	07/07/15 11:08 PM
Chrysene	0.0909	0.0124	0.0249		mg/Kg-dry	2	07/07/15 11:08 PM
Dibenz[a,h]anthracene	0.0147	0.0124	0.0249	J	mg/Kg-dry	2	07/07/15 11:08 PM
Fluoranthene	0.0708	0.0124	0.0249		mg/Kg-dry	2	07/07/15 11:08 PM
Fluorene	<0.0124	0.0124	0.0249		mg/Kg-dry	2	07/07/15 11:08 PM
Indeno[1,2,3-cd]pyrene	0.0531	0.0124	0.0249		mg/Kg-dry	2	07/07/15 11:08 PM
Naphthalene	0.176	0.0124	0.0249		mg/Kg-dry	2	07/07/15 11:08 PM
Phenanthrene	0.0689	0.0124	0.0249		mg/Kg-dry	2	07/07/15 11:08 PM
Pyrene	0.0749	0.0124	0.0249		mg/Kg-dry	2	07/07/15 11:08 PM
Surr: 2-Fluorobiphenyl	84.3	0	43-125		%REC	2	07/07/15 11:08 PM
Surr: 4-Terphenyl-d14	52.6	0	32-125		%REC	2	07/07/15 11:08 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	26.3	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB27-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-15
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 02:05 PM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.0533	0.0160	0.0401		mg/Kg-dry	1	07/07/15 10:12 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	<5.00	5.00	10.0		mg/Kg-dry	50	07/07/15 06:18 PM
Barium	63.7	5.00	20.0		mg/Kg-dry	50	07/07/15 06:18 PM
Cadmium	<1.00	1.00	3.00		mg/Kg-dry	50	07/07/15 06:18 PM
Chromium	10.8	5.00	20.0	J	mg/Kg-dry	50	07/07/15 06:18 PM
Lead	41.9	1.00	3.00		mg/Kg-dry	50	07/07/15 06:18 PM
Selenium	<1.50	1.50	5.00		mg/Kg-dry	50	07/07/15 06:18 PM
Silver	<1.00	1.00	2.00		mg/Kg-dry	50	07/07/15 06:18 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0240	0.0240	0.0480		mg/Kg-dry	5	07/08/15 01:10 AM
Acenaphthylene	<0.0240	0.0240	0.0480		mg/Kg-dry	5	07/08/15 01:10 AM
Anthracene	0.0241	0.0240	0.0480	J	mg/Kg-dry	5	07/08/15 01:10 AM
Benzo[a]anthracene	0.0842	0.0240	0.0480		mg/Kg-dry	5	07/08/15 01:10 AM
Benzo[a]pyrene	0.0913	0.0240	0.0480		mg/Kg-dry	5	07/08/15 01:10 AM
Benzo[b]fluoranthene	0.0963	0.0240	0.0480		mg/Kg-dry	5	07/08/15 01:10 AM
Benzo[g,h,i]perylene	0.0815	0.0240	0.0480		mg/Kg-dry	5	07/08/15 01:10 AM
Benzo[k]fluoranthene	0.0450	0.0240	0.0480	J	mg/Kg-dry	5	07/08/15 01:10 AM
Chrysene	0.0980	0.0240	0.0480		mg/Kg-dry	5	07/08/15 01:10 AM
Dibenz[a,h]anthracene	0.0263	0.0240	0.0480	J	mg/Kg-dry	5	07/08/15 01:10 AM
Fluoranthene	0.174	0.0240	0.0480		mg/Kg-dry	5	07/08/15 01:10 AM
Fluorene	<0.0240	0.0240	0.0480		mg/Kg-dry	5	07/08/15 01:10 AM
Indeno[1,2,3-cd]pyrene	0.0882	0.0240	0.0480		mg/Kg-dry	5	07/08/15 01:10 AM
Naphthalene	<0.0240	0.0240	0.0480		mg/Kg-dry	5	07/08/15 01:10 AM
Phenanthrene	0.0930	0.0240	0.0480		mg/Kg-dry	5	07/08/15 01:10 AM
Pyrene	0.149	0.0240	0.0480		mg/Kg-dry	5	07/08/15 01:10 AM
Surr: 2-Fluorobiphenyl	79.2	0	43-125		%REC	5	07/08/15 01:10 AM
Surr: 4-Terphenyl-d14	83.5	0	32-125		%REC	5	07/08/15 01:10 AM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	4.73	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB27-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-16
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 03:00 PM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.0667	0.0195	0.0489		mg/Kg-dry	1	07/07/15 10:14 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	38.6	6.43	12.9		mg/Kg-dry	50	07/07/15 06:20 PM
Barium	1070	6.43	25.7		mg/Kg-dry	50	07/07/15 06:20 PM
Cadmium	5.70	1.29	3.86		mg/Kg-dry	50	07/07/15 06:20 PM
Chromium	49.8	6.43	25.7		mg/Kg-dry	50	07/07/15 06:20 PM
Lead	1360	1.29	3.86		mg/Kg-dry	50	07/07/15 06:20 PM
Selenium	<1.93	1.93	6.43		mg/Kg-dry	50	07/07/15 06:20 PM
Silver	1.76	1.29	2.57	J	mg/Kg-dry	50	07/07/15 06:20 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0322	0.0322	0.0644		mg/Kg-dry	5	07/08/15 01:51 AM
Acenaphthylene	0.0404	0.0322	0.0644	J	mg/Kg-dry	5	07/08/15 01:51 AM
Anthracene	0.155	0.0322	0.0644		mg/Kg-dry	5	07/08/15 01:51 AM
Benzo[a]anthracene	0.445	0.0322	0.0644		mg/Kg-dry	5	07/08/15 01:51 AM
Benzo[a]pyrene	0.524	0.0322	0.0644		mg/Kg-dry	5	07/08/15 01:51 AM
Benzo[b]fluoranthene	0.597	0.0322	0.0644		mg/Kg-dry	5	07/08/15 01:51 AM
Benzo[g,h,i]perylene	0.432	0.0322	0.0644		mg/Kg-dry	5	07/08/15 01:51 AM
Benzo[k]fluoranthene	0.271	0.0322	0.0644		mg/Kg-dry	5	07/08/15 01:51 AM
Chrysene	0.593	0.0322	0.0644		mg/Kg-dry	5	07/08/15 01:51 AM
Dibenz[a,h]anthracene	0.101	0.0322	0.0644		mg/Kg-dry	5	07/08/15 01:51 AM
Fluoranthene	0.877	0.0322	0.0644		mg/Kg-dry	5	07/08/15 01:51 AM
Fluorene	<0.0322	0.0322	0.0644		mg/Kg-dry	5	07/08/15 01:51 AM
Indeno[1,2,3-cd]pyrene	0.359	0.0322	0.0644		mg/Kg-dry	5	07/08/15 01:51 AM
Naphthalene	0.0389	0.0322	0.0644	J	mg/Kg-dry	5	07/08/15 01:51 AM
Phenanthrene	0.533	0.0322	0.0644		mg/Kg-dry	5	07/08/15 01:51 AM
Pyrene	0.686	0.0322	0.0644		mg/Kg-dry	5	07/08/15 01:51 AM
Surr: 2-Fluorobiphenyl	104	0	43-125		%REC	5	07/08/15 01:51 AM
Surr: 4-Terphenyl-d14	60.5	0	32-125		%REC	5	07/08/15 01:51 AM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	26.0	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB16-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-17
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 03:15 PM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.160	0.0189	0.0473		mg/Kg-dry	1	07/07/15 10:16 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	89.9	5.66	11.3		mg/Kg-dry	50	07/07/15 06:22 PM
Barium	2360	5.66	22.6		mg/Kg-dry	50	07/07/15 06:22 PM
Cadmium	8.39	1.13	3.40		mg/Kg-dry	50	07/07/15 06:22 PM
Chromium	51.6	5.66	22.6		mg/Kg-dry	50	07/07/15 06:22 PM
Lead	3760	1.13	3.40		mg/Kg-dry	50	07/07/15 06:22 PM
Selenium	<1.70	1.70	5.66		mg/Kg-dry	50	07/07/15 06:22 PM
Silver	3.86	1.13	2.26		mg/Kg-dry	50	07/07/15 06:22 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.129	0.120	0.239	J	mg/Kg-dry	20	07/08/15 01:25 PM
Acenaphthylene	<0.120	0.120	0.239		mg/Kg-dry	20	07/08/15 01:25 PM
Anthracene	4.61	0.120	0.239		mg/Kg-dry	20	07/08/15 01:25 PM
Benzo[a]anthracene	59.7	0.120	0.239		mg/Kg-dry	20	07/08/15 01:25 PM
Benzo[a]pyrene	52.6	0.120	0.239		mg/Kg-dry	20	07/08/15 01:25 PM
Benzo[b]fluoranthene	49.3	0.120	0.239		mg/Kg-dry	20	07/08/15 01:25 PM
Benzo[g,h,i]perylene	26.5	0.120	0.239		mg/Kg-dry	20	07/08/15 01:25 PM
Benzo[k]fluoranthene	22.8	0.120	0.239		mg/Kg-dry	20	07/08/15 01:25 PM
Chrysene	59.6	0.120	0.239		mg/Kg-dry	20	07/08/15 01:25 PM
Dibenz[a,h]anthracene	5.87	0.120	0.239		mg/Kg-dry	20	07/08/15 01:25 PM
Fluoranthene	101	0.120	0.239		mg/Kg-dry	20	07/08/15 01:25 PM
Fluorene	<0.120	0.120	0.239		mg/Kg-dry	20	07/08/15 01:25 PM
Indeno[1,2,3-cd]pyrene	25.3	0.120	0.239		mg/Kg-dry	20	07/08/15 01:25 PM
Naphthalene	<0.120	0.120	0.239		mg/Kg-dry	20	07/08/15 01:25 PM
Phenanthrene	19.5	0.120	0.239		mg/Kg-dry	20	07/08/15 01:25 PM
Pyrene	73.2	0.120	0.239		mg/Kg-dry	20	07/08/15 01:25 PM
Surr: 2-Fluorobiphenyl	72.6	0	43-125		%REC	20	07/08/15 01:25 PM
Surr: 4-Terphenyl-d14	63.2	0	32-125		%REC	20	07/08/15 01:25 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	19.7	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB16-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-18
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 03:25 PM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.177	0.0162	0.0404		mg/Kg-dry	1	07/07/15 10:23 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	61.5	5.63	11.3		mg/Kg-dry	50	07/07/15 06:24 PM
Barium	974	5.63	22.5		mg/Kg-dry	50	07/07/15 06:24 PM
Cadmium	13.1	1.13	3.38		mg/Kg-dry	50	07/07/15 06:24 PM
Chromium	93.6	5.63	22.5		mg/Kg-dry	50	07/07/15 06:24 PM
Lead	2020	1.13	3.38		mg/Kg-dry	50	07/07/15 06:24 PM
Selenium	<1.69	1.69	5.63		mg/Kg-dry	50	07/07/15 06:24 PM
Silver	1.29	1.13	2.25	J	mg/Kg-dry	50	07/07/15 06:24 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0281	0.0281	0.0563		mg/Kg-dry	5	07/08/15 06:49 PM
Acenaphthylene	<0.0281	0.0281	0.0563		mg/Kg-dry	5	07/08/15 06:49 PM
Anthracene	0.0356	0.0281	0.0563	J	mg/Kg-dry	5	07/08/15 06:49 PM
Benzo[a]anthracene	0.127	0.0281	0.0563		mg/Kg-dry	5	07/08/15 06:49 PM
Benzo[a]pyrene	0.145	0.0281	0.0563		mg/Kg-dry	5	07/08/15 06:49 PM
Benzo[b]fluoranthene	0.142	0.0281	0.0563		mg/Kg-dry	5	07/08/15 06:49 PM
Benzo[g,h,i]perylene	0.139	0.0281	0.0563		mg/Kg-dry	5	07/08/15 06:49 PM
Benzo[k]fluoranthene	0.0575	0.0281	0.0563		mg/Kg-dry	5	07/08/15 06:49 PM
Chrysene	0.149	0.0281	0.0563		mg/Kg-dry	5	07/08/15 06:49 PM
Dibenz[a,h]anthracene	0.0283	0.0281	0.0563	J	mg/Kg-dry	5	07/08/15 06:49 PM
Fluoranthene	0.200	0.0281	0.0563		mg/Kg-dry	5	07/08/15 06:49 PM
Fluorene	<0.0281	0.0281	0.0563		mg/Kg-dry	5	07/08/15 06:49 PM
Indeno[1,2,3-cd]pyrene	0.0941	0.0281	0.0563		mg/Kg-dry	5	07/08/15 06:49 PM
Naphthalene	<0.0281	0.0281	0.0563		mg/Kg-dry	5	07/08/15 06:49 PM
Phenanthrene	0.104	0.0281	0.0563		mg/Kg-dry	5	07/08/15 06:49 PM
Pyrene	0.175	0.0281	0.0563		mg/Kg-dry	5	07/08/15 06:49 PM
Surr: 2-Fluorobiphenyl	79.2	0	43-125		%REC	5	07/08/15 06:49 PM
Surr: 4-Terphenyl-d14	83.4	0	32-125		%REC	5	07/08/15 06:49 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	15.5	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB17-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-19
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 03:35 PM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.0587	0.0154	0.0384		mg/Kg-dry	1	07/07/15 10:26 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	7.20	5.32	10.6	J	mg/Kg-dry	50	07/07/15 06:26 PM
Barium	739	5.32	21.3		mg/Kg-dry	50	07/07/15 06:26 PM
Cadmium	<1.06	1.06	3.19		mg/Kg-dry	50	07/07/15 06:26 PM
Chromium	17.7	5.32	21.3	J	mg/Kg-dry	50	07/07/15 06:26 PM
Lead	61.6	1.06	3.19		mg/Kg-dry	50	07/07/15 06:26 PM
Selenium	<1.59	1.59	5.32		mg/Kg-dry	50	07/07/15 06:26 PM
Silver	<1.06	1.06	2.13		mg/Kg-dry	50	07/07/15 06:26 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0250	0.0250	0.0499		mg/Kg-dry	5	07/08/15 07:30 PM
Acenaphthylene	0.0935	0.0250	0.0499		mg/Kg-dry	5	07/08/15 07:30 PM
Anthracene	0.118	0.0250	0.0499		mg/Kg-dry	5	07/08/15 07:30 PM
Benzo[a]anthracene	0.419	0.0250	0.0499		mg/Kg-dry	5	07/08/15 07:30 PM
Benzo[a]pyrene	0.460	0.0250	0.0499		mg/Kg-dry	5	07/08/15 07:30 PM
Benzo[b]fluoranthene	0.478	0.0250	0.0499		mg/Kg-dry	5	07/08/15 07:30 PM
Benzo[g,h,i]perylene	0.417	0.0250	0.0499		mg/Kg-dry	5	07/08/15 07:30 PM
Benzo[k]fluoranthene	0.226	0.0250	0.0499		mg/Kg-dry	5	07/08/15 07:30 PM
Chrysene	0.467	0.0250	0.0499		mg/Kg-dry	5	07/08/15 07:30 PM
Dibenz[a,h]anthracene	0.0882	0.0250	0.0499		mg/Kg-dry	5	07/08/15 07:30 PM
Fluoranthene	0.810	0.0250	0.0499		mg/Kg-dry	5	07/08/15 07:30 PM
Fluorene	0.0299	0.0250	0.0499	J	mg/Kg-dry	5	07/08/15 07:30 PM
Indeno[1,2,3-cd]pyrene	0.318	0.0250	0.0499		mg/Kg-dry	5	07/08/15 07:30 PM
Naphthalene	<0.0250	0.0250	0.0499		mg/Kg-dry	5	07/08/15 07:30 PM
Phenanthrene	0.288	0.0250	0.0499		mg/Kg-dry	5	07/08/15 07:30 PM
Pyrene	0.686	0.0250	0.0499		mg/Kg-dry	5	07/08/15 07:30 PM
Surr: 2-Fluorobiphenyl	81.7	0	43-125		%REC	5	07/08/15 07:30 PM
Surr: 4-Terphenyl-d14	82.4	0	32-125		%REC	5	07/08/15 07:30 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	6.88	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB17-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-20
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 03:45 PM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.531	0.0180	0.0450		mg/Kg-dry	1	07/07/15 10:28 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	53.0	5.23	10.5		mg/Kg-dry	50	07/07/15 06:55 PM
Barium	418	5.23	20.9		mg/Kg-dry	50	07/07/15 06:55 PM
Cadmium	<1.05	1.05	3.14		mg/Kg-dry	50	07/07/15 06:55 PM
Chromium	12.2	5.23	20.9	J	mg/Kg-dry	50	07/07/15 06:55 PM
Lead	189	1.05	3.14		mg/Kg-dry	50	07/07/15 06:55 PM
Selenium	<1.57	1.57	5.23		mg/Kg-dry	50	07/07/15 06:55 PM
Silver	<1.05	1.05	2.09		mg/Kg-dry	50	07/07/15 06:55 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	1.57	0.113	0.226		mg/Kg-dry	20	07/08/15 03:27 PM
Acenaphthylene	1.27	0.113	0.226		mg/Kg-dry	20	07/08/15 03:27 PM
Anthracene	3.87	0.113	0.226		mg/Kg-dry	20	07/08/15 03:27 PM
Benzo[a]anthracene	14.2	0.113	0.226		mg/Kg-dry	20	07/08/15 03:27 PM
Benzo[a]pyrene	13.3	0.113	0.226		mg/Kg-dry	20	07/08/15 03:27 PM
Benzo[b]fluoranthene	14.0	0.113	0.226		mg/Kg-dry	20	07/08/15 03:27 PM
Benzo[g,h,i]perylene	12.4	0.113	0.226		mg/Kg-dry	20	07/08/15 03:27 PM
Benzo[k]fluoranthene	6.67	0.113	0.226		mg/Kg-dry	20	07/08/15 03:27 PM
Chrysene	15.4	0.113	0.226		mg/Kg-dry	20	07/08/15 03:27 PM
Dibenz[a,h]anthracene	3.06	0.113	0.226		mg/Kg-dry	20	07/08/15 03:27 PM
Fluoranthene	31.4	0.113	0.226		mg/Kg-dry	20	07/08/15 03:27 PM
Fluorene	1.26	0.113	0.226		mg/Kg-dry	20	07/08/15 03:27 PM
Indeno[1,2,3-cd]pyrene	10.3	0.113	0.226		mg/Kg-dry	20	07/08/15 03:27 PM
Naphthalene	0.837	0.113	0.226		mg/Kg-dry	20	07/08/15 03:27 PM
Phenanthrene	21.0	0.113	0.226		mg/Kg-dry	20	07/08/15 03:27 PM
Pyrene	33.0	0.113	0.226		mg/Kg-dry	20	07/08/15 03:27 PM
Surr: 2-Fluorobiphenyl	78.7	0	43-125		%REC	20	07/08/15 03:27 PM
Surr: 4-Terphenyl-d14	99.8	0	32-125		%REC	20	07/08/15 03:27 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	13.8	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB13-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-21
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 04:05 PM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.402	0.0170	0.0426		mg/Kg-dry	1	07/07/15 10:30 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	10.9	5.81	11.6	J	mg/Kg-dry	50	07/07/15 06:57 PM
Barium	544	5.81	23.2		mg/Kg-dry	50	07/07/15 06:57 PM
Cadmium	2.12	1.16	3.49	J	mg/Kg-dry	50	07/07/15 06:57 PM
Chromium	31.4	5.81	23.2		mg/Kg-dry	50	07/07/15 06:57 PM
Lead	511	1.16	3.49		mg/Kg-dry	50	07/07/15 06:57 PM
Selenium	<1.74	1.74	5.81		mg/Kg-dry	50	07/07/15 06:57 PM
Silver	3.14	1.16	2.32		mg/Kg-dry	50	07/07/15 06:57 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **KL**
Acenaphthene	<0.0572	0.0572	0.114		mg/Kg-dry	10	07/08/15 02:17 PM
Acenaphthylene	<0.0572	0.0572	0.114		mg/Kg-dry	10	07/08/15 02:17 PM
Anthracene	<0.0572	0.0572	0.114		mg/Kg-dry	10	07/08/15 02:17 PM
Benzo[a]anthracene	0.634	0.0572	0.114		mg/Kg-dry	10	07/08/15 02:17 PM
Benzo[a]pyrene	0.560	0.0572	0.114		mg/Kg-dry	10	07/08/15 02:17 PM
Benzo[b]fluoranthene	0.725	0.0572	0.114		mg/Kg-dry	10	07/08/15 02:17 PM
Benzo[g,h,i]perylene	0.402	0.0572	0.114		mg/Kg-dry	10	07/08/15 02:17 PM
Benzo[k]fluoranthene	0.441	0.0572	0.114		mg/Kg-dry	10	07/08/15 02:17 PM
Chrysene	0.635	0.0572	0.114		mg/Kg-dry	10	07/08/15 02:17 PM
Dibenz[a,h]anthracene	<0.0572	0.0572	0.114		mg/Kg-dry	10	07/08/15 02:17 PM
Fluoranthene	1.16	0.0572	0.114		mg/Kg-dry	10	07/08/15 02:17 PM
Fluorene	<0.0572	0.0572	0.114		mg/Kg-dry	10	07/08/15 02:17 PM
Indeno[1,2,3-cd]pyrene	0.493	0.0572	0.114		mg/Kg-dry	10	07/08/15 02:17 PM
Naphthalene	<0.0572	0.0572	0.114		mg/Kg-dry	10	07/08/15 02:17 PM
Phenanthrene	0.447	0.0572	0.114		mg/Kg-dry	10	07/08/15 02:17 PM
Pyrene	0.986	0.0572	0.114		mg/Kg-dry	10	07/08/15 02:17 PM
Surr: 2-Fluorobiphenyl	69.5	0	43-125		%REC	10	07/08/15 02:17 PM
Surr: 4-Terphenyl-d14	69.3	0	32-125		%REC	10	07/08/15 02:17 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	17.2	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB13-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506293-22
Project No:	60420789.41012083.0103	**Collection Date:**	06/23/15 04:15 PM
Lab Order:	1506293	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.286	0.0169	0.0422		mg/Kg-dry	1	07/07/15 10:32 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	32.8	5.99	12.0		mg/Kg-dry	50	07/07/15 06:59 PM
Barium	325	5.99	24.0		mg/Kg-dry	50	07/07/15 06:59 PM
Cadmium	8.47	1.20	3.60		mg/Kg-dry	50	07/07/15 06:59 PM
Chromium	61.6	5.99	24.0		mg/Kg-dry	50	07/07/15 06:59 PM
Lead	676	1.20	3.60		mg/Kg-dry	50	07/07/15 06:59 PM
Selenium	<1.80	1.80	5.99		mg/Kg-dry	50	07/07/15 06:59 PM
Silver	5.80	1.20	2.40		mg/Kg-dry	50	07/07/15 06:59 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **KL**
Acenaphthene	<0.0113	0.0113	0.0225		mg/Kg-dry	2	07/08/15 06:55 PM
Acenaphthylene	<0.0113	0.0113	0.0225		mg/Kg-dry	2	07/08/15 06:55 PM
Anthracene	<0.0113	0.0113	0.0225		mg/Kg-dry	2	07/08/15 06:55 PM
Benzo[a]anthracene	0.0261	0.0113	0.0225		mg/Kg-dry	2	07/08/15 06:55 PM
Benzo[a]pyrene	0.0562	0.0113	0.0225		mg/Kg-dry	2	07/08/15 06:55 PM
Benzo[b]fluoranthene	0.0694	0.0113	0.0225		mg/Kg-dry	2	07/08/15 06:55 PM
Benzo[g,h,i]perylene	0.0535	0.0113	0.0225		mg/Kg-dry	2	07/08/15 06:55 PM
Benzo[k]fluoranthene	0.0516	0.0113	0.0225		mg/Kg-dry	2	07/08/15 06:55 PM
Chrysene	0.0488	0.0113	0.0225		mg/Kg-dry	2	07/08/15 06:55 PM
Dibenz[a,h]anthracene	<0.0113	0.0113	0.0225		mg/Kg-dry	2	07/08/15 06:55 PM
Fluoranthene	0.0640	0.0113	0.0225		mg/Kg-dry	2	07/08/15 06:55 PM
Fluorene	<0.0113	0.0113	0.0225		mg/Kg-dry	2	07/08/15 06:55 PM
Indeno[1,2,3-cd]pyrene	0.0551	0.0113	0.0225		mg/Kg-dry	2	07/08/15 06:55 PM
Naphthalene	<0.0113	0.0113	0.0225		mg/Kg-dry	2	07/08/15 06:55 PM
Phenanthrene	0.0233	0.0113	0.0225		mg/Kg-dry	2	07/08/15 06:55 PM
Pyrene	0.0592	0.0113	0.0225		mg/Kg-dry	2	07/08/15 06:55 PM
Surr: 2-Fluorobiphenyl	67.0	0	43-125		%REC	2	07/08/15 06:55 PM
Surr: 4-Terphenyl-d14	75.7	0	32-125		%REC	2	07/08/15 06:55 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	19.0	0	0		WT%	1	06/30/15 09:06 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150518A**

Sample ID	**DCS-69522**	Batch ID:	**69522**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**CETAC2_HG_150518A**	Analysis Date:	**5/18/2015 10:45:47 AM**	Prep Date:	**5/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0199	0.0400	0.02000	0	99.5	60	140	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150629B**

The QC data in batch 70215 applies to the following samples: 1506293-01A, 1506293-02A, 1506293-03A, 1506293-04A, 1506293-05A, 1506293-06A, 1506293-07A, 1506293-08A

Sample ID	**MB-70215**	Batch ID:	**70215**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**CETAC2_HG_150629B**	Analysis Date:	**6/29/2015 2:59:38 PM**	Prep Date:	**6/25/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0160	0.0400								

Sample ID	**LCS-70215**	Batch ID:	**70215**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**CETAC2_HG_150629B**	Analysis Date:	**6/29/2015 3:01:54 PM**	Prep Date:	**6/25/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.208	0.0400	0.2000	0	104	85	115			

Sample ID	**LCSD-70215**	Batch ID:	**70215**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**LCSD**	Run ID:	**CETAC2_HG_150629B**	Analysis Date:	**6/29/2015 3:04:10 PM**	Prep Date:	**6/25/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.210	0.0400	0.2000	0	105	85	115	0.957	25	

Sample ID	**1506293-05A SD**	Batch ID:	**70215**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**SD**	Run ID:	**CETAC2_HG_150629B**	Analysis Date:	**6/29/2015 3:18:38 PM**	Prep Date:	**6/25/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.461	1.34	0	0.4623				0.289	10	

Sample ID	**1506293-05A PDS**	Batch ID:	**70215**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**PDS**	Run ID:	**CETAC2_HG_150629B**	Analysis Date:	**6/29/2015 3:20:53 PM**	Prep Date:	**6/25/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	2.17	0.267	1.670	0.4623	102	85	115			

Sample ID	**1506293-05A MS**	Batch ID:	**70215**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**CETAC2_HG_150629B**	Analysis Date:	**6/29/2015 3:23:09 PM**	Prep Date:	**6/25/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.811	0.264	0.2637	0.4623	132	80	120			S

Sample ID	**1506293-05A MSD**	Batch ID:	**70215**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**CETAC2_HG_150629B**	Analysis Date:	**6/29/2015 3:25:25 PM**	Prep Date:	**6/25/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.739	0.271	0.2713	0.4623	102	80	120	9.24	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150629B**

Sample ID	**ICV-150629**	Batch ID:	**R80342**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**CETAC2_HG_150629B**	Analysis Date:	**6/29/2015 2:55:04 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00408	0.0400	0.004000	0	102	90	110			

Sample ID	**CCV1-150629**	Batch ID:	**R80342**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150629B**	Analysis Date:	**6/29/2015 3:48:06 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00210	0.0400	0.002000	0	105	90	110			

Sample ID	**CCV2-150629**	Batch ID:	**R80342**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150629B**	Analysis Date:	**6/29/2015 4:15:25 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00210	0.0400	0.002000	0	105	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150707A**

The QC data in batch 70317 applies to the following samples: 1506293-09A, 1506293-10A, 1506293-11A, 1506293-12A, 1506293-13A, 1506293-14A, 1506293-15A, 1506293-16A, 1506293-17A, 1506293-18A, 1506293-19A, 1506293-20A, 1506293-21A, 1506293-22A

Sample ID **MB-70317** Batch ID: **70317** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **MBLK** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 9:40:40 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0160	0.0400								

Sample ID **LCS-70317** Batch ID: **70317** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCS** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 9:42:56 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.204	0.0400	0.2000	0	102	85	115			

Sample ID **LCSD-70317** Batch ID: **70317** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCSD** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 9:45:12 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.205	0.0400	0.2000	0	103	85	115	0.489	25	

Sample ID **1506310-01A SD** Batch ID: **70317** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 9:49:45 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0659	0.193	0	0.06757				2.45	10	

Sample ID **1506310-01A PDS** Batch ID: **70317** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 9:52:00 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.299	0.0385	0.2406	0.06757	96.3	85	115			

Sample ID **1506310-01A MS** Batch ID: **70317** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 9:54:16 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.256	0.0371	0.1855	0.06757	102	80	120			

Sample ID **1506310-01A MSD** Batch ID: **70317** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 9:56:32 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.277	0.0411	0.2053	0.06757	102	80	120	7.95	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150707A**

Sample ID	**ICV-150707**	Batch ID:	**R80463**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**CETAC2_HG_150707A**	Analysis Date:	**7/7/2015 9:36:06 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00401	0.0400	0.004000	0	100	90	110			

Sample ID	**CCV1-150707**	Batch ID:	**R80463**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150707A**	Analysis Date:	**7/7/2015 10:19:14 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00201	0.0400	0.002000	0	101	90	110			

Sample ID	**CCV2-150707**	Batch ID:	**R80463**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150707A**	Analysis Date:	**7/7/2015 10:46:33 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00202	0.0400	0.002000	0	101	90	110			

Sample ID	**CCV4-150707**	Batch ID:	**R80463**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150707A**	Analysis Date:	**7/7/2015 11:57:37 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00199	0.0400	0.002000	0	99.5	90	110			

Sample ID	**CCV5-150707**	Batch ID:	**R80463**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150707A**	Analysis Date:	**7/7/2015 12:26:26 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00200	0.0400	0.002000	0	100	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150507A**

Sample ID	**DCS2-69397**	Batch ID:	**69397**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS2**	Run ID:	**ICP-MS4_150507A**	Analysis Date:	**5/7/2015 10:58:00 AM**	Prep Date:	**5/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	1.07	0.200	1.000	0	107	80	120	0	0	

Sample ID	**DCS3-69397**	Batch ID:	**69397**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS2**	Run ID:	**ICP-MS4_150507A**	Analysis Date:	**5/7/2015 11:00:00 AM**	Prep Date:	**5/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	5.19	1.00	5.000	0	104	80	120	0	0	
Barium	5.12	2.00	5.000	0	102	80	120	0	0	
Cadmium	5.22	0.300	5.000	0	104	80	120	0	0	
Chromium	5.38	2.00	5.000	0	108	80	120	0	0	
Lead	5.15	0.300	5.000	0	103	80	120	0	0	
Selenium	5.16	0.500	5.000	0	103	80	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150701B**

The QC data in batch 70255 applies to the following samples: 1506293-01A, 1506293-02A, 1506293-03A, 1506293-04A, 1506293-05A, 1506293-06A, 1506293-07A, 1506293-08A, 1506293-09A, 1506293-10A, 1506293-11A

Sample ID	**MB-70255**	Batch ID:	**70255**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**ICP-MS4_150701B**	Analysis Date:	**7/1/2015 3:28:00 PM**	Prep Date:	**6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Lead	<0.100	0.300								
Selenium	<0.150	0.500								
Silver	<0.100	0.200								

Sample ID	**LCS-70255**	Batch ID:	**70255**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**ICP-MS4_150701B**	Analysis Date:	**7/1/2015 3:30:00 PM**	Prep Date:	**6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	48.7	1.00	50.00	0	97.3	80	120			
Barium	50.3	2.00	50.00	0	101	80	120			
Cadmium	50.3	0.300	50.00	0	101	80	120			
Chromium	53.5	2.00	50.00	0	107	80	120			
Lead	50.1	0.300	50.00	0	100	80	120			
Selenium	47.2	0.500	50.00	0	94.4	80	120			
Silver	53.4	0.200	50.00	0	107	80	120			

Sample ID	**LCSD-70255**	Batch ID:	**70255**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**LCSD**	Run ID:	**ICP-MS4_150701B**	Analysis Date:	**7/1/2015 3:32:00 PM**	Prep Date:	**6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	48.8	1.00	50.00	0	97.6	80	120	0.320	20	
Barium	50.2	2.00	50.00	0	100	80	120	0.245	20	
Cadmium	50.0	0.300	50.00	0	100	80	120	0.616	20	
Chromium	53.7	2.00	50.00	0	107	80	120	0.323	20	
Lead	50.0	0.300	50.00	0	100	80	120	0.146	20	
Selenium	47.4	0.500	50.00	0	94.9	80	120	0.538	20	
Silver	53.5	0.200	50.00	0	107	80	120	0.160	20	

Sample ID	**1506293-05A PDS**	Batch ID:	**70255**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**PDS**	Run ID:	**ICP-MS4_150701B**	Analysis Date:	**7/1/2015 3:57:00 PM**	Prep Date:	**6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	81.0	1.28	64.17	19.14	96.4	80	120			
Barium	1750	2.57	64.17	1691	97.7	80	120			
Cadmium	67.7	0.385	64.17	3.000	101	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150701B**

Sample ID **1506293-05A PDS** Batch ID: **70255** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **ICP-MS4_150701B** Analysis Date: **7/1/2015 3:57:00 PM** Prep Date: **6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	251	2.57	64.17	176.0	117	80	120			
Lead	4010	0.385	64.17	3893	187	80	120			S
Selenium	60.5	0.642	64.17	0.5130	93.4	80	120			
Silver	69.8	0.257	64.17	2.522	105	80	120			

Sample ID **1506293-05A MS** Batch ID: **70255** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **ICP-MS4_150701B** Analysis Date: **7/1/2015 3:59:00 PM** Prep Date: **6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	86.4	1.33	66.59	19.14	101	80	120			
Barium	3360	2.66	66.59	1691	2500	80	120			S
Cadmium	72.8	0.400	66.59	3.000	105	80	120			
Chromium	260	2.66	66.59	176.0	126	80	120			S
Lead	2190	0.400	66.59	3893	-2560	80	120			S
Selenium	64.2	0.666	66.59	0.5130	95.7	80	120			
Silver	76.1	0.266	66.59	2.522	110	80	120			

Sample ID **1506293-05A MSD** Batch ID: **70255** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **ICP-MS4_150701B** Analysis Date: **7/1/2015 4:01:00 PM** Prep Date: **6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	94.3	1.33	66.59	19.14	113	80	120	8.81	20	
Barium	2460	2.66	66.59	1691	1150	80	120	30.9	20	SR
Cadmium	71.9	0.400	66.59	3.000	103	80	120	1.37	20	
Chromium	297	2.66	66.59	176.0	181	80	120	13.2	20	S
Lead	1870	0.400	66.59	3893	-3040	80	120	15.7	20	S
Selenium	63.8	0.666	66.59	0.5130	95.0	80	120	0.718	20	
Silver	74.0	0.266	66.59	2.522	107	80	120	2.82	20	

Sample ID **1506293-05A SD** Batch ID: **70255** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS4_150701B** Analysis Date: **7/1/2015 3:38:00 PM** Prep Date: **6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	18.9	6.42	0	19.14				1.04	10	
Barium	1610	12.8	0	1691				4.60	10	
Cadmium	2.93	1.93	0	3.000				2.49	10	
Chromium	177	12.8	0	176.0				0.354	10	
Lead	3940	1.93	0	3893				1.24	10	
Selenium	<0.963	3.21	0	0.5130				0	10	
Silver	2.52	1.28	0	2.522				0.242	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150701B**

Sample ID **ICV-150701** Batch ID: **R80400** TestNo: **SW6020A** Units: **mg/L**
SampType: **ICV** Run ID: **ICP-MS4_150701B** Analysis Date: **7/1/2015 10:29:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0991	0.00500	0.100	0	99.1	90	110			
Barium	0.100	0.0100	0.100	0	100	90	110			
Cadmium	0.101	0.00100	0.100	0	101	90	110			
Chromium	0.105	0.00500	0.100	0	105	90	110			
Lead	0.101	0.00100	0.100	0	101	90	110			
Selenium	0.0978	0.00500	0.100	0	97.8	90	110			
Silver	0.106	0.00200	0.100	0	106	90	110			

Sample ID **LCVL-150701** Batch ID: **R80400** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150701B** Analysis Date: **7/1/2015 10:34:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00493	0.00500	0.00500	0	98.6	70	130			
Barium	0.00461	0.0100	0.00500	0	92.2	70	130			
Cadmium	0.000887	0.00100	0.00100	0	88.7	70	130			
Chromium	0.00516	0.00500	0.00500	0	103	70	130			
Lead	0.000983	0.00100	0.00100	0	98.3	70	130			
Selenium	0.00479	0.00500	0.00500	0	95.8	70	130			
Silver	0.00196	0.00200	0.00200	0	98.2	70	130			

Sample ID **CCV5-150701** Batch ID: **R80400** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150701B** Analysis Date: **7/1/2015 2:45:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.198	0.00500	0.200	0	99.0	90	110			
Barium	0.200	0.0100	0.200	0	99.8	90	110			
Cadmium	0.201	0.00100	0.200	0	100	90	110			
Chromium	0.211	0.00500	0.200	0	106	90	110			
Lead	0.199	0.00100	0.200	0	99.5	90	110			
Selenium	0.194	0.00500	0.200	0	97.1	90	110			
Silver	0.213	0.00200	0.200	0	106	90	110			

Sample ID **LCVL5-150701** Batch ID: **R80400** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150701B** Analysis Date: **7/1/2015 3:16:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00489	0.00500	0.00500	0	97.7	70	130			
Barium	0.00479	0.0100	0.00500	0	95.8	70	130			
Cadmium	0.000941	0.00100	0.00100	0	94.1	70	130			
Chromium	0.00526	0.00500	0.00500	0	105	70	130			
Lead	0.000833	0.00100	0.00100	0	83.3	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150701B**

Sample ID **LCVL5-150701** Batch ID: **R80400** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150701B** Analysis Date: **7/1/2015 3:16:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.00453	0.00500	0.00500	0	90.5	70	130			
Silver	0.00196	0.00200	0.00200	0	98.2	70	130			

Sample ID **CCV6-150701** Batch ID: **R80400** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150701B** Analysis Date: **7/1/2015 4:13:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.204	0.00500	0.200	0	102	90	110			
Barium	0.200	0.0100	0.200	0	100	90	110			
Cadmium	0.203	0.00100	0.200	0	101	90	110			
Chromium	0.217	0.00500	0.200	0	108	90	110			
Lead	0.200	0.00100	0.200	0	100	90	110			
Selenium	0.195	0.00500	0.200	0	97.3	90	110			
Silver	0.219	0.00200	0.200	0	110	90	110			

Sample ID **LCVL6-150701** Batch ID: **R80400** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150701B** Analysis Date: **7/1/2015 4:27:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00497	0.00500	0.00500	0	99.3	70	130			
Barium	0.00491	0.0100	0.00500	0	98.3	70	130			
Cadmium	0.00105	0.00100	0.00100	0	105	70	130			
Chromium	0.00547	0.00500	0.00500	0	109	70	130			
Lead	0.00127	0.00100	0.00100	0	127	70	130			
Selenium	0.00476	0.00500	0.00500	0	95.2	70	130			
Silver	0.00211	0.00200	0.00200	0	105	70	130			

Sample ID **CCV7-150701** Batch ID: **R80400** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150701B** Analysis Date: **7/1/2015 4:51:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.198	0.00500	0.200	0	99.1	90	110			
Cadmium	0.205	0.00100	0.200	0	102	90	110			
Chromium	0.214	0.00500	0.200	0	107	90	110			
Selenium	0.192	0.00500	0.200	0	96.2	90	110			
Silver	0.220	0.00200	0.200	0	110	90	110			

Sample ID **LCVL7-150701** Batch ID: **R80400** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150701B** Analysis Date: **7/1/2015 6:39:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150701B**

Sample ID	**LCVL7-150701**	Batch ID:	**R80400**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150701B**	Analysis Date:	**7/1/2015 6:39:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00478	0.00500	0.00500	0	95.6	70	130			
Cadmium	0.000953	0.00100	0.00100	0	95.3	70	130			
Chromium	0.00521	0.00500	0.00500	0	104	70	130			
Selenium	0.00476	0.00500	0.00500	0	95.2	70	130			
Silver	0.00199	0.00200	0.00200	0	99.6	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150702B**

Sample ID	**ICV-150702**	Batch ID:	**R80431**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**ICP-MS4_150702B**	Analysis Date:	**7/2/2015 10:21:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0989	0.0100	0.100	0	98.9	90	110			
Lead	0.101	0.00100	0.100	0	101	90	110			

Sample ID	**LCVL-150702**	Batch ID:	**R80431**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150702B**	Analysis Date:	**7/2/2015 10:29:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00482	0.0100	0.00500	0	96.4	70	130			
Lead	0.00105	0.00100	0.00100	0	105	70	130			

Sample ID	**CCV2-150702**	Batch ID:	**R80431**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150702B**	Analysis Date:	**7/2/2015 11:25:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.203	0.0100	0.200	0	101	90	110			
Lead	0.208	0.00100	0.200	0	104	90	110			

Sample ID	**LCVL2-150702**	Batch ID:	**R80431**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150702B**	Analysis Date:	**7/2/2015 11:40:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00495	0.0100	0.00500	0	99.0	70	130			
Lead	0.00119	0.00100	0.00100	0	119	70	130			

Sample ID	**CCV3-150701**	Batch ID:	**R80431**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150702B**	Analysis Date:	**7/2/2015 12:23:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.201	0.0100	0.200	0	100	90	110			
Lead	0.200	0.00100	0.200	0	100	90	110			

Sample ID	**LCVL3-150701**	Batch ID:	**R80431**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150702B**	Analysis Date:	**7/2/2015 12:43:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00488	0.0100	0.00500	0	97.5	70	130			
Lead	0.00129	0.00100	0.00100	0	129	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150707D**

The QC data in batch 70261 applies to the following samples: 1506293-12A, 1506293-13A, 1506293-14A, 1506293-15A, 1506293-16A, 1506293-17A, 1506293-18A, 1506293-19A, 1506293-20A, 1506293-21A, 1506293-22A

Sample ID	**MB-70261**	Batch ID:	**70261**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**ICP-MS4_150707D**	Analysis Date:	**7/7/2015 5:58:00 PM**	Prep Date:	**7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Lead	0.104	0.300								
Selenium	<0.150	0.500								
Silver	<0.100	0.200								

Sample ID	**LCS-70261**	Batch ID:	**70261**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**ICP-MS4_150707D**	Analysis Date:	**7/7/2015 6:00:00 PM**	Prep Date:	**7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.4	1.00	50.00	0	101	80	120			
Barium	48.9	2.00	50.00	0	97.7	80	120			
Cadmium	48.7	0.300	50.00	0	97.5	80	120			
Chromium	51.2	2.00	50.00	0	102	80	120			
Lead	49.8	0.300	50.00	0	99.5	80	120			
Selenium	50.4	0.500	50.00	0	101	80	120			
Silver	50.6	0.200	50.00	0	101	80	120			

Sample ID	**LCSD-70261**	Batch ID:	**70261**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**LCSD**	Run ID:	**ICP-MS4_150707D**	Analysis Date:	**7/7/2015 6:02:00 PM**	Prep Date:	**7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	51.2	1.00	50.00	0	102	80	120	1.66	20	
Barium	50.6	2.00	50.00	0	101	80	120	3.49	20	
Cadmium	50.7	0.300	50.00	0	101	80	120	3.96	20	
Chromium	51.9	2.00	50.00	0	104	80	120	1.39	20	
Lead	50.5	0.300	50.00	0	101	80	120	1.49	20	
Selenium	50.6	0.500	50.00	0	101	80	120	0.551	20	
Silver	52.3	0.200	50.00	0	105	80	120	3.33	20	

Sample ID	**1506310-01A SD**	Batch ID:	**70261**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**SD**	Run ID:	**ICP-MS4_150707D**	Analysis Date:	**7/7/2015 6:08:00 PM**	Prep Date:	**7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<25.0	50.1	0	0				0	10	
Barium	138	100	0	140.3				2.00	10	
Cadmium	<5.01	15.0	0	0				0	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150707D**

Sample ID **1506310-01A SD** Batch ID: **70261** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 6:08:00 PM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	<25.0	100	0	17.59				0	10	
Lead	152	15.0	0	149.3				1.75	10	
Selenium	<7.51	25.0	0	0				0	10	
Silver	<5.01	10.0	0	0				0	10	

Sample ID **1506310-01A PDS** Batch ID: **70261** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 6:28:00 PM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	526	10.0	501.0	0	105	80	120			
Barium	654	20.0	501.0	140.3	103	80	120			
Cadmium	511	3.01	501.0	0	102	80	120			
Chromium	540	20.0	501.0	17.59	104	80	120			
Lead	682	3.01	501.0	149.3	106	80	120			
Selenium	507	5.01	501.0	0	101	80	120			
Silver	533	2.00	501.0	0	106	80	120			

Sample ID **1506310-01A MS** Batch ID: **70261** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 6:30:00 PM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	55.2	10.2	51.06	0	108	80	120			
Barium	201	20.4	51.06	140.3	120	80	120			
Cadmium	50.5	3.06	51.06	0	99.0	80	120			
Chromium	63.8	20.4	51.06	17.59	90.6	80	120			
Lead	216	3.06	51.06	149.3	131	80	120			S
Selenium	51.6	5.11	51.06	0	101	80	120			
Silver	50.4	2.04	51.06	0	98.7	80	120			

Sample ID **1506310-01A MSD** Batch ID: **70261** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 6:31:00 PM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	55.5	10.3	51.56	0	108	80	120	0.503	20	
Barium	180	20.6	51.56	140.3	76.6	80	120	11.4	20	S
Cadmium	50.9	3.09	51.56	0	98.8	80	120	0.759	20	
Chromium	67.5	20.6	51.56	17.59	96.8	80	120	5.55	20	
Lead	187	3.09	51.56	149.3	72.5	80	120	14.7	20	S
Selenium	50.7	5.16	51.56	0	98.4	80	120	1.67	20	
Silver	50.7	2.06	51.56	0	98.4	80	120	0.702	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150707D**

Sample ID **ICV2-150707** Batch ID: **R80483** TestNo: **SW6020A** Units: **mg/L**
SampType: **ICV** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 5:48:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.100	0.00500	0.100	0	100	90	110			
Barium	0.0993	0.0100	0.100	0	99.3	90	110			
Cadmium	0.100	0.00100	0.100	0	100	90	110			
Chromium	0.103	0.00500	0.100	0	103	90	110			
Lead	0.0995	0.00100	0.100	0	99.5	90	110			
Selenium	0.0983	0.00500	0.100	0	98.3	90	110			
Silver	0.102	0.00200	0.100	0	102	90	110			

Sample ID **ILCVL2-150707** Batch ID: **R80483** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 5:52:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00488	0.00500	0.00500	0	97.6	70	130			
Barium	0.00480	0.0100	0.00500	0	95.9	70	130			
Cadmium	0.000987	0.00100	0.00100	0	98.7	70	130			
Chromium	0.00514	0.00500	0.00500	0	103	70	130			
Lead	0.00105	0.00100	0.00100	0	105	70	130			
Selenium	0.00424	0.00500	0.00500	0	84.9	70	130			
Silver	0.00196	0.00200	0.00200	0	98.0	70	130			

Sample ID **CCV1-150707** Batch ID: **R80483** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 6:41:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.200	0.00500	0.200	0	99.8	90	110			
Barium	0.197	0.0100	0.200	0	98.6	90	110			
Cadmium	0.200	0.00100	0.200	0	99.8	90	110			
Chromium	0.204	0.00500	0.200	0	102	90	110			
Lead	0.199	0.00100	0.200	0	99.6	90	110			
Selenium	0.199	0.00500	0.200	0	99.7	90	110			
Silver	0.203	0.00200	0.200	0	102	90	110			

Sample ID **LCVL1-150707** Batch ID: **R80483** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 6:51:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00485	0.00500	0.00500	0	97.0	70	130			
Barium	0.00482	0.0100	0.00500	0	96.5	70	130			
Cadmium	0.00100	0.00100	0.00100	0	100	70	130			
Chromium	0.00512	0.00500	0.00500	0	102	70	130			
Lead	0.00126	0.00100	0.00100	0	126	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150707D**

Sample ID **LCVL1-150707** Batch ID: **R80483** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 6:51:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.00394	0.00500	0.00500	0	78.9	70	130			
Silver	0.00196	0.00200	0.00200	0	98.2	70	130			

Sample ID **CCV2-150707** Batch ID: **R80483** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 7:23:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.200	0.00500	0.200	0	100	90	110			
Barium	0.200	0.0100	0.200	0	99.9	90	110			
Cadmium	0.200	0.00100	0.200	0	100	90	110			
Chromium	0.201	0.00500	0.200	0	101	90	110			
Lead	0.199	0.00100	0.200	0	99.3	90	110			
Selenium	0.200	0.00500	0.200	0	99.8	90	110			
Silver	0.204	0.00200	0.200	0	102	90	110			

Sample ID **LCVL2-150707** Batch ID: **R80483** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 7:33:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00485	0.00500	0.00500	0	97.0	70	130			
Barium	0.00470	0.0100	0.00500	0	94.0	70	130			
Cadmium	0.000981	0.00100	0.00100	0	98.1	70	130			
Chromium	0.00513	0.00500	0.00500	0	103	70	130			
Lead	0.00129	0.00100	0.00100	0	129	70	130			
Selenium	0.00419	0.00500	0.00500	0	83.9	70	130			
Silver	0.00197	0.00200	0.00200	0	98.6	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150708B**

Sample ID	**ICV-150708**	Batch ID:	**R80492**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**ICP-MS4_150708B**	Analysis Date:	**7/8/2015 11:00:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.103	0.00100	0.100	0	103	90	110			

Sample ID	**LCVL-150708**	Batch ID:	**R80492**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150708B**	Analysis Date:	**7/8/2015 11:05:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.00106	0.00100	0.00100	0	106	70	130			

Sample ID	**CCV1-150708**	Batch ID:	**R80492**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150708B**	Analysis Date:	**7/8/2015 11:42:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.204	0.00100	0.200	0	102	90	110			

Sample ID	**LCVL1-150708**	Batch ID:	**R80492**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150708B**	Analysis Date:	**7/8/2015 11:52:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.00110	0.00100	0.00100	0	110	70	130			

Sample ID	**CCV5-150708**	Batch ID:	**R80492**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150708B**	Analysis Date:	**7/8/2015 2:04:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.204	0.00100	0.200	0	102	90	110			

Sample ID	**LCVL5-150708**	Batch ID:	**R80492**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150708B**	Analysis Date:	**7/8/2015 2:08:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.00108	0.00100	0.00100	0	108	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS4_150422B**

Sample ID	**DCS-69050**	Batch ID:	**69050**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**GCMS4_150422B**	Analysis Date:	**4/22/2015 2:42:00 PM**	Prep Date:	**4/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00721	0.0100	0.01000	0	72.1	20	200	0	0	
Acenaphthylene	0.00920	0.0100	0.01000	0	92.0	20	200	0	0	
Anthracene	0.00829	0.0100	0.01000	0	82.9	20	200	0	0	
Benzo[a]anthracene	0.00650	0.0100	0.01000	0	65.0	20	200	0	0	
Benzo[a]pyrene	0.00964	0.0100	0.01000	0	96.4	20	200	0	0	
Benzo[b]fluoranthene	0.00845	0.0100	0.01000	0	84.5	20	200	0	0	
Benzo[g,h,i]perylene	0.00636	0.0100	0.01000	0	63.6	20	200	0	0	
Benzo[k]fluoranthene	0.00761	0.0100	0.01000	0	76.1	20	200	0	0	
Chrysene	0.00300	0.0100	0.01000	0	30.0	20	200	0	0	
Dibenz[a,h]anthracene	0.00785	0.0100	0.01000	0	78.5	20	200	0	0	
Fluoranthene	0.00543	0.0100	0.01000	0	54.3	20	200	0	0	
Fluorene	0.00817	0.0100	0.01000	0	81.7	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.00871	0.0100	0.01000	0	87.1	20	200	0	0	
Naphthalene	0.00651	0.0100	0.01000	0	65.1	20	200	0	0	
Phenanthrene	0.00588	0.0100	0.01000	0	58.8	20	200	0	0	
Pyrene	0.00645	0.0100	0.01000	0	64.5	20	200	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS4_150708A**

The QC data in batch 70332 applies to the following samples: 1506293-21A, 1506293-22A

Sample ID **LCS-70332** Batch ID: **70332** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS4_150708A** Analysis Date: **7/8/2015 10:41:00 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.900	0.0100	1.000	0	90.0	46	125			
Acenaphthylene	0.865	0.0100	1.000	0	86.5	44	125			
Anthracene	0.997	0.0100	1.000	0	99.7	53	125			
Benzo[a]anthracene	1.07	0.0100	1.000	0	107	52	125			
Benzo[a]pyrene	1.03	0.0100	1.000	0	103	50	125			
Benzo[b]fluoranthene	1.00	0.0100	1.000	0	100	45	125			
Benzo[g,h,i]perylene	1.06	0.0100	1.000	0	106	38	126			
Benzo[k]fluoranthene	1.01	0.0100	1.000	0	101	45	125			
Chrysene	0.951	0.0100	1.000	0	95.1	53	125			
Dibenz[a,h]anthracene	1.01	0.0100	1.000	0	101	41	125			
Fluoranthene	0.908	0.0100	1.000	0	90.8	54	125			
Fluorene	0.933	0.0100	1.000	0	93.3	49	125			
Indeno[1,2,3-cd]pyrene	1.06	0.0100	1.000	0	106	38	125			
Naphthalene	0.826	0.0100	1.000	0	82.6	40	125			
Phenanthrene	0.889	0.0100	1.000	0	88.9	50	125			
Pyrene	1.01	0.0100	1.000	0	101	46	125			
Surr: 2-Fluorobiphenyl	0.789		1.000		78.9	43	125			
Surr: 4-Terphenyl-d14	0.747		1.000		74.7	32	125			

Sample ID **MB-70332** Batch ID: **70332** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS4_150708A** Analysis Date: **7/8/2015 12:45:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100								
Acenaphthylene	<0.00500	0.0100								
Anthracene	<0.00500	0.0100								
Benzo[a]anthracene	<0.00500	0.0100								
Benzo[a]pyrene	<0.00500	0.0100								
Benzo[b]fluoranthene	<0.00500	0.0100								
Benzo[g,h,i]perylene	<0.00500	0.0100								
Benzo[k]fluoranthene	<0.00500	0.0100								
Chrysene	<0.00500	0.0100								
Dibenz[a,h]anthracene	<0.00500	0.0100								
Fluoranthene	<0.00500	0.0100								
Fluorene	<0.00500	0.0100								
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100								
Naphthalene	<0.00500	0.0100								
Phenanthrene	<0.00500	0.0100								
Pyrene	<0.00500	0.0100								
Surr: 2-Fluorobiphenyl	0.850		1.000		85.0	43	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS4_150708A**

Sample ID **MB-70332**	Batch ID: **70332**	TestNo: **SW8270D-LL**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GCMS4_150708A**	Analysis Date: **7/8/2015 12:45:00 PM**	Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	0.871		1.000		87.1	32	125			

Sample ID **1506310-01BMS**	Batch ID: **70332**	TestNo: **SW8270D-LL**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GCMS4_150708A**	Analysis Date: **7/8/2015 7:56:00 PM**	Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.822	0.201	1.007	0	81.7	46	125			
Acenaphthylene	0.786	0.201	1.007	0	78.1	44	125			
Anthracene	0.904	0.201	1.007	0	89.8	53	125			
Benzo[a]anthracene	1.38	0.201	1.007	0.6907	68.3	52	125			
Benzo[a]pyrene	1.40	0.201	1.007	0.7928	59.9	50	125			
Benzo[b]fluoranthene	1.56	0.201	1.007	1.034	52.2	45	125			
Benzo[g,h,i]perylene	0.984	0.201	1.007	0.7229	26.0	38	126			S
Benzo[k]fluoranthene	1.28	0.201	1.007	0.6081	66.9	45	125			
Chrysene	1.28	0.201	1.007	0.7460	53.4	53	125			
Dibenz[a,h]anthracene	0.826	0.201	1.007	0	82.0	41	125			
Fluoranthene	1.60	0.201	1.007	1.209	38.8	54	125			S
Fluorene	0.816	0.201	1.007	0	81.1	49	125			
Indeno[1,2,3-cd]pyrene	1.19	0.201	1.007	0.7939	38.9	38	125			
Naphthalene	0.774	0.201	1.007	0	76.9	40	125			
Phenanthrene	1.07	0.201	1.007	0.4686	59.3	50	125			
Pyrene	1.65	0.201	1.007	1.087	55.8	46	125			
Surr: 2-Fluorobiphenyl	0.714		1.007		70.9	43	125			
Surr: 4-Terphenyl-d14	0.682		1.007		67.7	32	125			

Sample ID **1506310-01BMSD**	Batch ID: **70332**	TestNo: **SW8270D-LL**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GCMS4_150708A**	Analysis Date: **7/8/2015 8:27:00 PM**	Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.889	0.203	1.017	0	87.4	46	125	7.86	30	
Acenaphthylene	0.868	0.203	1.017	0	85.3	44	125	9.92	30	
Anthracene	1.00	0.203	1.017	0	98.3	53	125	10.1	30	
Benzo[a]anthracene	1.48	0.203	1.017	0.6907	77.3	52	125	6.93	30	
Benzo[a]pyrene	1.53	0.203	1.017	0.7928	72.0	50	125	8.89	30	
Benzo[b]fluoranthene	1.77	0.203	1.017	1.034	71.8	45	125	12.3	30	
Benzo[g,h,i]perylene	1.14	0.203	1.017	0.7229	40.9	38	126	14.5	30	
Benzo[k]fluoranthene	1.37	0.203	1.017	0.6081	75.0	45	125	6.69	30	
Chrysene	1.37	0.203	1.017	0.7460	61.0	53	125	6.32	30	
Dibenz[a,h]anthracene	0.865	0.203	1.017	0	85.0	41	125	4.64	30	
Fluoranthene	1.69	0.203	1.017	1.209	46.8	54	125	5.21	30	S
Fluorene	0.921	0.203	1.017	0	90.6	49	125	12.1	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS4_150708A**

Sample ID	**1506310-01BMSD**	Batch ID:	**70332**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**GCMS4_150708A**	Analysis Date:	**7/8/2015 8:27:00 PM**	Prep Date:	**7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Indeno[1,2,3-cd]pyrene	1.23	0.203	1.017	0.7939	42.9	38	125	3.73	30	
Naphthalene	0.835	0.203	1.017	0	82.0	40	125	7.54	30	
Phenanthrene	1.20	0.203	1.017	0.4686	71.7	50	125	11.7	30	
Pyrene	1.71	0.203	1.017	1.087	60.8	46	125	3.39	30	
Surr: 2-Fluorobiphenyl	0.793		1.017		78.0	43	125	0	0	
Surr: 4-Terphenyl-d14	0.756		1.017		74.4	32	125	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS4_150708A**

Sample ID	**ICV-150708**	Batch ID:	**R80484**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS4_150708A**	Analysis Date:	**7/8/2015 9:33:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.99	0.0100	2.000	0	99.6	80	120			
Acenaphthylene	1.95	0.0100	2.000	0	97.6	80	120			
Anthracene	2.14	0.0100	2.000	0	107	80	120			
Benzo[a]anthracene	2.22	0.0100	2.000	0	111	80	120			
Benzo[a]pyrene	2.18	0.0100	2.000	0	109	80	120			
Benzo[b]fluoranthene	2.29	0.0100	2.000	0	114	80	120			
Benzo[g,h,i]perylene	2.18	0.0100	2.000	0	109	80	120			
Benzo[k]fluoranthene	1.93	0.0100	2.000	0	96.6	80	120			
Chrysene	1.97	0.0100	2.000	0	98.3	80	120			
Dibenz[a,h]anthracene	2.20	0.0100	2.000	0	110	80	120			
Fluoranthene	1.98	0.0100	2.000	0	98.8	80	120			
Fluorene	2.00	0.0100	2.000	0	100	80	120			
Indeno[1,2,3-cd]pyrene	2.22	0.0100	2.000	0	111	80	120			
Naphthalene	1.90	0.0100	2.000	0	94.9	80	120			
Phenanthrene	1.89	0.0100	2.000	0	94.7	80	120			
Pyrene	2.36	0.0100	2.000	0	118	80	120			
Surr: 2-Fluorobiphenyl	1.97		2.000		98.6	65	120			
Surr: 4-Terphenyl-d14	2.00		2.000		100	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150521C**

Sample ID	**DCS-69610**	Batch ID:	**69610**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**GCMS6_150521C**	Analysis Date:	**5/21/2015 11:00:00 PM**	Prep Date:	**5/14/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0100	0.0100	0.01000	0	100	20	200	0	0	
Acenaphthylene	0.00989	0.0100	0.01000	0	98.9	20	200	0	0	
Anthracene	0.00988	0.0100	0.01000	0	98.8	20	200	0	0	
Benzo[a]anthracene	0.0103	0.0100	0.01000	0	103	20	200	0	0	
Benzo[a]pyrene	0.00930	0.0100	0.01000	0	93.0	20	200	0	0	
Benzo[b]fluoranthene	0.0102	0.0100	0.01000	0	102	20	200	0	0	
Benzo[g,h,i]perylene	0.00918	0.0100	0.01000	0	91.8	20	200	0	0	
Benzo[k]fluoranthene	0.00970	0.0100	0.01000	0	97.0	20	200	0	0	
Chrysene	0.00955	0.0100	0.01000	0	95.5	20	200	0	0	
Dibenz[a,h]anthracene	0.00875	0.0100	0.01000	0	87.5	20	200	0	0	
Fluoranthene	0.0106	0.0100	0.01000	0	106	20	200	0	0	
Fluorene	0.0126	0.0100	0.01000	0	126	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.00913	0.0100	0.01000	0	91.3	20	200	0	0	
Naphthalene	0.0108	0.0100	0.01000	0	108	20	200	0	0	
Phenanthrene	0.0105	0.0100	0.01000	0	105	20	200	0	0	
Pyrene	0.0104	0.0100	0.01000	0	104	20	200	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150707A**

The QC data in batch 70328 applies to the following samples: 1506293-01A, 1506293-02A, 1506293-03A, 1506293-04A, 1506293-05A, 1506293-06A, 1506293-07A, 1506293-08A, 1506293-09A, 1506293-10A, 1506293-11A, 1506293-12A, 1506293-13A, 1506293-14A, 1506293-15A, 1506293-16A, 1506293-17A, 1506293-18A, 1506293-19A, 1506293-20A

Sample ID **LCS-70328** Batch ID: **70328** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS6_150707A** Analysis Date: **7/7/2015 3:42:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthylene	1.19	0.0100	1.000	0	119	44	125			
Benzo[a]anthracene	1.29	0.0100	1.000	0	129	52	125			S
Benzo[a]pyrene	1.20	0.0100	1.000	0	120	50	125			
Benzo[k]fluoranthene	1.25	0.0100	1.000	0	125	45	125			
Fluoranthene	1.29	0.0100	1.000	0	129	54	125			S
Fluorene	1.30	0.0100	1.000	0	130	49	125			S
Pyrene	1.34	0.0100	1.000	0	134	46	125			S
Surr: 2-Fluorobiphenyl	0.833		1.000		83.3	43	125			
Surr: 4-Terphenyl-d14	0.872		1.000		87.2	32	125			

Sample ID **MB-70328** Batch ID: **70328** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS6_150707A** Analysis Date: **7/7/2015 4:23:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100								
Acenaphthylene	<0.00500	0.0100								
Anthracene	<0.00500	0.0100								
Benzo[a]anthracene	<0.00500	0.0100								
Benzo[a]pyrene	<0.00500	0.0100								
Benzo[b]fluoranthene	<0.00500	0.0100								
Benzo[g,h,i]perylene	<0.00500	0.0100								
Benzo[k]fluoranthene	<0.00500	0.0100								
Chrysene	<0.00500	0.0100								
Dibenz[a,h]anthracene	<0.00500	0.0100								
Fluoranthene	<0.00500	0.0100								
Fluorene	<0.00500	0.0100								
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100								
Naphthalene	<0.00500	0.0100								
Phenanthrene	<0.00500	0.0100								
Pyrene	<0.00500	0.0100								
Surr: 2-Fluorobiphenyl	0.754		1.000		75.4	43	125			
Surr: 4-Terphenyl-d14	0.787		1.000		78.7	32	125			

Sample ID **1506293-05AMS** Batch ID: **70328** TestNo: **SW8270D-LL** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GCMS6_150707A** Analysis Date: **7/7/2015 5:44:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.55	0.0657	1.314	0.3073	94.4	46	125			
Acenaphthylene	1.63	0.0657	1.314	0.4195	92.1	44	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150707A**

Sample ID **1506293-05AMS** Batch ID: **70328** TestNo: **SW8270D-LL** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GCMS6_150707A** Analysis Date: **7/7/2015 5:44:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Anthracene	2.07	0.0657	1.314	0.9952	81.5	53	125			
Benzo[a]anthracene	4.18	0.0657	1.314	3.583	45.7	52	125			S
Benzo[a]pyrene	3.79	0.0657	1.314	3.159	47.9	50	125			S
Benzo[b]fluoranthene	3.76	0.0657	1.314	3.078	51.7	45	125			
Benzo[g,h,i]perylene	2.80	0.0657	1.314	2.027	58.6	38	126			
Benzo[k]fluoranthene	2.52	0.0657	1.314	1.551	74.0	45	125			
Chrysene	3.86	0.0657	1.314	3.573	22.0	53	125			S
Dibenz[a,h]anthracene	1.58	0.0657	1.314	0.5404	79.2	41	125			
Fluoranthene	6.30	0.0657	1.314	6.182	8.99	54	125			S
Fluorene	1.95	0.0657	1.314	0.4507	114	49	125			
Indeno[1,2,3-cd]pyrene	2.68	0.0657	1.314	1.805	66.4	38	125			
Naphthalene	1.19	0.0657	1.314	0.1560	79.0	40	125			
Phenanthrene	6.17	0.0657	1.314	4.886	97.9	50	125			
Pyrene	5.13	0.0657	1.314	4.866	19.7	46	125			S
Surr: 2-Fluorobiphenyl	0.887		1.314		67.5	43	125			
Surr: 4-Terphenyl-d14	0.713		1.314		54.2	32	125			

Sample ID **1506293-05AMSD** Batch ID: **70328** TestNo: **SW8270D-LL** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS6_150707A** Analysis Date: **7/7/2015 6:24:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	2.08	0.0652	1.305	0.3073	136	46	125	29.2	30	S
Acenaphthylene	2.15	0.0652	1.305	0.4195	132	44	125	27.3	30	S
Anthracene	3.48	0.0652	1.305	0.9952	191	53	125	51.1	30	SR
Benzo[a]anthracene	8.17	0.0652	1.305	3.583	351	52	125	64.5	30	SR
Benzo[a]pyrene	7.13	0.0652	1.305	3.159	305	50	125	61.2	30	SR
Benzo[b]fluoranthene	7.13	0.0652	1.305	3.078	310	45	125	61.9	30	SR
Benzo[g,h,i]perylene	4.96	0.0652	1.305	2.027	225	38	126	55.8	30	SR
Benzo[k]fluoranthene	4.32	0.0652	1.305	1.551	212	45	125	52.4	30	SR
Chrysene	7.59	0.0652	1.305	3.573	308	53	125	65.1	30	SR
Dibenz[a,h]anthracene	2.25	0.0652	1.305	0.5404	131	41	125	35.0	30	SR
Fluoranthene	14.9	0.0652	1.305	6.182	671	54	125	81.3	30	SR
Fluorene	2.54	0.0652	1.305	0.4507	160	49	125	26.3	30	S
Indeno[1,2,3-cd]pyrene	4.62	0.0652	1.305	1.805	216	38	125	53.2	30	SR
Naphthalene	1.63	0.0652	1.305	0.1560	113	40	125	31.0	30	R
Phenanthrene	11.6	0.0652	1.305	4.886	515	50	125	61.1	30	SR
Pyrene	11.6	0.0652	1.305	4.866	515	46	125	77.3	30	SR
Surr: 2-Fluorobiphenyl	0.896		1.305		68.7	43	125	0	0	
Surr: 4-Terphenyl-d14	0.877		1.305		67.2	32	125	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150707A**

Sample ID	**LCS-70328**	Batch ID:	**70328**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**GCMS6_150707A**	Analysis Date:	**7/7/2015 7:05:00 PM**	Prep Date:	**7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.24	0.0100	1.000	0	124	46	125			
Anthracene	1.06	0.0100	1.000	0	106	53	125			
Benzo[b]fluoranthene	1.34	0.0100	1.000	0	134	45	125			S
Benzo[g,h,i]perylene	1.29	0.0100	1.000	0	129	38	126			S
Chrysene	0.887	0.0100	1.000	0	88.7	53	125			
Dibenz[a,h]anthracene	1.20	0.0100	1.000	0	120	41	125			
Indeno[1,2,3-cd]pyrene	1.29	0.0100	1.000	0	129	38	125			S
Naphthalene	1.08	0.0100	1.000	0	108	40	125			
Phenanthrene	1.20	0.0100	1.000	0	120	50	125			
Surr: 2-Fluorobiphenyl	0.933		1.000		93.3	43	125			
Surr: 4-Terphenyl-d14	0.944		1.000		94.4	32	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150707A**

Sample ID	**ICV-150707**	Batch ID:	**R80477**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS6_150707A**	Analysis Date:	**7/7/2015 3:00:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.95	0.0100	2.000	0	97.3	80	120			
Acenaphthylene	1.61	0.0100	2.000	0	80.4	80	120			
Anthracene	1.85	0.0100	2.000	0	92.4	80	120			
Benzo[a]anthracene	1.97	0.0100	2.000	0	98.5	80	120			
Benzo[a]pyrene	1.90	0.0100	2.000	0	95.1	80	120			
Benzo[b]fluoranthene	2.10	0.0100	2.000	0	105	80	120			
Benzo[g,h,i]perylene	1.97	0.0100	2.000	0	98.7	80	120			
Benzo[k]fluoranthene	1.94	0.0100	2.000	0	96.9	80	120			
Chrysene	1.93	0.0100	2.000	0	96.3	80	120			
Dibenz[a,h]anthracene	1.93	0.0100	2.000	0	96.3	80	120			
Fluoranthene	2.01	0.0100	2.000	0	100	80	120			
Fluorene	1.73	0.0100	2.000	0	86.6	80	120			
Indeno[1,2,3-cd]pyrene	1.97	0.0100	2.000	0	98.4	80	120			
Naphthalene	1.90	0.0100	2.000	0	95.1	80	120			
Phenanthrene	1.89	0.0100	2.000	0	94.3	80	120			
Pyrene	2.02	0.0100	2.000	0	101	80	120			
Surr: 2-Fluorobiphenyl	1.91		2.000		95.5	65	120			
Surr: 4-Terphenyl-d14	2.05		2.000		102	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150708A**

The QC data in batch 70328 applies to the following samples: 1506293-01A, 1506293-02A, 1506293-03A, 1506293-04A, 1506293-05A, 1506293-06A, 1506293-07A, 1506293-08A, 1506293-09A, 1506293-10A, 1506293-11A, 1506293-12A, 1506293-13A, 1506293-14A, 1506293-15A, 1506293-16A, 1506293-17A, 1506293-18A, 1506293-19A, 1506293-20A

Sample ID	**SB-150708**	Batch ID:	**70328**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**SBLK**	Run ID:	**GCMS6_150708A**	Analysis Date:	**7/8/2015 11:24:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100	0							
Acenaphthylene	<0.00500	0.0100	0							
Anthracene	<0.00500	0.0100	0							
Benzo[a]anthracene	<0.00500	0.0100	0							
Benzo[a]pyrene	<0.00500	0.0100	0							
Benzo[b]fluoranthene	<0.00500	0.0100	0							
Benzo[g,h,i]perylene	<0.00500	0.0100	0							
Benzo[k]fluoranthene	<0.00500	0.0100	0							
Chrysene	<0.00500	0.0100	0							
Dibenz[a,h]anthracene	<0.00500	0.0100	0							
Fluoranthene	<0.00500	0.0100	0							
Fluorene	<0.00500	0.0100	0							
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100	0							
Naphthalene	<0.00500	0.0100	0							
Phenanthrene	<0.00500	0.0100	0							
Pyrene	<0.00500	0.0100	0							
Surr: 2-Fluorobiphenyl	0.000360		0							
Surr: 4-Terphenyl-d14	0.000370		0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150708A**

Sample ID	**ICV-150708**	Batch ID:	**R80502**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS6_150708A**	Analysis Date:	**7/8/2015 10:43:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.91	0.0100	2.000	0	95.7	80	120			
Acenaphthylene	2.11	0.0100	2.000	0	105	80	120			
Anthracene	2.19	0.0100	2.000	0	110	80	120			
Benzo[a]anthracene	2.07	0.0100	2.000	0	103	80	120			
Benzo[a]pyrene	1.97	0.0100	2.000	0	98.5	80	120			
Benzo[b]fluoranthene	2.04	0.0100	2.000	0	102	80	120			
Benzo[g,h,i]perylene	2.06	0.0100	2.000	0	103	80	120			
Benzo[k]fluoranthene	2.03	0.0100	2.000	0	101	80	120			
Chrysene	2.01	0.0100	2.000	0	101	80	120			
Dibenz[a,h]anthracene	1.98	0.0100	2.000	0	98.9	80	120			
Fluoranthene	1.99	0.0100	2.000	0	99.6	80	120			
Fluorene	2.01	0.0100	2.000	0	101	80	120			
Indeno[1,2,3-cd]pyrene	2.03	0.0100	2.000	0	102	80	120			
Naphthalene	1.91	0.0100	2.000	0	95.5	80	120			
Phenanthrene	2.15	0.0100	2.000	0	107	80	120			
Pyrene	2.01	0.0100	2.000	0	101	80	120			
Surr: 2-Fluorobiphenyl	1.98		2.000		98.9	65	120			
Surr: 4-Terphenyl-d14	2.07		2.000		104	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_150629C**

The QC data in batch 70247 applies to the following samples: 1506293-01A, 1506293-02A, 1506293-03A, 1506293-04A

Sample ID	**1506293-04A-DUP**	Batch ID:	**70247**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_150629C**	Analysis Date:	**6/30/2015 9:06:00 AM**	Prep Date:	**6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	10.4	0	0	11.32				8.38	30	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_150629D**

The QC data in batch 70248 applies to the following samples: 1506293-06A, 1506293-07A, 1506293-08A, 1506293-09A, 1506293-10A, 1506293-11A, 1506293-12A, 1506293-13A, 1506293-14A, 1506293-15A, 1506293-16A, 1506293-17A, 1506293-18A, 1506293-19A, 1506293-20A, 1506293-21A, 1506293-22A

Sample ID	**1506299-01A-DUP**	Batch ID:	**70248**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_150629D**	Analysis Date:	**6/30/2015 9:06:00 AM**	Prep Date:	**6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	34.4	0	0	35.39				2.76	30	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_150701A**

The QC data in batch 70303 applies to the following samples: 1506293-05A

Sample ID	**1506310-19B-DUP**	Batch ID:	**70303**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_150701A**	Analysis Date:	**7/2/2015 8:57:00 AM**	Prep Date:	**7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	10.5	0	0	10.83				2.63	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

DHL Analytical, Inc.

Date: *10-Jul-15*

CLIENT: AECOM
Work Order: 1506293
Project: City of Galveston Incinerator

MQL SUMMARY REPORT

TestNo: SW7471B	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Mercury	0.0160	0.0400

TestNo: SW6020A	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Arsenic	0.500	1.00
Barium	0.500	2.00
Cadmium	0.100	0.300
Chromium	0.500	2.00
Lead	0.100	0.300
Selenium	0.150	0.500
Silver	0.100	0.200

TestNo: SW8270D-LL	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Acenaphthene	0.00500	0.0100
Acenaphthylene	0.00500	0.0100
Anthracene	0.00500	0.0100
Benzo[a]anthracene	0.00500	0.0100
Benzo[a]pyrene	0.00500	0.0100
Benzo[b]fluoranthene	0.00500	0.0100
Benzo[g,h,i]perylene	0.00500	0.0100
Benzo[k]fluoranthene	0.00500	0.0100
Chrysene	0.00500	0.0100
Dibenz[a,h]anthracene	0.00500	0.0100
Fluoranthene	0.00500	0.0100
Fluorene	0.00500	0.0100
Indeno[1,2,3-cd]pyrene	0.00500	0.0100
Naphthalene	0.00500	0.0100
Phenanthrene	0.00500	0.0100
Pyrene	0.00500	0.0100

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

DHL Analytical, Inc.
Laboratory Review Checklist: Reportable Data

Project Name: City of Galveston Incinerator	**Date:** 7/13/15
Reviewer Name: Carlos Castro	**Laboratory Work Order:** 1506310
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				**R1-01**
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?	X				
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			**R4-02**
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?		X			**R5-04**
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			**R6-04**
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			**R7-03**
		4) Were MS/MSD RPDs within laboratory QC limits?		X			**R7-04**
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				**R10-01**
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.
Laboratory Review Checklist (continued): Supporting Data

Project Name: City of Galveston Incinerator | **Date:** 7/13/15

Reviewer Name: Carlos Castro | **Laboratory Work Order:** 1506310

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?		X			**S1-06**
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?		X			**S2-02**
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
- a) Items consistent with NELAC Chapter 5,
- b) dilution factors,
- c) preparation methods,
- d) cleanup methods, and
- e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:
- a) Calculated recovery (%R), and
- b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
- a) LCS spiking amounts,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d) Calculated %Rs and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits

R8 Laboratory analytical duplicate (if applicable) recovery and precision:
- a) The amount of analyte measured in the duplicate,
- b) The calculated RPD, and
- c) The laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-6, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager	Scott Schroeder	7/14/15
Scott Schroeder – Technical Director	Signature	Date

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis (soil & water)
Method SW7470A/7471B - Mercury Analysis (water & soil)
Method SW8270D-LL - PAH Analysis (soil & water)
Method SW8270D - Semivolatiles Analysis (soil & water) (the compound Benzaldehyde is not NELAC certified)
Method SW8270D - PCB Analysis (soil & water)
Method SW8260C - Volatile Organics (soil & water) (the compound Cyclohexane is not NELAC certified)
Method Tx1005 - Total Petroleum Hydrocarbons Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 6/26/15. A total of 38 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R4-02

For Semivolatiles analysis performed on 7/8/15, 7/2/15 and 7/7/15 the surrogate recoveries for samples INC-SB06-020, INC-SB01-020, ICV-150702 and ICV-150707 were above control limits for a total of four surrogates. These are flagged accordingly. The remaining surrogates were within control limits. No further corrective actions were taken.

For PCB analysis performed on 7/2/15, 7/6/15, 7/7/15 and 7/8/15 the surrogate recoveries for seven and the matrix spike duplicate (batch 70341) were above control limits for 2-Fluorobiphenyl and/or 4-Terphenyl-d14. These are flagged accordingly. The remaining surrogate was within control limits except for sample INC-SB01-010 which was confirmed by re-analysis. No further corrective actions were taken.

For TPH analysis performed on 7/2/15 the surrogate recovery for sample INC-SB09-010 was above control limits for Octacosane. This is flagged accordingly. The remaining surrogate was within control limits. No further corrective actions were taken.

For Volatiles analysis performed on 6/30/15 and 7/7/15 the surrogate recoveries for samples INC-SB06-020 and INC-SB09-010 were out of control limits for Dibromomfluoromethane or 4-Bromofluorobenzene. These are flagged accordingly. The remaining surrogates were within control limits. No further corrective actions were taken.

Exception Report R5-04

For Metals analysis performed on 7/7/15 and 7/8/15 (batches 70261 & 70338) Lead was detected below the reporting limits in the method blanks (MB-70261 & MB-70338). All associated samples were detected greater than 10 times the amount in the blanks for this analyte. No further corrective actions were taken.

For Volatiles analysis performed on 6/30/15 (batch 70240) Acetone was detected below the reporting limit in the method blank (MB-70240). In addition, Acetone and 1-Chlorohexane were detected below the reporting limit in the system blank (MB-150630). All associated samples may be biased high for these compounds. No further corrective actions were taken.

For Semivolatiles analysis performed on 7/7/15 and 7/8/15 (batches 70307 & 70340) Bis(2-ethylhexyl)phthalate was detected below the reporting limit in the method blanks (MB-70307 & MB-70340). All associated samples may be biased high for this compound. No further corrective actions were taken.

Exception Report R6-04

For Semivolatiles analysis performed on 7/8/15 (batch 70340) the LCS was slightly above control limits for Benzyl alcohol. This is flagged accordingly in the QC summary report. All associated samples were below detection limits for this compound. No further corrective actions were taken.

Exception Report R7-03 & R7-04

For Semivolatiles analysis performed on 7/2/15, 7/7/15 and 7/8/15 (batches 70291, 70307 & 70340) the matrix spikes and matrix spike duplicate recoveries were out of control limits for a total of twenty-one compounds. In addition, the matrix spikes and matrix spike duplicates (batches 70291, 70307 & 70340) had the RPDs above control limits for a total of four compounds. For batch 70340 this was due to the variation of the extract colors between the matrix spike and matrix spike duplicate. The matrix spike and matrix spike duplicate (batch 70340) were re-analyzed to confirm the non-homogeneity of the samples. These are flagged accordingly in the QC summary report. The samples selected for the matrix spike and matrix spike duplicate (batches 70291 & 70340) were from this work order. The sample selected for the matrix spike and matrix spike duplicate (batch 70307) was not from this work order. The LCSs were within control limits for these compounds. No further corrective actions were taken.

For Metals analysis performed on 7/2/15, 7/6/15, 7/7/15 and 7/8/15 (batches 70280, 70316, 70261 & 70338) the matrix spikes and matrix spike duplicate recoveries were out of control limits for a total of three analytes. In addition, the matrix spike and matrix spike duplicate (batch 70316) had the RPD slightly above control limits for Arsenic. These are flagged accordingly. The samples selected for the

matrix spikes and matrix spike duplicates (batches 70261 & 70316) were from this work order. The sample selected for the matrix spike and matrix spike duplicate (batches 70280 & 70338) were not from this work order. The LCSs were within control limits for these analytes. No further corrective actions were taken.

For Volatiles analysis performed on 6/30/15 (batch 70240) the matrix spike and matrix spike duplicate recoveries were below control limits for a total of twenty-eight compounds. This was due to matrix interference. These are flagged accordingly. The sample selected for the matrix spike and matrix spike duplicate (batch 70240) was from this work order. The LCS was within control limits for these compounds. No further corrective actions were taken.

For PAH analysis performed on 7/8/15 (batches 70332) the matrix spike and matrix spike duplicate recoveries were below control limits for Benzo[g,h,i]perylene and/or Fluoranthene. This was due to the color of the matrix spike and matrix spike duplicate. These are flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate (batch 70332) was from this work order. The LCS was within control limits for these compounds. No further corrective actions were taken.

Exception Report R10-01

For Metals analysis (batch 70261) the matrix spike and matrix spike duplicate (1506310-01 MS/MSD) were analyzed at a 50x dilution. This was approved by the client.

For PAH analysis seven samples were diluted prior to analysis due to the nature of the samples (color).

For Metals analysis nine samples were diluted prior to analysis due to the nature of the samples (concentration of target analytes).

For Semivolatiles analysis five samples were diluted prior to analysis due to the nature of the samples (color and/or concentration of hydrocarbons).

For PAH analysis (batch 70265) an MS/MSD was not performed due to insufficient sample volume. An LCS/LCSD was performed instead.

For Volatiles analysis (batch 70297) an MS/MSD was not performed. The client specified MS/MSD was performed in batch 70240 (1506310-27 MS/MSD).

Exception Report S1-06

For Semivolatiles analysis, the recovery of 3,3'-Dichlorobenzidine for the Second Source Calibration Verification was above the method control limits. This compound was within method control limits in the daily calibrations. No further corrective actions were taken.

Exception Report S2-02

For Volatiles analysis, the recoveries for a total of fourteen compounds for the Initial Calibration Verifications (ICV-150629, ICV-150630, ICV2-150630, ICV-150701 & ICV-150707) were out of the method control limits specified in SW8260C (80-120% recovery). These are flagged accordingly in the QC summary report. The number of target compounds outside of the method control limits for the ICVs are less than 20% of the total number of compounds being reported; this is allowed in SW8260C specifications. These compounds were within control limits in the associated LCSs. No further corrective actions were taken.

For Semivolatiles analysis, the recoveries for a total of eleven compounds for the Initial Calibration Verifications (ICV-150702, ICV-150707, ICV-150708 & ICV-150710) were out of the method control limits specified in SW8270D (80-120% recovery). These are flagged accordingly. The number of target compounds outside of the method control limits for the ICVs are less than 20% of the total number of compounds being reported; this is allowed in SW8270D specifications. These compounds were within control limits in the associated LCSs except for Benzyl alcohol (ICV-150708). No further corrective actions were taken.

For PCB analysis, the recovery of one compound for the Initial Calibration Verification (ICV-150706 2154) was slightly below the method control limits specified in SW8270D (80-120% recovery). This is flagged accordingly. The number of target compounds outside of the method control limits for the ICV is less than 20% of the total number of compounds being reported; this is allowed in SW8270D specifications. This compound was within control limits in the associated LCS. No further corrective actions were taken.

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT: AECOM
Project: City of Galveston Incinerator
Lab Order: 1506310

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1506310-01	INC-SB14-013		06/24/15 08:30 AM	6/26/2015
1506310-02	INC-SB14-020		06/24/15 08:40 AM	6/26/2015
1506310-03	INC-SB15-010		06/24/15 08:50 AM	6/26/2015
1506310-04	INC-SB15-020		06/24/15 09:50 AM	6/26/2015
1506310-05	INC-SB15-021		06/24/15 09:50 AM	6/26/2015
1506310-06	INC-SB08-010		06/24/15 10:05 AM	6/26/2015
1506310-07	INC-SB08-020		06/24/15 10:20 AM	6/26/2015
1506310-08	INC-SB07-010		06/24/15 10:35 AM	6/26/2015
1506310-09	INC-SB07-020		06/24/15 10:55 AM	6/26/2015
1506310-10	INC-SB06-010		06/24/15 11:10 AM	6/26/2015
1506310-11	INC-SB06-020		06/24/15 11:20 AM	6/26/2015
1506310-12	INC-SB06-015		06/24/15 11:35 AM	6/26/2015
1506310-13	INC-MW07-010		06/24/15 02:30 PM	6/26/2015
1506310-14	INC-MW01-010		06/24/15 04:20 PM	6/26/2015
1506310-15	INC-MW01-011		06/24/15 04:20 PM	6/26/2015
1506310-16	INC-MW03-013		06/24/15 06:10 PM	6/26/2015
1506310-17	INC-SB05-010		06/25/15 12:35 PM	6/26/2015
1506310-18	INC-SB05-020		06/25/15 12:40 PM	6/26/2015
1506310-19	INC-SB05-021		06/25/15 12:40 PM	6/26/2015
1506310-20	INC-SB01-010		06/25/15 12:55 PM	6/26/2015
1506310-21	INC-SB01-011		06/25/15 12:55 PM	6/26/2015
1506310-22	INC-SB01-020		06/25/15 01:10 PM	6/26/2015
1506310-23	INC-SB04-010		06/25/15 01:35 PM	6/26/2015
1506310-24	INC-SB04-020		06/25/15 01:50 PM	6/26/2015
1506310-25	INC-SB02-010		06/25/15 02:00 PM	6/26/2015
1506310-26	INC-SB02-020		06/25/15 02:10 PM	6/26/2015
1506310-27	INC-SB03-013		06/25/15 02:25 PM	6/26/2015
1506310-28	INC-SB03-020		06/25/15 02:35 PM	6/26/2015
1506310-29	INC-SB24-010		06/25/15 03:05 PM	6/26/2015
1506310-30	INC-SB24-015		06/25/15 03:25 PM	6/26/2015
1506310-31	INC-SB24-020		06/25/15 03:20 PM	6/26/2015
1506310-32	INC-SB10-010		06/25/15 03:40 PM	6/26/2015
1506310-33	INC-SB10-020		06/25/15 03:55 PM	6/26/2015
1506310-34	INC-SB09-010		06/25/15 04:10 PM	6/26/2015
1506310-35	INC-SB09-020		06/25/15 04:25 PM	6/26/2015
1506310-36	INC-SB09-015		06/25/15 04:30 PM	6/26/2015
1506310-37	INC-TB01-0615		06/25/15 04:35 PM	6/26/2015
1506310-38	INC-TB02-0615		06/25/15 04:40 PM	6/26/2015

Lab Order: 1506310
Client: AECOM
Project: City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506310-01A	INC-SB14-013	06/24/15 08:30 AM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 09:14 AM	70317
	INC-SB14-013	06/24/15 08:30 AM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70303
	INC-SB14-013	06/24/15 08:30 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261
1506310-01B	INC-SB14-013	06/24/15 08:30 AM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 11:06 AM	70332
1506310-02A	INC-SB14-020	06/24/15 08:40 AM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 09:14 AM	70317
	INC-SB14-020	06/24/15 08:40 AM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70303
	INC-SB14-020	06/24/15 08:40 AM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 11:06 AM	70332
	INC-SB14-020	06/24/15 08:40 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261
1506310-03A	INC-SB15-010	06/24/15 08:50 AM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 09:14 AM	70317
	INC-SB15-010	06/24/15 08:50 AM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70303
	INC-SB15-010	06/24/15 08:50 AM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 11:06 AM	70332
	INC-SB15-010	06/24/15 08:50 AM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 11:06 AM	70332
	INC-SB15-010	06/24/15 08:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261
1506310-04A	INC-SB15-020	06/24/15 09:50 AM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 09:14 AM	70317
	INC-SB15-020	06/24/15 09:50 AM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70303
	INC-SB15-020	06/24/15 09:50 AM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 11:06 AM	70332
	INC-SB15-020	06/24/15 09:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261
1506310-05A	INC-SB15-021	06/24/15 09:50 AM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB15-021	06/24/15 09:50 AM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70303
	INC-SB15-021	06/24/15 09:50 AM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 11:06 AM	70332
	INC-SB15-021	06/24/15 09:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261
1506310-06A	INC-SB08-010	06/24/15 10:05 AM	Soil	SW5035A	Purge and Trap 5035	06/30/15 08:37 AM	70240
1506310-06B	INC-SB08-010	06/24/15 10:05 AM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB08-010	06/24/15 10:05 AM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB08-010	06/24/15 10:05 AM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70303
	INC-SB08-010	06/24/15 10:05 AM	Soil	SW3550C	Soil Prep Sonication: BNA	07/02/15 09:55 AM	70307
	INC-SB08-010	06/24/15 10:05 AM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309
	INC-SB08-010	06/24/15 10:05 AM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309

Lab Order: 1506310
Client: AECOM
Project: City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506310-06B	INC-SB08-010	06/24/15 10:05 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261
1506310-07A	INC-SB08-020	06/24/15 10:20 AM	Soil	SW5035A	Purge and Trap 5035	06/30/15 08:37 AM	70240
1506310-07B	INC-SB08-020	06/24/15 10:20 AM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB08-020	06/24/15 10:20 AM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70303
	INC-SB08-020	06/24/15 10:20 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261
	INC-SB08-020	06/24/15 10:20 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261
1506310-07C	INC-SB08-020	06/24/15 10:20 AM	Soil	SW3550C	Soil Prep Sonication: BNA	07/02/15 09:55 AM	70307
	INC-SB08-020	06/24/15 10:20 AM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309
	INC-SB08-020	06/24/15 10:20 AM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309
1506310-08A	INC-SB07-010	06/24/15 10:35 AM	Soil	SW5035A	Purge and Trap 5035	06/30/15 08:37 AM	70240
1506310-08B	INC-SB07-010	06/24/15 10:35 AM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB07-010	06/24/15 10:35 AM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70303
	INC-SB07-010	06/24/15 10:35 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70261
1506310-08C	INC-SB07-010	06/24/15 10:35 AM	Soil	SW3550C	Soil Prep Sonication: BNA	07/02/15 09:55 AM	70307
	INC-SB07-010	06/24/15 10:35 AM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309
1506310-09A	INC-SB07-020	06/24/15 10:55 AM	Soil	SW5035A	Purge and Trap 5035	06/30/15 08:37 AM	70240
1506310-09B	INC-SB07-020	06/24/15 10:55 AM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB07-020	06/24/15 10:55 AM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70303
	INC-SB07-020	06/24/15 10:55 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70280
	INC-SB07-020	06/24/15 10:55 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/01/15 08:30 AM	70280
1506310-09C	INC-SB07-020	06/24/15 10:55 AM	Soil	SW3550C	Soil Prep Sonication: BNA	07/02/15 09:55 AM	70307
	INC-SB07-020	06/24/15 10:55 AM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309
1506310-10A	INC-SB06-010	06/24/15 11:10 AM	Soil	SW5035A	Purge and Trap 5035	06/30/15 08:37 AM	70240
1506310-10B	INC-SB06-010	06/24/15 11:10 AM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB06-010	06/24/15 11:10 AM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70303
	INC-SB06-010	06/24/15 11:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
	INC-SB06-010	06/24/15 11:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
1506310-10C	INC-SB06-010	06/24/15 11:10 AM	Soil	SW3550C	Soil Prep Sonication: BNA	07/02/15 09:55 AM	70307

Lab Order: 1506310
Client: AECOM
Project: City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506310-10C	INC-SB06-010	06/24/15 11:10 AM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309
	INC-SB06-010	06/24/15 11:10 AM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309
1506310-11A	INC-SB06-020	06/24/15 11:20 AM	Soil	SW5035A	Purge and Trap 5035	06/30/15 08:37 AM	70240
1506310-11B	INC-SB06-020	06/24/15 11:20 AM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB06-020	06/24/15 11:20 AM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70303
	INC-SB06-020	06/24/15 11:20 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
	INC-SB06-020	06/24/15 11:20 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
1506310-11C	INC-SB06-020	06/24/15 11:20 AM	Soil	SW3550C	Soil Prep Sonication: BNA	07/02/15 09:55 AM	70307
	INC-SB06-020	06/24/15 11:20 AM	Soil	SW3550C	Soil Prep Sonication: BNA	07/02/15 09:55 AM	70307
	INC-SB06-020	06/24/15 11:20 AM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309
1506310-12A	INC-SB06-015	06/24/15 11:35 AM	Aqueous	SW5030C	Purge and Trap Water GC/MS	06/29/15 08:37 AM	70238
1506310-12B	INC-SB06-015	06/24/15 11:35 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	07/06/15 08:58 AM	70325
	INC-SB06-015	06/24/15 11:35 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/30/15 10:11 AM	70272
1506310-12C	INC-SB06-015	06/24/15 11:35 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: BNA	07/01/15 09:05 AM	70291
1506310-12D	INC-SB06-015	06/24/15 11:35 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: PCB	06/30/15 01:07 PM	70277
1506310-13A	INC-MW07-010	06/24/15 02:30 PM	Aqueous	SW5030C	Purge and Trap Water GC/MS	06/29/15 08:37 AM	70238
1506310-13B	INC-MW07-010	06/24/15 02:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	07/06/15 08:58 AM	70325
	INC-MW07-010	06/24/15 02:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	07/06/15 08:58 AM	70325
	INC-MW07-010	06/24/15 02:30 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/30/15 10:11 AM	70272
1506310-13C	INC-MW07-010	06/24/15 02:30 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: BNA	07/01/15 09:05 AM	70291
1506310-13D	INC-MW07-010	06/24/15 02:30 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PCB	06/30/15 01:07 PM	70277
1506310-14A	INC-MW01-010	06/24/15 04:20 PM	Aqueous	SW5030C	Purge and Trap Water GC/MS	06/29/15 08:37 AM	70238
1506310-14B	INC-MW01-010	06/24/15 04:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	07/06/15 08:58 AM	70325
	INC-MW01-010	06/24/15 04:20 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/30/15 10:11 AM	70272
1506310-14C	INC-MW01-010	06/24/15 04:20 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: BNA	07/01/15 09:05 AM	70291
1506310-14D	INC-MW01-010	06/24/15 04:20 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PCB	06/30/15 01:07 PM	70277
1506310-15A	INC-MW01-011	06/24/15 04:20 PM	Aqueous	SW5030C	Purge and Trap Water GC/MS	06/29/15 08:37 AM	70238
1506310-15B	INC-MW01-011	06/24/15 04:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	07/06/15 08:58 AM	70325

Lab Order: 1506310
Client: AECOM
Project: City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506310-15B	INC-MW01-011	06/24/15 04:20 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/30/15 10:11 AM	70272
1506310-15C	INC-MW01-011	06/24/15 04:20 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: BNA	07/01/15 09:05 AM	70291
1506310-15D	INC-MW01-011	06/24/15 04:20 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PCB	06/30/15 01:07 PM	70277
1506310-16A	INC-MW03-013	06/24/15 06:10 PM	Aqueous	SW5030C	Purge and Trap Water GC/MS	06/29/15 08:37 AM	70238
1506310-16B	INC-MW03-013	06/24/15 06:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	07/06/15 08:58 AM	70325
	INC-MW03-013	06/24/15 06:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	07/06/15 08:58 AM	70325
	INC-MW03-013	06/24/15 06:10 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/30/15 10:11 AM	70272
1506310-16C	INC-MW03-013	06/24/15 06:10 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: BNA	07/01/15 09:05 AM	70291
1506310-16D	INC-MW03-013	06/24/15 06:10 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PCB	06/30/15 01:07 PM	70277
1506310-17A	INC-SB05-010	06/25/15 12:35 PM	Soil	SW5035A	Purge and Trap 5035	06/30/15 08:37 AM	70240
1506310-17B	INC-SB05-010	06/25/15 12:35 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB05-010	06/25/15 12:35 PM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70303
	INC-SB05-010	06/25/15 12:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
	INC-SB05-010	06/25/15 12:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
1506310-17C	INC-SB05-010	06/25/15 12:35 PM	Soil	SW3550C	Soil Prep Sonication: BNA	07/02/15 09:55 AM	70307
	INC-SB05-010	06/25/15 12:35 PM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309
1506310-18A	INC-SB05-020	06/25/15 12:40 PM	Soil	SW5035A	Purge and Trap 5035	06/30/15 08:37 AM	70240
1506310-18B	INC-SB05-020	06/25/15 12:40 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB05-020	06/25/15 12:40 PM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70303
	INC-SB05-020	06/25/15 12:40 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
	INC-SB05-020	06/25/15 12:40 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
1506310-18C	INC-SB05-020	06/25/15 12:40 PM	Soil	SW3550C	Soil Prep Sonication: BNA	07/02/15 09:55 AM	70307
	INC-SB05-020	06/25/15 12:40 PM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309
1506310-19A	INC-SB05-021	06/25/15 12:40 PM	Soil	SW5035A	Purge and Trap 5035	06/30/15 08:37 AM	70240
1506310-19B	INC-SB05-021	06/25/15 12:40 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB05-021	06/25/15 12:40 PM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70303
	INC-SB05-021	06/25/15 12:40 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
	INC-SB05-021	06/25/15 12:40 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316

Lab Order: 1506310
Client: AECOM
Project: City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506310-19C	INC-SB05-021	06/25/15 12:40 PM	Soil	SW3550C	Soil Prep Sonication: BNA	07/02/15 09:55 AM	70307
	INC-SB05-021	06/25/15 12:40 PM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309
1506310-20A	INC-SB01-010	06/25/15 12:55 PM	Soil	SW5035A	Purge and Trap 5035	06/30/15 08:37 AM	70240
1506310-20B	INC-SB01-010	06/25/15 12:55 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB01-010	06/25/15 12:55 PM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70304
	INC-SB01-010	06/25/15 12:55 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
	INC-SB01-010	06/25/15 12:55 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
1506310-20C	INC-SB01-010	06/25/15 12:55 PM	Soil	SW3550C	Soil Prep Sonication: BNA	07/02/15 09:55 AM	70307
	INC-SB01-010	06/25/15 12:55 PM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309
	INC-SB01-010	06/25/15 12:55 PM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309
1506310-21A	INC-SB01-011	06/25/15 12:55 PM	Soil	SW5035A	Purge and Trap 5035	06/30/15 08:37 AM	70240
1506310-21B	INC-SB01-011	06/25/15 12:55 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB01-011	06/25/15 12:55 PM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70304
	INC-SB01-011	06/25/15 12:55 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
	INC-SB01-011	06/25/15 12:55 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
1506310-21C	INC-SB01-011	06/25/15 12:55 PM	Soil	SW3550C	Soil Prep Sonication: BNA	07/02/15 09:55 AM	70307
	INC-SB01-011	06/25/15 12:55 PM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309
1506310-22A	INC-SB01-020	06/25/15 01:10 PM	Soil	SW5035A	Purge and Trap 5035	06/30/15 08:37 AM	70240
1506310-22B	INC-SB01-020	06/25/15 01:10 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB01-020	06/25/15 01:10 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB01-020	06/25/15 01:10 PM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70304
	INC-SB01-020	06/25/15 01:10 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
	INC-SB01-020	06/25/15 01:10 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
1506310-22C	INC-SB01-020	06/25/15 01:10 PM	Soil	SW3550C	Soil Prep Sonication: BNA	07/02/15 09:55 AM	70307
	INC-SB01-020	06/25/15 01:10 PM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309
1506310-23A	INC-SB04-010	06/25/15 01:35 PM	Soil	SW5035A	Purge and Trap 5035	07/01/15 10:18 AM	70297
	INC-SB04-010	06/25/15 01:35 PM	Soil	SW5035A	Purge and Trap 5035	06/30/15 08:37 AM	70240
1506310-23B	INC-SB04-010	06/25/15 01:35 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331

Lab Order: 1506310
Client: AECOM
Project: City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506310-23B	INC-SB04-010	06/25/15 01:35 PM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70304
	INC-SB04-010	06/25/15 01:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
	INC-SB04-010	06/25/15 01:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
1506310-23C	INC-SB04-010	06/25/15 01:35 PM	Soil	SW3550C	Soil Prep Sonication: BNA	07/02/15 09:55 AM	70307
	INC-SB04-010	06/25/15 01:35 PM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309
1506310-24A	INC-SB04-020	06/25/15 01:50 PM	Soil	SW5035A	Purge and Trap 5035	07/01/15 10:18 AM	70297
1506310-24B	INC-SB04-020	06/25/15 01:50 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB04-020	06/25/15 01:50 PM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70304
	INC-SB04-020	06/25/15 01:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
	INC-SB04-020	06/25/15 01:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
1506310-24C	INC-SB04-020	06/25/15 01:50 PM	Soil	SW3550C	Soil Prep Sonication: BNA	07/02/15 09:55 AM	70307
	INC-SB04-020	06/25/15 01:50 PM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309
1506310-25A	INC-SB02-010	06/25/15 02:00 PM	Soil	SW5035A	Purge and Trap 5035	07/01/15 10:18 AM	70297
1506310-25B	INC-SB02-010	06/25/15 02:00 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB02-010	06/25/15 02:00 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB02-010	06/25/15 02:00 PM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70304
	INC-SB02-010	06/25/15 02:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
	INC-SB02-010	06/25/15 02:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
1506310-25C	INC-SB02-010	06/25/15 02:00 PM	Soil	SW3550C	Soil Prep Sonication: BNA	07/02/15 09:55 AM	70307
	INC-SB02-010	06/25/15 02:00 PM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309
	INC-SB02-010	06/25/15 02:00 PM	Soil	SW3550C	Soil Prep Sonication: PCB	07/02/15 09:55 AM	70309
1506310-26A	INC-SB02-020	06/25/15 02:10 PM	Soil	SW5035A	Purge and Trap 5035	07/01/15 10:18 AM	70297
1506310-26B	INC-SB02-020	06/25/15 02:10 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB02-020	06/25/15 02:10 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB02-020	06/25/15 02:10 PM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70304
	INC-SB02-020	06/25/15 02:10 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
	INC-SB02-020	06/25/15 02:10 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
1506310-26C	INC-SB02-020	06/25/15 02:10 PM	Soil	SW3550C	Soil Prep Sonication: BNA	07/07/15 08:37 AM	70340

Lab Order: 1506310
Client: AECOM
Project: City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506310-26C	INC-SB02-020	06/25/15 02:10 PM	Soil	SW3550C	Soil Prep Sonication: PCB	07/07/15 08:37 AM	70341
1506310-27A	INC-SB03-013	06/25/15 02:25 PM	Soil	SW5035A	Purge and Trap 5035	06/30/15 08:37 AM	70240
1506310-27B	INC-SB03-013	06/25/15 02:25 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB03-013	06/25/15 02:25 PM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70304
	INC-SB03-013	06/25/15 02:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
	INC-SB03-013	06/25/15 02:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
1506310-27C	INC-SB03-013	06/25/15 02:25 PM	Soil	SW3550C	Soil Prep Sonication: BNA	07/07/15 08:37 AM	70340
	INC-SB03-013	06/25/15 02:25 PM	Soil	SW3550C	Soil Prep Sonication: BNA	07/07/15 08:37 AM	70340
	INC-SB03-013	06/25/15 02:25 PM	Soil	SW3550C	Soil Prep Sonication: PCB	07/07/15 08:37 AM	70341
1506310-28A	INC-SB03-020	06/25/15 02:35 PM	Soil	SW5035A	Purge and Trap 5035	07/01/15 10:18 AM	70297
1506310-28B	INC-SB03-020	06/25/15 02:35 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB03-020	06/25/15 02:35 PM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70304
	INC-SB03-020	06/25/15 02:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
	INC-SB03-020	06/25/15 02:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
1506310-28C	INC-SB03-020	06/25/15 02:35 PM	Soil	SW3550C	Soil Prep Sonication: BNA	07/07/15 08:37 AM	70340
	INC-SB03-020	06/25/15 02:35 PM	Soil	SW3550C	Soil Prep Sonication: PCB	07/07/15 08:37 AM	70341
1506310-29B	INC-SB24-010	06/25/15 03:05 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB24-010	06/25/15 03:05 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/06/15 10:34 AM	70331
	INC-SB24-010	06/25/15 03:05 PM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70304
	INC-SB24-010	06/25/15 03:05 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
	INC-SB24-010	06/25/15 03:05 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
1506310-29C	INC-SB24-010	06/25/15 03:05 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 11:06 AM	70332
1506310-30A	INC-SB24-015	06/25/15 03:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	07/06/15 08:58 AM	70325
	INC-SB24-015	06/25/15 03:25 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/30/15 10:11 AM	70272
1506310-30B	INC-SB24-015	06/25/15 03:25 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	06/30/15 08:45 AM	70265
1506310-31B	INC-SB24-020	06/25/15 03:20 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/07/15 11:59 AM	70353
	INC-SB24-020	06/25/15 03:20 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/07/15 11:59 AM	70353
	INC-SB24-020	06/25/15 03:20 PM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70304

Lab Order: 1506310
Client: AECOM
Project: City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506310-31B	INC-SB24-020	06/25/15 03:20 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
	INC-SB24-020	06/25/15 03:20 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
1506310-31C	INC-SB24-020	06/25/15 03:20 PM	Soil	SW3550C	Soil Prep Sonication: PAH	07/06/15 11:06 AM	70332
1506310-32A	INC-SB10-010	06/25/15 03:40 PM	Soil	SW5035A	Purge and Trap 5035	07/01/15 10:18 AM	70297
1506310-32B	INC-SB10-010	06/25/15 03:40 PM	Soil	TX1005	TX1005 Soil Prep	07/01/15 08:40 AM	70264
1506310-32C	INC-SB10-010	06/25/15 03:40 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/07/15 11:59 AM	70353
	INC-SB10-010	06/25/15 03:40 PM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70304
	INC-SB10-010	06/25/15 03:40 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
	INC-SB10-010	06/25/15 03:40 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
1506310-32D	INC-SB10-010	06/25/15 03:40 PM	Soil	SW3550C	Soil Prep Sonication: BNA	07/07/15 08:37 AM	70340
	INC-SB10-010	06/25/15 03:40 PM	Soil	SW3550C	Soil Prep Sonication: PCB	07/07/15 08:37 AM	70341
1506310-33A	INC-SB10-020	06/25/15 03:55 PM	Soil	SW5035A	Purge and Trap 5035	07/01/15 10:18 AM	70297
1506310-33B	INC-SB10-020	06/25/15 03:55 PM	Soil	TX1005	TX1005 Soil Prep	07/01/15 08:40 AM	70264
1506310-33C	INC-SB10-020	06/25/15 03:55 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/07/15 11:59 AM	70353
	INC-SB10-020	06/25/15 03:55 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/07/15 11:59 AM	70353
	INC-SB10-020	06/25/15 03:55 PM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70304
	INC-SB10-020	06/25/15 03:55 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
	INC-SB10-020	06/25/15 03:55 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
1506310-33D	INC-SB10-020	06/25/15 03:55 PM	Soil	SW3550C	Soil Prep Sonication: BNA	07/07/15 08:37 AM	70340
	INC-SB10-020	06/25/15 03:55 PM	Soil	SW3550C	Soil Prep Sonication: PCB	07/07/15 08:37 AM	70341
1506310-34A	INC-SB09-010	06/25/15 04:10 PM	Soil	SW5035A	Purge and Trap 5035	07/01/15 10:18 AM	70297
	INC-SB09-010	06/25/15 04:10 PM	Soil	SW5035A	Purge and Trap 5035	07/07/15 10:36 AM	70351
1506310-34B	INC-SB09-010	06/25/15 04:10 PM	Soil	TX1005	TX1005 Soil Prep	07/01/15 08:40 AM	70264
1506310-34C	INC-SB09-010	06/25/15 04:10 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/07/15 11:59 AM	70353
	INC-SB09-010	06/25/15 04:10 PM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70304
	INC-SB09-010	06/25/15 04:10 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
	INC-SB09-010	06/25/15 04:10 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/06/15 08:30 AM	70316
1506310-34D	INC-SB09-010	06/25/15 04:10 PM	Soil	SW3550C	Soil Prep Sonication: BNA	07/07/15 08:37 AM	70340

Lab Order: 1506310
Client: AECOM
Project: City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1506310-34D	INC-SB09-010	06/25/15 04:10 PM	Soil	SW3550C	Soil Prep Sonication: PCB	07/07/15 08:37 AM	70341
	INC-SB09-010	06/25/15 04:10 PM	Soil	SW3550C	Soil Prep Sonication: PCB	07/07/15 08:37 AM	70341
1506310-35A	INC-SB09-020	06/25/15 04:25 PM	Soil	SW5035A	Purge and Trap 5035	07/01/15 10:18 AM	70297
1506310-35B	INC-SB09-020	06/25/15 04:25 PM	Soil	TX1005	TX1005 Soil Prep	07/01/15 08:40 AM	70264
1506310-35C	INC-SB09-020	06/25/15 04:25 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/07/15 11:59 AM	70353
	INC-SB09-020	06/25/15 04:25 PM	Soil	SW7471A	Mercury Soil Prep, Total	07/07/15 11:59 AM	70353
	INC-SB09-020	06/25/15 04:25 PM	Soil	D2216	Moisture Preparation	07/01/15 02:22 PM	70304
	INC-SB09-020	06/25/15 04:25 PM	Soil	SW3550C	Soil Prep Sonication: BNA	07/07/15 08:37 AM	70340
	INC-SB09-020	06/25/15 04:25 PM	Soil	SW3550C	Soil Prep Sonication: PCB	07/07/15 08:37 AM	70341
	INC-SB09-020	06/25/15 04:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/07/15 08:30 AM	70338
1506310-36A	INC-SB09-015	06/25/15 04:30 PM	Aqueous	SW5030C	Purge and Trap Water GC/MS	06/29/15 08:37 AM	70238
1506310-36B	INC-SB09-015	06/25/15 04:30 PM	Aqueous	TX1005	TX1005 Water Prep	06/29/15 09:57 PM	70234
1506310-36C	INC-SB09-015	06/25/15 04:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	07/06/15 08:58 AM	70325
	INC-SB09-015	06/25/15 04:30 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/30/15 10:11 AM	70272
1506310-36D	INC-SB09-015	06/25/15 04:30 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: BNA	07/01/15 09:05 AM	70291
1506310-36E	INC-SB09-015	06/25/15 04:30 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PCB	06/30/15 01:07 PM	70277
1506310-37A	INC-TB01-0615	06/25/15 04:35 PM	Trip Blank	SW5030C	Purge and Trap Water GC/MS	06/29/15 08:37 AM	70238
1506310-38A	INC-TB02-0615	06/25/15 04:40 PM	Trip Blank	SW5030C	Purge and Trap Water GC/MS	06/29/15 08:37 AM	70238

Lab Order: 1506310
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506310-01A	INC-SB14-013	Soil	D2216	Percent Moisture	70303	1	07/02/15 08:57 AM	PMOIST_150701A
	INC-SB14-013	Soil	SW7471B	Total Mercury: Soil/Solid	70317	1	07/07/15 09:47 AM	CETAC2_HG_150707A
	INC-SB14-013	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	50	07/07/15 06:06 PM	ICP-MS4_150707D
1506310-01B	INC-SB14-013	Soil	SW8270D-LL	PAHs: GC/MS	70332	20	07/08/15 03:19 PM	GCMS4_150708A
1506310-02A	INC-SB14-020	Soil	SW8270D-LL	PAHs: GC/MS	70332	10	07/08/15 03:50 PM	GCMS4_150708A
	INC-SB14-020	Soil	D2216	Percent Moisture	70303	1	07/02/15 08:57 AM	PMOIST_150701A
	INC-SB14-020	Soil	SW7471B	Total Mercury: Soil/Solid	70317	1	07/07/15 10:35 AM	CETAC2_HG_150707A
	INC-SB14-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	50	07/07/15 07:01 PM	ICP-MS4_150707D
1506310-03A	INC-SB15-010	Soil	SW8270D-LL	PAHs: GC/MS	70332	100	07/08/15 04:21 PM	GCMS4_150708A
	INC-SB15-010	Soil	SW8270D-LL	PAHs: GC/MS	70332	20	07/08/15 07:26 PM	GCMS4_150708A
	INC-SB15-010	Soil	D2216	Percent Moisture	70303	1	07/02/15 08:57 AM	PMOIST_150701A
	INC-SB15-010	Soil	SW7471B	Total Mercury: Soil/Solid	70317	1	07/07/15 10:37 AM	CETAC2_HG_150707A
	INC-SB15-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	50	07/07/15 07:03 PM	ICP-MS4_150707D
1506310-04A	INC-SB15-020	Soil	SW8270D-LL	PAHs: GC/MS	70332	50	07/08/15 04:52 PM	GCMS4_150708A
	INC-SB15-020	Soil	D2216	Percent Moisture	70303	1	07/02/15 08:57 AM	PMOIST_150701A
	INC-SB15-020	Soil	SW7471B	Total Mercury: Soil/Solid	70317	1	07/07/15 10:39 AM	CETAC2_HG_150707A
	INC-SB15-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	50	07/07/15 07:05 PM	ICP-MS4_150707D
1506310-05A	INC-SB15-021	Soil	SW8270D-LL	PAHs: GC/MS	70332	20	07/08/15 05:23 PM	GCMS4_150708A
	INC-SB15-021	Soil	D2216	Percent Moisture	70303	1	07/02/15 08:57 AM	PMOIST_150701A
	INC-SB15-021	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 11:09 AM	CETAC2_HG_150707A
	INC-SB15-021	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	50	07/07/15 07:07 PM	ICP-MS4_150707D
1506310-06A	INC-SB08-010	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70240	1	06/30/15 05:26 PM	GCMS1_150630A
1506310-06B	INC-SB08-010	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/02/15 09:30 PM	GCMS8_150702A
	INC-SB08-010	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/06/15 02:19 PM	GCMS8_150702A
	INC-SB08-010	Soil	D2216	Percent Moisture	70303	1	07/02/15 08:57 AM	PMOIST_150701A
	INC-SB08-010	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70307	1	07/07/15 10:56 PM	GCMS9_150707A

Lab Order: 1506310
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506310-06B	INC-SB08-010	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 11:11 AM	CETAC2_HG_150707A
	INC-SB08-010	Soil	SW7471B	Total Mercury: Soil/Solid	70331	5	07/07/15 12:14 PM	CETAC2_HG_150707A
	INC-SB08-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	50	07/07/15 07:09 PM	ICP-MS4_150707D
1506310-07A	INC-SB08-020	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70240	1	06/30/15 05:57 PM	GCMS1_150630A
1506310-07B	INC-SB08-020	Soil	D2216	Percent Moisture	70303	1	07/02/15 08:57 AM	PMOIST_150701A
	INC-SB08-020	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 11:13 AM	CETAC2_HG_150707A
	INC-SB08-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	50	07/07/15 07:11 PM	ICP-MS4_150707D
	INC-SB08-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	500	07/08/15 11:40 AM	ICP-MS4_150708B
1506310-07C	INC-SB08-020	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/02/15 10:00 PM	GCMS8_150702A
	INC-SB08-020	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/06/15 02:49 PM	GCMS8_150702A
	INC-SB08-020	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70307	2	07/08/15 12:28 AM	GCMS9_150707A
1506310-08A	INC-SB07-010	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70240	1	06/30/15 06:29 PM	GCMS1_150630A
1506310-08B	INC-SB07-010	Soil	D2216	Percent Moisture	70303	1	07/02/15 08:57 AM	PMOIST_150701A
	INC-SB07-010	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 11:16 AM	CETAC2_HG_150707A
	INC-SB07-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70261	50	07/07/15 07:13 PM	ICP-MS4_150707D
1506310-08C	INC-SB07-010	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/02/15 07:59 PM	GCMS8_150702A
	INC-SB07-010	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70307	1	07/07/15 10:09 PM	GCMS9_150707A
1506310-09A	INC-SB07-020	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70240	1	06/30/15 07:00 PM	GCMS1_150630A
1506310-09B	INC-SB07-020	Soil	D2216	Percent Moisture	70303	1	07/02/15 08:57 AM	PMOIST_150701A
	INC-SB07-020	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 11:18 AM	CETAC2_HG_150707A
	INC-SB07-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70280	50	07/06/15 11:08 AM	ICP-MS4_150706A
	INC-SB07-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70280	5	07/02/15 11:23 AM	ICP-MS4_150702A
1506310-09C	INC-SB07-020	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/02/15 08:29 PM	GCMS8_150702A
	INC-SB07-020	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70307	10	07/08/15 01:15 AM	GCMS9_150707A
1506310-10A	INC-SB06-010	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70240	1	06/30/15 07:31 PM	GCMS1_150630A
1506310-10B	INC-SB06-010	Soil	D2216	Percent Moisture	70303	1	07/02/15 08:57 AM	PMOIST_150701A

Lab Order: 1506310
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506310-10B	INC-SB06-010	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 11:20 AM	CETAC2_HG_150707A
	INC-SB06-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/06/15 06:57 PM	ICP-MS4_150706B
	INC-SB06-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	50	07/07/15 11:29 AM	ICP-MS4_150707B
1506310-10C	INC-SB06-010	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/02/15 10:31 PM	GCMS8_150702A
	INC-SB06-010	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/06/15 03:20 PM	GCMS8_150702A
	INC-SB06-010	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70307	1	07/07/15 10:32 PM	GCMS9_150707A
1506310-11A	INC-SB06-020	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70240	1	06/30/15 08:03 PM	GCMS1_150630A
1506310-11B	INC-SB06-020	Soil	D2216	Percent Moisture	70303	1	07/02/15 08:57 AM	PMOIST_150701A
	INC-SB06-020	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 11:23 AM	CETAC2_HG_150707A
	INC-SB06-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/06/15 06:58 PM	ICP-MS4_150706B
	INC-SB06-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	50	07/07/15 11:31 AM	ICP-MS4_150707B
1506310-11C	INC-SB06-020	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/02/15 11:01 PM	GCMS8_150702A
	INC-SB06-020	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70307	100	07/08/15 12:51 AM	GCMS9_150707A
	INC-SB06-020	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70307	10	07/08/15 01:38 AM	GCMS9_150707A
1506310-12A	INC-SB06-015	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	70238	1	06/29/15 03:32 PM	GCMS5_150629A
1506310-12B	INC-SB06-015	Aqueous	SW7470A	Mercury Total: Aqueous	70272	1	07/01/15 11:28 AM	CETAC2_HG_150701A
	INC-SB06-015	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	70325	1	07/07/15 01:10 PM	ICP-MS4_150707B
1506310-12C	INC-SB06-015	Aqueous	SW8270D	Semivolatiles by GC/MS - Water	70291	1	07/02/15 04:37 PM	GCMS9_150702A
1506310-12D	INC-SB06-015	Aqueous	SW8270D	PCB by GC/MS - Aqueous	70277	1	07/06/15 08:53 PM	GCMS8_150706A
1506310-13A	INC-MW07-010	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	70238	1	06/29/15 03:56 PM	GCMS5_150629A
1506310-13B	INC-MW07-010	Aqueous	SW7470A	Mercury Total: Aqueous	70272	1	07/01/15 11:30 AM	CETAC2_HG_150701A
	INC-MW07-010	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	70325	5	07/07/15 01:59 PM	ICP-MS4_150707B
	INC-MW07-010	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	70325	1	07/07/15 01:12 PM	ICP-MS4_150707B
1506310-13C	INC-MW07-010	Aqueous	SW8270D	Semivolatiles by GC/MS - Water	70291	1	07/02/15 05:00 PM	GCMS9_150702A
1506310-13D	INC-MW07-010	Aqueous	SW8270D	PCB by GC/MS - Aqueous	70277	1	07/06/15 09:24 PM	GCMS8_150706A
1506310-14A	INC-MW01-010	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	70238	1	06/29/15 04:20 PM	GCMS5_150629A

Lab Order: 1506310
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506310-14B	INC-MW01-010	Aqueous	SW7470A	Mercury Total: Aqueous	70272	1	07/01/15 11:33 AM	CETAC2_HG_150701A
	INC-MW01-010	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	70325	1	07/07/15 01:14 PM	ICP-MS4_150707B
1506310-14C	INC-MW01-010	Aqueous	SW8270D	Semivolatiles by GC/MS - Water	70291	1	07/02/15 05:23 PM	GCMS9_150702A
1506310-14D	INC-MW01-010	Aqueous	SW8270D	PCB by GC/MS - Aqueous	70277	1	07/06/15 09:54 PM	GCMS8_150706A
1506310-15A	INC-MW01-011	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	70238	1	06/29/15 04:43 PM	GCMS5_150629A
1506310-15B	INC-MW01-011	Aqueous	SW7470A	Mercury Total: Aqueous	70272	1	07/01/15 11:35 AM	CETAC2_HG_150701A
	INC-MW01-011	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	70325	1	07/07/15 01:16 PM	ICP-MS4_150707B
1506310-15C	INC-MW01-011	Aqueous	SW8270D	Semivolatiles by GC/MS - Water	70291	1	07/02/15 05:47 PM	GCMS9_150702A
1506310-15D	INC-MW01-011	Aqueous	SW8270D	PCB by GC/MS - Aqueous	70277	1	07/06/15 10:25 PM	GCMS8_150706A
1506310-16A	INC-MW03-013	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	70238	1	06/29/15 11:58 AM	GCMS5_150629A
1506310-16B	INC-MW03-013	Aqueous	SW7470A	Mercury Total: Aqueous	70272	1	07/01/15 11:17 AM	CETAC2_HG_150701A
	INC-MW03-013	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	70325	1	07/07/15 12:54 PM	ICP-MS4_150707B
1506310-16C	INC-MW03-013	Aqueous	SW8270D	Semivolatiles by GC/MS - Water	70291	1	07/02/15 03:50 PM	GCMS9_150702A
1506310-16D	INC-MW03-013	Aqueous	SW8270D	PCB by GC/MS - Aqueous	70277	1	07/06/15 10:56 PM	GCMS8_150706A
1506310-17A	INC-SB05-010	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70240	1	06/30/15 08:34 PM	GCMS1_150630A
1506310-17B	INC-SB05-010	Soil	D2216	Percent Moisture	70303	1	07/02/15 08:57 AM	PMOIST_150701A
	INC-SB05-010	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 11:25 AM	CETAC2_HG_150707A
	INC-SB05-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/06/15 07:00 PM	ICP-MS4_150706B
	INC-SB05-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	50	07/07/15 11:33 AM	ICP-MS4_150707B
1506310-17C	INC-SB05-010	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/02/15 09:00 PM	GCMS8_150702A
	INC-SB05-010	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70307	1	07/07/15 09:46 PM	GCMS9_150707A
1506310-18A	INC-SB05-020	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70240	1	06/30/15 11:42 PM	GCMS1_150630A
1506310-18B	INC-SB05-020	Soil	D2216	Percent Moisture	70303	1	07/02/15 08:57 AM	PMOIST_150701A
	INC-SB05-020	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 11:27 AM	CETAC2_HG_150707A
	INC-SB05-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/06/15 07:02 PM	ICP-MS4_150706B
	INC-SB05-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	50	07/07/15 11:35 AM	ICP-MS4_150707B

Lab Order: 1506310
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506310-18C	INC-SB05-020	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/02/15 06:27 PM	GCMS8_150702A
	INC-SB05-020	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70307	1	07/07/15 08:37 PM	GCMS9_150707A
1506310-19A	INC-SB05-021	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70240	1	07/01/15 12:13 AM	GCMS1_150630A
1506310-19B	INC-SB05-021	Soil	D2216	Percent Moisture	70303	1	07/02/15 08:57 AM	PMOIST_150701A
	INC-SB05-021	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 11:34 AM	CETAC2_HG_150707A
	INC-SB05-021	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/06/15 07:04 PM	ICP-MS4_150706B
	INC-SB05-021	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	50	07/07/15 11:37 AM	ICP-MS4_150707B
1506310-19C	INC-SB05-021	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/02/15 07:28 PM	GCMS8_150702A
	INC-SB05-021	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70307	1	07/07/15 09:23 PM	GCMS9_150707A
1506310-20A	INC-SB01-010	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70240	1	07/01/15 12:45 AM	GCMS1_150630A
1506310-20B	INC-SB01-010	Soil	D2216	Percent Moisture	70304	1	07/02/15 08:57 AM	PMOIST_150701B
	INC-SB01-010	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 11:36 AM	CETAC2_HG_150707A
	INC-SB01-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/06/15 07:06 PM	ICP-MS4_150706B
	INC-SB01-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	50	07/07/15 11:39 AM	ICP-MS4_150707B
1506310-20C	INC-SB01-010	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/06/15 01:17 PM	GCMS8_150702A
	INC-SB01-010	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/03/15 12:02 AM	GCMS8_150702A
	INC-SB01-010	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70307	1	07/07/15 11:19 PM	GCMS9_150707A
1506310-21A	INC-SB01-011	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70240	1	07/01/15 01:16 AM	GCMS1_150630A
1506310-21B	INC-SB01-011	Soil	D2216	Percent Moisture	70304	1	07/02/15 08:57 AM	PMOIST_150701B
	INC-SB01-011	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 11:39 AM	CETAC2_HG_150707A
	INC-SB01-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/06/15 07:08 PM	ICP-MS4_150706B
	INC-SB01-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	50	07/07/15 11:41 AM	ICP-MS4_150707B
1506310-21C	INC-SB01-011	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/03/15 12:32 AM	GCMS8_150702A
	INC-SB01-011	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70307	1	07/07/15 11:42 PM	GCMS9_150707A
1506310-22A	INC-SB01-020	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70240	1	07/01/15 01:47 AM	GCMS1_150630A
1506310-22B	INC-SB01-020	Soil	D2216	Percent Moisture	70304	1	07/02/15 08:57 AM	PMOIST_150701B

Lab Order: 1506310
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506310-22B	INC-SB01-020	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 11:41 AM	CETAC2_HG_150707A
	INC-SB01-020	Soil	SW7471B	Total Mercury: Soil/Solid	70331	5	07/07/15 12:17 PM	CETAC2_HG_150707A
	INC-SB01-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/06/15 07:10 PM	ICP-MS4_150706B
	INC-SB01-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	50	07/07/15 11:43 AM	ICP-MS4_150707B
1506310-22C	INC-SB01-020	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/02/15 06:57 PM	GCMS8_150702A
	INC-SB01-020	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70307	1	07/07/15 09:00 PM	GCMS9_150707A
1506310-23A	INC-SB04-010	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70297	1	07/01/15 05:25 PM	GCMS1_150701A
	INC-SB04-010	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70240	1	07/01/15 02:18 AM	GCMS1_150630A
1506310-23B	INC-SB04-010	Soil	D2216	Percent Moisture	70304	1	07/02/15 08:57 AM	PMOIST_150701B
	INC-SB04-010	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 11:43 AM	CETAC2_HG_150707A
	INC-SB04-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/06/15 07:25 PM	ICP-MS4_150706B
	INC-SB04-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/07/15 12:05 PM	ICP-MS4_150707B
1506310-23C	INC-SB04-010	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/02/15 11:32 PM	GCMS8_150702A
	INC-SB04-010	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70307	1	07/10/15 04:04 PM	GCMS9_150710A
1506310-24A	INC-SB04-020	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70297	1	07/01/15 01:16 PM	GCMS1_150701A
1506310-24B	INC-SB04-020	Soil	D2216	Percent Moisture	70304	1	07/02/15 08:57 AM	PMOIST_150701B
	INC-SB04-020	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 11:46 AM	CETAC2_HG_150707A
	INC-SB04-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/06/15 07:27 PM	ICP-MS4_150706B
	INC-SB04-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/07/15 12:07 PM	ICP-MS4_150707B
1506310-24C	INC-SB04-020	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/02/15 05:57 PM	GCMS8_150702A
	INC-SB04-020	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70307	1	07/07/15 07:50 PM	GCMS9_150707A
1506310-25A	INC-SB02-010	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70297	1	07/01/15 01:47 PM	GCMS1_150701A
1506310-25B	INC-SB02-010	Soil	D2216	Percent Moisture	70304	1	07/02/15 08:57 AM	PMOIST_150701B
	INC-SB02-010	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 11:48 AM	CETAC2_HG_150707A
	INC-SB02-010	Soil	SW7471B	Total Mercury: Soil/Solid	70331	5	07/07/15 12:19 PM	CETAC2_HG_150707A

Lab Order: 1506310
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506310-25B	INC-SB02-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/06/15 07:29 PM	ICP-MS4_150706B
	INC-SB02-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	100	07/07/15 12:09 PM	ICP-MS4_150707B
1506310-25C	INC-SB02-010	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/03/15 01:03 AM	GCMS8_150702A
	INC-SB02-010	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70309	1	07/06/15 01:48 PM	GCMS8_150702A
	INC-SB02-010	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70307	1	07/08/15 12:05 AM	GCMS9_150707A
1506310-26A	INC-SB02-020	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70297	1	07/01/15 02:18 PM	GCMS1_150701A
1506310-26B	INC-SB02-020	Soil	D2216	Percent Moisture	70304	1	07/02/15 08:57 AM	PMOIST_150701B
	INC-SB02-020	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 11:50 AM	CETAC2_HG_150707A
	INC-SB02-020	Soil	SW7471B	Total Mercury: Soil/Solid	70331	5	07/07/15 12:21 PM	CETAC2_HG_150707A
	INC-SB02-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/06/15 07:31 PM	ICP-MS4_150706B
	INC-SB02-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	50	07/07/15 12:11 PM	ICP-MS4_150707B
1506310-26C	INC-SB02-020	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70341	1	07/07/15 11:15 PM	GCMS8_150707A
	INC-SB02-020	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70340	1	07/08/15 08:56 PM	GCMS9_150708B
1506310-27A	INC-SB03-013	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70240	1	06/30/15 01:47 PM	GCMS1_150630A
1506310-27B	INC-SB03-013	Soil	D2216	Percent Moisture	70304	1	07/02/15 08:57 AM	PMOIST_150701B
	INC-SB03-013	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 10:57 AM	CETAC2_HG_150707A
	INC-SB03-013	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/06/15 06:51 PM	ICP-MS4_150706B
	INC-SB03-013	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	50	07/07/15 11:23 AM	ICP-MS4_150707B
1506310-27C	INC-SB03-013	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70341	1	07/08/15 12:16 AM	GCMS8_150707A
	INC-SB03-013	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70340	1	07/08/15 09:42 PM	GCMS9_150708B
	INC-SB03-013	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70340	10	07/09/15 12:12 PM	GCMS9_150708B
1506310-28A	INC-SB03-020	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70297	1	07/01/15 02:50 PM	GCMS1_150701A
1506310-28B	INC-SB03-020	Soil	D2216	Percent Moisture	70304	1	07/02/15 08:57 AM	PMOIST_150701B
	INC-SB03-020	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 11:53 AM	CETAC2_HG_150707A
	INC-SB03-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/06/15 07:33 PM	ICP-MS4_150706B
	INC-SB03-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	50	07/07/15 12:13 PM	ICP-MS4_150707B

Lab Order: 1506310
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506310-28C	INC-SB03-020	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70341	1	07/07/15 08:11 PM	GCMS8_150707A
	INC-SB03-020	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70340	1	07/08/15 07:47 PM	GCMS9_150708B
1506310-29B	INC-SB24-010	Soil	D2216	Percent Moisture	70304	1	07/02/15 08:57 AM	PMOIST_150701B
	INC-SB24-010	Soil	SW7471B	Total Mercury: Soil/Solid	70331	1	07/07/15 11:55 AM	CETAC2_HG_150707A
	INC-SB24-010	Soil	SW7471B	Total Mercury: Soil/Solid	70331	5	07/07/15 12:24 PM	CETAC2_HG_150707A
	INC-SB24-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/06/15 07:35 PM	ICP-MS4_150706B
	INC-SB24-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	50	07/07/15 12:15 PM	ICP-MS4_150707B
1506310-29C	INC-SB24-010	Soil	SW8270D-LL	PAHs: GC/MS	70332	5	07/08/15 05:53 PM	GCMS4_150708A
1506310-30A	INC-SB24-015	Aqueous	SW7470A	Mercury Total: Aqueous	70272	1	07/01/15 11:37 AM	CETAC2_HG_150701A
	INC-SB24-015	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	70325	1	07/07/15 01:45 PM	ICP-MS4_150707B
1506310-30B	INC-SB24-015	Aqueous	SW8270D-LL	PAHs: GC/MS	70265	1	06/30/15 09:44 PM	GCMS6_150630A
1506310-31B	INC-SB24-020	Soil	D2216	Percent Moisture	70304	1	07/02/15 08:57 AM	PMOIST_150701B
	INC-SB24-020	Soil	SW7471B	Total Mercury: Soil/Solid	70353	5	07/09/15 01:29 PM	CETAC2_HG_150709C
	INC-SB24-020	Soil	SW7471B	Total Mercury: Soil/Solid	70353	1	07/09/15 12:59 PM	CETAC2_HG_150709C
	INC-SB24-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/06/15 07:37 PM	ICP-MS4_150706B
	INC-SB24-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	100	07/07/15 12:17 PM	ICP-MS4_150707B
1506310-31C	INC-SB24-020	Soil	SW8270D-LL	PAHs: GC/MS	70332	5	07/08/15 06:24 PM	GCMS4_150708A
1506310-32A	INC-SB10-010	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70297	1	07/01/15 03:21 PM	GCMS1_150701A
1506310-32B	INC-SB10-010	Soil	TX1005	Tx1005 TPH Soil	70264	1	07/02/15 10:02 AM	GC15_150702A
1506310-32C	INC-SB10-010	Soil	D2216	Percent Moisture	70304	1	07/02/15 08:57 AM	PMOIST_150701B
	INC-SB10-010	Soil	SW7471B	Total Mercury: Soil/Solid	70353	1	07/09/15 12:48 PM	CETAC2_HG_150709C
	INC-SB10-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/06/15 07:39 PM	ICP-MS4_150706B
	INC-SB10-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/07/15 12:19 PM	ICP-MS4_150707B
1506310-32D	INC-SB10-010	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70341	1	07/07/15 08:42 PM	GCMS8_150707A
	INC-SB10-010	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70340	1	07/08/15 08:10 PM	GCMS9_150708B

Lab Order: 1506310
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506310-33A	INC-SB10-020	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70297	1	07/01/15 03:52 PM	GCMS1_150701A
1506310-33B	INC-SB10-020	Soil	TX1005	Tx1005 TPH Soil	70264	1	07/02/15 10:11 AM	GC15_150702A
1506310-33C	INC-SB10-020	Soil	D2216	Percent Moisture	70304	1	07/02/15 08:57 AM	PMOIST_150701B
	INC-SB10-020	Soil	SW7471B	Total Mercury: Soil/Solid	70353	1	07/09/15 01:01 PM	CETAC2_HG_150709C
	INC-SB10-020	Soil	SW7471B	Total Mercury: Soil/Solid	70353	10	07/09/15 01:31 PM	CETAC2_HG_150709C
	INC-SB10-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/06/15 07:41 PM	ICP-MS4_150706B
	INC-SB10-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	50	07/07/15 12:20 PM	ICP-MS4_150707B
1506310-33D	INC-SB10-020	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70341	1	07/07/15 11:46 PM	GCMS8_150707A
	INC-SB10-020	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70340	1	07/08/15 09:19 PM	GCMS9_150708B
1506310-34A	INC-SB09-010	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70297	1	07/01/15 04:23 PM	GCMS1_150701A
	INC-SB09-010	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70351	1	07/07/15 12:48 PM	GCMS1_150707A
1506310-34B	INC-SB09-010	Soil	TX1005	Tx1005 TPH Soil	70264	1	07/02/15 10:20 AM	GC15_150702A
1506310-34C	INC-SB09-010	Soil	D2216	Percent Moisture	70304	1	07/02/15 08:57 AM	PMOIST_150701B
	INC-SB09-010	Soil	SW7471B	Total Mercury: Soil/Solid	70353	1	07/09/15 01:06 PM	CETAC2_HG_150709C
	INC-SB09-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	5	07/06/15 07:42 PM	ICP-MS4_150706B
	INC-SB09-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70316	50	07/07/15 12:22 PM	ICP-MS4_150707B
1506310-34D	INC-SB09-010	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70341	1	07/08/15 09:52 AM	GCMS8_150707A
	INC-SB09-010	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70341	5	07/08/15 12:18 PM	GCMS8_150707A
	INC-SB09-010	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70340	10	07/08/15 10:06 PM	GCMS9_150708B
1506310-35A	INC-SB09-020	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	70297	1	07/01/15 04:54 PM	GCMS1_150701A
1506310-35B	INC-SB09-020	Soil	TX1005	Tx1005 TPH Soil	70264	1	07/02/15 10:29 AM	GC15_150702A
1506310-35C	INC-SB09-020	Soil	SW8270D	PCB by GC/MS - Soil/Solid	70341	1	07/07/15 09:13 PM	GCMS8_150707A
	INC-SB09-020	Soil	D2216	Percent Moisture	70304	1	07/02/15 08:57 AM	PMOIST_150701B
	INC-SB09-020	Soil	SW8270D	Semivolatiles by GC/MS - Soil	70340	5	07/08/15 08:33 PM	GCMS9_150708B
	INC-SB09-020	Soil	SW7471B	Total Mercury: Soil/Solid	70353	1	07/09/15 01:08 PM	CETAC2_HG_150709C
	INC-SB09-020	Soil	SW7471B	Total Mercury: Soil/Solid	70353	5	07/09/15 02:06 PM	CETAC2_HG_150709C

Lab Order: 1506310
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1506310-35C	INC-SB09-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	70338	50	07/08/15 01:11 PM	ICP-MS4_150708B
1506310-36A	INC-SB09-015	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	70238	1	06/29/15 05:07 PM	GCMS5_150629A
1506310-36B	INC-SB09-015	Aqueous	TX1005	Tx1005 TPH Water	70234	1	06/30/15 12:00 PM	GC12_150630A
1506310-36C	INC-SB09-015	Aqueous	SW7470A	Mercury Total: Aqueous	70272	1	07/01/15 11:39 AM	CETAC2_HG_150701A
	INC-SB09-015	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	70325	1	07/07/15 01:47 PM	ICP-MS4_150707B
1506310-36D	INC-SB09-015	Aqueous	SW8270D	Semivolatiles by GC/MS - Water	70291	1	07/02/15 06:10 PM	GCMS9_150702A
1506310-36E	INC-SB09-015	Aqueous	SW8270D	PCB by GC/MS - Aqueous	70277	1	07/06/15 11:27 PM	GCMS8_150706A
1506310-37A	INC-TB01-0615	Trip Blank	SW8260C	8260 Water Volatiles by GC/MS	70238	1	06/29/15 05:31 PM	GCMS5_150629A
1506310-38A	INC-TB02-0615	Trip Blank	SW8260C	8260 Water Volatiles by GC/MS	70238	1	06/29/15 05:55 PM	GCMS5_150629A

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB14-013
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-01
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 08:30 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.0676	0.0154	0.0385		mg/Kg-dry	1	07/07/15 09:47 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	<5.01	5.01	10.0		mg/Kg-dry	50	07/07/15 06:06 PM
Barium	140	5.01	20.0		mg/Kg-dry	50	07/07/15 06:06 PM
Cadmium	<1.00	1.00	3.01		mg/Kg-dry	50	07/07/15 06:06 PM
Chromium	17.6	5.01	20.0	J	mg/Kg-dry	50	07/07/15 06:06 PM
Lead	149	1.00	3.01		mg/Kg-dry	50	07/07/15 06:06 PM
Selenium	<1.50	1.50	5.01		mg/Kg-dry	50	07/07/15 06:06 PM
Silver	<1.00	1.00	2.00		mg/Kg-dry	50	07/07/15 06:06 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **KL**
Acenaphthene	<0.103	0.103	0.206		mg/Kg-dry	20	07/08/15 03:19 PM
Acenaphthylene	<0.103	0.103	0.206		mg/Kg-dry	20	07/08/15 03:19 PM
Anthracene	<0.103	0.103	0.206		mg/Kg-dry	20	07/08/15 03:19 PM
Benzo[a]anthracene	0.691	0.103	0.206		mg/Kg-dry	20	07/08/15 03:19 PM
Benzo[a]pyrene	0.793	0.103	0.206		mg/Kg-dry	20	07/08/15 03:19 PM
Benzo[b]fluoranthene	1.03	0.103	0.206		mg/Kg-dry	20	07/08/15 03:19 PM
Benzo[g,h,i]perylene	0.723	0.103	0.206		mg/Kg-dry	20	07/08/15 03:19 PM
Benzo[k]fluoranthene	0.608	0.103	0.206		mg/Kg-dry	20	07/08/15 03:19 PM
Chrysene	0.746	0.103	0.206		mg/Kg-dry	20	07/08/15 03:19 PM
Dibenz[a,h]anthracene	<0.103	0.103	0.206		mg/Kg-dry	20	07/08/15 03:19 PM
Fluoranthene	1.21	0.103	0.206		mg/Kg-dry	20	07/08/15 03:19 PM
Fluorene	<0.103	0.103	0.206		mg/Kg-dry	20	07/08/15 03:19 PM
Indeno[1,2,3-cd]pyrene	0.794	0.103	0.206		mg/Kg-dry	20	07/08/15 03:19 PM
Naphthalene	<0.103	0.103	0.206		mg/Kg-dry	20	07/08/15 03:19 PM
Phenanthrene	0.469	0.103	0.206		mg/Kg-dry	20	07/08/15 03:19 PM
Pyrene	1.09	0.103	0.206		mg/Kg-dry	20	07/08/15 03:19 PM
Surr: 2-Fluorobiphenyl	71.3	0	43-125		%REC	20	07/08/15 03:19 PM
Surr: 4-Terphenyl-d14	67.3	0	32-125		%REC	20	07/08/15 03:19 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	5.84	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB14-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-02
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 08:40 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.0248	0.0163	0.0407	J	mg/Kg-dry	1	07/07/15 10:35 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	<5.94	5.94	11.9		mg/Kg-dry	50	07/07/15 07:01 PM
Barium	25.7	5.94	23.8		mg/Kg-dry	50	07/07/15 07:01 PM
Cadmium	<1.19	1.19	3.56		mg/Kg-dry	50	07/07/15 07:01 PM
Chromium	7.47	5.94	23.8	J	mg/Kg-dry	50	07/07/15 07:01 PM
Lead	16.3	1.19	3.56		mg/Kg-dry	50	07/07/15 07:01 PM
Selenium	<1.78	1.78	5.94		mg/Kg-dry	50	07/07/15 07:01 PM
Silver	<1.19	1.19	2.38		mg/Kg-dry	50	07/07/15 07:01 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **KL**
Acenaphthene	<0.0580	0.0580	0.116		mg/Kg-dry	10	07/08/15 03:50 PM
Acenaphthylene	<0.0580	0.0580	0.116		mg/Kg-dry	10	07/08/15 03:50 PM
Anthracene	<0.0580	0.0580	0.116		mg/Kg-dry	10	07/08/15 03:50 PM
Benzo[a]anthracene	0.230	0.0580	0.116		mg/Kg-dry	10	07/08/15 03:50 PM
Benzo[a]pyrene	0.324	0.0580	0.116		mg/Kg-dry	10	07/08/15 03:50 PM
Benzo[b]fluoranthene	0.323	0.0580	0.116		mg/Kg-dry	10	07/08/15 03:50 PM
Benzo[g,h,i]perylene	0.217	0.0580	0.116		mg/Kg-dry	10	07/08/15 03:50 PM
Benzo[k]fluoranthene	0.209	0.0580	0.116		mg/Kg-dry	10	07/08/15 03:50 PM
Chrysene	0.247	0.0580	0.116		mg/Kg-dry	10	07/08/15 03:50 PM
Dibenz[a,h]anthracene	<0.0580	0.0580	0.116		mg/Kg-dry	10	07/08/15 03:50 PM
Fluoranthene	0.641	0.0580	0.116		mg/Kg-dry	10	07/08/15 03:50 PM
Fluorene	<0.0580	0.0580	0.116		mg/Kg-dry	10	07/08/15 03:50 PM
Indeno[1,2,3-cd]pyrene	0.257	0.0580	0.116		mg/Kg-dry	10	07/08/15 03:50 PM
Naphthalene	<0.0580	0.0580	0.116		mg/Kg-dry	10	07/08/15 03:50 PM
Phenanthrene	0.313	0.0580	0.116		mg/Kg-dry	10	07/08/15 03:50 PM
Pyrene	0.609	0.0580	0.116		mg/Kg-dry	10	07/08/15 03:50 PM
Surr: 2-Fluorobiphenyl	67.0	0	43-125		%REC	10	07/08/15 03:50 PM
Surr: 4-Terphenyl-d14	66.3	0	32-125		%REC	10	07/08/15 03:50 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	15.8	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB15-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-03
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 08:50 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	<0.0148	0.0148	0.0369		mg/Kg-dry	1	07/07/15 10:37 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	<4.90	4.90	9.81		mg/Kg-dry	50	07/07/15 07:03 PM
Barium	28.0	4.90	19.6		mg/Kg-dry	50	07/07/15 07:03 PM
Cadmium	<0.981	0.981	2.94		mg/Kg-dry	50	07/07/15 07:03 PM
Chromium	8.66	4.90	19.6	J	mg/Kg-dry	50	07/07/15 07:03 PM
Lead	18.3	0.981	2.94		mg/Kg-dry	50	07/07/15 07:03 PM
Selenium	<1.47	1.47	4.90		mg/Kg-dry	50	07/07/15 07:03 PM
Silver	<0.981	0.981	1.96		mg/Kg-dry	50	07/07/15 07:03 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **KL**
Acenaphthene	<0.105	0.105	0.209		mg/Kg-dry	20	07/08/15 07:26 PM
Acenaphthylene	<0.105	0.105	0.209		mg/Kg-dry	20	07/08/15 07:26 PM
Anthracene	<0.105	0.105	0.209		mg/Kg-dry	20	07/08/15 07:26 PM
Benzo[a]anthracene	<0.105	0.105	0.209		mg/Kg-dry	20	07/08/15 07:26 PM
Benzo[a]pyrene	<0.105	0.105	0.209		mg/Kg-dry	20	07/08/15 07:26 PM
Benzo[b]fluoranthene	<0.105	0.105	0.209		mg/Kg-dry	20	07/08/15 07:26 PM
Benzo[g,h,i]perylene	<0.105	0.105	0.209		mg/Kg-dry	20	07/08/15 07:26 PM
Benzo[k]fluoranthene	<0.105	0.105	0.209		mg/Kg-dry	20	07/08/15 07:26 PM
Chrysene	<0.105	0.105	0.209		mg/Kg-dry	20	07/08/15 07:26 PM
Dibenz[a,h]anthracene	<0.105	0.105	0.209		mg/Kg-dry	20	07/08/15 07:26 PM
Fluoranthene	<0.105	0.105	0.209		mg/Kg-dry	20	07/08/15 07:26 PM
Fluorene	<0.105	0.105	0.209		mg/Kg-dry	20	07/08/15 07:26 PM
Indeno[1,2,3-cd]pyrene	<0.105	0.105	0.209		mg/Kg-dry	20	07/08/15 07:26 PM
Naphthalene	<0.105	0.105	0.209		mg/Kg-dry	20	07/08/15 07:26 PM
Phenanthrene	<0.105	0.105	0.209		mg/Kg-dry	20	07/08/15 07:26 PM
Pyrene	<0.105	0.105	0.209		mg/Kg-dry	20	07/08/15 07:26 PM
Surr: 2-Fluorobiphenyl	81.0	0	43-125		%REC	20	07/08/15 07:26 PM
Surr: 4-Terphenyl-d14	80.2	0	32-125		%REC	20	07/08/15 07:26 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	7.31	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB15-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-04
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 09:50 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.0329	0.0193	0.0482	J	mg/Kg-dry	1	07/07/15 10:39 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	<6.84	6.84	13.7		mg/Kg-dry	50	07/07/15 07:05 PM
Barium	164	6.84	27.4		mg/Kg-dry	50	07/07/15 07:05 PM
Cadmium	<1.37	1.37	4.10		mg/Kg-dry	50	07/07/15 07:05 PM
Chromium	11.1	6.84	27.4	J	mg/Kg-dry	50	07/07/15 07:05 PM
Lead	27.1	1.37	4.10		mg/Kg-dry	50	07/07/15 07:05 PM
Selenium	<2.05	2.05	6.84		mg/Kg-dry	50	07/07/15 07:05 PM
Silver	<1.37	1.37	2.74		mg/Kg-dry	50	07/07/15 07:05 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **KL**
Acenaphthene	<0.319	0.319	0.639		mg/Kg-dry	50	07/08/15 04:52 PM
Acenaphthylene	<0.319	0.319	0.639		mg/Kg-dry	50	07/08/15 04:52 PM
Anthracene	<0.319	0.319	0.639		mg/Kg-dry	50	07/08/15 04:52 PM
Benzo[a]anthracene	<0.319	0.319	0.639		mg/Kg-dry	50	07/08/15 04:52 PM
Benzo[a]pyrene	<0.319	0.319	0.639		mg/Kg-dry	50	07/08/15 04:52 PM
Benzo[b]fluoranthene	0.646	0.319	0.639		mg/Kg-dry	50	07/08/15 04:52 PM
Benzo[g,h,i]perylene	<0.319	0.319	0.639		mg/Kg-dry	50	07/08/15 04:52 PM
Benzo[k]fluoranthene	0.473	0.319	0.639	J	mg/Kg-dry	50	07/08/15 04:52 PM
Chrysene	<0.319	0.319	0.639		mg/Kg-dry	50	07/08/15 04:52 PM
Dibenz[a,h]anthracene	<0.319	0.319	0.639		mg/Kg-dry	50	07/08/15 04:52 PM
Fluoranthene	0.787	0.319	0.639		mg/Kg-dry	50	07/08/15 04:52 PM
Fluorene	<0.319	0.319	0.639		mg/Kg-dry	50	07/08/15 04:52 PM
Indeno[1,2,3-cd]pyrene	<0.319	0.319	0.639		mg/Kg-dry	50	07/08/15 04:52 PM
Naphthalene	<0.319	0.319	0.639		mg/Kg-dry	50	07/08/15 04:52 PM
Phenanthrene	<0.319	0.319	0.639		mg/Kg-dry	50	07/08/15 04:52 PM
Pyrene	0.670	0.319	0.639		mg/Kg-dry	50	07/08/15 04:52 PM
Surr: 2-Fluorobiphenyl	77.5	0	43-125		%REC	50	07/08/15 04:52 PM
Surr: 4-Terphenyl-d14	76.0	0	32-125		%REC	50	07/08/15 04:52 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	28.3	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB15-021
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-05
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 09:50 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.0387	0.0164	0.0410	J	mg/Kg-dry	1	07/07/15 11:09 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	<5.74	5.74	11.5		mg/Kg-dry	50	07/07/15 07:07 PM
Barium	110	5.74	22.9		mg/Kg-dry	50	07/07/15 07:07 PM
Cadmium	<1.15	1.15	3.44		mg/Kg-dry	50	07/07/15 07:07 PM
Chromium	11.7	5.74	22.9	J	mg/Kg-dry	50	07/07/15 07:07 PM
Lead	37.9	1.15	3.44		mg/Kg-dry	50	07/07/15 07:07 PM
Selenium	<1.72	1.72	5.74		mg/Kg-dry	50	07/07/15 07:07 PM
Silver	<1.15	1.15	2.29		mg/Kg-dry	50	07/07/15 07:07 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **KL**
Acenaphthene	<0.113	0.113	0.225		mg/Kg-dry	20	07/08/15 05:23 PM
Acenaphthylene	<0.113	0.113	0.225		mg/Kg-dry	20	07/08/15 05:23 PM
Anthracene	<0.113	0.113	0.225		mg/Kg-dry	20	07/08/15 05:23 PM
Benzo[a]anthracene	<0.113	0.113	0.225		mg/Kg-dry	20	07/08/15 05:23 PM
Benzo[a]pyrene	0.334	0.113	0.225		mg/Kg-dry	20	07/08/15 05:23 PM
Benzo[b]fluoranthene	0.399	0.113	0.225		mg/Kg-dry	20	07/08/15 05:23 PM
Benzo[g,h,i]perylene	<0.113	0.113	0.225		mg/Kg-dry	20	07/08/15 05:23 PM
Benzo[k]fluoranthene	0.269	0.113	0.225		mg/Kg-dry	20	07/08/15 05:23 PM
Chrysene	0.330	0.113	0.225		mg/Kg-dry	20	07/08/15 05:23 PM
Dibenz[a,h]anthracene	<0.113	0.113	0.225		mg/Kg-dry	20	07/08/15 05:23 PM
Fluoranthene	0.565	0.113	0.225		mg/Kg-dry	20	07/08/15 05:23 PM
Fluorene	<0.113	0.113	0.225		mg/Kg-dry	20	07/08/15 05:23 PM
Indeno[1,2,3-cd]pyrene	0.297	0.113	0.225		mg/Kg-dry	20	07/08/15 05:23 PM
Naphthalene	<0.113	0.113	0.225		mg/Kg-dry	20	07/08/15 05:23 PM
Phenanthrene	0.252	0.113	0.225		mg/Kg-dry	20	07/08/15 05:23 PM
Pyrene	0.477	0.113	0.225		mg/Kg-dry	20	07/08/15 05:23 PM
Surr: 2-Fluorobiphenyl	79.0	0	43-125		%REC	20	07/08/15 05:23 PM
Surr: 4-Terphenyl-d14	77.8	0	32-125		%REC	20	07/08/15 05:23 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	12.8	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB08-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-06
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:05 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.903	0.0802	0.201		mg/Kg-dry	5	07/07/15 12:14 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	56.5	5.74	11.5		mg/Kg-dry	50	07/07/15 07:09 PM
Barium	1100	5.74	22.9		mg/Kg-dry	50	07/07/15 07:09 PM
Cadmium	10.0	1.15	3.44		mg/Kg-dry	50	07/07/15 07:09 PM
Chromium	100	5.74	22.9		mg/Kg-dry	50	07/07/15 07:09 PM
Lead	2710	1.15	3.44		mg/Kg-dry	50	07/07/15 07:09 PM
Selenium	<1.72	1.72	5.74		mg/Kg-dry	50	07/07/15 07:09 PM
Silver	6.84	1.15	2.29		mg/Kg-dry	50	07/07/15 07:09 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
2,4,6-Trichlorophenol	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
2,4-Dichlorophenol	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
2,4-Dimethylphenol	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
2,4-Dinitrophenol	<0.0577	0.0577	0.152		mg/Kg-dry	1	07/07/15 10:56 PM
2,4-Dinitrotoluene	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
2,6-Dinitrotoluene	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
2-Chloronaphthalene	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
2-Chlorophenol	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
2-Methylnaphthalene	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
2-Methylphenol	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
2-Nitroaniline	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
2-Nitrophenol	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
3,3´-Dichlorobenzidine	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
3-Nitroaniline	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
4,6-Dinitro-2-methylphenol	<0.0346	0.0346	0.0762		mg/Kg-dry	1	07/07/15 10:56 PM
4-Bromophenyl phenyl ether	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
4-Chloro-3-methylphenol	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
4-Chloroaniline	<0.0346	0.0346	0.0762		mg/Kg-dry	1	07/07/15 10:56 PM
4-Chlorophenyl phenyl ether	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
4-Methylphenol	<0.0231	0.0231	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
4-Nitroaniline	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
4-Nitrophenol	<0.0577	0.0577	0.152		mg/Kg-dry	1	07/07/15 10:56 PM
Acenaphthene	0.0200	0.0115	0.0307	J	mg/Kg-dry	1	07/07/15 10:56 PM
Acenaphthylene	0.0723	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Acetophenone	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Anthracene	0.0800	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Atrazine	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB08-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-06
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:05 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.0115	0.0115	0.0307	N	mg/Kg-dry	1	07/07/15 10:56 PM
Benzo[a]anthracene	0.425	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Benzo[a]pyrene	0.476	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Benzo[b]fluoranthene	0.533	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Benzo[g,h,i]perylene	0.387	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Benzo[k]fluoranthene	0.398	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Benzoic acid	0.104	0.0577	0.152	J	mg/Kg-dry	1	07/07/15 10:56 PM
Benzyl alcohol	<0.0115	0.0115	0.0762		mg/Kg-dry	1	07/07/15 10:56 PM
Biphenyl	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Bis(2-chloroethoxy)methane	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Bis(2-chloroethyl)ether	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Bis(2-chloroisopropyl)ether	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Bis(2-ethylhexyl)phthalate	0.325	0.0346	0.0762		mg/Kg-dry	1	07/07/15 10:56 PM
Butyl benzyl phthalate	0.0477	0.0462	0.0762	J	mg/Kg-dry	1	07/07/15 10:56 PM
Caprolactam	<0.0231	0.0231	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Carbazole	0.0462	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Chrysene	0.425	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Dibenz[a,h]anthracene	0.163	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Dibenzofuran	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Diethyl phthalate	<0.0462	0.0462	0.0762		mg/Kg-dry	1	07/07/15 10:56 PM
Dimethyl phthalate	<0.0462	0.0462	0.0762		mg/Kg-dry	1	07/07/15 10:56 PM
Di-n-butyl phthalate	0.0477	0.0462	0.0762	J	mg/Kg-dry	1	07/07/15 10:56 PM
Di-n-octyl phthalate	0.0677	0.0462	0.0762	J	mg/Kg-dry	1	07/07/15 10:56 PM
Fluoranthene	0.757	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Fluorene	0.0216	0.0115	0.0307	J	mg/Kg-dry	1	07/07/15 10:56 PM
Hexachlorobenzene	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Hexachlorobutadiene	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Hexachlorocyclopentadiene	<0.0346	0.0346	0.0762		mg/Kg-dry	1	07/07/15 10:56 PM
Hexachloroethane	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Indeno[1,2,3-cd]pyrene	0.351	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Isophorone	<0.0346	0.0346	0.0762		mg/Kg-dry	1	07/07/15 10:56 PM
Naphthalene	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Nitrobenzene	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
N-Nitrosodi-n-propylamine	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
N-Nitrosodiphenylamine	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Pentachlorophenol	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Phenanthrene	0.326	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Phenol	<0.0115	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM
Pyrene	0.493	0.0115	0.0307		mg/Kg-dry	1	07/07/15 10:56 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB08-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-06
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:05 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	85.0	0	45-126		%REC	1	07/07/15 10:56 PM
Surr: 2-Fluorobiphenyl	77.0	0	60-125		%REC	1	07/07/15 10:56 PM
Surr: 2-Fluorophenol	79.0	0	37-125		%REC	1	07/07/15 10:56 PM
Surr: 4-Terphenyl-d14	61.0	0	45-125		%REC	1	07/07/15 10:56 PM
Surr: Nitrobenzene-d5	83.0	0	45-125		%REC	1	07/07/15 10:56 PM
Surr: Phenol-d5	89.0	0	40-125		%REC	1	07/07/15 10:56 PM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **KL**
Aroclor 1016	<0.0192	0.0192	0.0385		mg/Kg-dry	1	07/06/15 02:19 PM
Aroclor 1221	<0.0192	0.0192	0.0385		mg/Kg-dry	1	07/06/15 02:19 PM
Aroclor 1232	<0.0192	0.0192	0.0385		mg/Kg-dry	1	07/06/15 02:19 PM
Aroclor 1242	<0.0192	0.0192	0.0385		mg/Kg-dry	1	07/06/15 02:19 PM
Aroclor 1248	<0.0192	0.0192	0.0385		mg/Kg-dry	1	07/06/15 02:19 PM
Aroclor 1254	0.110	0.0192	0.0385		mg/Kg-dry	1	07/06/15 02:19 PM
Aroclor 1260	0.0855	0.0192	0.0385		mg/Kg-dry	1	07/06/15 02:19 PM
Surr: 2-Fluorobiphenyl	115	0	43-125		%REC	1	07/06/15 02:19 PM
Surr: 4-Terphenyl-d14	126	0	32-125	S	%REC	1	07/06/15 02:19 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
1,1,1-Trichloroethane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
1,1,2,2-Tetrachloroethane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
1,1,2-Trichloroethane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
1,1,2-Trichlorotrifluoroethane	<0.00652	0.00652	0.0196		mg/Kg-dry	1	06/30/15 05:26 PM
1,1-Dichloroethane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
1,1-Dichloroethene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
1,1-Dichloropropene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
1,2,3-Trichlorobenzene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
1,2,3-Trichloropropane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
1,2,4-Trichlorobenzene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
1,2,4-Trimethylbenzene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
1,2-Dibromo-3-chloropropane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
1,2-Dibromoethane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
1,2-Dichlorobenzene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
1,2-Dichloroethane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
1,2-Dichloropropane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
1,3,5-Trimethylbenzene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
1,3-Dichlorobenzene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
1,3-Dichloropropane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
1,4-Dichlorobenzene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB08-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-06
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:05 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
2,2-Dichloropropane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
2-Butanone	<0.00652	0.00652	0.0196		mg/Kg-dry	1	06/30/15 05:26 PM
2-Chlorotoluene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
2-Hexanone	<0.00652	0.00652	0.0196		mg/Kg-dry	1	06/30/15 05:26 PM
4-Chlorotoluene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
4-Methyl-2-pentanone	<0.00652	0.00652	0.0196		mg/Kg-dry	1	06/30/15 05:26 PM
Acetone	<0.0196	0.0196	0.0652		mg/Kg-dry	1	06/30/15 05:26 PM
Benzene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Bromobenzene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Bromochloromethane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Bromodichloromethane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Bromoform	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Bromomethane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Carbon disulfide	<0.00652	0.00652	0.0196		mg/Kg-dry	1	06/30/15 05:26 PM
Carbon tetrachloride	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Chlorobenzene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Chloroethane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Chloroform	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Chloromethane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
cis-1,2-Dichloroethene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
cis-1,3-Dichloropropene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Cyclohexane	<0.00652	0.00652	0.0196	N	mg/Kg-dry	1	06/30/15 05:26 PM
Dibromochloromethane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Dibromomethane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Dichlorodifluoromethane	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Ethylbenzene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Hexachlorobutadiene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Isopropylbenzene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
m,p-Xylene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Methyl Acetate	<0.00652	0.00652	0.0196		mg/Kg-dry	1	06/30/15 05:26 PM
Methyl tert-butyl ether	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Methylcyclohexane	<0.00652	0.00652	0.0196		mg/Kg-dry	1	06/30/15 05:26 PM
Methylene chloride	<0.00652	0.00652	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Naphthalene	<0.00652	0.00652	0.0196		mg/Kg-dry	1	06/30/15 05:26 PM
n-Butylbenzene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
n-Propylbenzene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
o-Xylene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
p-Isopropyltoluene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB08-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-06
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:05 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Styrene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
tert-Butylbenzene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Tetrachloroethene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Toluene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
trans-1,2-Dichloroethene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
trans-1,3-Dichloropropene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Trichloroethene	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Trichlorofluoromethane	<0.00652	0.00652	0.0196		mg/Kg-dry	1	06/30/15 05:26 PM
Vinyl chloride	<0.00130	0.00130	0.00652		mg/Kg-dry	1	06/30/15 05:26 PM
Surr: 1,2-Dichloroethane-d4	109	0	52-149		%REC	1	06/30/15 05:26 PM
Surr: 4-Bromofluorobenzene	113	0	84-118		%REC	1	06/30/15 05:26 PM
Surr: Dibromofluoromethane	107	0	65-135		%REC	1	06/30/15 05:26 PM
Surr: Toluene-d8	94.2	0	84-116		%REC	1	06/30/15 05:26 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	15.4	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB08-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-07
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:20 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.293	0.0164	0.0409		mg/Kg-dry	1	07/07/15 11:13 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	53.3	5.71	11.4		mg/Kg-dry	50	07/07/15 07:11 PM
Barium	975	5.71	22.8		mg/Kg-dry	50	07/07/15 07:11 PM
Cadmium	68.4	1.14	3.42		mg/Kg-dry	50	07/07/15 07:11 PM
Chromium	135	5.71	22.8		mg/Kg-dry	50	07/07/15 07:11 PM
Lead	20400	11.4	34.2		mg/Kg-dry	500	07/08/15 11:40 AM
Selenium	1.88	1.71	5.71	J	mg/Kg-dry	50	07/07/15 07:11 PM
Silver	4.17	1.14	2.28		mg/Kg-dry	50	07/07/15 07:11 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
2,4,6-Trichlorophenol	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
2,4-Dichlorophenol	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
2,4-Dimethylphenol	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
2,4-Dinitrophenol	<0.117	0.117	0.309		mg/Kg-dry	2	07/08/15 12:28 AM
2,4-Dinitrotoluene	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
2,6-Dinitrotoluene	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
2-Chloronaphthalene	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
2-Chlorophenol	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
2-Methylnaphthalene	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
2-Methylphenol	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
2-Nitroaniline	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
2-Nitrophenol	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
3,3´-Dichlorobenzidine	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
3-Nitroaniline	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
4,6-Dinitro-2-methylphenol	<0.0702	0.0702	0.154		mg/Kg-dry	2	07/08/15 12:28 AM
4-Bromophenyl phenyl ether	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
4-Chloro-3-methylphenol	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
4-Chloroaniline	<0.0702	0.0702	0.154		mg/Kg-dry	2	07/08/15 12:28 AM
4-Chlorophenyl phenyl ether	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
4-Methylphenol	<0.0468	0.0468	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
4-Nitroaniline	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
4-Nitrophenol	<0.117	0.117	0.309		mg/Kg-dry	2	07/08/15 12:28 AM
Acenaphthene	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Acenaphthylene	0.0515	0.0234	0.0622	J	mg/Kg-dry	2	07/08/15 12:28 AM
Acetophenone	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Anthracene	0.0499	0.0234	0.0622	J	mg/Kg-dry	2	07/08/15 12:28 AM
Atrazine	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB08-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-07
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:20 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.0234	0.0234	0.0622	N	mg/Kg-dry	2	07/08/15 12:28 AM
Benzo[a]anthracene	0.182	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Benzo[a]pyrene	0.193	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Benzo[b]fluoranthene	0.209	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Benzo[g,h,i]perylene	0.173	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Benzo[k]fluoranthene	0.108	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Benzoic acid	<0.117	0.117	0.309		mg/Kg-dry	2	07/08/15 12:28 AM
Benzyl alcohol	<0.0234	0.0234	0.154		mg/Kg-dry	2	07/08/15 12:28 AM
Biphenyl	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Bis(2-chloroethoxy)methane	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Bis(2-chloroethyl)ether	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Bis(2-chloroisopropyl)ether	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Bis(2-ethylhexyl)phthalate	0.0998	0.0702	0.154	J	mg/Kg-dry	2	07/08/15 12:28 AM
Butyl benzyl phthalate	<0.0936	0.0936	0.154		mg/Kg-dry	2	07/08/15 12:28 AM
Caprolactam	<0.0468	0.0468	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Carbazole	0.0374	0.0234	0.0622	J	mg/Kg-dry	2	07/08/15 12:28 AM
Chrysene	0.178	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Dibenz[a,h]anthracene	0.0561	0.0234	0.0622	J	mg/Kg-dry	2	07/08/15 12:28 AM
Dibenzofuran	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Diethyl phthalate	<0.0936	0.0936	0.154		mg/Kg-dry	2	07/08/15 12:28 AM
Dimethyl phthalate	<0.0936	0.0936	0.154		mg/Kg-dry	2	07/08/15 12:28 AM
Di-n-butyl phthalate	<0.0936	0.0936	0.154		mg/Kg-dry	2	07/08/15 12:28 AM
Di-n-octyl phthalate	0.443	0.0936	0.154		mg/Kg-dry	2	07/08/15 12:28 AM
Fluoranthene	0.352	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Fluorene	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Hexachlorobenzene	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Hexachlorobutadiene	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Hexachlorocyclopentadiene	<0.0702	0.0702	0.154		mg/Kg-dry	2	07/08/15 12:28 AM
Hexachloroethane	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Indeno[1,2,3-cd]pyrene	0.114	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Isophorone	<0.0702	0.0702	0.154		mg/Kg-dry	2	07/08/15 12:28 AM
Naphthalene	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Nitrobenzene	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
N-Nitrosodi-n-propylamine	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
N-Nitrosodiphenylamine	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Pentachlorophenol	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Phenanthrene	0.229	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Phenol	<0.0234	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM
Pyrene	0.313	0.0234	0.0622		mg/Kg-dry	2	07/08/15 12:28 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB08-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-07
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:20 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	80.0	0	45-126		%REC	2	07/08/15 12:28 AM
Surr: 2-Fluorobiphenyl	70.0	0	60-125		%REC	2	07/08/15 12:28 AM
Surr: 2-Fluorophenol	70.0	0	37-125		%REC	2	07/08/15 12:28 AM
Surr: 4-Terphenyl-d14	76.0	0	45-125		%REC	2	07/08/15 12:28 AM
Surr: Nitrobenzene-d5	76.0	0	45-125		%REC	2	07/08/15 12:28 AM
Surr: Phenol-d5	80.0	0	40-125		%REC	2	07/08/15 12:28 AM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **KL**
Aroclor 1016	<0.0195	0.0195	0.0390		mg/Kg-dry	1	07/06/15 02:49 PM
Aroclor 1221	<0.0195	0.0195	0.0390		mg/Kg-dry	1	07/06/15 02:49 PM
Aroclor 1232	<0.0195	0.0195	0.0390		mg/Kg-dry	1	07/06/15 02:49 PM
Aroclor 1242	<0.0195	0.0195	0.0390		mg/Kg-dry	1	07/06/15 02:49 PM
Aroclor 1248	<0.0195	0.0195	0.0390		mg/Kg-dry	1	07/06/15 02:49 PM
Aroclor 1254	0.0461	0.0195	0.0390		mg/Kg-dry	1	07/06/15 02:49 PM
Aroclor 1260	0.0735	0.0195	0.0390		mg/Kg-dry	1	07/06/15 02:49 PM
Surr: 2-Fluorobiphenyl	110	0	43-125		%REC	1	07/06/15 02:49 PM
Surr: 4-Terphenyl-d14	110	0	32-125		%REC	1	07/06/15 02:49 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
1,1,1-Trichloroethane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
1,1,2,2-Tetrachloroethane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
1,1,2-Trichloroethane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
1,1,2-Trichlorotrifluoroethane	<0.00550	0.00550	0.0165		mg/Kg-dry	1	06/30/15 05:57 PM
1,1-Dichloroethane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
1,1-Dichloroethene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
1,1-Dichloropropene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
1,2,3-Trichlorobenzene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
1,2,3-Trichloropropane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
1,2,4-Trichlorobenzene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
1,2,4-Trimethylbenzene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
1,2-Dibromo-3-chloropropane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
1,2-Dibromoethane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
1,2-Dichlorobenzene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
1,2-Dichloroethane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
1,2-Dichloropropane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
1,3,5-Trimethylbenzene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
1,3-Dichlorobenzene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
1,3-Dichloropropane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
1,4-Dichlorobenzene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB08-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-07
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:20 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
2,2-Dichloropropane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
2-Butanone	0.0106	0.00550	0.0165	J	mg/Kg-dry	1	06/30/15 05:57 PM
2-Chlorotoluene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
2-Hexanone	<0.00550	0.00550	0.0165		mg/Kg-dry	1	06/30/15 05:57 PM
4-Chlorotoluene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
4-Methyl-2-pentanone	<0.00550	0.00550	0.0165		mg/Kg-dry	1	06/30/15 05:57 PM
Acetone	0.0368	0.0165	0.0550	J	mg/Kg-dry	1	06/30/15 05:57 PM
Benzene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Bromobenzene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Bromochloromethane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Bromodichloromethane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Bromoform	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Bromomethane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Carbon disulfide	<0.00550	0.00550	0.0165		mg/Kg-dry	1	06/30/15 05:57 PM
Carbon tetrachloride	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Chlorobenzene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Chloroethane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Chloroform	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Chloromethane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
cis-1,2-Dichloroethene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
cis-1,3-Dichloropropene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Cyclohexane	<0.00550	0.00550	0.0165	N	mg/Kg-dry	1	06/30/15 05:57 PM
Dibromochloromethane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Dibromomethane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Dichlorodifluoromethane	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Ethylbenzene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Hexachlorobutadiene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Isopropylbenzene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
m,p-Xylene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Methyl Acetate	<0.00550	0.00550	0.0165		mg/Kg-dry	1	06/30/15 05:57 PM
Methyl tert-butyl ether	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Methylcyclohexane	<0.00550	0.00550	0.0165		mg/Kg-dry	1	06/30/15 05:57 PM
Methylene chloride	<0.00550	0.00550	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Naphthalene	<0.00550	0.00550	0.0165		mg/Kg-dry	1	06/30/15 05:57 PM
n-Butylbenzene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
n-Propylbenzene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
o-Xylene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
p-Isopropyltoluene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB08-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-07
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:20 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Styrene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
tert-Butylbenzene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Tetrachloroethene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Toluene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
trans-1,2-Dichloroethene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
trans-1,3-Dichloropropene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Trichloroethene	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Trichlorofluoromethane	<0.00550	0.00550	0.0165		mg/Kg-dry	1	06/30/15 05:57 PM
Vinyl chloride	<0.00110	0.00110	0.00550		mg/Kg-dry	1	06/30/15 05:57 PM
Surr: 1,2-Dichloroethane-d4	110	0	52-149		%REC	1	06/30/15 05:57 PM
Surr: 4-Bromofluorobenzene	106	0	84-118		%REC	1	06/30/15 05:57 PM
Surr: Dibromofluoromethane	107	0	65-135		%REC	1	06/30/15 05:57 PM
Surr: Toluene-d8	93.8	0	84-116		%REC	1	06/30/15 05:57 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	14.9	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB07-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-08
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:35 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.0604	0.0176	0.0440		mg/Kg-dry	1	07/07/15 11:16 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	<5.43	5.43	10.9		mg/Kg-dry	50	07/07/15 07:13 PM
Barium	157	5.43	21.7		mg/Kg-dry	50	07/07/15 07:13 PM
Cadmium	1.11	1.09	3.26	J	mg/Kg-dry	50	07/07/15 07:13 PM
Chromium	13.5	5.43	21.7	J	mg/Kg-dry	50	07/07/15 07:13 PM
Lead	306	1.09	3.26		mg/Kg-dry	50	07/07/15 07:13 PM
Selenium	<1.63	1.63	5.43		mg/Kg-dry	50	07/07/15 07:13 PM
Silver	<1.09	1.09	2.17		mg/Kg-dry	50	07/07/15 07:13 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
2,4,6-Trichlorophenol	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
2,4-Dichlorophenol	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
2,4-Dimethylphenol	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
2,4-Dinitrophenol	<0.0548	0.0548	0.145		mg/Kg-dry	1	07/07/15 10:09 PM
2,4-Dinitrotoluene	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
2,6-Dinitrotoluene	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
2-Chloronaphthalene	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
2-Chlorophenol	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
2-Methylnaphthalene	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
2-Methylphenol	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
2-Nitroaniline	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
2-Nitrophenol	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
3,3´-Dichlorobenzidine	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
3-Nitroaniline	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
4,6-Dinitro-2-methylphenol	<0.0329	0.0329	0.0724		mg/Kg-dry	1	07/07/15 10:09 PM
4-Bromophenyl phenyl ether	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
4-Chloro-3-methylphenol	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
4-Chloroaniline	<0.0329	0.0329	0.0724		mg/Kg-dry	1	07/07/15 10:09 PM
4-Chlorophenyl phenyl ether	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
4-Methylphenol	<0.0219	0.0219	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
4-Nitroaniline	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
4-Nitrophenol	<0.0548	0.0548	0.145		mg/Kg-dry	1	07/07/15 10:09 PM
Acenaphthene	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Acenaphthylene	0.0278	0.0110	0.0292	J	mg/Kg-dry	1	07/07/15 10:09 PM
Acetophenone	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Anthracene	0.0205	0.0110	0.0292	J	mg/Kg-dry	1	07/07/15 10:09 PM
Atrazine	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB07-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-08
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:35 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.0110	0.0110	0.0292	N	mg/Kg-dry	1	07/07/15 10:09 PM
Benzo[a]anthracene	0.0863	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Benzo[a]pyrene	0.105	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Benzo[b]fluoranthene	0.0994	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Benzo[g,h,i]perylene	0.0702	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Benzo[k]fluoranthene	0.0570	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Benzoic acid	0.0804	0.0548	0.145	J	mg/Kg-dry	1	07/07/15 10:09 PM
Benzyl alcohol	<0.0110	0.0110	0.0724		mg/Kg-dry	1	07/07/15 10:09 PM
Biphenyl	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Bis(2-chloroethoxy)methane	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Bis(2-chloroethyl)ether	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Bis(2-chloroisopropyl)ether	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Bis(2-ethylhexyl)phthalate	0.0431	0.0329	0.0724	J	mg/Kg-dry	1	07/07/15 10:09 PM
Butyl benzyl phthalate	<0.0439	0.0439	0.0724		mg/Kg-dry	1	07/07/15 10:09 PM
Caprolactam	0.0833	0.0219	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Carbazole	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Chrysene	0.0877	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Dibenz[a,h]anthracene	0.0263	0.0110	0.0292	J	mg/Kg-dry	1	07/07/15 10:09 PM
Dibenzofuran	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Diethyl phthalate	<0.0439	0.0439	0.0724		mg/Kg-dry	1	07/07/15 10:09 PM
Dimethyl phthalate	<0.0439	0.0439	0.0724		mg/Kg-dry	1	07/07/15 10:09 PM
Di-n-butyl phthalate	<0.0439	0.0439	0.0724		mg/Kg-dry	1	07/07/15 10:09 PM
Di-n-octyl phthalate	0.0446	0.0439	0.0724	J	mg/Kg-dry	1	07/07/15 10:09 PM
Fluoranthene	0.164	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Fluorene	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Hexachlorobenzene	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Hexachlorobutadiene	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Hexachlorocyclopentadiene	<0.0329	0.0329	0.0724		mg/Kg-dry	1	07/07/15 10:09 PM
Hexachloroethane	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Indeno[1,2,3-cd]pyrene	0.0578	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Isophorone	<0.0329	0.0329	0.0724		mg/Kg-dry	1	07/07/15 10:09 PM
Naphthalene	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Nitrobenzene	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
N-Nitrosodi-n-propylamine	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
N-Nitrosodiphenylamine	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Pentachlorophenol	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Phenanthrene	0.0687	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Phenol	<0.0110	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM
Pyrene	0.130	0.0110	0.0292		mg/Kg-dry	1	07/07/15 10:09 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB07-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-08
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:35 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	59.0	0	45-126		%REC	1	07/07/15 10:09 PM
Surr: 2-Fluorobiphenyl	65.0	0	60-125		%REC	1	07/07/15 10:09 PM
Surr: 2-Fluorophenol	102	0	37-125		%REC	1	07/07/15 10:09 PM
Surr: 4-Terphenyl-d14	72.0	0	45-125		%REC	1	07/07/15 10:09 PM
Surr: Nitrobenzene-d5	72.0	0	45-125		%REC	1	07/07/15 10:09 PM
Surr: Phenol-d5	79.0	0	40-125		%REC	1	07/07/15 10:09 PM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **KL**
Aroclor 1016	<0.0183	0.0183	0.0366		mg/Kg-dry	1	07/02/15 07:59 PM
Aroclor 1221	<0.0183	0.0183	0.0366		mg/Kg-dry	1	07/02/15 07:59 PM
Aroclor 1232	<0.0183	0.0183	0.0366		mg/Kg-dry	1	07/02/15 07:59 PM
Aroclor 1242	<0.0183	0.0183	0.0366		mg/Kg-dry	1	07/02/15 07:59 PM
Aroclor 1248	<0.0183	0.0183	0.0366		mg/Kg-dry	1	07/02/15 07:59 PM
Aroclor 1254	<0.0183	0.0183	0.0366		mg/Kg-dry	1	07/02/15 07:59 PM
Aroclor 1260	<0.0183	0.0183	0.0366		mg/Kg-dry	1	07/02/15 07:59 PM
Surr: 2-Fluorobiphenyl	110	0	43-125		%REC	1	07/02/15 07:59 PM
Surr: 4-Terphenyl-d14	107	0	32-125		%REC	1	07/02/15 07:59 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
1,1,1-Trichloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
1,1,2,2-Tetrachloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
1,1,2-Trichloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
1,1,2-Trichlorotrifluoroethane	<0.00698	0.00698	0.0209		mg/Kg-dry	1	06/30/15 06:29 PM
1,1-Dichloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
1,1-Dichloroethene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
1,1-Dichloropropene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
1,2,3-Trichlorobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
1,2,3-Trichloropropane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
1,2,4-Trichlorobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
1,2,4-Trimethylbenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
1,2-Dibromo-3-chloropropane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
1,2-Dibromoethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
1,2-Dichlorobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
1,2-Dichloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
1,2-Dichloropropane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
1,3,5-Trimethylbenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
1,3-Dichlorobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
1,3-Dichloropropane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
1,4-Dichlorobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB07-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-08
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:35 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
2,2-Dichloropropane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
2-Butanone	<0.00698	0.00698	0.0209		mg/Kg-dry	1	06/30/15 06:29 PM
2-Chlorotoluene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
2-Hexanone	<0.00698	0.00698	0.0209		mg/Kg-dry	1	06/30/15 06:29 PM
4-Chlorotoluene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
4-Methyl-2-pentanone	<0.00698	0.00698	0.0209		mg/Kg-dry	1	06/30/15 06:29 PM
Acetone	<0.0209	0.0209	0.0698		mg/Kg-dry	1	06/30/15 06:29 PM
Benzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Bromobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Bromochloromethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Bromodichloromethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Bromoform	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Bromomethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Carbon disulfide	<0.00698	0.00698	0.0209		mg/Kg-dry	1	06/30/15 06:29 PM
Carbon tetrachloride	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Chlorobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Chloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Chloroform	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Chloromethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
cis-1,2-Dichloroethene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
cis-1,3-Dichloropropene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Cyclohexane	<0.00698	0.00698	0.0209	N	mg/Kg-dry	1	06/30/15 06:29 PM
Dibromochloromethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Dibromomethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Dichlorodifluoromethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Ethylbenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Hexachlorobutadiene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Isopropylbenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
m,p-Xylene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Methyl Acetate	<0.00698	0.00698	0.0209		mg/Kg-dry	1	06/30/15 06:29 PM
Methyl tert-butyl ether	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Methylcyclohexane	<0.00698	0.00698	0.0209		mg/Kg-dry	1	06/30/15 06:29 PM
Methylene chloride	<0.00698	0.00698	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Naphthalene	<0.00698	0.00698	0.0209		mg/Kg-dry	1	06/30/15 06:29 PM
n-Butylbenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
n-Propylbenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
o-Xylene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
p-Isopropyltoluene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB07-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-08
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:35 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Styrene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
tert-Butylbenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Tetrachloroethene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Toluene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
trans-1,2-Dichloroethene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
trans-1,3-Dichloropropene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Trichloroethene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Trichlorofluoromethane	<0.00698	0.00698	0.0209		mg/Kg-dry	1	06/30/15 06:29 PM
Vinyl chloride	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 06:29 PM
Surr: 1,2-Dichloroethane-d4	109	0	52-149		%REC	1	06/30/15 06:29 PM
Surr: 4-Bromofluorobenzene	106	0	84-118		%REC	1	06/30/15 06:29 PM
Surr: Dibromofluoromethane	107	0	65-135		%REC	1	06/30/15 06:29 PM
Surr: Toluene-d8	93.4	0	84-116		%REC	1	06/30/15 06:29 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	13.1	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB07-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-09
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:55 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.572	0.0193	0.0483		mg/Kg-dry	1	07/07/15 11:18 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	37.1	0.532	1.06		mg/Kg-dry	5	07/02/15 11:23 AM
Barium	1190	5.32	21.3		mg/Kg-dry	50	07/06/15 11:08 AM
Cadmium	7.72	0.106	0.319		mg/Kg-dry	5	07/02/15 11:23 AM
Chromium	88.4	0.532	2.13		mg/Kg-dry	5	07/02/15 11:23 AM
Lead	1970	1.06	3.19		mg/Kg-dry	50	07/06/15 11:08 AM
Selenium	0.570	0.160	0.532		mg/Kg-dry	5	07/02/15 11:23 AM
Silver	23.0	0.106	0.213		mg/Kg-dry	5	07/02/15 11:23 AM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
2,4,6-Trichlorophenol	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
2,4-Dichlorophenol	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
2,4-Dimethylphenol	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
2,4-Dinitrophenol	<0.605	0.605	1.60		mg/Kg-dry	10	07/08/15 01:15 AM
2,4-Dinitrotoluene	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
2,6-Dinitrotoluene	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
2-Chloronaphthalene	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
2-Chlorophenol	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
2-Methylnaphthalene	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
2-Methylphenol	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
2-Nitroaniline	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
2-Nitrophenol	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
3,3´-Dichlorobenzidine	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
3-Nitroaniline	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
4,6-Dinitro-2-methylphenol	<0.363	0.363	0.798		mg/Kg-dry	10	07/08/15 01:15 AM
4-Bromophenyl phenyl ether	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
4-Chloro-3-methylphenol	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
4-Chloroaniline	<0.363	0.363	0.798		mg/Kg-dry	10	07/08/15 01:15 AM
4-Chlorophenyl phenyl ether	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
4-Methylphenol	<0.242	0.242	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
4-Nitroaniline	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
4-Nitrophenol	<0.605	0.605	1.60		mg/Kg-dry	10	07/08/15 01:15 AM
Acenaphthene	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Acenaphthylene	0.185	0.121	0.322	J	mg/Kg-dry	10	07/08/15 01:15 AM
Acetophenone	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Anthracene	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Atrazine	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB07-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-09
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:55 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.121	0.121	0.322	N	mg/Kg-dry	10	07/08/15 01:15 AM
Benzo[a]anthracene	0.234	0.121	0.322	J	mg/Kg-dry	10	07/08/15 01:15 AM
Benzo[a]pyrene	0.379	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Benzo[b]fluoranthene	0.194	0.121	0.322	J	mg/Kg-dry	10	07/08/15 01:15 AM
Benzo[g,h,i]perylene	0.169	0.121	0.322	J	mg/Kg-dry	10	07/08/15 01:15 AM
Benzo[k]fluoranthene	0.153	0.121	0.322	J	mg/Kg-dry	10	07/08/15 01:15 AM
Benzoic acid	<0.605	0.605	1.60		mg/Kg-dry	10	07/08/15 01:15 AM
Benzyl alcohol	<0.121	0.121	0.798		mg/Kg-dry	10	07/08/15 01:15 AM
Biphenyl	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Bis(2-chloroethoxy)methane	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Bis(2-chloroethyl)ether	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Bis(2-chloroisopropyl)ether	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Bis(2-ethylhexyl)phthalate	<0.363	0.363	0.798		mg/Kg-dry	10	07/08/15 01:15 AM
Butyl benzyl phthalate	<0.484	0.484	0.798		mg/Kg-dry	10	07/08/15 01:15 AM
Caprolactam	<0.242	0.242	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Carbazole	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Chrysene	0.194	0.121	0.322	J	mg/Kg-dry	10	07/08/15 01:15 AM
Dibenz[a,h]anthracene	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Dibenzofuran	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Diethyl phthalate	<0.484	0.484	0.798		mg/Kg-dry	10	07/08/15 01:15 AM
Dimethyl phthalate	<0.484	0.484	0.798		mg/Kg-dry	10	07/08/15 01:15 AM
Di-n-butyl phthalate	<0.484	0.484	0.798		mg/Kg-dry	10	07/08/15 01:15 AM
Di-n-octyl phthalate	<0.484	0.484	0.798		mg/Kg-dry	10	07/08/15 01:15 AM
Fluoranthene	0.331	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Fluorene	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Hexachlorobenzene	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Hexachlorobutadiene	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Hexachlorocyclopentadiene	<0.363	0.363	0.798		mg/Kg-dry	10	07/08/15 01:15 AM
Hexachloroethane	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Indeno[1,2,3-cd]pyrene	0.169	0.121	0.322	J	mg/Kg-dry	10	07/08/15 01:15 AM
Isophorone	<0.363	0.363	0.798		mg/Kg-dry	10	07/08/15 01:15 AM
Naphthalene	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Nitrobenzene	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
N-Nitrosodi-n-propylamine	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
N-Nitrosodiphenylamine	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Pentachlorophenol	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Phenanthrene	0.169	0.121	0.322	J	mg/Kg-dry	10	07/08/15 01:15 AM
Phenol	<0.121	0.121	0.322		mg/Kg-dry	10	07/08/15 01:15 AM
Pyrene	0.290	0.121	0.322	J	mg/Kg-dry	10	07/08/15 01:15 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB07-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-09
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:55 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	90.0	0	45-126		%REC	10	07/08/15 01:15 AM
Surr: 2-Fluorobiphenyl	70.0	0	60-125		%REC	10	07/08/15 01:15 AM
Surr: 2-Fluorophenol	70.0	0	37-125		%REC	10	07/08/15 01:15 AM
Surr: 4-Terphenyl-d14	70.0	0	45-125		%REC	10	07/08/15 01:15 AM
Surr: Nitrobenzene-d5	70.0	0	45-125		%REC	10	07/08/15 01:15 AM
Surr: Phenol-d5	70.0	0	40-125		%REC	10	07/08/15 01:15 AM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **KL**
Aroclor 1016	<0.0202	0.0202	0.0403		mg/Kg-dry	1	07/02/15 08:29 PM
Aroclor 1221	<0.0202	0.0202	0.0403		mg/Kg-dry	1	07/02/15 08:29 PM
Aroclor 1232	<0.0202	0.0202	0.0403		mg/Kg-dry	1	07/02/15 08:29 PM
Aroclor 1242	<0.0202	0.0202	0.0403		mg/Kg-dry	1	07/02/15 08:29 PM
Aroclor 1248	<0.0202	0.0202	0.0403		mg/Kg-dry	1	07/02/15 08:29 PM
Aroclor 1254	<0.0202	0.0202	0.0403		mg/Kg-dry	1	07/02/15 08:29 PM
Aroclor 1260	<0.0202	0.0202	0.0403		mg/Kg-dry	1	07/02/15 08:29 PM
Surr: 2-Fluorobiphenyl	107	0	43-125		%REC	1	07/02/15 08:29 PM
Surr: 4-Terphenyl-d14	90.9	0	32-125		%REC	1	07/02/15 08:29 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
1,1,1-Trichloroethane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
1,1,2,2-Tetrachloroethane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
1,1,2-Trichloroethane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
1,1,2-Trichlorotrifluoroethane	<0.00657	0.00657	0.0197		mg/Kg-dry	1	06/30/15 07:00 PM
1,1-Dichloroethane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
1,1-Dichloroethene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
1,1-Dichloropropene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
1,2,3-Trichlorobenzene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
1,2,3-Trichloropropane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
1,2,4-Trichlorobenzene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
1,2,4-Trimethylbenzene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
1,2-Dibromo-3-chloropropane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
1,2-Dibromoethane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
1,2-Dichlorobenzene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
1,2-Dichloroethane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
1,2-Dichloropropane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
1,3,5-Trimethylbenzene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
1,3-Dichlorobenzene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
1,3-Dichloropropane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
1,4-Dichlorobenzene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB07-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-09
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:55 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
2,2-Dichloropropane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
2-Butanone	0.0318	0.00657	0.0197		mg/Kg-dry	1	06/30/15 07:00 PM
2-Chlorotoluene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
2-Hexanone	<0.00657	0.00657	0.0197		mg/Kg-dry	1	06/30/15 07:00 PM
4-Chlorotoluene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
4-Methyl-2-pentanone	<0.00657	0.00657	0.0197		mg/Kg-dry	1	06/30/15 07:00 PM
Acetone	0.154	0.0197	0.0657		mg/Kg-dry	1	06/30/15 07:00 PM
Benzene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Bromobenzene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Bromochloromethane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Bromodichloromethane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Bromoform	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Bromomethane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Carbon disulfide	<0.00657	0.00657	0.0197		mg/Kg-dry	1	06/30/15 07:00 PM
Carbon tetrachloride	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Chlorobenzene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Chloroethane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Chloroform	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Chloromethane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
cis-1,2-Dichloroethene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
cis-1,3-Dichloropropene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Cyclohexane	<0.00657	0.00657	0.0197	N	mg/Kg-dry	1	06/30/15 07:00 PM
Dibromochloromethane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Dibromomethane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Dichlorodifluoromethane	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Ethylbenzene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Hexachlorobutadiene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Isopropylbenzene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
m,p-Xylene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Methyl Acetate	<0.00657	0.00657	0.0197		mg/Kg-dry	1	06/30/15 07:00 PM
Methyl tert-butyl ether	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Methylcyclohexane	<0.00657	0.00657	0.0197		mg/Kg-dry	1	06/30/15 07:00 PM
Methylene chloride	<0.00657	0.00657	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Naphthalene	<0.00657	0.00657	0.0197		mg/Kg-dry	1	06/30/15 07:00 PM
n-Butylbenzene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
n-Propylbenzene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
o-Xylene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
p-Isopropyltoluene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB07-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-09
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 10:55 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Styrene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
tert-Butylbenzene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Tetrachloroethene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Toluene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
trans-1,2-Dichloroethene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
trans-1,3-Dichloropropene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Trichloroethene	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Trichlorofluoromethane	<0.00657	0.00657	0.0197		mg/Kg-dry	1	06/30/15 07:00 PM
Vinyl chloride	<0.00131	0.00131	0.00657		mg/Kg-dry	1	06/30/15 07:00 PM
Surr: 1,2-Dichloroethane-d4	111	0	52-149		%REC	1	06/30/15 07:00 PM
Surr: 4-Bromofluorobenzene	112	0	84-118		%REC	1	06/30/15 07:00 PM
Surr: Dibromofluoromethane	109	0	65-135		%REC	1	06/30/15 07:00 PM
Surr: Toluene-d8	93.6	0	84-116		%REC	1	06/30/15 07:00 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	18.3	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB06-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-10
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 11:10 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.659	0.0241	0.0602		mg/Kg-dry	1	07/07/15 11:20 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	37.2	0.467	0.934		mg/Kg-dry	5	07/06/15 06:57 PM
Barium	56.6	4.67	18.7		mg/Kg-dry	50	07/07/15 11:29 AM
Cadmium	5.25	0.0934	0.280		mg/Kg-dry	5	07/06/15 06:57 PM
Chromium	41.9	0.467	1.87		mg/Kg-dry	5	07/06/15 06:57 PM
Lead	2250	0.934	2.80		mg/Kg-dry	50	07/07/15 11:29 AM
Selenium	0.792	0.140	0.467		mg/Kg-dry	5	07/06/15 06:57 PM
Silver	4.10	0.0934	0.187		mg/Kg-dry	5	07/06/15 06:57 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
2,4,6-Trichlorophenol	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
2,4-Dichlorophenol	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
2,4-Dimethylphenol	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
2,4-Dinitrophenol	<0.0517	0.0517	0.136		mg/Kg-dry	1	07/07/15 10:32 PM
2,4-Dinitrotoluene	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
2,6-Dinitrotoluene	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
2-Chloronaphthalene	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
2-Chlorophenol	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
2-Methylnaphthalene	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
2-Methylphenol	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
2-Nitroaniline	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
2-Nitrophenol	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
3,3´-Dichlorobenzidine	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
3-Nitroaniline	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
4,6-Dinitro-2-methylphenol	<0.0310	0.0310	0.0682		mg/Kg-dry	1	07/07/15 10:32 PM
4-Bromophenyl phenyl ether	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
4-Chloro-3-methylphenol	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
4-Chloroaniline	<0.0310	0.0310	0.0682		mg/Kg-dry	1	07/07/15 10:32 PM
4-Chlorophenyl phenyl ether	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
4-Methylphenol	<0.0207	0.0207	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
4-Nitroaniline	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
4-Nitrophenol	<0.0517	0.0517	0.136		mg/Kg-dry	1	07/07/15 10:32 PM
Acenaphthene	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Acenaphthylene	0.0317	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Acetophenone	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Anthracene	0.0289	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Atrazine	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB06-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-10
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 11:10 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.0103	0.0103	0.0275	N	mg/Kg-dry	1	07/07/15 10:32 PM
Benzo[a]anthracene	0.172	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Benzo[a]pyrene	0.212	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Benzo[b]fluoranthene	0.245	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Benzo[g,h,i]perylene	0.166	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Benzo[k]fluoranthene	0.131	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Benzoic acid	0.0758	0.0517	0.136	J	mg/Kg-dry	1	07/07/15 10:32 PM
Benzyl alcohol	<0.0103	0.0103	0.0682		mg/Kg-dry	1	07/07/15 10:32 PM
Biphenyl	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Bis(2-chloroethoxy)methane	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Bis(2-chloroethyl)ether	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Bis(2-chloroisopropyl)ether	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Bis(2-ethylhexyl)phthalate	0.0503	0.0310	0.0682	J	mg/Kg-dry	1	07/07/15 10:32 PM
Butyl benzyl phthalate	<0.0413	0.0413	0.0682		mg/Kg-dry	1	07/07/15 10:32 PM
Caprolactam	<0.0207	0.0207	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Carbazole	0.0193	0.0103	0.0275	J	mg/Kg-dry	1	07/07/15 10:32 PM
Chrysene	0.172	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Dibenz[a,h]anthracene	0.0675	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Dibenzofuran	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Diethyl phthalate	<0.0413	0.0413	0.0682		mg/Kg-dry	1	07/07/15 10:32 PM
Dimethyl phthalate	<0.0413	0.0413	0.0682		mg/Kg-dry	1	07/07/15 10:32 PM
Di-n-butyl phthalate	0.0434	0.0413	0.0682	J	mg/Kg-dry	1	07/07/15 10:32 PM
Di-n-octyl phthalate	<0.0413	0.0413	0.0682		mg/Kg-dry	1	07/07/15 10:32 PM
Fluoranthene	0.283	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Fluorene	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Hexachlorobenzene	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Hexachlorobutadiene	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Hexachlorocyclopentadiene	<0.0310	0.0310	0.0682		mg/Kg-dry	1	07/07/15 10:32 PM
Hexachloroethane	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Indeno[1,2,3-cd]pyrene	0.141	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Isophorone	<0.0310	0.0310	0.0682		mg/Kg-dry	1	07/07/15 10:32 PM
Naphthalene	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Nitrobenzene	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
N-Nitrosodi-n-propylamine	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
N-Nitrosodiphenylamine	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Pentachlorophenol	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Phenanthrene	0.107	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Phenol	<0.0103	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM
Pyrene	0.249	0.0103	0.0275		mg/Kg-dry	1	07/07/15 10:32 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB06-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-10
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 11:10 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	82.0	0	45-126		%REC	1	07/07/15 10:32 PM
Surr: 2-Fluorobiphenyl	78.0	0	60-125		%REC	1	07/07/15 10:32 PM
Surr: 2-Fluorophenol	86.0	0	37-125		%REC	1	07/07/15 10:32 PM
Surr: 4-Terphenyl-d14	82.0	0	45-125		%REC	1	07/07/15 10:32 PM
Surr: Nitrobenzene-d5	123	0	45-125		%REC	1	07/07/15 10:32 PM
Surr: Phenol-d5	96.0	0	40-125		%REC	1	07/07/15 10:32 PM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **KL**
Aroclor 1016	<0.0172	0.0172	0.0345		mg/Kg-dry	1	07/06/15 03:20 PM
Aroclor 1221	<0.0172	0.0172	0.0345		mg/Kg-dry	1	07/06/15 03:20 PM
Aroclor 1232	<0.0172	0.0172	0.0345		mg/Kg-dry	1	07/06/15 03:20 PM
Aroclor 1242	<0.0172	0.0172	0.0345		mg/Kg-dry	1	07/06/15 03:20 PM
Aroclor 1248	<0.0172	0.0172	0.0345		mg/Kg-dry	1	07/06/15 03:20 PM
Aroclor 1254	0.0436	0.0172	0.0345		mg/Kg-dry	1	07/06/15 03:20 PM
Aroclor 1260	0.0297	0.0172	0.0345	J	mg/Kg-dry	1	07/06/15 03:20 PM
Surr: 2-Fluorobiphenyl	113	0	43-125		%REC	1	07/06/15 03:20 PM
Surr: 4-Terphenyl-d14	107	0	32-125		%REC	1	07/06/15 03:20 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
1,1,1-Trichloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
1,1,2,2-Tetrachloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
1,1,2-Trichloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
1,1,2-Trichlorotrifluoroethane	<0.00698	0.00698	0.0209		mg/Kg-dry	1	06/30/15 07:31 PM
1,1-Dichloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
1,1-Dichloroethene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
1,1-Dichloropropene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
1,2,3-Trichlorobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
1,2,3-Trichloropropane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
1,2,4-Trichlorobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
1,2,4-Trimethylbenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
1,2-Dibromo-3-chloropropane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
1,2-Dibromoethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
1,2-Dichlorobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
1,2-Dichloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
1,2-Dichloropropane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
1,3,5-Trimethylbenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
1,3-Dichlorobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
1,3-Dichloropropane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
1,4-Dichlorobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB06-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-10
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 11:10 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
2,2-Dichloropropane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
2-Butanone	<0.00698	0.00698	0.0209		mg/Kg-dry	1	06/30/15 07:31 PM
2-Chlorotoluene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
2-Hexanone	<0.00698	0.00698	0.0209		mg/Kg-dry	1	06/30/15 07:31 PM
4-Chlorotoluene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
4-Methyl-2-pentanone	<0.00698	0.00698	0.0209		mg/Kg-dry	1	06/30/15 07:31 PM
Acetone	<0.0209	0.0209	0.0698		mg/Kg-dry	1	06/30/15 07:31 PM
Benzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Bromobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Bromochloromethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Bromodichloromethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Bromoform	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Bromomethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Carbon disulfide	<0.00698	0.00698	0.0209		mg/Kg-dry	1	06/30/15 07:31 PM
Carbon tetrachloride	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Chlorobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Chloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Chloroform	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Chloromethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
cis-1,2-Dichloroethene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
cis-1,3-Dichloropropene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Cyclohexane	<0.00698	0.00698	0.0209	N	mg/Kg-dry	1	06/30/15 07:31 PM
Dibromochloromethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Dibromomethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Dichlorodifluoromethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Ethylbenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Hexachlorobutadiene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Isopropylbenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
m,p-Xylene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Methyl Acetate	<0.00698	0.00698	0.0209		mg/Kg-dry	1	06/30/15 07:31 PM
Methyl tert-butyl ether	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Methylcyclohexane	<0.00698	0.00698	0.0209		mg/Kg-dry	1	06/30/15 07:31 PM
Methylene chloride	<0.00698	0.00698	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Naphthalene	<0.00698	0.00698	0.0209		mg/Kg-dry	1	06/30/15 07:31 PM
n-Butylbenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
n-Propylbenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
o-Xylene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
p-Isopropyltoluene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB06-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-10
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 11:10 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Styrene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
tert-Butylbenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Tetrachloroethene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Toluene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
trans-1,2-Dichloroethene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
trans-1,3-Dichloropropene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Trichloroethene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Trichlorofluoromethane	<0.00698	0.00698	0.0209		mg/Kg-dry	1	06/30/15 07:31 PM
Vinyl chloride	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 07:31 PM
Surr: 1,2-Dichloroethane-d4	107	0	52-149		%REC	1	06/30/15 07:31 PM
Surr: 4-Bromofluorobenzene	105	0	84-118		%REC	1	06/30/15 07:31 PM
Surr: Dibromofluoromethane	107	0	65-135		%REC	1	06/30/15 07:31 PM
Surr: Toluene-d8	92.5	0	84-116		%REC	1	06/30/15 07:31 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	6.92	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB06-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-11
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 11:20 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.215	0.0167	0.0418		mg/Kg-dry	1	07/07/15 11:23 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	68.7	0.532	1.06		mg/Kg-dry	5	07/06/15 06:58 PM
Barium	411	0.532	2.13		mg/Kg-dry	5	07/06/15 06:58 PM
Cadmium	4.62	0.106	0.319		mg/Kg-dry	5	07/06/15 06:58 PM
Chromium	66.5	0.532	2.13		mg/Kg-dry	5	07/06/15 06:58 PM
Lead	1300	1.06	3.19		mg/Kg-dry	50	07/07/15 11:31 AM
Selenium	0.639	0.160	0.532		mg/Kg-dry	5	07/06/15 06:58 PM
Silver	2.04	0.106	0.213		mg/Kg-dry	5	07/06/15 06:58 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
2,4,6-Trichlorophenol	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
2,4-Dichlorophenol	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
2,4-Dimethylphenol	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
2,4-Dinitrophenol	<0.548	0.548	1.45		mg/Kg-dry	10	07/08/15 01:38 AM
2,4-Dinitrotoluene	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
2,6-Dinitrotoluene	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
2-Chloronaphthalene	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
2-Chlorophenol	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
2-Methylnaphthalene	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
2-Methylphenol	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
2-Nitroaniline	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
2-Nitrophenol	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
3,3´-Dichlorobenzidine	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
3-Nitroaniline	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
4,6-Dinitro-2-methylphenol	<0.329	0.329	0.723		mg/Kg-dry	10	07/08/15 01:38 AM
4-Bromophenyl phenyl ether	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
4-Chloro-3-methylphenol	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
4-Chloroaniline	<0.329	0.329	0.723		mg/Kg-dry	10	07/08/15 01:38 AM
4-Chlorophenyl phenyl ether	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
4-Methylphenol	<0.219	0.219	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
4-Nitroaniline	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
4-Nitrophenol	<0.548	0.548	1.45		mg/Kg-dry	10	07/08/15 01:38 AM
Acenaphthene	0.117	0.110	0.291	J	mg/Kg-dry	10	07/08/15 01:38 AM
Acenaphthylene	0.153	0.110	0.291	J	mg/Kg-dry	10	07/08/15 01:38 AM
Acetophenone	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
Anthracene	0.183	0.110	0.291	J	mg/Kg-dry	10	07/08/15 01:38 AM
Atrazine	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB06-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-11
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 11:20 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.110	0.110	0.291	N	mg/Kg-dry	10	07/08/15 01:38 AM
Benzo[a]anthracene	0.153	0.110	0.291	J	mg/Kg-dry	10	07/08/15 01:38 AM
Benzo[a]pyrene	0.285	0.110	0.291	J	mg/Kg-dry	10	07/08/15 01:38 AM
Benzo[b]fluoranthene	0.146	0.110	0.291	J	mg/Kg-dry	10	07/08/15 01:38 AM
Benzo[g,h,i]perylene	0.117	0.110	0.291	J	mg/Kg-dry	10	07/08/15 01:38 AM
Benzo[k]fluoranthene	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
Benzoic acid	<0.548	0.548	1.45		mg/Kg-dry	10	07/08/15 01:38 AM
Benzyl alcohol	<0.110	0.110	0.723		mg/Kg-dry	10	07/08/15 01:38 AM
Biphenyl	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
Bis(2-chloroethoxy)methane	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
Bis(2-chloroethyl)ether	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
Bis(2-chloroisopropyl)ether	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
Bis(2-ethylhexyl)phthalate	83.9	3.29	7.23		mg/Kg-dry	100	07/08/15 12:51 AM
Butyl benzyl phthalate	<0.438	0.438	0.723		mg/Kg-dry	10	07/08/15 01:38 AM
Caprolactam	<0.219	0.219	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
Carbazole	0.168	0.110	0.291	J	mg/Kg-dry	10	07/08/15 01:38 AM
Chrysene	0.124	0.110	0.291	J	mg/Kg-dry	10	07/08/15 01:38 AM
Dibenz[a,h]anthracene	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
Dibenzofuran	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
Diethyl phthalate	<0.438	0.438	0.723		mg/Kg-dry	10	07/08/15 01:38 AM
Dimethyl phthalate	<0.438	0.438	0.723		mg/Kg-dry	10	07/08/15 01:38 AM
Di-n-butyl phthalate	<0.438	0.438	0.723		mg/Kg-dry	10	07/08/15 01:38 AM
Di-n-octyl phthalate	0.884	0.438	0.723		mg/Kg-dry	10	07/08/15 01:38 AM
Fluoranthene	0.153	0.110	0.291	J	mg/Kg-dry	10	07/08/15 01:38 AM
Fluorene	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
Hexachlorobenzene	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
Hexachlorobutadiene	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
Hexachlorocyclopentadiene	<0.329	0.329	0.723		mg/Kg-dry	10	07/08/15 01:38 AM
Hexachloroethane	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
Indeno[1,2,3-cd]pyrene	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
Isophorone	<0.329	0.329	0.723		mg/Kg-dry	10	07/08/15 01:38 AM
Naphthalene	0.175	0.110	0.291	J	mg/Kg-dry	10	07/08/15 01:38 AM
Nitrobenzene	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
N-Nitrosodi-n-propylamine	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
N-Nitrosodiphenylamine	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
Pentachlorophenol	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
Phenanthrene	0.175	0.110	0.291	J	mg/Kg-dry	10	07/08/15 01:38 AM
Phenol	<0.110	0.110	0.291		mg/Kg-dry	10	07/08/15 01:38 AM
Pyrene	0.146	0.110	0.291	J	mg/Kg-dry	10	07/08/15 01:38 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB06-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-11
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 11:20 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	90.0	0	45-126		%REC	10	07/08/15 01:38 AM
Surr: 2,4,6-Tribromophenol	300	0	45-126	S	%REC	100	07/08/15 12:51 AM
Surr: 2-Fluorobiphenyl	100	0	60-125		%REC	100	07/08/15 12:51 AM
Surr: 2-Fluorobiphenyl	80.0	0	60-125		%REC	10	07/08/15 01:38 AM
Surr: 2-Fluorophenol	0	0	37-125	S	%REC	100	07/08/15 12:51 AM
Surr: 2-Fluorophenol	40.0	0	37-125		%REC	10	07/08/15 01:38 AM
Surr: 4-Terphenyl-d14	80.0	0	45-125		%REC	10	07/08/15 01:38 AM
Surr: 4-Terphenyl-d14	100	0	45-125		%REC	100	07/08/15 12:51 AM
Surr: Nitrobenzene-d5	100	0	45-125		%REC	100	07/08/15 12:51 AM
Surr: Nitrobenzene-d5	80.0	0	45-125		%REC	10	07/08/15 01:38 AM
Surr: Phenol-d5	100	0	40-125		%REC	100	07/08/15 12:51 AM
Surr: Phenol-d5	70.0	0	40-125		%REC	10	07/08/15 01:38 AM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **KL**
Aroclor 1016	<0.0183	0.0183	0.0365		mg/Kg-dry	1	07/02/15 11:01 PM
Aroclor 1221	<0.0183	0.0183	0.0365		mg/Kg-dry	1	07/02/15 11:01 PM
Aroclor 1232	<0.0183	0.0183	0.0365		mg/Kg-dry	1	07/02/15 11:01 PM
Aroclor 1242	<0.0183	0.0183	0.0365		mg/Kg-dry	1	07/02/15 11:01 PM
Aroclor 1248	<0.0183	0.0183	0.0365		mg/Kg-dry	1	07/02/15 11:01 PM
Aroclor 1254	<0.0183	0.0183	0.0365		mg/Kg-dry	1	07/02/15 11:01 PM
Aroclor 1260	<0.0183	0.0183	0.0365		mg/Kg-dry	1	07/02/15 11:01 PM
Surr: 2-Fluorobiphenyl	126	0	43-125	S	%REC	1	07/02/15 11:01 PM
Surr: 4-Terphenyl-d14	73.0	0	32-125		%REC	1	07/02/15 11:01 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
1,1,1-Trichloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
1,1,2,2-Tetrachloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
1,1,2-Trichloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
1,1,2-Trichlorotrifluoroethane	<0.00698	0.00698	0.0210		mg/Kg-dry	1	06/30/15 08:03 PM
1,1-Dichloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
1,1-Dichloroethene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
1,1-Dichloropropene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
1,2,3-Trichlorobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
1,2,3-Trichloropropane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
1,2,4-Trichlorobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
1,2,4-Trimethylbenzene	0.207	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
1,2-Dibromo-3-chloropropane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
1,2-Dibromoethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
1,2-Dichlorobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB06-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-11
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 11:20 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,2-Dichloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
1,2-Dichloropropane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
1,3,5-Trimethylbenzene	0.0548	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
1,3-Dichlorobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
1,3-Dichloropropane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
1,4-Dichlorobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
1-Chlorohexane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
2,2-Dichloropropane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
2-Butanone	0.0632	0.00698	0.0210		mg/Kg-dry	1	06/30/15 08:03 PM
2-Chlorotoluene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
2-Hexanone	<0.00698	0.00698	0.0210		mg/Kg-dry	1	06/30/15 08:03 PM
4-Chlorotoluene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
4-Methyl-2-pentanone	<0.00698	0.00698	0.0210		mg/Kg-dry	1	06/30/15 08:03 PM
Acetone	0.387	0.0210	0.0698		mg/Kg-dry	1	06/30/15 08:03 PM
Benzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Bromobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Bromochloromethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Bromodichloromethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Bromoform	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Bromomethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Carbon disulfide	0.00760	0.00698	0.0210	J	mg/Kg-dry	1	06/30/15 08:03 PM
Carbon tetrachloride	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Chlorobenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Chloroethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Chloroform	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Chloromethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
cis-1,2-Dichloroethene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
cis-1,3-Dichloropropene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Cyclohexane	0.0228	0.00698	0.0210	N	mg/Kg-dry	1	06/30/15 08:03 PM
Dibromochloromethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Dibromomethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Dichlorodifluoromethane	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Ethylbenzene	0.0205	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Hexachlorobutadiene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Isopropylbenzene	0.0127	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
m,p-Xylene	0.0553	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Methyl Acetate	<0.00698	0.00698	0.0210		mg/Kg-dry	1	06/30/15 08:03 PM
Methyl tert-butyl ether	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Methylcyclohexane	0.0835	0.00698	0.0210		mg/Kg-dry	1	06/30/15 08:03 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB06-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-11
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 11:20 AM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
Methylene chloride	<0.00698	0.00698	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Naphthalene	0.0931	0.00698	0.0210		mg/Kg-dry	1	06/30/15 08:03 PM
n-Butylbenzene	0.00567	0.00140	0.00698	J	mg/Kg-dry	1	06/30/15 08:03 PM
n-Propylbenzene	0.0192	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
o-Xylene	0.0213	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
p-Isopropyltoluene	0.0101	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
sec-Butylbenzene	0.00522	0.00140	0.00698	J	mg/Kg-dry	1	06/30/15 08:03 PM
Styrene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
tert-Butylbenzene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Tetrachloroethene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Toluene	0.00686	0.00140	0.00698	J	mg/Kg-dry	1	06/30/15 08:03 PM
trans-1,2-Dichloroethene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
trans-1,3-Dichloropropene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Trichloroethene	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Trichlorofluoromethane	<0.00698	0.00698	0.0210		mg/Kg-dry	1	06/30/15 08:03 PM
Vinyl chloride	<0.00140	0.00140	0.00698		mg/Kg-dry	1	06/30/15 08:03 PM
Surr: 1,2-Dichloroethane-d4	113	0	52-149		%REC	1	06/30/15 08:03 PM
Surr: 4-Bromofluorobenzene	106	0	84-118		%REC	1	06/30/15 08:03 PM
Surr: Dibromofluoromethane	3.08	0	65-135	S	%REC	1	06/30/15 08:03 PM
Surr: Toluene-d8	94.2	0	84-116		%REC	1	06/30/15 08:03 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	13.8	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB06-015
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-12
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 11:35 AM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	07/01/15 11:28 AM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	07/07/15 01:10 PM
Barium	0.00806	0.00300	0.0100	J	mg/L	1	07/07/15 01:10 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	07/07/15 01:10 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	07/07/15 01:10 PM
Lead	0.0257	0.000300	0.00100		mg/L	1	07/07/15 01:10 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	07/07/15 01:10 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	07/07/15 01:10 PM
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
2,4,6-Trichlorophenol	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
2,4-Dichlorophenol	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
2,4-Dimethylphenol	<0.000419	0.000419	0.000838		mg/L	1	07/02/15 04:37 PM
2,4-Dinitrophenol	<0.00105	0.00105	0.00419		mg/L	1	07/02/15 04:37 PM
2,4-Dinitrotoluene	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
2,6-Dinitrotoluene	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
2-Chloronaphthalene	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
2-Chlorophenol	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
2-Methylnaphthalene	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
2-Methylphenol	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
2-Nitroaniline	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
2-Nitrophenol	<0.000419	0.000419	0.000838		mg/L	1	07/02/15 04:37 PM
3,3´-Dichlorobenzidine	<0.000419	0.000419	0.000838		mg/L	1	07/02/15 04:37 PM
3-Nitroaniline	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
4,6-Dinitro-2-methylphenol	<0.000524	0.000524	0.00210		mg/L	1	07/02/15 04:37 PM
4-Bromophenyl phenyl ether	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
4-Chloro-3-methylphenol	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
4-Chloroaniline	<0.000524	0.000524	0.00210		mg/L	1	07/02/15 04:37 PM
4-Chlorophenyl phenyl ether	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
4-Methylphenol	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
4-Nitroaniline	<0.000419	0.000419	0.000838		mg/L	1	07/02/15 04:37 PM
4-Nitrophenol	<0.00105	0.00105	0.00419		mg/L	1	07/02/15 04:37 PM
Acenaphthene	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Acenaphthylene	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Acetophenone	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Anthracene	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Atrazine	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB06-015
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-12
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 11:35 AM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.000419	0.000419	0.000838	N	mg/L	1	07/02/15 04:37 PM
Benzo[a]anthracene	<0.000419	0.000419	0.000838		mg/L	1	07/02/15 04:37 PM
Benzo[a]pyrene	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Benzo[b]fluoranthene	<0.000419	0.000419	0.000838		mg/L	1	07/02/15 04:37 PM
Benzo[g,h,i]perylene	<0.000419	0.000419	0.000838		mg/L	1	07/02/15 04:37 PM
Benzo[k]fluoranthene	<0.000419	0.000419	0.000838		mg/L	1	07/02/15 04:37 PM
Benzoic acid	<0.00210	0.00210	0.00629		mg/L	1	07/02/15 04:37 PM
Benzyl alcohol	<0.000524	0.000524	0.00210		mg/L	1	07/02/15 04:37 PM
Biphenyl	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Bis(2-chloroethoxy)methane	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Bis(2-chloroethyl)ether	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Bis(2-chloroisopropyl)ether	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Bis(2-ethylhexyl)phthalate	<0.00105	0.00105	0.00314		mg/L	1	07/02/15 04:37 PM
Butyl benzyl phthalate	<0.00210	0.00210	0.00629		mg/L	1	07/02/15 04:37 PM
Caprolactam	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Carbazole	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Chrysene	<0.000419	0.000419	0.000838		mg/L	1	07/02/15 04:37 PM
Dibenz[a,h]anthracene	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Dibenzofuran	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Diethyl phthalate	<0.00210	0.00210	0.00629		mg/L	1	07/02/15 04:37 PM
Dimethyl phthalate	<0.00210	0.00210	0.00629		mg/L	1	07/02/15 04:37 PM
Di-n-butyl phthalate	<0.00210	0.00210	0.00629		mg/L	1	07/02/15 04:37 PM
Di-n-octyl phthalate	<0.00210	0.00210	0.00629		mg/L	1	07/02/15 04:37 PM
Fluoranthene	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Fluorene	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Hexachlorobenzene	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Hexachlorobutadiene	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Hexachlorocyclopentadiene	<0.000524	0.000524	0.00210		mg/L	1	07/02/15 04:37 PM
Hexachloroethane	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Indeno[1,2,3-cd]pyrene	<0.000419	0.000419	0.000838		mg/L	1	07/02/15 04:37 PM
Isophorone	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Naphthalene	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Nitrobenzene	<0.000419	0.000419	0.000838		mg/L	1	07/02/15 04:37 PM
N-Nitrosodi-n-propylamine	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
N-Nitrosodiphenylamine	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Pentachlorophenol	<0.000419	0.000419	0.000838		mg/L	1	07/02/15 04:37 PM
Phenanthrene	<0.000210	0.000210	0.000838		mg/L	1	07/02/15 04:37 PM
Phenol	<0.000419	0.000419	0.000838		mg/L	1	07/02/15 04:37 PM
Pyrene	<0.000419	0.000419	0.000838		mg/L	1	07/02/15 04:37 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB06-015
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-12
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 11:35 AM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	74.2	0	42-124		%REC	1	07/02/15 04:37 PM
Surr: 2-Fluorobiphenyl	76.0	0	48-120		%REC	1	07/02/15 04:37 PM
Surr: 2-Fluorophenol	50.5	0	20-120		%REC	1	07/02/15 04:37 PM
Surr: 4-Terphenyl-d14	69.5	0	51-135		%REC	1	07/02/15 04:37 PM
Surr: Nitrobenzene-d5	73.5	0	41-120		%REC	1	07/02/15 04:37 PM
Surr: Phenol-d5	42.5	0	20-120		%REC	1	07/02/15 04:37 PM
PCB BY GC/MS - AQUEOUS		**SW8270D**					Analyst: **DEW**
Aroclor 1016	<0.000104	0.000104	0.000260		mg/L	1	07/06/15 08:53 PM
Aroclor 1221	<0.000104	0.000104	0.000260		mg/L	1	07/06/15 08:53 PM
Aroclor 1232	<0.000104	0.000104	0.000260		mg/L	1	07/06/15 08:53 PM
Aroclor 1242	<0.000104	0.000104	0.000260		mg/L	1	07/06/15 08:53 PM
Aroclor 1248	<0.000104	0.000104	0.000260		mg/L	1	07/06/15 08:53 PM
Aroclor 1254	<0.000104	0.000104	0.000260		mg/L	1	07/06/15 08:53 PM
Aroclor 1260	<0.000104	0.000104	0.000260		mg/L	1	07/06/15 08:53 PM
Surr: 2-Fluorobiphenyl	87.7	0	40-140		%REC	1	07/06/15 08:53 PM
Surr: 4-Terphenyl-d14	104	0	40-140		%REC	1	07/06/15 08:53 PM
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
1,1,1-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
1,1,2,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
1,1,2-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
1,1,2-Trichlorotrifluoroethane	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 03:32 PM
1,1-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
1,1-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
1,1-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 03:32 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 03:32 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 03:32 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	06/29/15 03:32 PM
1,2-Dibromoethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
1,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 03:32 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
1,3-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB06-015
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-12
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 11:35 AM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00100	0.00100	0.00500		mg/L	1	06/29/15 03:32 PM
2,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 03:32 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 03:32 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 03:32 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 03:32 PM
Benzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Bromobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Bromochloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Bromodichloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Bromoform	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 03:32 PM
Carbon tetrachloride	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Chlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
cis-1,2-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
cis-1,3-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Cyclohexane	<0.00500	0.00500	0.0150	N	mg/L	1	06/29/15 03:32 PM
Dibromochloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Dibromomethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Dichlorodifluoromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Hexachlorobutadiene	<0.00100	0.00100	0.00300		mg/L	1	06/29/15 03:32 PM
Isopropylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 03:32 PM
Methyl Acetate	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 03:32 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Methylcyclohexane	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 03:32 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	06/29/15 03:32 PM
Naphthalene	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 03:32 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB06-015
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-12
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 11:35 AM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Styrene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 03:32 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 03:32 PM
trans-1,2-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
trans-1,3-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Trichloroethene	<0.000600	0.000600	0.00100		mg/L	1	06/29/15 03:32 PM
Trichlorofluoromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Vinyl chloride	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:32 PM
Surr: 1,2-Dichloroethane-d4	106	0	72-119		%REC	1	06/29/15 03:32 PM
Surr: 4-Bromofluorobenzene	101	0	76-119		%REC	1	06/29/15 03:32 PM
Surr: Dibromofluoromethane	105	0	85-115		%REC	1	06/29/15 03:32 PM
Surr: Toluene-d8	95.8	0	81-120		%REC	1	06/29/15 03:32 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW07-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-13
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 02:30 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	07/01/15 11:30 AM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	<0.0100	0.0100	0.0250		mg/L	5	07/07/15 01:59 PM
Barium	0.0738	0.0150	0.0500		mg/L	5	07/07/15 01:59 PM
Cadmium	<0.00150	0.00150	0.00500		mg/L	5	07/07/15 01:59 PM
Chromium	<0.0100	0.0100	0.0250		mg/L	5	07/07/15 01:59 PM
Lead	<0.00150	0.00150	0.00500		mg/L	5	07/07/15 01:59 PM
Selenium	<0.0100	0.0100	0.0250		mg/L	5	07/07/15 01:59 PM
Silver	<0.00500	0.00500	0.0100		mg/L	5	07/07/15 01:59 PM
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
2,4,6-Trichlorophenol	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
2,4-Dichlorophenol	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
2,4-Dimethylphenol	<0.000394	0.000394	0.000788		mg/L	1	07/02/15 05:00 PM
2,4-Dinitrophenol	<0.000984	0.000984	0.00394		mg/L	1	07/02/15 05:00 PM
2,4-Dinitrotoluene	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
2,6-Dinitrotoluene	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
2-Chloronaphthalene	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
2-Chlorophenol	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
2-Methylnaphthalene	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
2-Methylphenol	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
2-Nitroaniline	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
2-Nitrophenol	<0.000394	0.000394	0.000788		mg/L	1	07/02/15 05:00 PM
3,3´-Dichlorobenzidine	<0.000394	0.000394	0.000788		mg/L	1	07/02/15 05:00 PM
3-Nitroaniline	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
4,6-Dinitro-2-methylphenol	<0.000492	0.000492	0.00197		mg/L	1	07/02/15 05:00 PM
4-Bromophenyl phenyl ether	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
4-Chloro-3-methylphenol	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
4-Chloroaniline	<0.000492	0.000492	0.00197		mg/L	1	07/02/15 05:00 PM
4-Chlorophenyl phenyl ether	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
4-Methylphenol	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
4-Nitroaniline	<0.000394	0.000394	0.000788		mg/L	1	07/02/15 05:00 PM
4-Nitrophenol	<0.000984	0.000984	0.00394		mg/L	1	07/02/15 05:00 PM
Acenaphthene	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Acenaphthylene	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Acetophenone	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Anthracene	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Atrazine	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW07-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-13
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 02:30 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.000394	0.000394	0.000788	N	mg/L	1	07/02/15 05:00 PM
Benzo[a]anthracene	<0.000394	0.000394	0.000788		mg/L	1	07/02/15 05:00 PM
Benzo[a]pyrene	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Benzo[b]fluoranthene	<0.000394	0.000394	0.000788		mg/L	1	07/02/15 05:00 PM
Benzo[g,h,i]perylene	<0.000394	0.000394	0.000788		mg/L	1	07/02/15 05:00 PM
Benzo[k]fluoranthene	<0.000394	0.000394	0.000788		mg/L	1	07/02/15 05:00 PM
Benzoic acid	<0.00197	0.00197	0.00591		mg/L	1	07/02/15 05:00 PM
Benzyl alcohol	<0.000492	0.000492	0.00197		mg/L	1	07/02/15 05:00 PM
Biphenyl	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Bis(2-chloroethoxy)methane	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Bis(2-chloroethyl)ether	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Bis(2-chloroisopropyl)ether	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Bis(2-ethylhexyl)phthalate	<0.000984	0.000984	0.00295		mg/L	1	07/02/15 05:00 PM
Butyl benzyl phthalate	<0.00197	0.00197	0.00591		mg/L	1	07/02/15 05:00 PM
Caprolactam	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Carbazole	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Chrysene	<0.000394	0.000394	0.000788		mg/L	1	07/02/15 05:00 PM
Dibenz[a,h]anthracene	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Dibenzofuran	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Diethyl phthalate	<0.00197	0.00197	0.00591		mg/L	1	07/02/15 05:00 PM
Dimethyl phthalate	<0.00197	0.00197	0.00591		mg/L	1	07/02/15 05:00 PM
Di-n-butyl phthalate	<0.00197	0.00197	0.00591		mg/L	1	07/02/15 05:00 PM
Di-n-octyl phthalate	<0.00197	0.00197	0.00591		mg/L	1	07/02/15 05:00 PM
Fluoranthene	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Fluorene	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Hexachlorobenzene	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Hexachlorobutadiene	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Hexachlorocyclopentadiene	<0.000492	0.000492	0.00197		mg/L	1	07/02/15 05:00 PM
Hexachloroethane	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Indeno[1,2,3-cd]pyrene	<0.000394	0.000394	0.000788		mg/L	1	07/02/15 05:00 PM
Isophorone	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Naphthalene	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Nitrobenzene	<0.000394	0.000394	0.000788		mg/L	1	07/02/15 05:00 PM
N-Nitrosodi-n-propylamine	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
N-Nitrosodiphenylamine	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Pentachlorophenol	<0.000394	0.000394	0.000788		mg/L	1	07/02/15 05:00 PM
Phenanthrene	<0.000197	0.000197	0.000788		mg/L	1	07/02/15 05:00 PM
Phenol	<0.000394	0.000394	0.000788		mg/L	1	07/02/15 05:00 PM
Pyrene	<0.000394	0.000394	0.000788		mg/L	1	07/02/15 05:00 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW07-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-13
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 02:30 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	71.3	0	42-124		%REC	1	07/02/15 05:00 PM
Surr: 2-Fluorobiphenyl	78.3	0	48-120		%REC	1	07/02/15 05:00 PM
Surr: 2-Fluorophenol	61.8	0	20-120		%REC	1	07/02/15 05:00 PM
Surr: 4-Terphenyl-d14	77.2	0	51-135		%REC	1	07/02/15 05:00 PM
Surr: Nitrobenzene-d5	77.0	0	41-120		%REC	1	07/02/15 05:00 PM
Surr: Phenol-d5	52.0	0	20-120		%REC	1	07/02/15 05:00 PM
PCB BY GC/MS - AQUEOUS		**SW8270D**					Analyst: **DEW**
Aroclor 1016	<0.000103	0.000103	0.000258		mg/L	1	07/06/15 09:24 PM
Aroclor 1221	<0.000103	0.000103	0.000258		mg/L	1	07/06/15 09:24 PM
Aroclor 1232	<0.000103	0.000103	0.000258		mg/L	1	07/06/15 09:24 PM
Aroclor 1242	<0.000103	0.000103	0.000258		mg/L	1	07/06/15 09:24 PM
Aroclor 1248	<0.000103	0.000103	0.000258		mg/L	1	07/06/15 09:24 PM
Aroclor 1254	<0.000103	0.000103	0.000258		mg/L	1	07/06/15 09:24 PM
Aroclor 1260	<0.000103	0.000103	0.000258		mg/L	1	07/06/15 09:24 PM
Surr: 2-Fluorobiphenyl	70.2	0	40-140		%REC	1	07/06/15 09:24 PM
Surr: 4-Terphenyl-d14	77.3	0	40-140		%REC	1	07/06/15 09:24 PM
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
1,1,1-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
1,1,2,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
1,1,2-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
1,1,2-Trichlorotrifluoroethane	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 03:56 PM
1,1-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
1,1-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
1,1-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 03:56 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 03:56 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 03:56 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	06/29/15 03:56 PM
1,2-Dibromoethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
1,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 03:56 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
1,3-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW07-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-13
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 02:30 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00100	0.00100	0.00500		mg/L	1	06/29/15 03:56 PM
2,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 03:56 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 03:56 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 03:56 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 03:56 PM
Benzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Bromobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Bromochloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Bromodichloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Bromoform	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 03:56 PM
Carbon tetrachloride	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Chlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
cis-1,2-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
cis-1,3-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Cyclohexane	<0.00500	0.00500	0.0150	N	mg/L	1	06/29/15 03:56 PM
Dibromochloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Dibromomethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Dichlorodifluoromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Hexachlorobutadiene	<0.00100	0.00100	0.00300		mg/L	1	06/29/15 03:56 PM
Isopropylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 03:56 PM
Methyl Acetate	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 03:56 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Methylcyclohexane	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 03:56 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	06/29/15 03:56 PM
Naphthalene	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 03:56 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW07-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-13
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 02:30 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Styrene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 03:56 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 03:56 PM
trans-1,2-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
trans-1,3-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Trichloroethene	<0.000600	0.000600	0.00100		mg/L	1	06/29/15 03:56 PM
Trichlorofluoromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Vinyl chloride	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 03:56 PM
Surr: 1,2-Dichloroethane-d4	105	0	72-119		%REC	1	06/29/15 03:56 PM
Surr: 4-Bromofluorobenzene	101	0	76-119		%REC	1	06/29/15 03:56 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	06/29/15 03:56 PM
Surr: Toluene-d8	95.6	0	81-120		%REC	1	06/29/15 03:56 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW01-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-14
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 04:20 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	07/01/15 11:33 AM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.00297	0.00200	0.00500	J	mg/L	1	07/07/15 01:14 PM
Barium	0.0332	0.00300	0.0100		mg/L	1	07/07/15 01:14 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	07/07/15 01:14 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	07/07/15 01:14 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	07/07/15 01:14 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	07/07/15 01:14 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	07/07/15 01:14 PM
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
2,4,6-Trichlorophenol	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
2,4-Dichlorophenol	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
2,4-Dimethylphenol	<0.000431	0.000431	0.000863		mg/L	1	07/02/15 05:23 PM
2,4-Dinitrophenol	<0.00108	0.00108	0.00431		mg/L	1	07/02/15 05:23 PM
2,4-Dinitrotoluene	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
2,6-Dinitrotoluene	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
2-Chloronaphthalene	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
2-Chlorophenol	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
2-Methylnaphthalene	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
2-Methylphenol	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
2-Nitroaniline	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
2-Nitrophenol	<0.000431	0.000431	0.000863		mg/L	1	07/02/15 05:23 PM
3,3´-Dichlorobenzidine	<0.000431	0.000431	0.000863		mg/L	1	07/02/15 05:23 PM
3-Nitroaniline	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
4,6-Dinitro-2-methylphenol	<0.000539	0.000539	0.00216		mg/L	1	07/02/15 05:23 PM
4-Bromophenyl phenyl ether	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
4-Chloro-3-methylphenol	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
4-Chloroaniline	<0.000539	0.000539	0.00216		mg/L	1	07/02/15 05:23 PM
4-Chlorophenyl phenyl ether	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
4-Methylphenol	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
4-Nitroaniline	<0.000431	0.000431	0.000863		mg/L	1	07/02/15 05:23 PM
4-Nitrophenol	<0.00108	0.00108	0.00431		mg/L	1	07/02/15 05:23 PM
Acenaphthene	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Acenaphthylene	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Acetophenone	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Anthracene	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Atrazine	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW01-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-14
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 04:20 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.000431	0.000431	0.000863	N	mg/L	1	07/02/15 05:23 PM
Benzo[a]anthracene	<0.000431	0.000431	0.000863		mg/L	1	07/02/15 05:23 PM
Benzo[a]pyrene	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Benzo[b]fluoranthene	<0.000431	0.000431	0.000863		mg/L	1	07/02/15 05:23 PM
Benzo[g,h,i]perylene	<0.000431	0.000431	0.000863		mg/L	1	07/02/15 05:23 PM
Benzo[k]fluoranthene	<0.000431	0.000431	0.000863		mg/L	1	07/02/15 05:23 PM
Benzoic acid	<0.00216	0.00216	0.00647		mg/L	1	07/02/15 05:23 PM
Benzyl alcohol	<0.000539	0.000539	0.00216		mg/L	1	07/02/15 05:23 PM
Biphenyl	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Bis(2-chloroethoxy)methane	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Bis(2-chloroethyl)ether	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Bis(2-chloroisopropyl)ether	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Bis(2-ethylhexyl)phthalate	<0.00108	0.00108	0.00324		mg/L	1	07/02/15 05:23 PM
Butyl benzyl phthalate	<0.00216	0.00216	0.00647		mg/L	1	07/02/15 05:23 PM
Caprolactam	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Carbazole	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Chrysene	<0.000431	0.000431	0.000863		mg/L	1	07/02/15 05:23 PM
Dibenz[a,h]anthracene	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Dibenzofuran	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Diethyl phthalate	<0.00216	0.00216	0.00647		mg/L	1	07/02/15 05:23 PM
Dimethyl phthalate	<0.00216	0.00216	0.00647		mg/L	1	07/02/15 05:23 PM
Di-n-butyl phthalate	<0.00216	0.00216	0.00647		mg/L	1	07/02/15 05:23 PM
Di-n-octyl phthalate	<0.00216	0.00216	0.00647		mg/L	1	07/02/15 05:23 PM
Fluoranthene	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Fluorene	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Hexachlorobenzene	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Hexachlorobutadiene	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Hexachlorocyclopentadiene	<0.000539	0.000539	0.00216		mg/L	1	07/02/15 05:23 PM
Hexachloroethane	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Indeno[1,2,3-cd]pyrene	<0.000431	0.000431	0.000863		mg/L	1	07/02/15 05:23 PM
Isophorone	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Naphthalene	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Nitrobenzene	<0.000431	0.000431	0.000863		mg/L	1	07/02/15 05:23 PM
N-Nitrosodi-n-propylamine	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
N-Nitrosodiphenylamine	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Pentachlorophenol	<0.000431	0.000431	0.000863		mg/L	1	07/02/15 05:23 PM
Phenanthrene	<0.000216	0.000216	0.000863		mg/L	1	07/02/15 05:23 PM
Phenol	<0.000431	0.000431	0.000863		mg/L	1	07/02/15 05:23 PM
Pyrene	<0.000431	0.000431	0.000863		mg/L	1	07/02/15 05:23 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW01-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-14
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 04:20 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	79.0	0	42-124		%REC	1	07/02/15 05:23 PM
Surr: 2-Fluorobiphenyl	84.0	0	48-120		%REC	1	07/02/15 05:23 PM
Surr: 2-Fluorophenol	53.8	0	20-120		%REC	1	07/02/15 05:23 PM
Surr: 4-Terphenyl-d14	82.0	0	51-135		%REC	1	07/02/15 05:23 PM
Surr: Nitrobenzene-d5	112	0	41-120		%REC	1	07/02/15 05:23 PM
Surr: Phenol-d5	47.8	0	20-120		%REC	1	07/02/15 05:23 PM
PCB BY GC/MS - AQUEOUS		**SW8270D**					Analyst: **DEW**
Aroclor 1016	<0.000107	0.000107	0.000268		mg/L	1	07/06/15 09:54 PM
Aroclor 1221	<0.000107	0.000107	0.000268		mg/L	1	07/06/15 09:54 PM
Aroclor 1232	<0.000107	0.000107	0.000268		mg/L	1	07/06/15 09:54 PM
Aroclor 1242	<0.000107	0.000107	0.000268		mg/L	1	07/06/15 09:54 PM
Aroclor 1248	<0.000107	0.000107	0.000268		mg/L	1	07/06/15 09:54 PM
Aroclor 1254	<0.000107	0.000107	0.000268		mg/L	1	07/06/15 09:54 PM
Aroclor 1260	<0.000107	0.000107	0.000268		mg/L	1	07/06/15 09:54 PM
Surr: 2-Fluorobiphenyl	102	0	40-140		%REC	1	07/06/15 09:54 PM
Surr: 4-Terphenyl-d14	115	0	40-140		%REC	1	07/06/15 09:54 PM
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
1,1,1-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
1,1,2,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
1,1,2-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
1,1,2-Trichlorotrifluoroethane	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 04:20 PM
1,1-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
1,1-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
1,1-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 04:20 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 04:20 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 04:20 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	06/29/15 04:20 PM
1,2-Dibromoethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
1,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 04:20 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
1,3-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW01-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-14
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 04:20 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00100	0.00100	0.00500		mg/L	1	06/29/15 04:20 PM
2,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 04:20 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 04:20 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 04:20 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 04:20 PM
Benzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Bromobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Bromochloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Bromodichloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Bromoform	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 04:20 PM
Carbon tetrachloride	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Chlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
cis-1,2-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
cis-1,3-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Cyclohexane	<0.00500	0.00500	0.0150	N	mg/L	1	06/29/15 04:20 PM
Dibromochloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Dibromomethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Dichlorodifluoromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Hexachlorobutadiene	<0.00100	0.00100	0.00300		mg/L	1	06/29/15 04:20 PM
Isopropylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 04:20 PM
Methyl Acetate	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 04:20 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Methylcyclohexane	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 04:20 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	06/29/15 04:20 PM
Naphthalene	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 04:20 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW01-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-14
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 04:20 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Styrene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 04:20 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 04:20 PM
trans-1,2-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
trans-1,3-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Trichloroethene	<0.000600	0.000600	0.00100		mg/L	1	06/29/15 04:20 PM
Trichlorofluoromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Vinyl chloride	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:20 PM
Surr: 1,2-Dichloroethane-d4	104	0	72-119		%REC	1	06/29/15 04:20 PM
Surr: 4-Bromofluorobenzene	99.9	0	76-119		%REC	1	06/29/15 04:20 PM
Surr: Dibromofluoromethane	105	0	85-115		%REC	1	06/29/15 04:20 PM
Surr: Toluene-d8	95.0	0	81-120		%REC	1	06/29/15 04:20 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW01-011
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-15
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 04:20 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	07/01/15 11:35 AM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.00256	0.00200	0.00500	J	mg/L	1	07/07/15 01:16 PM
Barium	0.0339	0.00300	0.0100		mg/L	1	07/07/15 01:16 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	07/07/15 01:16 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	07/07/15 01:16 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	07/07/15 01:16 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	07/07/15 01:16 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	07/07/15 01:16 PM
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
2,4,6-Trichlorophenol	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
2,4-Dichlorophenol	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
2,4-Dimethylphenol	<0.000429	0.000429	0.000859		mg/L	1	07/02/15 05:47 PM
2,4-Dinitrophenol	<0.00107	0.00107	0.00429		mg/L	1	07/02/15 05:47 PM
2,4-Dinitrotoluene	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
2,6-Dinitrotoluene	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
2-Chloronaphthalene	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
2-Chlorophenol	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
2-Methylnaphthalene	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
2-Methylphenol	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
2-Nitroaniline	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
2-Nitrophenol	<0.000429	0.000429	0.000859		mg/L	1	07/02/15 05:47 PM
3,3´-Dichlorobenzidine	<0.000429	0.000429	0.000859		mg/L	1	07/02/15 05:47 PM
3-Nitroaniline	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
4,6-Dinitro-2-methylphenol	<0.000537	0.000537	0.00215		mg/L	1	07/02/15 05:47 PM
4-Bromophenyl phenyl ether	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
4-Chloro-3-methylphenol	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
4-Chloroaniline	<0.000537	0.000537	0.00215		mg/L	1	07/02/15 05:47 PM
4-Chlorophenyl phenyl ether	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
4-Methylphenol	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
4-Nitroaniline	<0.000429	0.000429	0.000859		mg/L	1	07/02/15 05:47 PM
4-Nitrophenol	<0.00107	0.00107	0.00429		mg/L	1	07/02/15 05:47 PM
Acenaphthene	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Acenaphthylene	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Acetophenone	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Anthracene	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Atrazine	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW01-011
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-15
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 04:20 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.000429	0.000429	0.000859	N	mg/L	1	07/02/15 05:47 PM
Benzo[a]anthracene	<0.000429	0.000429	0.000859		mg/L	1	07/02/15 05:47 PM
Benzo[a]pyrene	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Benzo[b]fluoranthene	<0.000429	0.000429	0.000859		mg/L	1	07/02/15 05:47 PM
Benzo[g,h,i]perylene	<0.000429	0.000429	0.000859		mg/L	1	07/02/15 05:47 PM
Benzo[k]fluoranthene	<0.000429	0.000429	0.000859		mg/L	1	07/02/15 05:47 PM
Benzoic acid	<0.00215	0.00215	0.00644		mg/L	1	07/02/15 05:47 PM
Benzyl alcohol	<0.000537	0.000537	0.00215		mg/L	1	07/02/15 05:47 PM
Biphenyl	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Bis(2-chloroethoxy)methane	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Bis(2-chloroethyl)ether	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Bis(2-chloroisopropyl)ether	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Bis(2-ethylhexyl)phthalate	<0.00107	0.00107	0.00322		mg/L	1	07/02/15 05:47 PM
Butyl benzyl phthalate	<0.00215	0.00215	0.00644		mg/L	1	07/02/15 05:47 PM
Caprolactam	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Carbazole	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Chrysene	<0.000429	0.000429	0.000859		mg/L	1	07/02/15 05:47 PM
Dibenz[a,h]anthracene	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Dibenzofuran	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Diethyl phthalate	<0.00215	0.00215	0.00644		mg/L	1	07/02/15 05:47 PM
Dimethyl phthalate	<0.00215	0.00215	0.00644		mg/L	1	07/02/15 05:47 PM
Di-n-butyl phthalate	<0.00215	0.00215	0.00644		mg/L	1	07/02/15 05:47 PM
Di-n-octyl phthalate	<0.00215	0.00215	0.00644		mg/L	1	07/02/15 05:47 PM
Fluoranthene	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Fluorene	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Hexachlorobenzene	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Hexachlorobutadiene	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Hexachlorocyclopentadiene	<0.000537	0.000537	0.00215		mg/L	1	07/02/15 05:47 PM
Hexachloroethane	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Indeno[1,2,3-cd]pyrene	<0.000429	0.000429	0.000859		mg/L	1	07/02/15 05:47 PM
Isophorone	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Naphthalene	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Nitrobenzene	<0.000429	0.000429	0.000859		mg/L	1	07/02/15 05:47 PM
N-Nitrosodi-n-propylamine	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
N-Nitrosodiphenylamine	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Pentachlorophenol	<0.000429	0.000429	0.000859		mg/L	1	07/02/15 05:47 PM
Phenanthrene	<0.000215	0.000215	0.000859		mg/L	1	07/02/15 05:47 PM
Phenol	<0.000429	0.000429	0.000859		mg/L	1	07/02/15 05:47 PM
Pyrene	<0.000429	0.000429	0.000859		mg/L	1	07/02/15 05:47 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW01-011
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-15
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 04:20 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	71.0	0	42-124		%REC	1	07/02/15 05:47 PM
Surr: 2-Fluorobiphenyl	65.2	0	48-120		%REC	1	07/02/15 05:47 PM
Surr: 2-Fluorophenol	56.0	0	20-120		%REC	1	07/02/15 05:47 PM
Surr: 4-Terphenyl-d14	65.5	0	51-135		%REC	1	07/02/15 05:47 PM
Surr: Nitrobenzene-d5	94.2	0	41-120		%REC	1	07/02/15 05:47 PM
Surr: Phenol-d5	45.5	0	20-120		%REC	1	07/02/15 05:47 PM
PCB BY GC/MS - AQUEOUS		**SW8270D**					Analyst: **DEW**
Aroclor 1016	<0.000103	0.000103	0.000257		mg/L	1	07/06/15 10:25 PM
Aroclor 1221	<0.000103	0.000103	0.000257		mg/L	1	07/06/15 10:25 PM
Aroclor 1232	<0.000103	0.000103	0.000257		mg/L	1	07/06/15 10:25 PM
Aroclor 1242	<0.000103	0.000103	0.000257		mg/L	1	07/06/15 10:25 PM
Aroclor 1248	<0.000103	0.000103	0.000257		mg/L	1	07/06/15 10:25 PM
Aroclor 1254	<0.000103	0.000103	0.000257		mg/L	1	07/06/15 10:25 PM
Aroclor 1260	<0.000103	0.000103	0.000257		mg/L	1	07/06/15 10:25 PM
Surr: 2-Fluorobiphenyl	94.5	0	40-140		%REC	1	07/06/15 10:25 PM
Surr: 4-Terphenyl-d14	106	0	40-140		%REC	1	07/06/15 10:25 PM
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
1,1,1-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
1,1,2,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
1,1,2-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
1,1,2-Trichlorotrifluoroethane	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 04:43 PM
1,1-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
1,1-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
1,1-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 04:43 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 04:43 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 04:43 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	06/29/15 04:43 PM
1,2-Dibromoethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
1,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 04:43 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
1,3-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW01-011
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-15
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 04:20 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00100	0.00100	0.00500		mg/L	1	06/29/15 04:43 PM
2,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 04:43 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 04:43 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 04:43 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 04:43 PM
Benzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Bromobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Bromochloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Bromodichloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Bromoform	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 04:43 PM
Carbon tetrachloride	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Chlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
cis-1,2-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
cis-1,3-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Cyclohexane	<0.00500	0.00500	0.0150	N	mg/L	1	06/29/15 04:43 PM
Dibromochloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Dibromomethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Dichlorodifluoromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Hexachlorobutadiene	<0.00100	0.00100	0.00300		mg/L	1	06/29/15 04:43 PM
Isopropylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 04:43 PM
Methyl Acetate	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 04:43 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Methylcyclohexane	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 04:43 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	06/29/15 04:43 PM
Naphthalene	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 04:43 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW01-011
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-15
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 04:20 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Styrene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 04:43 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 04:43 PM
trans-1,2-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
trans-1,3-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Trichloroethene	<0.000600	0.000600	0.00100		mg/L	1	06/29/15 04:43 PM
Trichlorofluoromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Vinyl chloride	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 04:43 PM
Surr: 1,2-Dichloroethane-d4	105	0	72-119		%REC	1	06/29/15 04:43 PM
Surr: 4-Bromofluorobenzene	99.4	0	76-119		%REC	1	06/29/15 04:43 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	06/29/15 04:43 PM
Surr: Toluene-d8	96.4	0	81-120		%REC	1	06/29/15 04:43 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW03-013
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-16
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 06:10 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	07/01/15 11:17 AM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	0.00594	0.00200	0.00500		mg/L	1	07/07/15 12:54 PM
Barium	0.100	0.00300	0.0100		mg/L	1	07/07/15 12:54 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	07/07/15 12:54 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	07/07/15 12:54 PM
Lead	0.000667	0.000300	0.00100	J	mg/L	1	07/07/15 12:54 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	07/07/15 12:54 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	07/07/15 12:54 PM
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
2,4,6-Trichlorophenol	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
2,4-Dichlorophenol	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
2,4-Dimethylphenol	<0.000410	0.000410	0.000821		mg/L	1	07/02/15 03:50 PM
2,4-Dinitrophenol	<0.00103	0.00103	0.00410		mg/L	1	07/02/15 03:50 PM
2,4-Dinitrotoluene	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
2,6-Dinitrotoluene	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
2-Chloronaphthalene	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
2-Chlorophenol	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
2-Methylnaphthalene	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
2-Methylphenol	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
2-Nitroaniline	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
2-Nitrophenol	<0.000410	0.000410	0.000821		mg/L	1	07/02/15 03:50 PM
3,3´-Dichlorobenzidine	<0.000410	0.000410	0.000821		mg/L	1	07/02/15 03:50 PM
3-Nitroaniline	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
4,6-Dinitro-2-methylphenol	<0.000513	0.000513	0.00205		mg/L	1	07/02/15 03:50 PM
4-Bromophenyl phenyl ether	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
4-Chloro-3-methylphenol	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
4-Chloroaniline	<0.000513	0.000513	0.00205		mg/L	1	07/02/15 03:50 PM
4-Chlorophenyl phenyl ether	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
4-Methylphenol	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
4-Nitroaniline	<0.000410	0.000410	0.000821		mg/L	1	07/02/15 03:50 PM
4-Nitrophenol	<0.00103	0.00103	0.00410		mg/L	1	07/02/15 03:50 PM
Acenaphthene	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Acenaphthylene	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Acetophenone	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Anthracene	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Atrazine	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW03-013
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-16
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 06:10 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.000410	0.000410	0.000821	N	mg/L	1	07/02/15 03:50 PM
Benzo[a]anthracene	<0.000410	0.000410	0.000821		mg/L	1	07/02/15 03:50 PM
Benzo[a]pyrene	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Benzo[b]fluoranthene	<0.000410	0.000410	0.000821		mg/L	1	07/02/15 03:50 PM
Benzo[g,h,i]perylene	<0.000410	0.000410	0.000821		mg/L	1	07/02/15 03:50 PM
Benzo[k]fluoranthene	<0.000410	0.000410	0.000821		mg/L	1	07/02/15 03:50 PM
Benzoic acid	<0.00205	0.00205	0.00616		mg/L	1	07/02/15 03:50 PM
Benzyl alcohol	<0.000513	0.000513	0.00205		mg/L	1	07/02/15 03:50 PM
Biphenyl	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Bis(2-chloroethoxy)methane	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Bis(2-chloroethyl)ether	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Bis(2-chloroisopropyl)ether	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Bis(2-ethylhexyl)phthalate	0.00117	0.00103	0.00308	J	mg/L	1	07/02/15 03:50 PM
Butyl benzyl phthalate	<0.00205	0.00205	0.00616		mg/L	1	07/02/15 03:50 PM
Caprolactam	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Carbazole	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Chrysene	<0.000410	0.000410	0.000821		mg/L	1	07/02/15 03:50 PM
Dibenz[a,h]anthracene	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Dibenzofuran	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Diethyl phthalate	<0.00205	0.00205	0.00616		mg/L	1	07/02/15 03:50 PM
Dimethyl phthalate	<0.00205	0.00205	0.00616		mg/L	1	07/02/15 03:50 PM
Di-n-butyl phthalate	<0.00205	0.00205	0.00616		mg/L	1	07/02/15 03:50 PM
Di-n-octyl phthalate	<0.00205	0.00205	0.00616		mg/L	1	07/02/15 03:50 PM
Fluoranthene	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Fluorene	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Hexachlorobenzene	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Hexachlorobutadiene	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Hexachlorocyclopentadiene	<0.000513	0.000513	0.00205		mg/L	1	07/02/15 03:50 PM
Hexachloroethane	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Indeno[1,2,3-cd]pyrene	<0.000410	0.000410	0.000821		mg/L	1	07/02/15 03:50 PM
Isophorone	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Naphthalene	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Nitrobenzene	<0.000410	0.000410	0.000821		mg/L	1	07/02/15 03:50 PM
N-Nitrosodi-n-propylamine	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
N-Nitrosodiphenylamine	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Pentachlorophenol	<0.000410	0.000410	0.000821		mg/L	1	07/02/15 03:50 PM
Phenanthrene	<0.000205	0.000205	0.000821		mg/L	1	07/02/15 03:50 PM
Phenol	<0.000410	0.000410	0.000821		mg/L	1	07/02/15 03:50 PM
Pyrene	<0.000410	0.000410	0.000821		mg/L	1	07/02/15 03:50 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW03-013
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-16
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 06:10 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	52.5	0	42-124		%REC	1	07/02/15 03:50 PM
Surr: 2-Fluorobiphenyl	58.5	0	48-120		%REC	1	07/02/15 03:50 PM
Surr: 2-Fluorophenol	41.8	0	20-120		%REC	1	07/02/15 03:50 PM
Surr: 4-Terphenyl-d14	59.8	0	51-135		%REC	1	07/02/15 03:50 PM
Surr: Nitrobenzene-d5	60.5	0	41-120		%REC	1	07/02/15 03:50 PM
Surr: Phenol-d5	38.5	0	20-120		%REC	1	07/02/15 03:50 PM
PCB BY GC/MS - AQUEOUS		**SW8270D**					Analyst: **DEW**
Aroclor 1016	<0.000109	0.000109	0.000272		mg/L	1	07/06/15 10:56 PM
Aroclor 1221	<0.000109	0.000109	0.000272		mg/L	1	07/06/15 10:56 PM
Aroclor 1232	<0.000109	0.000109	0.000272		mg/L	1	07/06/15 10:56 PM
Aroclor 1242	<0.000109	0.000109	0.000272		mg/L	1	07/06/15 10:56 PM
Aroclor 1248	<0.000109	0.000109	0.000272		mg/L	1	07/06/15 10:56 PM
Aroclor 1254	<0.000109	0.000109	0.000272		mg/L	1	07/06/15 10:56 PM
Aroclor 1260	<0.000109	0.000109	0.000272		mg/L	1	07/06/15 10:56 PM
Surr: 2-Fluorobiphenyl	106	0	40-140		%REC	1	07/06/15 10:56 PM
Surr: 4-Terphenyl-d14	114	0	40-140		%REC	1	07/06/15 10:56 PM
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
1,1,1-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
1,1,2,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
1,1,2-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
1,1,2-Trichlorotrifluoroethane	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 11:58 AM
1,1-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
1,1-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
1,1-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 11:58 AM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 11:58 AM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 11:58 AM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	06/29/15 11:58 AM
1,2-Dibromoethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
1,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 11:58 AM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
1,3-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW03-013
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-16
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 06:10 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00100	0.00100	0.00500		mg/L	1	06/29/15 11:58 AM
2,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 11:58 AM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 11:58 AM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 11:58 AM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 11:58 AM
Benzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Bromobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Bromochloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Bromodichloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Bromoform	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 11:58 AM
Carbon tetrachloride	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Chlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
cis-1,2-Dichloroethene	0.00831	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
cis-1,3-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Cyclohexane	<0.00500	0.00500	0.0150	N	mg/L	1	06/29/15 11:58 AM
Dibromochloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Dibromomethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Dichlorodifluoromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Hexachlorobutadiene	<0.00100	0.00100	0.00300		mg/L	1	06/29/15 11:58 AM
Isopropylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 11:58 AM
Methyl Acetate	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 11:58 AM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Methylcyclohexane	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 11:58 AM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	06/29/15 11:58 AM
Naphthalene	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 11:58 AM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW03-013
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-16
Project No:	60420789.41012083.0103	**Collection Date:**	06/24/15 06:10 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Styrene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 11:58 AM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 11:58 AM
trans-1,2-Dichloroethene	0.00122	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
trans-1,3-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Trichloroethene	<0.000600	0.000600	0.00100		mg/L	1	06/29/15 11:58 AM
Trichlorofluoromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Vinyl chloride	0.00102	0.000300	0.00100		mg/L	1	06/29/15 11:58 AM
Surr: 1,2-Dichloroethane-d4	99.0	0	72-119		%REC	1	06/29/15 11:58 AM
Surr: 4-Bromofluorobenzene	101	0	76-119		%REC	1	06/29/15 11:58 AM
Surr: Dibromofluoromethane	103	0	85-115		%REC	1	06/29/15 11:58 AM
Surr: Toluene-d8	97.2	0	81-120		%REC	1	06/29/15 11:58 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB05-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-17
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:35 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.0702	0.0174	0.0434		mg/Kg-dry	1	07/07/15 11:25 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	30.9	0.546	1.09		mg/Kg-dry	5	07/06/15 07:00 PM
Barium	970	5.46	21.8		mg/Kg-dry	50	07/07/15 11:33 AM
Cadmium	2.05	0.109	0.328		mg/Kg-dry	5	07/06/15 07:00 PM
Chromium	52.3	0.546	2.18		mg/Kg-dry	5	07/06/15 07:00 PM
Lead	1070	1.09	3.28		mg/Kg-dry	50	07/07/15 11:33 AM
Selenium	0.345	0.164	0.546	J	mg/Kg-dry	5	07/06/15 07:00 PM
Silver	3.06	0.109	0.218		mg/Kg-dry	5	07/06/15 07:00 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
2,4,6-Trichlorophenol	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
2,4-Dichlorophenol	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
2,4-Dimethylphenol	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
2,4-Dinitrophenol	<0.0538	0.0538	0.142		mg/Kg-dry	1	07/07/15 09:46 PM
2,4-Dinitrotoluene	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
2,6-Dinitrotoluene	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
2-Chloronaphthalene	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
2-Chlorophenol	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
2-Methylnaphthalene	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
2-Methylphenol	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
2-Nitroaniline	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
2-Nitrophenol	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
3,3´-Dichlorobenzidine	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
3-Nitroaniline	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
4,6-Dinitro-2-methylphenol	<0.0323	0.0323	0.0710		mg/Kg-dry	1	07/07/15 09:46 PM
4-Bromophenyl phenyl ether	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
4-Chloro-3-methylphenol	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
4-Chloroaniline	<0.0323	0.0323	0.0710		mg/Kg-dry	1	07/07/15 09:46 PM
4-Chlorophenyl phenyl ether	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
4-Methylphenol	<0.0215	0.0215	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
4-Nitroaniline	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
4-Nitrophenol	<0.0538	0.0538	0.142		mg/Kg-dry	1	07/07/15 09:46 PM
Acenaphthene	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Acenaphthylene	0.0215	0.0108	0.0286	J	mg/Kg-dry	1	07/07/15 09:46 PM
Acetophenone	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Anthracene	0.0136	0.0108	0.0286	J	mg/Kg-dry	1	07/07/15 09:46 PM
Atrazine	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB05-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-17
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:35 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.0108	0.0108	0.0286	N	mg/Kg-dry	1	07/07/15 09:46 PM
Benzo[a]anthracene	0.0688	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Benzo[a]pyrene	0.102	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Benzo[b]fluoranthene	0.108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Benzo[g,h,i]perylene	0.0724	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Benzo[k]fluoranthene	0.0631	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Benzoic acid	0.0731	0.0538	0.142	J	mg/Kg-dry	1	07/07/15 09:46 PM
Benzyl alcohol	<0.0108	0.0108	0.0710		mg/Kg-dry	1	07/07/15 09:46 PM
Biphenyl	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Bis(2-chloroethoxy)methane	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Bis(2-chloroethyl)ether	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Bis(2-chloroisopropyl)ether	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Bis(2-ethylhexyl)phthalate	0.0609	0.0323	0.0710	J	mg/Kg-dry	1	07/07/15 09:46 PM
Butyl benzyl phthalate	<0.0430	0.0430	0.0710		mg/Kg-dry	1	07/07/15 09:46 PM
Caprolactam	<0.0215	0.0215	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Carbazole	0.0108	0.0108	0.0286	J	mg/Kg-dry	1	07/07/15 09:46 PM
Chrysene	0.0882	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Dibenz[a,h]anthracene	0.0272	0.0108	0.0286	J	mg/Kg-dry	1	07/07/15 09:46 PM
Dibenzofuran	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Diethyl phthalate	<0.0430	0.0430	0.0710		mg/Kg-dry	1	07/07/15 09:46 PM
Dimethyl phthalate	<0.0430	0.0430	0.0710		mg/Kg-dry	1	07/07/15 09:46 PM
Di-n-butyl phthalate	0.0437	0.0430	0.0710	J	mg/Kg-dry	1	07/07/15 09:46 PM
Di-n-octyl phthalate	<0.0430	0.0430	0.0710		mg/Kg-dry	1	07/07/15 09:46 PM
Fluoranthene	0.166	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Fluorene	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Hexachlorobenzene	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Hexachlorobutadiene	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Hexachlorocyclopentadiene	<0.0323	0.0323	0.0710		mg/Kg-dry	1	07/07/15 09:46 PM
Hexachloroethane	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Indeno[1,2,3-cd]pyrene	0.0588	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Isophorone	<0.0323	0.0323	0.0710		mg/Kg-dry	1	07/07/15 09:46 PM
Naphthalene	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Nitrobenzene	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
N-Nitrosodi-n-propylamine	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
N-Nitrosodiphenylamine	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Pentachlorophenol	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Phenanthrene	0.0545	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Phenol	<0.0108	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM
Pyrene	0.130	0.0108	0.0286		mg/Kg-dry	1	07/07/15 09:46 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB05-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-17
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:35 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	88.0	0	45-126		%REC	1	07/07/15 09:46 PM
Surr: 2-Fluorobiphenyl	78.0	0	60-125		%REC	1	07/07/15 09:46 PM
Surr: 2-Fluorophenol	113	0	37-125		%REC	1	07/07/15 09:46 PM
Surr: 4-Terphenyl-d14	82.0	0	45-125		%REC	1	07/07/15 09:46 PM
Surr: Nitrobenzene-d5	84.0	0	45-125		%REC	1	07/07/15 09:46 PM
Surr: Phenol-d5	95.0	0	40-125		%REC	1	07/07/15 09:46 PM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **KL**
Aroclor 1016	<0.0179	0.0179	0.0358		mg/Kg-dry	1	07/02/15 09:00 PM
Aroclor 1221	<0.0179	0.0179	0.0358		mg/Kg-dry	1	07/02/15 09:00 PM
Aroclor 1232	<0.0179	0.0179	0.0358		mg/Kg-dry	1	07/02/15 09:00 PM
Aroclor 1242	<0.0179	0.0179	0.0358		mg/Kg-dry	1	07/02/15 09:00 PM
Aroclor 1248	<0.0179	0.0179	0.0358		mg/Kg-dry	1	07/02/15 09:00 PM
Aroclor 1254	<0.0179	0.0179	0.0358		mg/Kg-dry	1	07/02/15 09:00 PM
Aroclor 1260	<0.0179	0.0179	0.0358		mg/Kg-dry	1	07/02/15 09:00 PM
Surr: 2-Fluorobiphenyl	151	0	43-125	S	%REC	1	07/02/15 09:00 PM
Surr: 4-Terphenyl-d14	102	0	32-125		%REC	1	07/02/15 09:00 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
1,1,1-Trichloroethane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
1,1,2,2-Tetrachloroethane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
1,1,2-Trichloroethane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
1,1,2-Trichlorotrifluoroethane	<0.00490	0.00490	0.0147		mg/Kg-dry	1	06/30/15 08:34 PM
1,1-Dichloroethane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
1,1-Dichloroethene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
1,1-Dichloropropene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
1,2,3-Trichlorobenzene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
1,2,3-Trichloropropane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
1,2,4-Trichlorobenzene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
1,2,4-Trimethylbenzene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
1,2-Dibromo-3-chloropropane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
1,2-Dibromoethane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
1,2-Dichlorobenzene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
1,2-Dichloroethane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
1,2-Dichloropropane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
1,3,5-Trimethylbenzene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
1,3-Dichlorobenzene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
1,3-Dichloropropane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
1,4-Dichlorobenzene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB05-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-17
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:35 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
2,2-Dichloropropane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
2-Butanone	<0.00490	0.00490	0.0147		mg/Kg-dry	1	06/30/15 08:34 PM
2-Chlorotoluene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
2-Hexanone	<0.00490	0.00490	0.0147		mg/Kg-dry	1	06/30/15 08:34 PM
4-Chlorotoluene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
4-Methyl-2-pentanone	<0.00490	0.00490	0.0147		mg/Kg-dry	1	06/30/15 08:34 PM
Acetone	<0.0147	0.0147	0.0490		mg/Kg-dry	1	06/30/15 08:34 PM
Benzene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Bromobenzene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Bromochloromethane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Bromodichloromethane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Bromoform	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Bromomethane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Carbon disulfide	<0.00490	0.00490	0.0147		mg/Kg-dry	1	06/30/15 08:34 PM
Carbon tetrachloride	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Chlorobenzene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Chloroethane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Chloroform	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Chloromethane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
cis-1,2-Dichloroethene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
cis-1,3-Dichloropropene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Cyclohexane	<0.00490	0.00490	0.0147	N	mg/Kg-dry	1	06/30/15 08:34 PM
Dibromochloromethane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Dibromomethane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Dichlorodifluoromethane	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Ethylbenzene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Hexachlorobutadiene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Isopropylbenzene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
m,p-Xylene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Methyl Acetate	<0.00490	0.00490	0.0147		mg/Kg-dry	1	06/30/15 08:34 PM
Methyl tert-butyl ether	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Methylcyclohexane	<0.00490	0.00490	0.0147		mg/Kg-dry	1	06/30/15 08:34 PM
Methylene chloride	<0.00490	0.00490	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Naphthalene	<0.00490	0.00490	0.0147		mg/Kg-dry	1	06/30/15 08:34 PM
n-Butylbenzene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
n-Propylbenzene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
o-Xylene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
p-Isopropyltoluene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB05-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-17
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:35 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Styrene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
tert-Butylbenzene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Tetrachloroethene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Toluene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
trans-1,2-Dichloroethene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
trans-1,3-Dichloropropene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Trichloroethene	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Trichlorofluoromethane	<0.00490	0.00490	0.0147		mg/Kg-dry	1	06/30/15 08:34 PM
Vinyl chloride	<0.000980	0.000980	0.00490		mg/Kg-dry	1	06/30/15 08:34 PM
Surr: 1,2-Dichloroethane-d4	106	0	52-149		%REC	1	06/30/15 08:34 PM
Surr: 4-Bromofluorobenzene	106	0	84-118		%REC	1	06/30/15 08:34 PM
Surr: Dibromofluoromethane	108	0	65-135		%REC	1	06/30/15 08:34 PM
Surr: Toluene-d8	93.2	0	84-116		%REC	1	06/30/15 08:34 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	9.37	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB05-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-18
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:40 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.108	0.0174	0.0434		mg/Kg-dry	1	07/07/15 11:27 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	81.8	0.536	1.07		mg/Kg-dry	5	07/06/15 07:02 PM
Barium	992	5.36	21.4		mg/Kg-dry	50	07/07/15 11:35 AM
Cadmium	4.13	0.107	0.321		mg/Kg-dry	5	07/06/15 07:02 PM
Chromium	86.3	0.536	2.14		mg/Kg-dry	5	07/06/15 07:02 PM
Lead	2310	1.07	3.21		mg/Kg-dry	50	07/07/15 11:35 AM
Selenium	0.381	0.161	0.536	J	mg/Kg-dry	5	07/06/15 07:02 PM
Silver	2.68	0.107	0.214		mg/Kg-dry	5	07/06/15 07:02 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
2,4,6-Trichlorophenol	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
2,4-Dichlorophenol	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
2,4-Dimethylphenol	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
2,4-Dinitrophenol	<0.0564	0.0564	0.149		mg/Kg-dry	1	07/07/15 08:37 PM
2,4-Dinitrotoluene	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
2,6-Dinitrotoluene	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
2-Chloronaphthalene	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
2-Chlorophenol	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
2-Methylnaphthalene	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
2-Methylphenol	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
2-Nitroaniline	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
2-Nitrophenol	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
3,3´-Dichlorobenzidine	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
3-Nitroaniline	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
4,6-Dinitro-2-methylphenol	<0.0338	0.0338	0.0744		mg/Kg-dry	1	07/07/15 08:37 PM
4-Bromophenyl phenyl ether	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
4-Chloro-3-methylphenol	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
4-Chloroaniline	<0.0338	0.0338	0.0744		mg/Kg-dry	1	07/07/15 08:37 PM
4-Chlorophenyl phenyl ether	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
4-Methylphenol	<0.0225	0.0225	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
4-Nitroaniline	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
4-Nitrophenol	<0.0564	0.0564	0.149		mg/Kg-dry	1	07/07/15 08:37 PM
Acenaphthene	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Acenaphthylene	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Acetophenone	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Anthracene	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Atrazine	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB05-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-18
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:40 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.0113	0.0113	0.0300	N	mg/Kg-dry	1	07/07/15 08:37 PM
Benzo[a]anthracene	0.0443	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Benzo[a]pyrene	0.0601	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Benzo[b]fluoranthene	0.0443	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Benzo[g,h,i]perylene	0.0383	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Benzo[k]fluoranthene	0.0323	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Benzoic acid	0.0759	0.0564	0.149	J	mg/Kg-dry	1	07/07/15 08:37 PM
Benzyl alcohol	<0.0113	0.0113	0.0744		mg/Kg-dry	1	07/07/15 08:37 PM
Biphenyl	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Bis(2-chloroethoxy)methane	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Bis(2-chloroethyl)ether	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Bis(2-chloroisopropyl)ether	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Bis(2-ethylhexyl)phthalate	0.0406	0.0338	0.0744	J	mg/Kg-dry	1	07/07/15 08:37 PM
Butyl benzyl phthalate	<0.0451	0.0451	0.0744		mg/Kg-dry	1	07/07/15 08:37 PM
Caprolactam	0.0398	0.0225	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Carbazole	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Chrysene	0.0443	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Dibenz[a,h]anthracene	0.0158	0.0113	0.0300	J	mg/Kg-dry	1	07/07/15 08:37 PM
Dibenzofuran	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Diethyl phthalate	<0.0451	0.0451	0.0744		mg/Kg-dry	1	07/07/15 08:37 PM
Dimethyl phthalate	<0.0451	0.0451	0.0744		mg/Kg-dry	1	07/07/15 08:37 PM
Di-n-butyl phthalate	0.0503	0.0451	0.0744	J	mg/Kg-dry	1	07/07/15 08:37 PM
Di-n-octyl phthalate	0.0639	0.0451	0.0744	J	mg/Kg-dry	1	07/07/15 08:37 PM
Fluoranthene	0.0631	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Fluorene	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Hexachlorobenzene	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Hexachlorobutadiene	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Hexachlorocyclopentadiene	<0.0338	0.0338	0.0744		mg/Kg-dry	1	07/07/15 08:37 PM
Hexachloroethane	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Indeno[1,2,3-cd]pyrene	0.0346	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Isophorone	<0.0338	0.0338	0.0744		mg/Kg-dry	1	07/07/15 08:37 PM
Naphthalene	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Nitrobenzene	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
N-Nitrosodi-n-propylamine	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
N-Nitrosodiphenylamine	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Pentachlorophenol	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Phenanthrene	0.0173	0.0113	0.0300	J	mg/Kg-dry	1	07/07/15 08:37 PM
Phenol	<0.0113	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM
Pyrene	0.0564	0.0113	0.0300		mg/Kg-dry	1	07/07/15 08:37 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB05-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-18
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:40 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	75.0	0	45-126		%REC	1	07/07/15 08:37 PM
Surr: 2-Fluorobiphenyl	76.0	0	60-125		%REC	1	07/07/15 08:37 PM
Surr: 2-Fluorophenol	116	0	37-125		%REC	1	07/07/15 08:37 PM
Surr: 4-Terphenyl-d14	78.0	0	45-125		%REC	1	07/07/15 08:37 PM
Surr: Nitrobenzene-d5	80.0	0	45-125		%REC	1	07/07/15 08:37 PM
Surr: Phenol-d5	92.0	0	40-125		%REC	1	07/07/15 08:37 PM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **KL**
Aroclor 1016	<0.0188	0.0188	0.0376		mg/Kg-dry	1	07/02/15 06:27 PM
Aroclor 1221	<0.0188	0.0188	0.0376		mg/Kg-dry	1	07/02/15 06:27 PM
Aroclor 1232	<0.0188	0.0188	0.0376		mg/Kg-dry	1	07/02/15 06:27 PM
Aroclor 1242	<0.0188	0.0188	0.0376		mg/Kg-dry	1	07/02/15 06:27 PM
Aroclor 1248	<0.0188	0.0188	0.0376		mg/Kg-dry	1	07/02/15 06:27 PM
Aroclor 1254	<0.0188	0.0188	0.0376		mg/Kg-dry	1	07/02/15 06:27 PM
Aroclor 1260	<0.0188	0.0188	0.0376		mg/Kg-dry	1	07/02/15 06:27 PM
Surr: 2-Fluorobiphenyl	117	0	43-125		%REC	1	07/02/15 06:27 PM
Surr: 4-Terphenyl-d14	110	0	32-125		%REC	1	07/02/15 06:27 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
1,1,1-Trichloroethane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
1,1,2,2-Tetrachloroethane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
1,1,2-Trichloroethane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
1,1,2-Trichlorotrifluoroethane	<0.00526	0.00526	0.0158		mg/Kg-dry	1	06/30/15 11:42 PM
1,1-Dichloroethane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
1,1-Dichloroethene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
1,1-Dichloropropene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
1,2,3-Trichlorobenzene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
1,2,3-Trichloropropane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
1,2,4-Trichlorobenzene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
1,2,4-Trimethylbenzene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
1,2-Dibromo-3-chloropropane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
1,2-Dibromoethane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
1,2-Dichlorobenzene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
1,2-Dichloroethane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
1,2-Dichloropropane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
1,3,5-Trimethylbenzene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
1,3-Dichlorobenzene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
1,3-Dichloropropane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
1,4-Dichlorobenzene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB05-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-18
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:40 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
2,2-Dichloropropane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
2-Butanone	0.0353	0.00526	0.0158		mg/Kg-dry	1	06/30/15 11:42 PM
2-Chlorotoluene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
2-Hexanone	<0.00526	0.00526	0.0158		mg/Kg-dry	1	06/30/15 11:42 PM
4-Chlorotoluene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
4-Methyl-2-pentanone	<0.00526	0.00526	0.0158		mg/Kg-dry	1	06/30/15 11:42 PM
Acetone	0.259	0.0158	0.0526		mg/Kg-dry	1	06/30/15 11:42 PM
Benzene	0.00174	0.00105	0.00526	J	mg/Kg-dry	1	06/30/15 11:42 PM
Bromobenzene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Bromochloromethane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Bromodichloromethane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Bromoform	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Bromomethane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Carbon disulfide	<0.00526	0.00526	0.0158		mg/Kg-dry	1	06/30/15 11:42 PM
Carbon tetrachloride	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Chlorobenzene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Chloroethane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Chloroform	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Chloromethane	0.00259	0.00105	0.00526	J	mg/Kg-dry	1	06/30/15 11:42 PM
cis-1,2-Dichloroethene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
cis-1,3-Dichloropropene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Cyclohexane	<0.00526	0.00526	0.0158	N	mg/Kg-dry	1	06/30/15 11:42 PM
Dibromochloromethane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Dibromomethane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Dichlorodifluoromethane	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Ethylbenzene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Hexachlorobutadiene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Isopropylbenzene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
m,p-Xylene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Methyl Acetate	<0.00526	0.00526	0.0158		mg/Kg-dry	1	06/30/15 11:42 PM
Methyl tert-butyl ether	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Methylcyclohexane	<0.00526	0.00526	0.0158		mg/Kg-dry	1	06/30/15 11:42 PM
Methylene chloride	<0.00526	0.00526	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Naphthalene	<0.00526	0.00526	0.0158		mg/Kg-dry	1	06/30/15 11:42 PM
n-Butylbenzene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
n-Propylbenzene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
o-Xylene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
p-Isopropyltoluene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB05-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-18
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:40 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Styrene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
tert-Butylbenzene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Tetrachloroethene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Toluene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
trans-1,2-Dichloroethene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
trans-1,3-Dichloropropene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Trichloroethene	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Trichlorofluoromethane	<0.00526	0.00526	0.0158		mg/Kg-dry	1	06/30/15 11:42 PM
Vinyl chloride	<0.00105	0.00105	0.00526		mg/Kg-dry	1	06/30/15 11:42 PM
Surr: 1,2-Dichloroethane-d4	109	0	52-149		%REC	1	06/30/15 11:42 PM
Surr: 4-Bromofluorobenzene	106	0	84-118		%REC	1	06/30/15 11:42 PM
Surr: Dibromofluoromethane	108	0	65-135		%REC	1	06/30/15 11:42 PM
Surr: Toluene-d8	90.5	0	84-116		%REC	1	06/30/15 11:42 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	14.4	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB05-021
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-19
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:40 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.102	0.0161	0.0403		mg/Kg-dry	1	07/07/15 11:34 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	66.7	0.519	1.04		mg/Kg-dry	5	07/06/15 07:04 PM
Barium	583	5.19	20.8		mg/Kg-dry	50	07/07/15 11:37 AM
Cadmium	2.96	0.104	0.312		mg/Kg-dry	5	07/06/15 07:04 PM
Chromium	79.4	0.519	2.08		mg/Kg-dry	5	07/06/15 07:04 PM
Lead	2230	1.04	3.12		mg/Kg-dry	50	07/07/15 11:37 AM
Selenium	0.346	0.156	0.519	J	mg/Kg-dry	5	07/06/15 07:04 PM
Silver	3.22	0.104	0.208		mg/Kg-dry	5	07/06/15 07:04 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
2,4,6-Trichlorophenol	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
2,4-Dichlorophenol	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
2,4-Dimethylphenol	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
2,4-Dinitrophenol	<0.0537	0.0537	0.142		mg/Kg-dry	1	07/07/15 09:23 PM
2,4-Dinitrotoluene	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
2,6-Dinitrotoluene	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
2-Chloronaphthalene	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
2-Chlorophenol	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
2-Methylnaphthalene	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
2-Methylphenol	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
2-Nitroaniline	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
2-Nitrophenol	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
3,3´-Dichlorobenzidine	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
3-Nitroaniline	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
4,6-Dinitro-2-methylphenol	<0.0322	0.0322	0.0709		mg/Kg-dry	1	07/07/15 09:23 PM
4-Bromophenyl phenyl ether	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
4-Chloro-3-methylphenol	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
4-Chloroaniline	<0.0322	0.0322	0.0709		mg/Kg-dry	1	07/07/15 09:23 PM
4-Chlorophenyl phenyl ether	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
4-Methylphenol	<0.0215	0.0215	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
4-Nitroaniline	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
4-Nitrophenol	<0.0537	0.0537	0.142		mg/Kg-dry	1	07/07/15 09:23 PM
Acenaphthene	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Acenaphthylene	0.0179	0.0107	0.0286	J	mg/Kg-dry	1	07/07/15 09:23 PM
Acetophenone	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Anthracene	0.0179	0.0107	0.0286	J	mg/Kg-dry	1	07/07/15 09:23 PM
Atrazine	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB05-021
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-19
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:40 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.0107	0.0107	0.0286	N	mg/Kg-dry	1	07/07/15 09:23 PM
Benzo[a]anthracene	0.217	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Benzo[a]pyrene	0.239	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Benzo[b]fluoranthene	0.246	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Benzo[g,h,i]perylene	0.166	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Benzo[k]fluoranthene	0.141	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Benzoic acid	0.0659	0.0537	0.142	J	mg/Kg-dry	1	07/07/15 09:23 PM
Benzyl alcohol	<0.0107	0.0107	0.0709		mg/Kg-dry	1	07/07/15 09:23 PM
Biphenyl	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Bis(2-chloroethoxy)methane	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Bis(2-chloroethyl)ether	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Bis(2-chloroisopropyl)ether	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Bis(2-ethylhexyl)phthalate	0.0516	0.0322	0.0709	J	mg/Kg-dry	1	07/07/15 09:23 PM
Butyl benzyl phthalate	<0.0430	0.0430	0.0709		mg/Kg-dry	1	07/07/15 09:23 PM
Caprolactam	<0.0215	0.0215	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Carbazole	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Chrysene	0.216	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Dibenz[a,h]anthracene	0.0645	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Dibenzofuran	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Diethyl phthalate	<0.0430	0.0430	0.0709		mg/Kg-dry	1	07/07/15 09:23 PM
Dimethyl phthalate	<0.0430	0.0430	0.0709		mg/Kg-dry	1	07/07/15 09:23 PM
Di-n-butyl phthalate	<0.0430	0.0430	0.0709		mg/Kg-dry	1	07/07/15 09:23 PM
Di-n-octyl phthalate	0.0975	0.0430	0.0709		mg/Kg-dry	1	07/07/15 09:23 PM
Fluoranthene	0.362	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Fluorene	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Hexachlorobenzene	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Hexachlorobutadiene	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Hexachlorocyclopentadiene	<0.0322	0.0322	0.0709		mg/Kg-dry	1	07/07/15 09:23 PM
Hexachloroethane	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Indeno[1,2,3-cd]pyrene	0.143	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Isophorone	<0.0322	0.0322	0.0709		mg/Kg-dry	1	07/07/15 09:23 PM
Naphthalene	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Nitrobenzene	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
N-Nitrosodi-n-propylamine	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
N-Nitrosodiphenylamine	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Pentachlorophenol	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Phenanthrene	0.0760	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Phenol	<0.0107	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM
Pyrene	0.325	0.0107	0.0286		mg/Kg-dry	1	07/07/15 09:23 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB05-021
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-19
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:40 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	84.0	0	45-126		%REC	1	07/07/15 09:23 PM
Surr: 2-Fluorobiphenyl	82.0	0	60-125		%REC	1	07/07/15 09:23 PM
Surr: 2-Fluorophenol	109	0	37-125		%REC	1	07/07/15 09:23 PM
Surr: 4-Terphenyl-d14	87.0	0	45-125		%REC	1	07/07/15 09:23 PM
Surr: Nitrobenzene-d5	94.0	0	45-125		%REC	1	07/07/15 09:23 PM
Surr: Phenol-d5	105	0	40-125		%REC	1	07/07/15 09:23 PM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **KL**
Aroclor 1016	<0.0179	0.0179	0.0358		mg/Kg-dry	1	07/02/15 07:28 PM
Aroclor 1221	<0.0179	0.0179	0.0358		mg/Kg-dry	1	07/02/15 07:28 PM
Aroclor 1232	<0.0179	0.0179	0.0358		mg/Kg-dry	1	07/02/15 07:28 PM
Aroclor 1242	<0.0179	0.0179	0.0358		mg/Kg-dry	1	07/02/15 07:28 PM
Aroclor 1248	<0.0179	0.0179	0.0358		mg/Kg-dry	1	07/02/15 07:28 PM
Aroclor 1254	<0.0179	0.0179	0.0358		mg/Kg-dry	1	07/02/15 07:28 PM
Aroclor 1260	<0.0179	0.0179	0.0358		mg/Kg-dry	1	07/02/15 07:28 PM
Surr: 2-Fluorobiphenyl	122	0	43-125		%REC	1	07/02/15 07:28 PM
Surr: 4-Terphenyl-d14	116	0	32-125		%REC	1	07/02/15 07:28 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
1,1,1-Trichloroethane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
1,1,2,2-Tetrachloroethane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
1,1,2-Trichloroethane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
1,1,2-Trichlorotrifluoroethane	<0.00631	0.00631	0.0189		mg/Kg-dry	1	07/01/15 12:13 AM
1,1-Dichloroethane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
1,1-Dichloroethene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
1,1-Dichloropropene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
1,2,3-Trichlorobenzene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
1,2,3-Trichloropropane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
1,2,4-Trichlorobenzene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
1,2,4-Trimethylbenzene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
1,2-Dibromo-3-chloropropane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
1,2-Dibromoethane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
1,2-Dichlorobenzene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
1,2-Dichloroethane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
1,2-Dichloropropane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
1,3,5-Trimethylbenzene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
1,3-Dichlorobenzene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
1,3-Dichloropropane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
1,4-Dichlorobenzene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB05-021
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-19
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:40 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
2,2-Dichloropropane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
2-Butanone	0.00837	0.00631	0.0189	J	mg/Kg-dry	1	07/01/15 12:13 AM
2-Chlorotoluene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
2-Hexanone	<0.00631	0.00631	0.0189		mg/Kg-dry	1	07/01/15 12:13 AM
4-Chlorotoluene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
4-Methyl-2-pentanone	<0.00631	0.00631	0.0189		mg/Kg-dry	1	07/01/15 12:13 AM
Acetone	0.130	0.0189	0.0631		mg/Kg-dry	1	07/01/15 12:13 AM
Benzene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Bromobenzene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Bromochloromethane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Bromodichloromethane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Bromoform	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Bromomethane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Carbon disulfide	<0.00631	0.00631	0.0189		mg/Kg-dry	1	07/01/15 12:13 AM
Carbon tetrachloride	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Chlorobenzene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Chloroethane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Chloroform	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Chloromethane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
cis-1,2-Dichloroethene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
cis-1,3-Dichloropropene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Cyclohexane	<0.00631	0.00631	0.0189	N	mg/Kg-dry	1	07/01/15 12:13 AM
Dibromochloromethane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Dibromomethane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Dichlorodifluoromethane	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Ethylbenzene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Hexachlorobutadiene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Isopropylbenzene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
m,p-Xylene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Methyl Acetate	<0.00631	0.00631	0.0189		mg/Kg-dry	1	07/01/15 12:13 AM
Methyl tert-butyl ether	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Methylcyclohexane	<0.00631	0.00631	0.0189		mg/Kg-dry	1	07/01/15 12:13 AM
Methylene chloride	<0.00631	0.00631	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Naphthalene	<0.00631	0.00631	0.0189		mg/Kg-dry	1	07/01/15 12:13 AM
n-Butylbenzene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
n-Propylbenzene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
o-Xylene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
p-Isopropyltoluene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB05-021
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-19
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:40 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Styrene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
tert-Butylbenzene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Tetrachloroethene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Toluene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
trans-1,2-Dichloroethene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
trans-1,3-Dichloropropene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Trichloroethene	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Trichlorofluoromethane	<0.00631	0.00631	0.0189		mg/Kg-dry	1	07/01/15 12:13 AM
Vinyl chloride	<0.00126	0.00126	0.00631		mg/Kg-dry	1	07/01/15 12:13 AM
Surr: 1,2-Dichloroethane-d4	108	0	52-149		%REC	1	07/01/15 12:13 AM
Surr: 4-Bromofluorobenzene	106	0	84-118		%REC	1	07/01/15 12:13 AM
Surr: Dibromofluoromethane	107	0	65-135		%REC	1	07/01/15 12:13 AM
Surr: Toluene-d8	94.2	0	84-116		%REC	1	07/01/15 12:13 AM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	10.8	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB01-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-20
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:55 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.0838	0.0167	0.0417		mg/Kg-dry	1	07/07/15 11:36 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	9.29	0.473	0.946		mg/Kg-dry	5	07/06/15 07:06 PM
Barium	509	4.73	18.9		mg/Kg-dry	50	07/07/15 11:39 AM
Cadmium	2.22	0.0946	0.284		mg/Kg-dry	5	07/06/15 07:06 PM
Chromium	31.1	0.473	1.89		mg/Kg-dry	5	07/06/15 07:06 PM
Lead	656	0.946	2.84		mg/Kg-dry	50	07/07/15 11:39 AM
Selenium	0.486	0.142	0.473		mg/Kg-dry	5	07/06/15 07:06 PM
Silver	5.97	0.0946	0.189		mg/Kg-dry	5	07/06/15 07:06 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
2,4,6-Trichlorophenol	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
2,4-Dichlorophenol	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
2,4-Dimethylphenol	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
2,4-Dinitrophenol	<0.0507	0.0507	0.134		mg/Kg-dry	1	07/07/15 11:19 PM
2,4-Dinitrotoluene	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
2,6-Dinitrotoluene	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
2-Chloronaphthalene	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
2-Chlorophenol	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
2-Methylnaphthalene	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
2-Methylphenol	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
2-Nitroaniline	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
2-Nitrophenol	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
3,3´-Dichlorobenzidine	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
3-Nitroaniline	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
4,6-Dinitro-2-methylphenol	<0.0304	0.0304	0.0669		mg/Kg-dry	1	07/07/15 11:19 PM
4-Bromophenyl phenyl ether	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
4-Chloro-3-methylphenol	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
4-Chloroaniline	<0.0304	0.0304	0.0669		mg/Kg-dry	1	07/07/15 11:19 PM
4-Chlorophenyl phenyl ether	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
4-Methylphenol	<0.0203	0.0203	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
4-Nitroaniline	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
4-Nitrophenol	<0.0507	0.0507	0.134		mg/Kg-dry	1	07/07/15 11:19 PM
Acenaphthene	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Acenaphthylene	0.0372	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Acetophenone	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Anthracene	0.0588	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Atrazine	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB01-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-20
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:55 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.0101	0.0101	0.0270	N	mg/Kg-dry	1	07/07/15 11:19 PM
Benzo[a]anthracene	0.355	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Benzo[a]pyrene	0.353	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Benzo[b]fluoranthene	0.396	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Benzo[g,h,i]perylene	0.251	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Benzo[k]fluoranthene	0.274	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Benzoic acid	0.0737	0.0507	0.134	J	mg/Kg-dry	1	07/07/15 11:19 PM
Benzyl alcohol	<0.0101	0.0101	0.0669		mg/Kg-dry	1	07/07/15 11:19 PM
Biphenyl	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Bis(2-chloroethoxy)methane	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Bis(2-chloroethyl)ether	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Bis(2-chloroisopropyl)ether	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Bis(2-ethylhexyl)phthalate	0.0466	0.0304	0.0669	J	mg/Kg-dry	1	07/07/15 11:19 PM
Butyl benzyl phthalate	0.0493	0.0405	0.0669	J	mg/Kg-dry	1	07/07/15 11:19 PM
Caprolactam	<0.0203	0.0203	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Carbazole	0.0345	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Chrysene	0.357	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Dibenz[a,h]anthracene	0.0818	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Dibenzofuran	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Diethyl phthalate	<0.0405	0.0405	0.0669		mg/Kg-dry	1	07/07/15 11:19 PM
Dimethyl phthalate	<0.0405	0.0405	0.0669		mg/Kg-dry	1	07/07/15 11:19 PM
Di-n-butyl phthalate	<0.0405	0.0405	0.0669		mg/Kg-dry	1	07/07/15 11:19 PM
Di-n-octyl phthalate	<0.0405	0.0405	0.0669		mg/Kg-dry	1	07/07/15 11:19 PM
Fluoranthene	0.638	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Fluorene	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Hexachlorobenzene	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Hexachlorobutadiene	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Hexachlorocyclopentadiene	<0.0304	0.0304	0.0669		mg/Kg-dry	1	07/07/15 11:19 PM
Hexachloroethane	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Indeno[1,2,3-cd]pyrene	0.222	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Isophorone	<0.0304	0.0304	0.0669		mg/Kg-dry	1	07/07/15 11:19 PM
Naphthalene	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Nitrobenzene	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
N-Nitrosodi-n-propylamine	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
N-Nitrosodiphenylamine	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Pentachlorophenol	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Phenanthrene	0.247	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Phenol	<0.0101	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM
Pyrene	0.547	0.0101	0.0270		mg/Kg-dry	1	07/07/15 11:19 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB01-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-20
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:55 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	93.0	0	45-126		%REC	1	07/07/15 11:19 PM
Surr: 2-Fluorobiphenyl	89.0	0	60-125		%REC	1	07/07/15 11:19 PM
Surr: 2-Fluorophenol	97.0	0	37-125		%REC	1	07/07/15 11:19 PM
Surr: 4-Terphenyl-d14	93.0	0	45-125		%REC	1	07/07/15 11:19 PM
Surr: Nitrobenzene-d5	98.0	0	45-125		%REC	1	07/07/15 11:19 PM
Surr: Phenol-d5	105	0	40-125		%REC	1	07/07/15 11:19 PM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **KL**
Aroclor 1016	<0.0169	0.0169	0.0338		mg/Kg-dry	1	07/06/15 01:17 PM
Aroclor 1221	<0.0169	0.0169	0.0338		mg/Kg-dry	1	07/06/15 01:17 PM
Aroclor 1232	<0.0169	0.0169	0.0338		mg/Kg-dry	1	07/06/15 01:17 PM
Aroclor 1242	<0.0169	0.0169	0.0338		mg/Kg-dry	1	07/06/15 01:17 PM
Aroclor 1248	<0.0169	0.0169	0.0338		mg/Kg-dry	1	07/06/15 01:17 PM
Aroclor 1254	<0.0169	0.0169	0.0338		mg/Kg-dry	1	07/06/15 01:17 PM
Aroclor 1260	<0.0169	0.0169	0.0338		mg/Kg-dry	1	07/06/15 01:17 PM
Surr: 2-Fluorobiphenyl	129	0	43-125	S	%REC	1	07/06/15 01:17 PM
Surr: 4-Terphenyl-d14	128	0	32-125	S	%REC	1	07/06/15 01:17 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
1,1,1-Trichloroethane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
1,1,2,2-Tetrachloroethane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
1,1,2-Trichloroethane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
1,1,2-Trichlorotrifluoroethane	<0.00624	0.00624	0.0187		mg/Kg-dry	1	07/01/15 12:45 AM
1,1-Dichloroethane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
1,1-Dichloroethene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
1,1-Dichloropropene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
1,2,3-Trichlorobenzene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
1,2,3-Trichloropropane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
1,2,4-Trichlorobenzene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
1,2,4-Trimethylbenzene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
1,2-Dibromo-3-chloropropane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
1,2-Dibromoethane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
1,2-Dichlorobenzene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
1,2-Dichloroethane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
1,2-Dichloropropane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
1,3,5-Trimethylbenzene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
1,3-Dichlorobenzene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
1,3-Dichloropropane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
1,4-Dichlorobenzene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB01-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-20
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:55 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
2,2-Dichloropropane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
2-Butanone	<0.00624	0.00624	0.0187		mg/Kg-dry	1	07/01/15 12:45 AM
2-Chlorotoluene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
2-Hexanone	<0.00624	0.00624	0.0187		mg/Kg-dry	1	07/01/15 12:45 AM
4-Chlorotoluene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
4-Methyl-2-pentanone	<0.00624	0.00624	0.0187		mg/Kg-dry	1	07/01/15 12:45 AM
Acetone	<0.0187	0.0187	0.0624		mg/Kg-dry	1	07/01/15 12:45 AM
Benzene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Bromobenzene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Bromochloromethane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Bromodichloromethane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Bromoform	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Bromomethane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Carbon disulfide	<0.00624	0.00624	0.0187		mg/Kg-dry	1	07/01/15 12:45 AM
Carbon tetrachloride	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Chlorobenzene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Chloroethane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Chloroform	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Chloromethane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
cis-1,2-Dichloroethene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
cis-1,3-Dichloropropene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Cyclohexane	<0.00624	0.00624	0.0187	N	mg/Kg-dry	1	07/01/15 12:45 AM
Dibromochloromethane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Dibromomethane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Dichlorodifluoromethane	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Ethylbenzene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Hexachlorobutadiene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Isopropylbenzene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
m,p-Xylene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Methyl Acetate	<0.00624	0.00624	0.0187		mg/Kg-dry	1	07/01/15 12:45 AM
Methyl tert-butyl ether	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Methylcyclohexane	<0.00624	0.00624	0.0187		mg/Kg-dry	1	07/01/15 12:45 AM
Methylene chloride	<0.00624	0.00624	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Naphthalene	<0.00624	0.00624	0.0187		mg/Kg-dry	1	07/01/15 12:45 AM
n-Butylbenzene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
n-Propylbenzene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
o-Xylene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
p-Isopropyltoluene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB01-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-20
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:55 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Styrene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
tert-Butylbenzene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Tetrachloroethene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Toluene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
trans-1,2-Dichloroethene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
trans-1,3-Dichloropropene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Trichloroethene	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Trichlorofluoromethane	<0.00624	0.00624	0.0187		mg/Kg-dry	1	07/01/15 12:45 AM
Vinyl chloride	<0.00125	0.00125	0.00624		mg/Kg-dry	1	07/01/15 12:45 AM
Surr: 1,2-Dichloroethane-d4	111	0	52-149		%REC	1	07/01/15 12:45 AM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	1	07/01/15 12:45 AM
Surr: Dibromofluoromethane	109	0	65-135		%REC	1	07/01/15 12:45 AM
Surr: Toluene-d8	92.9	0	84-116		%REC	1	07/01/15 12:45 AM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	7.23	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB01-011
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-21
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:55 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.0854	0.0165	0.0413		mg/Kg-dry	1	07/07/15 11:39 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	9.78	0.506	1.01		mg/Kg-dry	5	07/06/15 07:08 PM
Barium	412	5.06	20.2		mg/Kg-dry	50	07/07/15 11:41 AM
Cadmium	1.42	0.101	0.304		mg/Kg-dry	5	07/06/15 07:08 PM
Chromium	21.0	0.506	2.02		mg/Kg-dry	5	07/06/15 07:08 PM
Lead	430	1.01	3.04		mg/Kg-dry	50	07/07/15 11:41 AM
Selenium	0.565	0.152	0.506		mg/Kg-dry	5	07/06/15 07:08 PM
Silver	5.44	0.101	0.202		mg/Kg-dry	5	07/06/15 07:08 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
2,4,6-Trichlorophenol	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
2,4-Dichlorophenol	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
2,4-Dimethylphenol	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
2,4-Dinitrophenol	<0.0518	0.0518	0.137		mg/Kg-dry	1	07/07/15 11:42 PM
2,4-Dinitrotoluene	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
2,6-Dinitrotoluene	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
2-Chloronaphthalene	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
2-Chlorophenol	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
2-Methylnaphthalene	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
2-Methylphenol	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
2-Nitroaniline	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
2-Nitrophenol	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
3,3´-Dichlorobenzidine	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
3-Nitroaniline	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
4,6-Dinitro-2-methylphenol	<0.0311	0.0311	0.0684		mg/Kg-dry	1	07/07/15 11:42 PM
4-Bromophenyl phenyl ether	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
4-Chloro-3-methylphenol	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
4-Chloroaniline	<0.0311	0.0311	0.0684		mg/Kg-dry	1	07/07/15 11:42 PM
4-Chlorophenyl phenyl ether	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
4-Methylphenol	<0.0207	0.0207	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
4-Nitroaniline	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
4-Nitrophenol	<0.0518	0.0518	0.137		mg/Kg-dry	1	07/07/15 11:42 PM
Acenaphthene	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Acenaphthylene	0.0380	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Acetophenone	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Anthracene	0.0684	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Atrazine	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB01-011
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-21
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:55 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.0104	0.0104	0.0276	N	mg/Kg-dry	1	07/07/15 11:42 PM
Benzo[a]anthracene	0.442	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Benzo[a]pyrene	0.443	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Benzo[b]fluoranthene	0.584	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Benzo[g,h,i]perylene	0.314	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Benzo[k]fluoranthene	0.334	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Benzoic acid	0.0801	0.0518	0.137	J	mg/Kg-dry	1	07/07/15 11:42 PM
Benzyl alcohol	<0.0104	0.0104	0.0684		mg/Kg-dry	1	07/07/15 11:42 PM
Biphenyl	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Bis(2-chloroethoxy)methane	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Bis(2-chloroethyl)ether	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Bis(2-chloroisopropyl)ether	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Bis(2-ethylhexyl)phthalate	0.0511	0.0311	0.0684	J	mg/Kg-dry	1	07/07/15 11:42 PM
Butyl benzyl phthalate	0.0511	0.0414	0.0684	J	mg/Kg-dry	1	07/07/15 11:42 PM
Caprolactam	<0.0207	0.0207	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Carbazole	0.0449	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Chrysene	0.443	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Dibenz[a,h]anthracene	0.131	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Dibenzofuran	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Diethyl phthalate	<0.0414	0.0414	0.0684		mg/Kg-dry	1	07/07/15 11:42 PM
Dimethyl phthalate	<0.0414	0.0414	0.0684		mg/Kg-dry	1	07/07/15 11:42 PM
Di-n-butyl phthalate	<0.0414	0.0414	0.0684		mg/Kg-dry	1	07/07/15 11:42 PM
Di-n-octyl phthalate	0.0421	0.0414	0.0684	J	mg/Kg-dry	1	07/07/15 11:42 PM
Fluoranthene	0.736	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Fluorene	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Hexachlorobenzene	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Hexachlorobutadiene	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Hexachlorocyclopentadiene	<0.0311	0.0311	0.0684		mg/Kg-dry	1	07/07/15 11:42 PM
Hexachloroethane	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Indeno[1,2,3-cd]pyrene	0.280	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Isophorone	<0.0311	0.0311	0.0684		mg/Kg-dry	1	07/07/15 11:42 PM
Naphthalene	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Nitrobenzene	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
N-Nitrosodi-n-propylamine	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
N-Nitrosodiphenylamine	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Pentachlorophenol	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Phenanthrene	0.265	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Phenol	<0.0104	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM
Pyrene	0.454	0.0104	0.0276		mg/Kg-dry	1	07/07/15 11:42 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB01-011
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-21
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:55 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	97.0	0	45-126		%REC	1	07/07/15 11:42 PM
Surr: 2-Fluorobiphenyl	90.0	0	60-125		%REC	1	07/07/15 11:42 PM
Surr: 2-Fluorophenol	100	0	37-125		%REC	1	07/07/15 11:42 PM
Surr: 4-Terphenyl-d14	72.0	0	45-125		%REC	1	07/07/15 11:42 PM
Surr: Nitrobenzene-d5	98.0	0	45-125		%REC	1	07/07/15 11:42 PM
Surr: Phenol-d5	108	0	40-125		%REC	1	07/07/15 11:42 PM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **KL**
Aroclor 1016	<0.0173	0.0173	0.0345		mg/Kg-dry	1	07/03/15 12:32 AM
Aroclor 1221	<0.0173	0.0173	0.0345		mg/Kg-dry	1	07/03/15 12:32 AM
Aroclor 1232	<0.0173	0.0173	0.0345		mg/Kg-dry	1	07/03/15 12:32 AM
Aroclor 1242	<0.0173	0.0173	0.0345		mg/Kg-dry	1	07/03/15 12:32 AM
Aroclor 1248	<0.0173	0.0173	0.0345		mg/Kg-dry	1	07/03/15 12:32 AM
Aroclor 1254	<0.0173	0.0173	0.0345		mg/Kg-dry	1	07/03/15 12:32 AM
Aroclor 1260	<0.0173	0.0173	0.0345		mg/Kg-dry	1	07/03/15 12:32 AM
Surr: 2-Fluorobiphenyl	112	0	43-125		%REC	1	07/03/15 12:32 AM
Surr: 4-Terphenyl-d14	119	0	32-125		%REC	1	07/03/15 12:32 AM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
1,1,1-Trichloroethane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
1,1,2,2-Tetrachloroethane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
1,1,2-Trichloroethane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
1,1,2-Trichlorotrifluoroethane	<0.00540	0.00540	0.0162		mg/Kg-dry	1	07/01/15 01:16 AM
1,1-Dichloroethane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
1,1-Dichloroethene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
1,1-Dichloropropene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
1,2,3-Trichlorobenzene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
1,2,3-Trichloropropane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
1,2,4-Trichlorobenzene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
1,2,4-Trimethylbenzene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
1,2-Dibromo-3-chloropropane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
1,2-Dibromoethane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
1,2-Dichlorobenzene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
1,2-Dichloroethane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
1,2-Dichloropropane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
1,3,5-Trimethylbenzene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
1,3-Dichlorobenzene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
1,3-Dichloropropane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
1,4-Dichlorobenzene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB01-011
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-21
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:55 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
2,2-Dichloropropane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
2-Butanone	<0.00540	0.00540	0.0162		mg/Kg-dry	1	07/01/15 01:16 AM
2-Chlorotoluene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
2-Hexanone	<0.00540	0.00540	0.0162		mg/Kg-dry	1	07/01/15 01:16 AM
4-Chlorotoluene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
4-Methyl-2-pentanone	<0.00540	0.00540	0.0162		mg/Kg-dry	1	07/01/15 01:16 AM
Acetone	<0.0162	0.0162	0.0540		mg/Kg-dry	1	07/01/15 01:16 AM
Benzene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Bromobenzene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Bromochloromethane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Bromodichloromethane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Bromoform	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Bromomethane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Carbon disulfide	<0.00540	0.00540	0.0162		mg/Kg-dry	1	07/01/15 01:16 AM
Carbon tetrachloride	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Chlorobenzene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Chloroethane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Chloroform	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Chloromethane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
cis-1,2-Dichloroethene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
cis-1,3-Dichloropropene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Cyclohexane	<0.00540	0.00540	0.0162	N	mg/Kg-dry	1	07/01/15 01:16 AM
Dibromochloromethane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Dibromomethane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Dichlorodifluoromethane	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Ethylbenzene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Hexachlorobutadiene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Isopropylbenzene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
m,p-Xylene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Methyl Acetate	<0.00540	0.00540	0.0162		mg/Kg-dry	1	07/01/15 01:16 AM
Methyl tert-butyl ether	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Methylcyclohexane	<0.00540	0.00540	0.0162		mg/Kg-dry	1	07/01/15 01:16 AM
Methylene chloride	<0.00540	0.00540	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Naphthalene	<0.00540	0.00540	0.0162		mg/Kg-dry	1	07/01/15 01:16 AM
n-Butylbenzene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
n-Propylbenzene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
o-Xylene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
p-Isopropyltoluene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB01-011
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-21
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 12:55 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Styrene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
tert-Butylbenzene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Tetrachloroethene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Toluene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
trans-1,2-Dichloroethene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
trans-1,3-Dichloropropene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Trichloroethene	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Trichlorofluoromethane	<0.00540	0.00540	0.0162		mg/Kg-dry	1	07/01/15 01:16 AM
Vinyl chloride	<0.00108	0.00108	0.00540		mg/Kg-dry	1	07/01/15 01:16 AM
Surr: 1,2-Dichloroethane-d4	110	0	52-149		%REC	1	07/01/15 01:16 AM
Surr: 4-Bromofluorobenzene	105	0	84-118		%REC	1	07/01/15 01:16 AM
Surr: Dibromofluoromethane	109	0	65-135		%REC	1	07/01/15 01:16 AM
Surr: Toluene-d8	91.6	0	84-116		%REC	1	07/01/15 01:16 AM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	5.86	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB01-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-22
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 01:10 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.704	0.0828	0.207		mg/Kg-dry	5	07/07/15 12:17 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	46.9	0.511	1.02		mg/Kg-dry	5	07/06/15 07:10 PM
Barium	1200	5.11	20.5		mg/Kg-dry	50	07/07/15 11:43 AM
Cadmium	3.73	0.102	0.307		mg/Kg-dry	5	07/06/15 07:10 PM
Chromium	73.5	0.511	2.05		mg/Kg-dry	5	07/06/15 07:10 PM
Lead	2090	1.02	3.07		mg/Kg-dry	50	07/07/15 11:43 AM
Selenium	0.550	0.153	0.511		mg/Kg-dry	5	07/06/15 07:10 PM
Silver	5.91	0.102	0.205		mg/Kg-dry	5	07/06/15 07:10 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
2,4,6-Trichlorophenol	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
2,4-Dichlorophenol	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
2,4-Dimethylphenol	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
2,4-Dinitrophenol	<0.0566	0.0566	0.149		mg/Kg-dry	1	07/07/15 09:00 PM
2,4-Dinitrotoluene	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
2,6-Dinitrotoluene	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
2-Chloronaphthalene	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
2-Chlorophenol	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
2-Methylnaphthalene	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
2-Methylphenol	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
2-Nitroaniline	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
2-Nitrophenol	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
3,3´-Dichlorobenzidine	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
3-Nitroaniline	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
4,6-Dinitro-2-methylphenol	<0.0340	0.0340	0.0747		mg/Kg-dry	1	07/07/15 09:00 PM
4-Bromophenyl phenyl ether	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
4-Chloro-3-methylphenol	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
4-Chloroaniline	<0.0340	0.0340	0.0747		mg/Kg-dry	1	07/07/15 09:00 PM
4-Chlorophenyl phenyl ether	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
4-Methylphenol	<0.0226	0.0226	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
4-Nitroaniline	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
4-Nitrophenol	<0.0566	0.0566	0.149		mg/Kg-dry	1	07/07/15 09:00 PM
Acenaphthene	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Acenaphthylene	0.0158	0.0113	0.0301	J	mg/Kg-dry	1	07/07/15 09:00 PM
Acetophenone	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Anthracene	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Atrazine	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB01-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-22
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 01:10 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.0113	0.0113	0.0301	N	mg/Kg-dry	1	07/07/15 09:00 PM
Benzo[a]anthracene	0.0287	0.0113	0.0301	J	mg/Kg-dry	1	07/07/15 09:00 PM
Benzo[a]pyrene	0.0385	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Benzo[b]fluoranthene	0.0287	0.0113	0.0301	J	mg/Kg-dry	1	07/07/15 09:00 PM
Benzo[g,h,i]perylene	0.0166	0.0113	0.0301	J	mg/Kg-dry	1	07/07/15 09:00 PM
Benzo[k]fluoranthene	0.0143	0.0113	0.0301	J	mg/Kg-dry	1	07/07/15 09:00 PM
Benzoic acid	0.0657	0.0566	0.149	J	mg/Kg-dry	1	07/07/15 09:00 PM
Benzyl alcohol	<0.0113	0.0113	0.0747		mg/Kg-dry	1	07/07/15 09:00 PM
Biphenyl	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Bis(2-chloroethoxy)methane	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Bis(2-chloroethyl)ether	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Bis(2-chloroisopropyl)ether	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Bis(2-ethylhexyl)phthalate	0.0438	0.0340	0.0747	J	mg/Kg-dry	1	07/07/15 09:00 PM
Butyl benzyl phthalate	<0.0453	0.0453	0.0747		mg/Kg-dry	1	07/07/15 09:00 PM
Caprolactam	<0.0226	0.0226	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Carbazole	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Chrysene	0.0287	0.0113	0.0301	J	mg/Kg-dry	1	07/07/15 09:00 PM
Dibenz[a,h]anthracene	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Dibenzofuran	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Diethyl phthalate	<0.0453	0.0453	0.0747		mg/Kg-dry	1	07/07/15 09:00 PM
Dimethyl phthalate	<0.0453	0.0453	0.0747		mg/Kg-dry	1	07/07/15 09:00 PM
Di-n-butyl phthalate	<0.0453	0.0453	0.0747		mg/Kg-dry	1	07/07/15 09:00 PM
Di-n-octyl phthalate	0.115	0.0453	0.0747		mg/Kg-dry	1	07/07/15 09:00 PM
Fluoranthene	0.0506	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Fluorene	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Hexachlorobenzene	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Hexachlorobutadiene	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Hexachlorocyclopentadiene	<0.0340	0.0340	0.0747		mg/Kg-dry	1	07/07/15 09:00 PM
Hexachloroethane	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Indeno[1,2,3-cd]pyrene	0.0151	0.0113	0.0301	J	mg/Kg-dry	1	07/07/15 09:00 PM
Isophorone	<0.0340	0.0340	0.0747		mg/Kg-dry	1	07/07/15 09:00 PM
Naphthalene	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Nitrobenzene	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
N-Nitrosodi-n-propylamine	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
N-Nitrosodiphenylamine	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Pentachlorophenol	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Phenanthrene	0.0309	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Phenol	<0.0113	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM
Pyrene	0.0377	0.0113	0.0301		mg/Kg-dry	1	07/07/15 09:00 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB01-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-22
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 01:10 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	95.0	0	45-126		%REC	1	07/07/15 09:00 PM
Surr: 2-Fluorobiphenyl	93.0	0	60-125		%REC	1	07/07/15 09:00 PM
Surr: 2-Fluorophenol	130	0	37-125	S	%REC	1	07/07/15 09:00 PM
Surr: 4-Terphenyl-d14	83.0	0	45-125		%REC	1	07/07/15 09:00 PM
Surr: Nitrobenzene-d5	99.0	0	45-125		%REC	1	07/07/15 09:00 PM
Surr: Phenol-d5	113	0	40-125		%REC	1	07/07/15 09:00 PM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **KL**
Aroclor 1016	<0.0189	0.0189	0.0377		mg/Kg-dry	1	07/02/15 06:57 PM
Aroclor 1221	<0.0189	0.0189	0.0377		mg/Kg-dry	1	07/02/15 06:57 PM
Aroclor 1232	<0.0189	0.0189	0.0377		mg/Kg-dry	1	07/02/15 06:57 PM
Aroclor 1242	<0.0189	0.0189	0.0377		mg/Kg-dry	1	07/02/15 06:57 PM
Aroclor 1248	<0.0189	0.0189	0.0377		mg/Kg-dry	1	07/02/15 06:57 PM
Aroclor 1254	<0.0189	0.0189	0.0377		mg/Kg-dry	1	07/02/15 06:57 PM
Aroclor 1260	<0.0189	0.0189	0.0377		mg/Kg-dry	1	07/02/15 06:57 PM
Surr: 2-Fluorobiphenyl	123	0	43-125		%REC	1	07/02/15 06:57 PM
Surr: 4-Terphenyl-d14	116	0	32-125		%REC	1	07/02/15 06:57 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
1,1,1-Trichloroethane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
1,1,2,2-Tetrachloroethane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
1,1,2-Trichloroethane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
1,1,2-Trichlorotrifluoroethane	<0.00685	0.00685	0.0206		mg/Kg-dry	1	07/01/15 01:47 AM
1,1-Dichloroethane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
1,1-Dichloroethene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
1,1-Dichloropropene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
1,2,3-Trichlorobenzene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
1,2,3-Trichloropropane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
1,2,4-Trichlorobenzene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
1,2,4-Trimethylbenzene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
1,2-Dibromo-3-chloropropane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
1,2-Dibromoethane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
1,2-Dichlorobenzene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
1,2-Dichloroethane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
1,2-Dichloropropane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
1,3,5-Trimethylbenzene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
1,3-Dichlorobenzene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
1,3-Dichloropropane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
1,4-Dichlorobenzene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB01-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-22
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 01:10 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
2,2-Dichloropropane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
2-Butanone	<0.00685	0.00685	0.0206		mg/Kg-dry	1	07/01/15 01:47 AM
2-Chlorotoluene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
2-Hexanone	<0.00685	0.00685	0.0206		mg/Kg-dry	1	07/01/15 01:47 AM
4-Chlorotoluene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
4-Methyl-2-pentanone	<0.00685	0.00685	0.0206		mg/Kg-dry	1	07/01/15 01:47 AM
Acetone	0.0903	0.0206	0.0685		mg/Kg-dry	1	07/01/15 01:47 AM
Benzene	0.00212	0.00137	0.00685	J	mg/Kg-dry	1	07/01/15 01:47 AM
Bromobenzene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Bromochloromethane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Bromodichloromethane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Bromoform	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Bromomethane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Carbon disulfide	<0.00685	0.00685	0.0206		mg/Kg-dry	1	07/01/15 01:47 AM
Carbon tetrachloride	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Chlorobenzene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Chloroethane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Chloroform	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Chloromethane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
cis-1,2-Dichloroethene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
cis-1,3-Dichloropropene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Cyclohexane	<0.00685	0.00685	0.0206	N	mg/Kg-dry	1	07/01/15 01:47 AM
Dibromochloromethane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Dibromomethane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Dichlorodifluoromethane	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Ethylbenzene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Hexachlorobutadiene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Isopropylbenzene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
m,p-Xylene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Methyl Acetate	<0.00685	0.00685	0.0206		mg/Kg-dry	1	07/01/15 01:47 AM
Methyl tert-butyl ether	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Methylcyclohexane	<0.00685	0.00685	0.0206		mg/Kg-dry	1	07/01/15 01:47 AM
Methylene chloride	<0.00685	0.00685	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Naphthalene	<0.00685	0.00685	0.0206		mg/Kg-dry	1	07/01/15 01:47 AM
n-Butylbenzene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
n-Propylbenzene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
o-Xylene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
p-Isopropyltoluene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB01-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-22
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 01:10 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Styrene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
tert-Butylbenzene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Tetrachloroethene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Toluene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
trans-1,2-Dichloroethene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
trans-1,3-Dichloropropene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Trichloroethene	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Trichlorofluoromethane	<0.00685	0.00685	0.0206		mg/Kg-dry	1	07/01/15 01:47 AM
Vinyl chloride	<0.00137	0.00137	0.00685		mg/Kg-dry	1	07/01/15 01:47 AM
Surr: 1,2-Dichloroethane-d4	109	0	52-149		%REC	1	07/01/15 01:47 AM
Surr: 4-Bromofluorobenzene	105	0	84-118		%REC	1	07/01/15 01:47 AM
Surr: Dibromofluoromethane	108	0	65-135		%REC	1	07/01/15 01:47 AM
Surr: Toluene-d8	91.4	0	84-116		%REC	1	07/01/15 01:47 AM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	12.7	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB04-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-23
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 01:35 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.0389	0.0141	0.0351		mg/Kg-dry	1	07/07/15 11:43 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	4.87	0.452	0.903		mg/Kg-dry	5	07/06/15 07:25 PM
Barium	235	0.452	1.81		mg/Kg-dry	5	07/06/15 07:25 PM
Cadmium	0.927	0.0903	0.271		mg/Kg-dry	5	07/06/15 07:25 PM
Chromium	10.4	0.452	1.81		mg/Kg-dry	5	07/06/15 07:25 PM
Lead	253	0.0903	0.271		mg/Kg-dry	5	07/07/15 12:05 PM
Selenium	0.205	0.136	0.452	J	mg/Kg-dry	5	07/06/15 07:25 PM
Silver	0.633	0.0903	0.181		mg/Kg-dry	5	07/06/15 07:25 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
2,4,6-Trichlorophenol	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
2,4-Dichlorophenol	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
2,4-Dimethylphenol	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
2,4-Dinitrophenol	<0.0502	0.0502	0.133		mg/Kg-dry	1	07/10/15 04:04 PM
2,4-Dinitrotoluene	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
2,6-Dinitrotoluene	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
2-Chloronaphthalene	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
2-Chlorophenol	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
2-Methylnaphthalene	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
2-Methylphenol	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
2-Nitroaniline	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
2-Nitrophenol	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
3,3´-Dichlorobenzidine	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
3-Nitroaniline	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
4,6-Dinitro-2-methylphenol	<0.0301	0.0301	0.0663		mg/Kg-dry	1	07/10/15 04:04 PM
4-Bromophenyl phenyl ether	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
4-Chloro-3-methylphenol	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
4-Chloroaniline	<0.0301	0.0301	0.0663		mg/Kg-dry	1	07/10/15 04:04 PM
4-Chlorophenyl phenyl ether	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
4-Methylphenol	<0.0201	0.0201	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
4-Nitroaniline	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
4-Nitrophenol	<0.0502	0.0502	0.133		mg/Kg-dry	1	07/10/15 04:04 PM
Acenaphthene	0.0194	0.0100	0.0267	J	mg/Kg-dry	1	07/10/15 04:04 PM
Acenaphthylene	0.0489	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Acetophenone	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Anthracene	0.0710	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Atrazine	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB04-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-23
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 01:35 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.0100	0.0100	0.0267	N	mg/Kg-dry	1	07/10/15 04:04 PM
Benzo[a]anthracene	0.509	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Benzo[a]pyrene	0.542	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Benzo[b]fluoranthene	0.615	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Benzo[g,h,i]perylene	0.417	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Benzo[k]fluoranthene	0.445	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Benzoic acid	0.0743	0.0502	0.133	J	mg/Kg-dry	1	07/10/15 04:04 PM
Benzyl alcohol	<0.0100	0.0100	0.0663		mg/Kg-dry	1	07/10/15 04:04 PM
Biphenyl	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Bis(2-chloroethoxy)methane	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Bis(2-chloroethyl)ether	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Bis(2-chloroisopropyl)ether	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Bis(2-ethylhexyl)phthalate	0.0616	0.0301	0.0663	J	mg/Kg-dry	1	07/10/15 04:04 PM
Butyl benzyl phthalate	<0.0402	0.0402	0.0663		mg/Kg-dry	1	07/10/15 04:04 PM
Caprolactam	<0.0201	0.0201	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Carbazole	0.0475	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Chrysene	0.528	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Dibenz[a,h]anthracene	0.178	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Dibenzofuran	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Diethyl phthalate	<0.0402	0.0402	0.0663		mg/Kg-dry	1	07/10/15 04:04 PM
Dimethyl phthalate	<0.0402	0.0402	0.0663		mg/Kg-dry	1	07/10/15 04:04 PM
Di-n-butyl phthalate	<0.0402	0.0402	0.0663		mg/Kg-dry	1	07/10/15 04:04 PM
Di-n-octyl phthalate	0.0529	0.0402	0.0663	J	mg/Kg-dry	1	07/10/15 04:04 PM
Fluoranthene	0.953	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Fluorene	0.0141	0.0100	0.0267	J	mg/Kg-dry	1	07/10/15 04:04 PM
Hexachlorobenzene	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Hexachlorobutadiene	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Hexachlorocyclopentadiene	<0.0301	0.0301	0.0663		mg/Kg-dry	1	07/10/15 04:04 PM
Hexachloroethane	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Indeno[1,2,3-cd]pyrene	0.374	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Isophorone	<0.0301	0.0301	0.0663		mg/Kg-dry	1	07/10/15 04:04 PM
Naphthalene	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Nitrobenzene	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
N-Nitrosodi-n-propylamine	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
N-Nitrosodiphenylamine	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Pentachlorophenol	0.0174	0.0100	0.0267	J	mg/Kg-dry	1	07/10/15 04:04 PM
Phenanthrene	0.315	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Phenol	<0.0100	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM
Pyrene	0.796	0.0100	0.0267		mg/Kg-dry	1	07/10/15 04:04 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB04-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-23
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 01:35 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	84.0	0	45-126		%REC	1	07/10/15 04:04 PM
Surr: 2-Fluorobiphenyl	82.0	0	60-125		%REC	1	07/10/15 04:04 PM
Surr: 2-Fluorophenol	88.0	0	37-125		%REC	1	07/10/15 04:04 PM
Surr: 4-Terphenyl-d14	85.0	0	45-125		%REC	1	07/10/15 04:04 PM
Surr: Nitrobenzene-d5	88.0	0	45-125		%REC	1	07/10/15 04:04 PM
Surr: Phenol-d5	99.0	0	40-125		%REC	1	07/10/15 04:04 PM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **KL**
Aroclor 1016	<0.0167	0.0167	0.0335		mg/Kg-dry	1	07/02/15 11:32 PM
Aroclor 1221	<0.0167	0.0167	0.0335		mg/Kg-dry	1	07/02/15 11:32 PM
Aroclor 1232	<0.0167	0.0167	0.0335		mg/Kg-dry	1	07/02/15 11:32 PM
Aroclor 1242	<0.0167	0.0167	0.0335		mg/Kg-dry	1	07/02/15 11:32 PM
Aroclor 1248	<0.0167	0.0167	0.0335		mg/Kg-dry	1	07/02/15 11:32 PM
Aroclor 1254	<0.0167	0.0167	0.0335		mg/Kg-dry	1	07/02/15 11:32 PM
Aroclor 1260	<0.0167	0.0167	0.0335		mg/Kg-dry	1	07/02/15 11:32 PM
Surr: 2-Fluorobiphenyl	120	0	43-125		%REC	1	07/02/15 11:32 PM
Surr: 4-Terphenyl-d14	117	0	32-125		%REC	1	07/02/15 11:32 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
1,1,1-Trichloroethane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
1,1,2,2-Tetrachloroethane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
1,1,2-Trichloroethane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
1,1,2-Trichlorotrifluoroethane	<0.00672	0.00672	0.0201		mg/Kg-dry	1	07/01/15 05:25 PM
1,1-Dichloroethane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
1,1-Dichloroethene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
1,1-Dichloropropene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
1,2,3-Trichlorobenzene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
1,2,3-Trichloropropane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
1,2,4-Trichlorobenzene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
1,2,4-Trimethylbenzene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
1,2-Dibromo-3-chloropropane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
1,2-Dibromoethane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
1,2-Dichlorobenzene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
1,2-Dichloroethane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
1,2-Dichloropropane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
1,3,5-Trimethylbenzene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
1,3-Dichlorobenzene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
1,3-Dichloropropane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
1,4-Dichlorobenzene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB04-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-23
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 01:35 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
2,2-Dichloropropane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
2-Butanone	<0.00672	0.00672	0.0201		mg/Kg-dry	1	07/01/15 05:25 PM
2-Chlorotoluene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
2-Hexanone	<0.00672	0.00672	0.0201		mg/Kg-dry	1	07/01/15 05:25 PM
4-Chlorotoluene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
4-Methyl-2-pentanone	<0.00672	0.00672	0.0201		mg/Kg-dry	1	07/01/15 05:25 PM
Acetone	<0.0201	0.0201	0.0672		mg/Kg-dry	1	07/01/15 05:25 PM
Benzene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Bromobenzene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Bromochloromethane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Bromodichloromethane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Bromoform	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Bromomethane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Carbon disulfide	<0.00672	0.00672	0.0201		mg/Kg-dry	1	07/01/15 05:25 PM
Carbon tetrachloride	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Chlorobenzene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Chloroethane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Chloroform	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Chloromethane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
cis-1,2-Dichloroethene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
cis-1,3-Dichloropropene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Cyclohexane	<0.00672	0.00672	0.0201	N	mg/Kg-dry	1	07/01/15 05:25 PM
Dibromochloromethane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Dibromomethane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Dichlorodifluoromethane	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Ethylbenzene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Hexachlorobutadiene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Isopropylbenzene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
m,p-Xylene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Methyl Acetate	<0.00672	0.00672	0.0201		mg/Kg-dry	1	07/01/15 05:25 PM
Methyl tert-butyl ether	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Methylcyclohexane	<0.00672	0.00672	0.0201		mg/Kg-dry	1	07/01/15 05:25 PM
Methylene chloride	<0.00672	0.00672	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Naphthalene	<0.00672	0.00672	0.0201		mg/Kg-dry	1	07/01/15 05:25 PM
n-Butylbenzene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
n-Propylbenzene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
o-Xylene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
p-Isopropyltoluene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB04-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-23
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 01:35 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Styrene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
tert-Butylbenzene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Tetrachloroethene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Toluene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
trans-1,2-Dichloroethene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
trans-1,3-Dichloropropene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Trichloroethene	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Trichlorofluoromethane	<0.00672	0.00672	0.0201		mg/Kg-dry	1	07/01/15 05:25 PM
Vinyl chloride	<0.00134	0.00134	0.00672		mg/Kg-dry	1	07/01/15 05:25 PM
Surr: 1,2-Dichloroethane-d4	110	0	52-149		%REC	1	07/01/15 05:25 PM
Surr: 4-Bromofluorobenzene	103	0	84-118		%REC	1	07/01/15 05:25 PM
Surr: Dibromofluoromethane	109	0	65-135		%REC	1	07/01/15 05:25 PM
Surr: Toluene-d8	93.0	0	84-116		%REC	1	07/01/15 05:25 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	2.05	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB04-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-24
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 01:50 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	<0.0175	0.0175	0.0437		mg/Kg-dry	1	07/07/15 11:46 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	1.21	0.514	1.03		mg/Kg-dry	5	07/06/15 07:27 PM
Barium	10.8	0.514	2.06		mg/Kg-dry	5	07/06/15 07:27 PM
Cadmium	<0.103	0.103	0.308		mg/Kg-dry	5	07/06/15 07:27 PM
Chromium	4.35	0.514	2.06		mg/Kg-dry	5	07/06/15 07:27 PM
Lead	3.52	0.103	0.308		mg/Kg-dry	5	07/07/15 12:07 PM
Selenium	0.418	0.154	0.514	J	mg/Kg-dry	5	07/06/15 07:27 PM
Silver	<0.103	0.103	0.206		mg/Kg-dry	5	07/06/15 07:27 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
2,4,6-Trichlorophenol	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
2,4-Dichlorophenol	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
2,4-Dimethylphenol	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
2,4-Dinitrophenol	<0.0555	0.0555	0.147		mg/Kg-dry	1	07/07/15 07:50 PM
2,4-Dinitrotoluene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
2,6-Dinitrotoluene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
2-Chloronaphthalene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
2-Chlorophenol	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
2-Methylnaphthalene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
2-Methylphenol	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
2-Nitroaniline	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
2-Nitrophenol	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
3,3´-Dichlorobenzidine	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
3-Nitroaniline	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
4,6-Dinitro-2-methylphenol	<0.0333	0.0333	0.0733		mg/Kg-dry	1	07/07/15 07:50 PM
4-Bromophenyl phenyl ether	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
4-Chloro-3-methylphenol	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
4-Chloroaniline	<0.0333	0.0333	0.0733		mg/Kg-dry	1	07/07/15 07:50 PM
4-Chlorophenyl phenyl ether	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
4-Methylphenol	<0.0222	0.0222	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
4-Nitroaniline	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
4-Nitrophenol	<0.0555	0.0555	0.147		mg/Kg-dry	1	07/07/15 07:50 PM
Acenaphthene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Acenaphthylene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Acetophenone	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Anthracene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Atrazine	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB04-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-24
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 01:50 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.0111	0.0111	0.0295	N	mg/Kg-dry	1	07/07/15 07:50 PM
Benzo[a]anthracene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Benzo[a]pyrene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Benzo[b]fluoranthene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Benzo[g,h,i]perylene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Benzo[k]fluoranthene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Benzoic acid	0.0570	0.0555	0.147	J	mg/Kg-dry	1	07/07/15 07:50 PM
Benzyl alcohol	<0.0111	0.0111	0.0733		mg/Kg-dry	1	07/07/15 07:50 PM
Biphenyl	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Bis(2-chloroethoxy)methane	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Bis(2-chloroethyl)ether	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Bis(2-chloroisopropyl)ether	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Bis(2-ethylhexyl)phthalate	0.0400	0.0333	0.0733	J	mg/Kg-dry	1	07/07/15 07:50 PM
Butyl benzyl phthalate	<0.0444	0.0444	0.0733		mg/Kg-dry	1	07/07/15 07:50 PM
Caprolactam	0.0252	0.0222	0.0295	J	mg/Kg-dry	1	07/07/15 07:50 PM
Carbazole	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Chrysene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Dibenz[a,h]anthracene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Dibenzofuran	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Diethyl phthalate	<0.0444	0.0444	0.0733		mg/Kg-dry	1	07/07/15 07:50 PM
Dimethyl phthalate	<0.0444	0.0444	0.0733		mg/Kg-dry	1	07/07/15 07:50 PM
Di-n-butyl phthalate	<0.0444	0.0444	0.0733		mg/Kg-dry	1	07/07/15 07:50 PM
Di-n-octyl phthalate	0.0563	0.0444	0.0733	J	mg/Kg-dry	1	07/07/15 07:50 PM
Fluoranthene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Fluorene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Hexachlorobenzene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Hexachlorobutadiene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Hexachlorocyclopentadiene	<0.0333	0.0333	0.0733		mg/Kg-dry	1	07/07/15 07:50 PM
Hexachloroethane	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Indeno[1,2,3-cd]pyrene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Isophorone	<0.0333	0.0333	0.0733		mg/Kg-dry	1	07/07/15 07:50 PM
Naphthalene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Nitrobenzene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
N-Nitrosodi-n-propylamine	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
N-Nitrosodiphenylamine	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Pentachlorophenol	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Phenanthrene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Phenol	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM
Pyrene	<0.0111	0.0111	0.0295		mg/Kg-dry	1	07/07/15 07:50 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB04-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-24
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 01:50 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	86.0	0	45-126		%REC	1	07/07/15 07:50 PM
Surr: 2-Fluorobiphenyl	74.0	0	60-125		%REC	1	07/07/15 07:50 PM
Surr: 2-Fluorophenol	96.0	0	37-125		%REC	1	07/07/15 07:50 PM
Surr: 4-Terphenyl-d14	82.0	0	45-125		%REC	1	07/07/15 07:50 PM
Surr: Nitrobenzene-d5	83.0	0	45-125		%REC	1	07/07/15 07:50 PM
Surr: Phenol-d5	99.0	0	40-125		%REC	1	07/07/15 07:50 PM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **KL**
Aroclor 1016	<0.0185	0.0185	0.0370		mg/Kg-dry	1	07/02/15 05:57 PM
Aroclor 1221	<0.0185	0.0185	0.0370		mg/Kg-dry	1	07/02/15 05:57 PM
Aroclor 1232	<0.0185	0.0185	0.0370		mg/Kg-dry	1	07/02/15 05:57 PM
Aroclor 1242	<0.0185	0.0185	0.0370		mg/Kg-dry	1	07/02/15 05:57 PM
Aroclor 1248	<0.0185	0.0185	0.0370		mg/Kg-dry	1	07/02/15 05:57 PM
Aroclor 1254	<0.0185	0.0185	0.0370		mg/Kg-dry	1	07/02/15 05:57 PM
Aroclor 1260	<0.0185	0.0185	0.0370		mg/Kg-dry	1	07/02/15 05:57 PM
Surr: 2-Fluorobiphenyl	112	0	43-125		%REC	1	07/02/15 05:57 PM
Surr: 4-Terphenyl-d14	97.9	0	32-125		%REC	1	07/02/15 05:57 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
1,1,1-Trichloroethane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
1,1,2,2-Tetrachloroethane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
1,1,2-Trichloroethane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
1,1,2-Trichlorotrifluoroethane	<0.00616	0.00616	0.0185		mg/Kg-dry	1	07/01/15 01:16 PM
1,1-Dichloroethane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
1,1-Dichloroethene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
1,1-Dichloropropene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
1,2,3-Trichlorobenzene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
1,2,3-Trichloropropane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
1,2,4-Trichlorobenzene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
1,2,4-Trimethylbenzene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
1,2-Dibromo-3-chloropropane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
1,2-Dibromoethane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
1,2-Dichlorobenzene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
1,2-Dichloroethane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
1,2-Dichloropropane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
1,3,5-Trimethylbenzene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
1,3-Dichlorobenzene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
1,3-Dichloropropane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
1,4-Dichlorobenzene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB04-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-24
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 01:50 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
2,2-Dichloropropane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
2-Butanone	<0.00616	0.00616	0.0185		mg/Kg-dry	1	07/01/15 01:16 PM
2-Chlorotoluene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
2-Hexanone	<0.00616	0.00616	0.0185		mg/Kg-dry	1	07/01/15 01:16 PM
4-Chlorotoluene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
4-Methyl-2-pentanone	<0.00616	0.00616	0.0185		mg/Kg-dry	1	07/01/15 01:16 PM
Acetone	0.187	0.0185	0.0616		mg/Kg-dry	1	07/01/15 01:16 PM
Benzene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Bromobenzene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Bromochloromethane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Bromodichloromethane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Bromoform	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Bromomethane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Carbon disulfide	<0.00616	0.00616	0.0185		mg/Kg-dry	1	07/01/15 01:16 PM
Carbon tetrachloride	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Chlorobenzene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Chloroethane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Chloroform	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Chloromethane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
cis-1,2-Dichloroethene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
cis-1,3-Dichloropropene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Cyclohexane	<0.00616	0.00616	0.0185	N	mg/Kg-dry	1	07/01/15 01:16 PM
Dibromochloromethane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Dibromomethane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Dichlorodifluoromethane	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Ethylbenzene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Hexachlorobutadiene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Isopropylbenzene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
m,p-Xylene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Methyl Acetate	<0.00616	0.00616	0.0185		mg/Kg-dry	1	07/01/15 01:16 PM
Methyl tert-butyl ether	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Methylcyclohexane	<0.00616	0.00616	0.0185		mg/Kg-dry	1	07/01/15 01:16 PM
Methylene chloride	<0.00616	0.00616	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Naphthalene	<0.00616	0.00616	0.0185		mg/Kg-dry	1	07/01/15 01:16 PM
n-Butylbenzene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
n-Propylbenzene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
o-Xylene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
p-Isopropyltoluene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB04-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-24
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 01:50 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Styrene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
tert-Butylbenzene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Tetrachloroethene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Toluene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
trans-1,2-Dichloroethene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
trans-1,3-Dichloropropene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Trichloroethene	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Trichlorofluoromethane	<0.00616	0.00616	0.0185		mg/Kg-dry	1	07/01/15 01:16 PM
Vinyl chloride	<0.00123	0.00123	0.00616		mg/Kg-dry	1	07/01/15 01:16 PM
Surr: 1,2-Dichloroethane-d4	108	0	52-149		%REC	1	07/01/15 01:16 PM
Surr: 4-Bromofluorobenzene	101	0	84-118		%REC	1	07/01/15 01:16 PM
Surr: Dibromofluoromethane	106	0	65-135		%REC	1	07/01/15 01:16 PM
Surr: Toluene-d8	92.5	0	84-116		%REC	1	07/01/15 01:16 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	10.8	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB02-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-25
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:00 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.821	0.0912	0.228		mg/Kg-dry	5	07/07/15 12:19 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	20.7	0.534	1.07		mg/Kg-dry	5	07/06/15 07:29 PM
Barium	561	10.7	42.7		mg/Kg-dry	100	07/07/15 12:09 PM
Cadmium	5.53	0.107	0.320		mg/Kg-dry	5	07/06/15 07:29 PM
Chromium	41.9	0.534	2.13		mg/Kg-dry	5	07/06/15 07:29 PM
Lead	3850	2.13	6.40		mg/Kg-dry	100	07/07/15 12:09 PM
Selenium	0.347	0.160	0.534	J	mg/Kg-dry	5	07/06/15 07:29 PM
Silver	3.69	0.107	0.213		mg/Kg-dry	5	07/06/15 07:29 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
2,4,6-Trichlorophenol	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
2,4-Dichlorophenol	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
2,4-Dimethylphenol	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
2,4-Dinitrophenol	<0.0557	0.0557	0.147		mg/Kg-dry	1	07/08/15 12:05 AM
2,4-Dinitrotoluene	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
2,6-Dinitrotoluene	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
2-Chloronaphthalene	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
2-Chlorophenol	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
2-Methylnaphthalene	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
2-Methylphenol	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
2-Nitroaniline	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
2-Nitrophenol	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
3,3´-Dichlorobenzidine	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
3-Nitroaniline	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
4,6-Dinitro-2-methylphenol	<0.0334	0.0334	0.0735		mg/Kg-dry	1	07/08/15 12:05 AM
4-Bromophenyl phenyl ether	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
4-Chloro-3-methylphenol	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
4-Chloroaniline	<0.0334	0.0334	0.0735		mg/Kg-dry	1	07/08/15 12:05 AM
4-Chlorophenyl phenyl ether	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
4-Methylphenol	<0.0223	0.0223	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
4-Nitroaniline	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
4-Nitrophenol	<0.0557	0.0557	0.147		mg/Kg-dry	1	07/08/15 12:05 AM
Acenaphthene	0.0260	0.0111	0.0296	J	mg/Kg-dry	1	07/08/15 12:05 AM
Acenaphthylene	0.135	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Acetophenone	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Anthracene	0.135	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Atrazine	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB02-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-25
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:00 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.0111	0.0111	0.0296	N	mg/Kg-dry	1	07/08/15 12:05 AM
Benzo[a]anthracene	0.521	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Benzo[a]pyrene	0.586	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Benzo[b]fluoranthene	0.629	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Benzo[g,h,i]perylene	0.495	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Benzo[k]fluoranthene	0.318	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Benzoic acid	0.0905	0.0557	0.147	J	mg/Kg-dry	1	07/08/15 12:05 AM
Benzyl alcohol	<0.0111	0.0111	0.0735		mg/Kg-dry	1	07/08/15 12:05 AM
Biphenyl	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Bis(2-chloroethoxy)methane	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Bis(2-chloroethyl)ether	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Bis(2-chloroisopropyl)ether	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Bis(2-ethylhexyl)phthalate	1.44	0.0334	0.0735		mg/Kg-dry	1	07/08/15 12:05 AM
Butyl benzyl phthalate	<0.0445	0.0445	0.0735		mg/Kg-dry	1	07/08/15 12:05 AM
Caprolactam	<0.0223	0.0223	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Carbazole	0.0705	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Chrysene	0.545	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Dibenz[a,h]anthracene	0.182	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Dibenzofuran	0.0156	0.0111	0.0296	J	mg/Kg-dry	1	07/08/15 12:05 AM
Diethyl phthalate	<0.0445	0.0445	0.0735		mg/Kg-dry	1	07/08/15 12:05 AM
Dimethyl phthalate	<0.0445	0.0445	0.0735		mg/Kg-dry	1	07/08/15 12:05 AM
Di-n-butyl phthalate	0.0601	0.0445	0.0735	J	mg/Kg-dry	1	07/08/15 12:05 AM
Di-n-octyl phthalate	0.174	0.0445	0.0735		mg/Kg-dry	1	07/08/15 12:05 AM
Fluoranthene	0.949	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Fluorene	0.0312	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Hexachlorobenzene	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Hexachlorobutadiene	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Hexachlorocyclopentadiene	<0.0334	0.0334	0.0735		mg/Kg-dry	1	07/08/15 12:05 AM
Hexachloroethane	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Indeno[1,2,3-cd]pyrene	0.393	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Isophorone	<0.0334	0.0334	0.0735		mg/Kg-dry	1	07/08/15 12:05 AM
Naphthalene	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Nitrobenzene	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
N-Nitrosodi-n-propylamine	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
N-Nitrosodiphenylamine	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Pentachlorophenol	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Phenanthrene	0.408	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Phenol	<0.0111	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM
Pyrene	0.807	0.0111	0.0296		mg/Kg-dry	1	07/08/15 12:05 AM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB02-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-25
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:00 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	99.0	0	45-126		%REC	1	07/08/15 12:05 AM
Surr: 2-Fluorobiphenyl	88.0	0	60-125		%REC	1	07/08/15 12:05 AM
Surr: 2-Fluorophenol	87.0	0	37-125		%REC	1	07/08/15 12:05 AM
Surr: 4-Terphenyl-d14	97.0	0	45-125		%REC	1	07/08/15 12:05 AM
Surr: Nitrobenzene-d5	93.0	0	45-125		%REC	1	07/08/15 12:05 AM
Surr: Phenol-d5	99.0	0	40-125		%REC	1	07/08/15 12:05 AM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **KL**
Aroclor 1016	<0.0186	0.0186	0.0371		mg/Kg-dry	1	07/06/15 01:48 PM
Aroclor 1221	<0.0186	0.0186	0.0371		mg/Kg-dry	1	07/06/15 01:48 PM
Aroclor 1232	<0.0186	0.0186	0.0371		mg/Kg-dry	1	07/06/15 01:48 PM
Aroclor 1242	<0.0186	0.0186	0.0371		mg/Kg-dry	1	07/06/15 01:48 PM
Aroclor 1248	<0.0186	0.0186	0.0371		mg/Kg-dry	1	07/06/15 01:48 PM
Aroclor 1254	<0.0186	0.0186	0.0371		mg/Kg-dry	1	07/06/15 01:48 PM
Aroclor 1260	0.0491	0.0186	0.0371		mg/Kg-dry	1	07/06/15 01:48 PM
Surr: 2-Fluorobiphenyl	123	0	43-125		%REC	1	07/06/15 01:48 PM
Surr: 4-Terphenyl-d14	135	0	32-125	S	%REC	1	07/06/15 01:48 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
1,1,1-Trichloroethane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
1,1,2,2-Tetrachloroethane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
1,1,2-Trichloroethane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
1,1,2-Trichlorotrifluoroethane	<0.00608	0.00608	0.0182		mg/Kg-dry	1	07/01/15 01:47 PM
1,1-Dichloroethane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
1,1-Dichloroethene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
1,1-Dichloropropene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
1,2,3-Trichlorobenzene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
1,2,3-Trichloropropane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
1,2,4-Trichlorobenzene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
1,2,4-Trimethylbenzene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
1,2-Dibromo-3-chloropropane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
1,2-Dibromoethane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
1,2-Dichlorobenzene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
1,2-Dichloroethane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
1,2-Dichloropropane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
1,3,5-Trimethylbenzene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
1,3-Dichlorobenzene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
1,3-Dichloropropane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
1,4-Dichlorobenzene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB02-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-25
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:00 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
2,2-Dichloropropane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
2-Butanone	<0.00608	0.00608	0.0182		mg/Kg-dry	1	07/01/15 01:47 PM
2-Chlorotoluene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
2-Hexanone	<0.00608	0.00608	0.0182		mg/Kg-dry	1	07/01/15 01:47 PM
4-Chlorotoluene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
4-Methyl-2-pentanone	<0.00608	0.00608	0.0182		mg/Kg-dry	1	07/01/15 01:47 PM
Acetone	0.0552	0.0182	0.0608	J	mg/Kg-dry	1	07/01/15 01:47 PM
Benzene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Bromobenzene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Bromochloromethane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Bromodichloromethane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Bromoform	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Bromomethane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Carbon disulfide	<0.00608	0.00608	0.0182		mg/Kg-dry	1	07/01/15 01:47 PM
Carbon tetrachloride	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Chlorobenzene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Chloroethane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Chloroform	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Chloromethane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
cis-1,2-Dichloroethene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
cis-1,3-Dichloropropene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Cyclohexane	<0.00608	0.00608	0.0182	N	mg/Kg-dry	1	07/01/15 01:47 PM
Dibromochloromethane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Dibromomethane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Dichlorodifluoromethane	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Ethylbenzene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Hexachlorobutadiene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Isopropylbenzene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
m,p-Xylene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Methyl Acetate	<0.00608	0.00608	0.0182		mg/Kg-dry	1	07/01/15 01:47 PM
Methyl tert-butyl ether	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Methylcyclohexane	<0.00608	0.00608	0.0182		mg/Kg-dry	1	07/01/15 01:47 PM
Methylene chloride	<0.00608	0.00608	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Naphthalene	<0.00608	0.00608	0.0182		mg/Kg-dry	1	07/01/15 01:47 PM
n-Butylbenzene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
n-Propylbenzene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
o-Xylene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
p-Isopropyltoluene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB02-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-25
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:00 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Styrene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
tert-Butylbenzene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Tetrachloroethene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Toluene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
trans-1,2-Dichloroethene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
trans-1,3-Dichloropropene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Trichloroethene	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Trichlorofluoromethane	<0.00608	0.00608	0.0182		mg/Kg-dry	1	07/01/15 01:47 PM
Vinyl chloride	<0.00122	0.00122	0.00608		mg/Kg-dry	1	07/01/15 01:47 PM
Surr: 1,2-Dichloroethane-d4	108	0	52-149		%REC	1	07/01/15 01:47 PM
Surr: 4-Bromofluorobenzene	103	0	84-118		%REC	1	07/01/15 01:47 PM
Surr: Dibromofluoromethane	107	0	65-135		%REC	1	07/01/15 01:47 PM
Surr: Toluene-d8	94.2	0	84-116		%REC	1	07/01/15 01:47 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	13.2	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB02-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-26
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:10 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.644	0.100	0.250		mg/Kg-dry	5	07/07/15 12:21 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	20.1	0.576	1.15		mg/Kg-dry	5	07/06/15 07:31 PM
Barium	1570	5.76	23.0		mg/Kg-dry	50	07/07/15 12:11 PM
Cadmium	5.06	0.115	0.346		mg/Kg-dry	5	07/06/15 07:31 PM
Chromium	114	0.576	2.30		mg/Kg-dry	5	07/06/15 07:31 PM
Lead	1980	1.15	3.46		mg/Kg-dry	50	07/07/15 12:11 PM
Selenium	0.402	0.173	0.576	J	mg/Kg-dry	5	07/06/15 07:31 PM
Silver	5.02	0.115	0.230		mg/Kg-dry	5	07/06/15 07:31 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
2,4,6-Trichlorophenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
2,4-Dichlorophenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
2,4-Dimethylphenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
2,4-Dinitrophenol	<0.0603	0.0603	0.159		mg/Kg-dry	1	07/08/15 08:56 PM
2,4-Dinitrotoluene	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
2,6-Dinitrotoluene	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
2-Chloronaphthalene	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
2-Chlorophenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
2-Methylnaphthalene	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
2-Methylphenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
2-Nitroaniline	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
2-Nitrophenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
3,3´-Dichlorobenzidine	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
3-Nitroaniline	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
4,6-Dinitro-2-methylphenol	<0.0362	0.0362	0.0795		mg/Kg-dry	1	07/08/15 08:56 PM
4-Bromophenyl phenyl ether	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
4-Chloro-3-methylphenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
4-Chloroaniline	<0.0362	0.0362	0.0795		mg/Kg-dry	1	07/08/15 08:56 PM
4-Chlorophenyl phenyl ether	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
4-Methylphenol	<0.0241	0.0241	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
4-Nitroaniline	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
4-Nitrophenol	<0.0603	0.0603	0.159		mg/Kg-dry	1	07/08/15 08:56 PM
Acenaphthene	0.0217	0.0121	0.0321	J	mg/Kg-dry	1	07/08/15 08:56 PM
Acenaphthylene	0.0691	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Acetophenone	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Anthracene	0.0803	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Atrazine	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB02-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-26
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:10 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.0121	0.0121	0.0321	N	mg/Kg-dry	1	07/08/15 08:56 PM
Benzo[a]anthracene	0.364	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Benzo[a]pyrene	0.384	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Benzo[b]fluoranthene	0.402	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Benzo[g,h,i]perylene	0.308	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Benzo[k]fluoranthene	0.299	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Benzoic acid	0.0924	0.0603	0.159	J	mg/Kg-dry	1	07/08/15 08:56 PM
Benzyl alcohol	<0.0121	0.0121	0.0795		mg/Kg-dry	1	07/08/15 08:56 PM
Biphenyl	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Bis(2-chloroethoxy)methane	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Bis(2-chloroethyl)ether	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Bis(2-chloroisopropyl)ether	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Bis(2-ethylhexyl)phthalate	0.0498	0.0362	0.0795	J	mg/Kg-dry	1	07/08/15 08:56 PM
Butyl benzyl phthalate	<0.0482	0.0482	0.0795		mg/Kg-dry	1	07/08/15 08:56 PM
Caprolactam	<0.0241	0.0241	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Carbazole	0.0426	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Chrysene	0.362	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Dibenz[a,h]anthracene	0.101	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Dibenzofuran	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Diethyl phthalate	<0.0482	0.0482	0.0795		mg/Kg-dry	1	07/08/15 08:56 PM
Dimethyl phthalate	<0.0482	0.0482	0.0795		mg/Kg-dry	1	07/08/15 08:56 PM
Di-n-butyl phthalate	<0.0482	0.0482	0.0795		mg/Kg-dry	1	07/08/15 08:56 PM
Di-n-octyl phthalate	0.133	0.0482	0.0795		mg/Kg-dry	1	07/08/15 08:56 PM
Fluoranthene	0.703	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Fluorene	0.0209	0.0121	0.0321	J	mg/Kg-dry	1	07/08/15 08:56 PM
Hexachlorobenzene	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Hexachlorobutadiene	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Hexachlorocyclopentadiene	<0.0362	0.0362	0.0795		mg/Kg-dry	1	07/08/15 08:56 PM
Hexachloroethane	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Indeno[1,2,3-cd]pyrene	0.263	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Isophorone	<0.0362	0.0362	0.0795		mg/Kg-dry	1	07/08/15 08:56 PM
Naphthalene	0.0121	0.0121	0.0321	J	mg/Kg-dry	1	07/08/15 08:56 PM
Nitrobenzene	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
N-Nitrosodi-n-propylamine	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
N-Nitrosodiphenylamine	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Pentachlorophenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Phenanthrene	0.320	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Phenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM
Pyrene	0.586	0.0121	0.0321		mg/Kg-dry	1	07/08/15 08:56 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB02-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-26
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:10 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	99.0	0	45-126		%REC	1	07/08/15 08:56 PM
Surr: 2-Fluorobiphenyl	91.0	0	60-125		%REC	1	07/08/15 08:56 PM
Surr: 2-Fluorophenol	102	0	37-125		%REC	1	07/08/15 08:56 PM
Surr: 4-Terphenyl-d14	93.0	0	45-125		%REC	1	07/08/15 08:56 PM
Surr: Nitrobenzene-d5	99.0	0	45-125		%REC	1	07/08/15 08:56 PM
Surr: Phenol-d5	118	0	40-125		%REC	1	07/08/15 08:56 PM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **DEW**
Aroclor 1016	<0.0201	0.0201	0.0402		mg/Kg-dry	1	07/07/15 11:15 PM
Aroclor 1221	<0.0201	0.0201	0.0402		mg/Kg-dry	1	07/07/15 11:15 PM
Aroclor 1232	<0.0201	0.0201	0.0402		mg/Kg-dry	1	07/07/15 11:15 PM
Aroclor 1242	<0.0201	0.0201	0.0402		mg/Kg-dry	1	07/07/15 11:15 PM
Aroclor 1248	<0.0201	0.0201	0.0402		mg/Kg-dry	1	07/07/15 11:15 PM
Aroclor 1254	<0.0201	0.0201	0.0402		mg/Kg-dry	1	07/07/15 11:15 PM
Aroclor 1260	0.0359	0.0201	0.0402	J	mg/Kg-dry	1	07/07/15 11:15 PM
Surr: 2-Fluorobiphenyl	102	0	43-125		%REC	1	07/07/15 11:15 PM
Surr: 4-Terphenyl-d14	112	0	32-125		%REC	1	07/07/15 11:15 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
1,1,1-Trichloroethane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
1,1,2,2-Tetrachloroethane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
1,1,2-Trichloroethane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
1,1,2-Trichlorotrifluoroethane	<0.00665	0.00665	0.0199		mg/Kg-dry	1	07/01/15 02:18 PM
1,1-Dichloroethane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
1,1-Dichloroethene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
1,1-Dichloropropene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
1,2,3-Trichlorobenzene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
1,2,3-Trichloropropane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
1,2,4-Trichlorobenzene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
1,2,4-Trimethylbenzene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
1,2-Dibromo-3-chloropropane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
1,2-Dibromoethane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
1,2-Dichlorobenzene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
1,2-Dichloroethane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
1,2-Dichloropropane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
1,3,5-Trimethylbenzene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
1,3-Dichlorobenzene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
1,3-Dichloropropane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
1,4-Dichlorobenzene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB02-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-26
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:10 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
2,2-Dichloropropane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
2-Butanone	<0.00665	0.00665	0.0199		mg/Kg-dry	1	07/01/15 02:18 PM
2-Chlorotoluene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
2-Hexanone	<0.00665	0.00665	0.0199		mg/Kg-dry	1	07/01/15 02:18 PM
4-Chlorotoluene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
4-Methyl-2-pentanone	<0.00665	0.00665	0.0199		mg/Kg-dry	1	07/01/15 02:18 PM
Acetone	0.142	0.0199	0.0665		mg/Kg-dry	1	07/01/15 02:18 PM
Benzene	0.00260	0.00133	0.00665	J	mg/Kg-dry	1	07/01/15 02:18 PM
Bromobenzene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Bromochloromethane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Bromodichloromethane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Bromoform	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Bromomethane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Carbon disulfide	<0.00665	0.00665	0.0199		mg/Kg-dry	1	07/01/15 02:18 PM
Carbon tetrachloride	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Chlorobenzene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Chloroethane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Chloroform	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Chloromethane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
cis-1,2-Dichloroethene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
cis-1,3-Dichloropropene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Cyclohexane	<0.00665	0.00665	0.0199	N	mg/Kg-dry	1	07/01/15 02:18 PM
Dibromochloromethane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Dibromomethane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Dichlorodifluoromethane	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Ethylbenzene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Hexachlorobutadiene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Isopropylbenzene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
m,p-Xylene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Methyl Acetate	<0.00665	0.00665	0.0199		mg/Kg-dry	1	07/01/15 02:18 PM
Methyl tert-butyl ether	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Methylcyclohexane	<0.00665	0.00665	0.0199		mg/Kg-dry	1	07/01/15 02:18 PM
Methylene chloride	<0.00665	0.00665	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Naphthalene	<0.00665	0.00665	0.0199		mg/Kg-dry	1	07/01/15 02:18 PM
n-Butylbenzene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
n-Propylbenzene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
o-Xylene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
p-Isopropyltoluene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB02-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-26
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:10 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Styrene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
tert-Butylbenzene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Tetrachloroethene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Toluene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
trans-1,2-Dichloroethene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
trans-1,3-Dichloropropene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Trichloroethene	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Trichlorofluoromethane	<0.00665	0.00665	0.0199		mg/Kg-dry	1	07/01/15 02:18 PM
Vinyl chloride	<0.00133	0.00133	0.00665		mg/Kg-dry	1	07/01/15 02:18 PM
Surr: 1,2-Dichloroethane-d4	110	0	52-149		%REC	1	07/01/15 02:18 PM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	1	07/01/15 02:18 PM
Surr: Dibromofluoromethane	108	0	65-135		%REC	1	07/01/15 02:18 PM
Surr: Toluene-d8	93.6	0	84-116		%REC	1	07/01/15 02:18 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	21.8	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB03-013
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-27
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:25 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.124	0.0163	0.0407		mg/Kg-dry	1	07/07/15 10:57 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	27.1	0.552	1.10		mg/Kg-dry	5	07/06/15 06:51 PM
Barium	356	0.552	2.21		mg/Kg-dry	5	07/06/15 06:51 PM
Cadmium	3.74	0.110	0.331		mg/Kg-dry	5	07/06/15 06:51 PM
Chromium	39.3	0.552	2.21		mg/Kg-dry	5	07/06/15 06:51 PM
Lead	857	1.10	3.31		mg/Kg-dry	50	07/07/15 11:23 AM
Selenium	0.528	0.165	0.552	J	mg/Kg-dry	5	07/06/15 06:51 PM
Silver	2.34	0.110	0.221		mg/Kg-dry	5	07/06/15 06:51 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
2,4,6-Trichlorophenol	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
2,4-Dichlorophenol	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
2,4-Dimethylphenol	0.0318	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
2,4-Dinitrophenol	<0.0568	0.0568	0.150		mg/Kg-dry	1	07/08/15 09:42 PM
2,4-Dinitrotoluene	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
2,6-Dinitrotoluene	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
2-Chloronaphthalene	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
2-Chlorophenol	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
2-Methylnaphthalene	0.426	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
2-Methylphenol	0.0159	0.0114	0.0302	J	mg/Kg-dry	1	07/08/15 09:42 PM
2-Nitroaniline	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
2-Nitrophenol	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
3,3´-Dichlorobenzidine	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
3-Nitroaniline	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
4,6-Dinitro-2-methylphenol	<0.0341	0.0341	0.0750		mg/Kg-dry	1	07/08/15 09:42 PM
4-Bromophenyl phenyl ether	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
4-Chloro-3-methylphenol	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
4-Chloroaniline	<0.0341	0.0341	0.0750		mg/Kg-dry	1	07/08/15 09:42 PM
4-Chlorophenyl phenyl ether	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
4-Methylphenol	0.0356	0.0227	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
4-Nitroaniline	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
4-Nitrophenol	<0.0568	0.0568	0.150		mg/Kg-dry	1	07/08/15 09:42 PM
Acenaphthene	1.10	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Acenaphthylene	0.118	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Acetophenone	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Anthracene	2.33	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Atrazine	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB03-013
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-27
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:25 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.0114	0.0114	0.0302	N	mg/Kg-dry	1	07/08/15 09:42 PM
Benzo[a]anthracene	3.88	0.114	0.302		mg/Kg-dry	10	07/09/15 12:12 PM
Benzo[a]pyrene	3.31	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Benzo[b]fluoranthene	2.83	0.114	0.302		mg/Kg-dry	10	07/09/15 12:12 PM
Benzo[g,h,i]perylene	1.85	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Benzo[k]fluoranthene	2.21	0.114	0.302		mg/Kg-dry	10	07/09/15 12:12 PM
Benzoic acid	<0.0568	0.0568	0.150		mg/Kg-dry	1	07/08/15 09:42 PM
Benzyl alcohol	<0.0114	0.0114	0.0750		mg/Kg-dry	1	07/08/15 09:42 PM
Biphenyl	0.104	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Bis(2-chloroethoxy)methane	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Bis(2-chloroethyl)ether	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Bis(2-chloroisopropyl)ether	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Bis(2-ethylhexyl)phthalate	0.0568	0.0341	0.0750	J	mg/Kg-dry	1	07/08/15 09:42 PM
Butyl benzyl phthalate	0.0735	0.0454	0.0750	J	mg/Kg-dry	1	07/08/15 09:42 PM
Caprolactam	<0.0227	0.0227	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Carbazole	1.22	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Chrysene	3.67	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Dibenz[a,h]anthracene	1.06	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Dibenzofuran	0.749	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Diethyl phthalate	<0.0454	0.0454	0.0750		mg/Kg-dry	1	07/08/15 09:42 PM
Dimethyl phthalate	<0.0454	0.0454	0.0750		mg/Kg-dry	1	07/08/15 09:42 PM
Di-n-butyl phthalate	<0.0454	0.0454	0.0750		mg/Kg-dry	1	07/08/15 09:42 PM
Di-n-octyl phthalate	<0.0454	0.0454	0.0750		mg/Kg-dry	1	07/08/15 09:42 PM
Fluoranthene	7.92	0.114	0.302		mg/Kg-dry	10	07/09/15 12:12 PM
Fluorene	1.20	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Hexachlorobenzene	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Hexachlorobutadiene	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Hexachlorocyclopentadiene	<0.0341	0.0341	0.0750		mg/Kg-dry	1	07/08/15 09:42 PM
Hexachloroethane	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Indeno[1,2,3-cd]pyrene	1.83	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Isophorone	<0.0341	0.0341	0.0750		mg/Kg-dry	1	07/08/15 09:42 PM
Naphthalene	0.670	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Nitrobenzene	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
N-Nitrosodi-n-propylamine	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
N-Nitrosodiphenylamine	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Pentachlorophenol	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Phenanthrene	7.84	0.114	0.302		mg/Kg-dry	10	07/09/15 12:12 PM
Phenol	<0.0114	0.0114	0.0302		mg/Kg-dry	1	07/08/15 09:42 PM
Pyrene	6.20	0.114	0.302		mg/Kg-dry	10	07/09/15 12:12 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB03-013
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-27
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:25 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	90.0	0	45-126		%REC	10	07/09/15 12:12 PM
Surr: 2,4,6-Tribromophenol	89.0	0	45-126		%REC	1	07/08/15 09:42 PM
Surr: 2-Fluorobiphenyl	81.0	0	60-125		%REC	1	07/08/15 09:42 PM
Surr: 2-Fluorobiphenyl	70.0	0	60-125		%REC	10	07/09/15 12:12 PM
Surr: 2-Fluorophenol	89.0	0	37-125		%REC	1	07/08/15 09:42 PM
Surr: 2-Fluorophenol	70.0	0	37-125		%REC	10	07/09/15 12:12 PM
Surr: 4-Terphenyl-d14	89.0	0	45-125		%REC	1	07/08/15 09:42 PM
Surr: 4-Terphenyl-d14	80.0	0	45-125		%REC	10	07/09/15 12:12 PM
Surr: Nitrobenzene-d5	70.0	0	45-125		%REC	10	07/09/15 12:12 PM
Surr: Nitrobenzene-d5	87.0	0	45-125		%REC	1	07/08/15 09:42 PM
Surr: Phenol-d5	102	0	40-125		%REC	1	07/08/15 09:42 PM
Surr: Phenol-d5	90.0	0	40-125		%REC	10	07/09/15 12:12 PM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **DEW**
Aroclor 1016	<0.0189	0.0189	0.0379		mg/Kg-dry	1	07/08/15 12:16 AM
Aroclor 1221	<0.0189	0.0189	0.0379		mg/Kg-dry	1	07/08/15 12:16 AM
Aroclor 1232	<0.0189	0.0189	0.0379		mg/Kg-dry	1	07/08/15 12:16 AM
Aroclor 1242	<0.0189	0.0189	0.0379		mg/Kg-dry	1	07/08/15 12:16 AM
Aroclor 1248	<0.0189	0.0189	0.0379		mg/Kg-dry	1	07/08/15 12:16 AM
Aroclor 1254	<0.0189	0.0189	0.0379		mg/Kg-dry	1	07/08/15 12:16 AM
Aroclor 1260	<0.0189	0.0189	0.0379		mg/Kg-dry	1	07/08/15 12:16 AM
Surr: 2-Fluorobiphenyl	116	0	43-125		%REC	1	07/08/15 12:16 AM
Surr: 4-Terphenyl-d14	121	0	32-125		%REC	1	07/08/15 12:16 AM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
1,1,1-Trichloroethane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
1,1,2,2-Tetrachloroethane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
1,1,2-Trichloroethane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
1,1,2-Trichlorotrifluoroethane	<0.00661	0.00661	0.0198		mg/Kg-dry	1	06/30/15 01:47 PM
1,1-Dichloroethane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
1,1-Dichloroethene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
1,1-Dichloropropene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
1,2,3-Trichlorobenzene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
1,2,3-Trichloropropane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
1,2,4-Trichlorobenzene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
1,2,4-Trimethylbenzene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
1,2-Dibromo-3-chloropropane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
1,2-Dibromoethane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
1,2-Dichlorobenzene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB03-013
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-27
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:25 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,2-Dichloroethane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
1,2-Dichloropropane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
1,3,5-Trimethylbenzene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
1,3-Dichlorobenzene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
1,3-Dichloropropane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
1,4-Dichlorobenzene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
1-Chlorohexane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
2,2-Dichloropropane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
2-Butanone	<0.00661	0.00661	0.0198		mg/Kg-dry	1	06/30/15 01:47 PM
2-Chlorotoluene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
2-Hexanone	<0.00661	0.00661	0.0198		mg/Kg-dry	1	06/30/15 01:47 PM
4-Chlorotoluene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
4-Methyl-2-pentanone	<0.00661	0.00661	0.0198		mg/Kg-dry	1	06/30/15 01:47 PM
Acetone	<0.0198	0.0198	0.0661		mg/Kg-dry	1	06/30/15 01:47 PM
Benzene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Bromobenzene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Bromochloromethane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Bromodichloromethane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Bromoform	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Bromomethane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Carbon disulfide	<0.00661	0.00661	0.0198		mg/Kg-dry	1	06/30/15 01:47 PM
Carbon tetrachloride	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Chlorobenzene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Chloroethane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Chloroform	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Chloromethane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
cis-1,2-Dichloroethene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
cis-1,3-Dichloropropene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Cyclohexane	<0.00661	0.00661	0.0198	N	mg/Kg-dry	1	06/30/15 01:47 PM
Dibromochloromethane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Dibromomethane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Dichlorodifluoromethane	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Ethylbenzene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Hexachlorobutadiene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Isopropylbenzene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
m,p-Xylene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Methyl Acetate	<0.00661	0.00661	0.0198		mg/Kg-dry	1	06/30/15 01:47 PM
Methyl tert-butyl ether	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Methylcyclohexane	<0.00661	0.00661	0.0198		mg/Kg-dry	1	06/30/15 01:47 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB03-013
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-27
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:25 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
Methylene chloride	<0.00661	0.00661	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Naphthalene	<0.00661	0.00661	0.0198		mg/Kg-dry	1	06/30/15 01:47 PM
n-Butylbenzene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
n-Propylbenzene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
o-Xylene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
p-Isopropyltoluene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
sec-Butylbenzene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Styrene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
tert-Butylbenzene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Tetrachloroethene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Toluene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
trans-1,2-Dichloroethene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
trans-1,3-Dichloropropene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Trichloroethene	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Trichlorofluoromethane	<0.00661	0.00661	0.0198		mg/Kg-dry	1	06/30/15 01:47 PM
Vinyl chloride	<0.00132	0.00132	0.00661		mg/Kg-dry	1	06/30/15 01:47 PM
Surr: 1,2-Dichloroethane-d4	104	0	52-149		%REC	1	06/30/15 01:47 PM
Surr: 4-Bromofluorobenzene	99.9	0	84-118		%REC	1	06/30/15 01:47 PM
Surr: Dibromofluoromethane	105	0	65-135		%REC	1	06/30/15 01:47 PM
Surr: Toluene-d8	92.5	0	84-116		%REC	1	06/30/15 01:47 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	14.5	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB03-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-28
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:35 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.210	0.0169	0.0423		mg/Kg-dry	1	07/07/15 11:53 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	12.2	0.579	1.16		mg/Kg-dry	5	07/06/15 07:33 PM
Barium	387	0.579	2.32		mg/Kg-dry	5	07/06/15 07:33 PM
Cadmium	7.28	0.116	0.347		mg/Kg-dry	5	07/06/15 07:33 PM
Chromium	40.7	0.579	2.32		mg/Kg-dry	5	07/06/15 07:33 PM
Lead	696	1.16	3.47		mg/Kg-dry	50	07/07/15 12:13 PM
Selenium	0.517	0.174	0.579	J	mg/Kg-dry	5	07/06/15 07:33 PM
Silver	5.25	0.116	0.232		mg/Kg-dry	5	07/06/15 07:33 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
2,4,6-Trichlorophenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
2,4-Dichlorophenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
2,4-Dimethylphenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
2,4-Dinitrophenol	<0.0604	0.0604	0.159		mg/Kg-dry	1	07/08/15 07:47 PM
2,4-Dinitrotoluene	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
2,6-Dinitrotoluene	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
2-Chloronaphthalene	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
2-Chlorophenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
2-Methylnaphthalene	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
2-Methylphenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
2-Nitroaniline	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
2-Nitrophenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
3,3´-Dichlorobenzidine	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
3-Nitroaniline	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
4,6-Dinitro-2-methylphenol	<0.0362	0.0362	0.0797		mg/Kg-dry	1	07/08/15 07:47 PM
4-Bromophenyl phenyl ether	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
4-Chloro-3-methylphenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
4-Chloroaniline	<0.0362	0.0362	0.0797		mg/Kg-dry	1	07/08/15 07:47 PM
4-Chlorophenyl phenyl ether	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
4-Methylphenol	<0.0241	0.0241	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
4-Nitroaniline	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
4-Nitrophenol	<0.0604	0.0604	0.159		mg/Kg-dry	1	07/08/15 07:47 PM
Acenaphthene	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Acenaphthylene	0.0185	0.0121	0.0321	J	mg/Kg-dry	1	07/08/15 07:47 PM
Acetophenone	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Anthracene	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Atrazine	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB03-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-28
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:35 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Benzaldehyde	<0.0121	0.0121	0.0321	N	mg/Kg-dry	1	07/08/15 07:47 PM
Benzo[a]anthracene	0.0330	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Benzo[a]pyrene	0.0467	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Benzo[b]fluoranthene	0.0346	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Benzo[g,h,i]perylene	0.0314	0.0121	0.0321	J	mg/Kg-dry	1	07/08/15 07:47 PM
Benzo[k]fluoranthene	0.0258	0.0121	0.0321	J	mg/Kg-dry	1	07/08/15 07:47 PM
Benzoic acid	0.0652	0.0604	0.159	J	mg/Kg-dry	1	07/08/15 07:47 PM
Benzyl alcohol	<0.0121	0.0121	0.0797		mg/Kg-dry	1	07/08/15 07:47 PM
Biphenyl	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Bis(2-chloroethoxy)methane	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Bis(2-chloroethyl)ether	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Bis(2-chloroisopropyl)ether	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Bis(2-ethylhexyl)phthalate	0.0402	0.0362	0.0797	J	mg/Kg-dry	1	07/08/15 07:47 PM
Butyl benzyl phthalate	<0.0483	0.0483	0.0797		mg/Kg-dry	1	07/08/15 07:47 PM
Caprolactam	<0.0241	0.0241	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Carbazole	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Chrysene	0.0306	0.0121	0.0321	J	mg/Kg-dry	1	07/08/15 07:47 PM
Dibenz[a,h]anthracene	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Dibenzofuran	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Diethyl phthalate	<0.0483	0.0483	0.0797		mg/Kg-dry	1	07/08/15 07:47 PM
Dimethyl phthalate	<0.0483	0.0483	0.0797		mg/Kg-dry	1	07/08/15 07:47 PM
Di-n-butyl phthalate	<0.0483	0.0483	0.0797		mg/Kg-dry	1	07/08/15 07:47 PM
Di-n-octyl phthalate	0.0523	0.0483	0.0797	J	mg/Kg-dry	1	07/08/15 07:47 PM
Fluoranthene	0.0475	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Fluorene	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Hexachlorobenzene	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Hexachlorobutadiene	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Hexachlorocyclopentadiene	<0.0362	0.0362	0.0797		mg/Kg-dry	1	07/08/15 07:47 PM
Hexachloroethane	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Indeno[1,2,3-cd]pyrene	0.0241	0.0121	0.0321	J	mg/Kg-dry	1	07/08/15 07:47 PM
Isophorone	<0.0362	0.0362	0.0797		mg/Kg-dry	1	07/08/15 07:47 PM
Naphthalene	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Nitrobenzene	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
N-Nitrosodi-n-propylamine	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
N-Nitrosodiphenylamine	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Pentachlorophenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Phenanthrene	0.0217	0.0121	0.0321	J	mg/Kg-dry	1	07/08/15 07:47 PM
Phenol	<0.0121	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM
Pyrene	0.0419	0.0121	0.0321		mg/Kg-dry	1	07/08/15 07:47 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB03-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-28
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:35 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Surr: 2,4,6-Tribromophenol	88.0	0	45-126		%REC	1	07/08/15 07:47 PM
Surr: 2-Fluorobiphenyl	80.0	0	60-125		%REC	1	07/08/15 07:47 PM
Surr: 2-Fluorophenol	88.0	0	37-125		%REC	1	07/08/15 07:47 PM
Surr: 4-Terphenyl-d14	90.0	0	45-125		%REC	1	07/08/15 07:47 PM
Surr: Nitrobenzene-d5	83.0	0	45-125		%REC	1	07/08/15 07:47 PM
Surr: Phenol-d5	104	0	40-125		%REC	1	07/08/15 07:47 PM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **DEW**
Aroclor 1016	<0.0201	0.0201	0.0402		mg/Kg-dry	1	07/07/15 08:11 PM
Aroclor 1221	<0.0201	0.0201	0.0402		mg/Kg-dry	1	07/07/15 08:11 PM
Aroclor 1232	<0.0201	0.0201	0.0402		mg/Kg-dry	1	07/07/15 08:11 PM
Aroclor 1242	<0.0201	0.0201	0.0402		mg/Kg-dry	1	07/07/15 08:11 PM
Aroclor 1248	<0.0201	0.0201	0.0402		mg/Kg-dry	1	07/07/15 08:11 PM
Aroclor 1254	<0.0201	0.0201	0.0402		mg/Kg-dry	1	07/07/15 08:11 PM
Aroclor 1260	<0.0201	0.0201	0.0402		mg/Kg-dry	1	07/07/15 08:11 PM
Surr: 2-Fluorobiphenyl	101	0	43-125		%REC	1	07/07/15 08:11 PM
Surr: 4-Terphenyl-d14	105	0	32-125		%REC	1	07/07/15 08:11 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
1,1,1-Trichloroethane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
1,1,2,2-Tetrachloroethane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
1,1,2-Trichloroethane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
1,1,2-Trichlorotrifluoroethane	<0.00618	0.00618	0.0185		mg/Kg-dry	1	07/01/15 02:50 PM
1,1-Dichloroethane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
1,1-Dichloroethene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
1,1-Dichloropropene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
1,2,3-Trichlorobenzene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
1,2,3-Trichloropropane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
1,2,4-Trichlorobenzene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
1,2,4-Trimethylbenzene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
1,2-Dibromo-3-chloropropane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
1,2-Dibromoethane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
1,2-Dichlorobenzene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
1,2-Dichloroethane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
1,2-Dichloropropane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
1,3,5-Trimethylbenzene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
1,3-Dichlorobenzene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
1,3-Dichloropropane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
1,4-Dichlorobenzene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB03-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-28
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:35 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1-Chlorohexane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
2,2-Dichloropropane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
2-Butanone	<0.00618	0.00618	0.0185		mg/Kg-dry	1	07/01/15 02:50 PM
2-Chlorotoluene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
2-Hexanone	<0.00618	0.00618	0.0185		mg/Kg-dry	1	07/01/15 02:50 PM
4-Chlorotoluene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
4-Methyl-2-pentanone	<0.00618	0.00618	0.0185		mg/Kg-dry	1	07/01/15 02:50 PM
Acetone	0.131	0.0185	0.0618		mg/Kg-dry	1	07/01/15 02:50 PM
Benzene	0.00153	0.00124	0.00618	J	mg/Kg-dry	1	07/01/15 02:50 PM
Bromobenzene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Bromochloromethane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Bromodichloromethane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Bromoform	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Bromomethane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Carbon disulfide	<0.00618	0.00618	0.0185		mg/Kg-dry	1	07/01/15 02:50 PM
Carbon tetrachloride	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Chlorobenzene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Chloroethane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Chloroform	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Chloromethane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
cis-1,2-Dichloroethene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
cis-1,3-Dichloropropene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Cyclohexane	<0.00618	0.00618	0.0185	N	mg/Kg-dry	1	07/01/15 02:50 PM
Dibromochloromethane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Dibromomethane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Dichlorodifluoromethane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Ethylbenzene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Hexachlorobutadiene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Isopropylbenzene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
m,p-Xylene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Methyl Acetate	<0.00618	0.00618	0.0185		mg/Kg-dry	1	07/01/15 02:50 PM
Methyl tert-butyl ether	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Methylcyclohexane	<0.00618	0.00618	0.0185		mg/Kg-dry	1	07/01/15 02:50 PM
Methylene chloride	<0.00618	0.00618	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Naphthalene	<0.00618	0.00618	0.0185		mg/Kg-dry	1	07/01/15 02:50 PM
n-Butylbenzene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
n-Propylbenzene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
o-Xylene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
p-Isopropyltoluene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB03-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-28
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 02:35 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
sec-Butylbenzene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Styrene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
tert-Butylbenzene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Tetrachloroethene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Toluene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
trans-1,2-Dichloroethene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
trans-1,3-Dichloropropene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Trichloroethene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Trichlorofluoromethane	<0.00618	0.00618	0.0185		mg/Kg-dry	1	07/01/15 02:50 PM
Vinyl chloride	<0.00124	0.00124	0.00618		mg/Kg-dry	1	07/01/15 02:50 PM
Surr: 1,2-Dichloroethane-d4	108	0	52-149		%REC	1	07/01/15 02:50 PM
Surr: 4-Bromofluorobenzene	103	0	84-118		%REC	1	07/01/15 02:50 PM
Surr: Dibromofluoromethane	108	0	65-135		%REC	1	07/01/15 02:50 PM
Surr: Toluene-d8	93.5	0	84-116		%REC	1	07/01/15 02:50 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	17.7	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB24-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-29
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 03:05 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.497	0.0817	0.204		mg/Kg-dry	5	07/07/15 12:24 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	23.8	0.533	1.07		mg/Kg-dry	5	07/06/15 07:35 PM
Barium	777	5.33	21.3		mg/Kg-dry	50	07/07/15 12:15 PM
Cadmium	7.26	0.107	0.320		mg/Kg-dry	5	07/06/15 07:35 PM
Chromium	67.2	0.533	2.13		mg/Kg-dry	5	07/06/15 07:35 PM
Lead	1450	1.07	3.20		mg/Kg-dry	50	07/07/15 12:15 PM
Selenium	0.602	0.160	0.533		mg/Kg-dry	5	07/06/15 07:35 PM
Silver	3.54	0.107	0.213		mg/Kg-dry	5	07/06/15 07:35 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **KL**
Acenaphthene	<0.0285	0.0285	0.0571		mg/Kg-dry	5	07/08/15 05:53 PM
Acenaphthylene	<0.0285	0.0285	0.0571		mg/Kg-dry	5	07/08/15 05:53 PM
Anthracene	0.0877	0.0285	0.0571		mg/Kg-dry	5	07/08/15 05:53 PM
Benzo[a]anthracene	0.474	0.0285	0.0571		mg/Kg-dry	5	07/08/15 05:53 PM
Benzo[a]pyrene	0.568	0.0285	0.0571		mg/Kg-dry	5	07/08/15 05:53 PM
Benzo[b]fluoranthene	0.630	0.0285	0.0571		mg/Kg-dry	5	07/08/15 05:53 PM
Benzo[g,h,i]perylene	0.557	0.0285	0.0571		mg/Kg-dry	5	07/08/15 05:53 PM
Benzo[k]fluoranthene	0.397	0.0285	0.0571		mg/Kg-dry	5	07/08/15 05:53 PM
Chrysene	0.440	0.0285	0.0571		mg/Kg-dry	5	07/08/15 05:53 PM
Dibenz[a,h]anthracene	0.107	0.0285	0.0571		mg/Kg-dry	5	07/08/15 05:53 PM
Fluoranthene	0.682	0.0285	0.0571		mg/Kg-dry	5	07/08/15 05:53 PM
Fluorene	<0.0285	0.0285	0.0571		mg/Kg-dry	5	07/08/15 05:53 PM
Indeno[1,2,3-cd]pyrene	0.551	0.0285	0.0571		mg/Kg-dry	5	07/08/15 05:53 PM
Naphthalene	<0.0285	0.0285	0.0571		mg/Kg-dry	5	07/08/15 05:53 PM
Phenanthrene	0.350	0.0285	0.0571		mg/Kg-dry	5	07/08/15 05:53 PM
Pyrene	0.650	0.0285	0.0571		mg/Kg-dry	5	07/08/15 05:53 PM
Surr: 2-Fluorobiphenyl	74.0	0	43-125		%REC	5	07/08/15 05:53 PM
Surr: 4-Terphenyl-d14	73.2	0	32-125		%REC	5	07/08/15 05:53 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	14.8	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB24-015
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-30
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 03:25 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	07/01/15 11:37 AM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	07/07/15 01:45 PM
Barium	<0.00300	0.00300	0.0100		mg/L	1	07/07/15 01:45 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	07/07/15 01:45 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	07/07/15 01:45 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	07/07/15 01:45 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	07/07/15 01:45 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	07/07/15 01:45 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0000246	0.0000246	0.0000491		mg/L	1	06/30/15 09:44 PM
Acenaphthylene	<0.0000246	0.0000246	0.0000491		mg/L	1	06/30/15 09:44 PM
Anthracene	<0.0000246	0.0000246	0.0000491		mg/L	1	06/30/15 09:44 PM
Benzo[a]anthracene	<0.0000246	0.0000246	0.0000491		mg/L	1	06/30/15 09:44 PM
Benzo[a]pyrene	<0.0000246	0.0000246	0.0000491		mg/L	1	06/30/15 09:44 PM
Benzo[b]fluoranthene	<0.0000246	0.0000246	0.0000491		mg/L	1	06/30/15 09:44 PM
Benzo[g,h,i]perylene	<0.0000246	0.0000246	0.0000491		mg/L	1	06/30/15 09:44 PM
Benzo[k]fluoranthene	<0.0000246	0.0000246	0.0000491		mg/L	1	06/30/15 09:44 PM
Chrysene	<0.0000246	0.0000246	0.0000491		mg/L	1	06/30/15 09:44 PM
Dibenz[a,h]anthracene	<0.0000246	0.0000246	0.0000491		mg/L	1	06/30/15 09:44 PM
Fluoranthene	<0.0000246	0.0000246	0.0000491		mg/L	1	06/30/15 09:44 PM
Fluorene	<0.0000246	0.0000246	0.0000491		mg/L	1	06/30/15 09:44 PM
Indeno[1,2,3-cd]pyrene	<0.0000246	0.0000246	0.0000491		mg/L	1	06/30/15 09:44 PM
Naphthalene	<0.0000246	0.0000246	0.0000491		mg/L	1	06/30/15 09:44 PM
Phenanthrene	<0.0000246	0.0000246	0.0000491		mg/L	1	06/30/15 09:44 PM
Pyrene	<0.0000246	0.0000246	0.0000491		mg/L	1	06/30/15 09:44 PM
Surr: 2-Fluorobiphenyl	60.2	0	48-120		%REC	1	06/30/15 09:44 PM
Surr: 4-Terphenyl-d14	57.0	0	51-135		%REC	1	06/30/15 09:44 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB24-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-31
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 03:20 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.910	0.0971	0.243		mg/Kg-dry	5	07/09/15 01:29 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	65.0	0.624	1.25		mg/Kg-dry	5	07/06/15 07:37 PM
Barium	809	12.5	49.9		mg/Kg-dry	100	07/07/15 12:17 PM
Cadmium	19.9	0.125	0.374		mg/Kg-dry	5	07/06/15 07:37 PM
Chromium	105	0.624	2.50		mg/Kg-dry	5	07/06/15 07:37 PM
Lead	6970	2.50	7.49		mg/Kg-dry	100	07/07/15 12:17 PM
Selenium	1.15	0.187	0.624		mg/Kg-dry	5	07/06/15 07:37 PM
Silver	3.17	0.125	0.250		mg/Kg-dry	5	07/06/15 07:37 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **KL**
Acenaphthene	<0.0313	0.0313	0.0626		mg/Kg-dry	5	07/08/15 06:24 PM
Acenaphthylene	<0.0313	0.0313	0.0626		mg/Kg-dry	5	07/08/15 06:24 PM
Anthracene	0.0749	0.0313	0.0626		mg/Kg-dry	5	07/08/15 06:24 PM
Benzo[a]anthracene	0.369	0.0313	0.0626		mg/Kg-dry	5	07/08/15 06:24 PM
Benzo[a]pyrene	0.427	0.0313	0.0626		mg/Kg-dry	5	07/08/15 06:24 PM
Benzo[b]fluoranthene	0.540	0.0313	0.0626		mg/Kg-dry	5	07/08/15 06:24 PM
Benzo[g,h,i]perylene	0.510	0.0313	0.0626		mg/Kg-dry	5	07/08/15 06:24 PM
Benzo[k]fluoranthene	0.343	0.0313	0.0626		mg/Kg-dry	5	07/08/15 06:24 PM
Chrysene	0.348	0.0313	0.0626		mg/Kg-dry	5	07/08/15 06:24 PM
Dibenz[a,h]anthracene	0.0951	0.0313	0.0626		mg/Kg-dry	5	07/08/15 06:24 PM
Fluoranthene	0.547	0.0313	0.0626		mg/Kg-dry	5	07/08/15 06:24 PM
Fluorene	<0.0313	0.0313	0.0626		mg/Kg-dry	5	07/08/15 06:24 PM
Indeno[1,2,3-cd]pyrene	0.486	0.0313	0.0626		mg/Kg-dry	5	07/08/15 06:24 PM
Naphthalene	<0.0313	0.0313	0.0626		mg/Kg-dry	5	07/08/15 06:24 PM
Phenanthrene	0.235	0.0313	0.0626		mg/Kg-dry	5	07/08/15 06:24 PM
Pyrene	0.463	0.0313	0.0626		mg/Kg-dry	5	07/08/15 06:24 PM
Surr: 2-Fluorobiphenyl	71.7	0	43-125		%REC	5	07/08/15 06:24 PM
Surr: 4-Terphenyl-d14	76.3	0	32-125		%REC	5	07/08/15 06:24 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	25.8	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB10-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-32
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 03:40 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH SOIL		**TX1005**					Analyst: **LM**
T/R Hydrocarbons: C6-C12	<9.37	9.37	26.8		mg/Kg-dry	1	07/02/15 10:02 AM
T/R Hydrocarbons: >C12-C28	122	9.37	26.8		mg/Kg-dry	1	07/02/15 10:02 AM
T/R Hydrocarbons: >C28-C35	41.5	9.37	26.8		mg/Kg-dry	1	07/02/15 10:02 AM
T/R Hydrocarbons: C6-C35	164	9.37	26.8		mg/Kg-dry	1	07/02/15 10:02 AM
Surr: Isopropylbenzene	91.5	0	70-130		%REC	1	07/02/15 10:02 AM
Surr: Octacosane	108	0	70-130		%REC	1	07/02/15 10:02 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	<0.0155	0.0155	0.0389		mg/Kg-dry	1	07/09/15 12:48 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	2.93	0.493	0.985		mg/Kg-dry	5	07/06/15 07:39 PM
Barium	43.9	0.493	1.97		mg/Kg-dry	5	07/06/15 07:39 PM
Cadmium	0.345	0.0985	0.296		mg/Kg-dry	5	07/06/15 07:39 PM
Chromium	5.31	0.493	1.97		mg/Kg-dry	5	07/06/15 07:39 PM
Lead	58.3	0.0985	0.296		mg/Kg-dry	5	07/07/15 12:19 PM
Selenium	0.318	0.148	0.493	J	mg/Kg-dry	5	07/06/15 07:39 PM
Silver	0.148	0.0985	0.197	J	mg/Kg-dry	5	07/06/15 07:39 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
2,4,6-Trichlorophenol	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
2,4-Dichlorophenol	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
2,4-Dimethylphenol	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
2,4-Dinitrophenol	<0.0514	0.0514	0.136		mg/Kg-dry	1	07/08/15 08:10 PM
2,4-Dinitrotoluene	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
2,6-Dinitrotoluene	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
2-Chloronaphthalene	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
2-Chlorophenol	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
2-Methylnaphthalene	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
2-Methylphenol	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
2-Nitroaniline	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
2-Nitrophenol	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
3,3´-Dichlorobenzidine	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
3-Nitroaniline	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
4,6-Dinitro-2-methylphenol	<0.0308	0.0308	0.0678		mg/Kg-dry	1	07/08/15 08:10 PM
4-Bromophenyl phenyl ether	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
4-Chloro-3-methylphenol	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
4-Chloroaniline	<0.0308	0.0308	0.0678		mg/Kg-dry	1	07/08/15 08:10 PM
4-Chlorophenyl phenyl ether	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB10-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-32
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 03:40 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
4-Methylphenol	<0.0205	0.0205	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
4-Nitroaniline	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
4-Nitrophenol	<0.0514	0.0514	0.136		mg/Kg-dry	1	07/08/15 08:10 PM
Acenaphthene	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Acenaphthylene	0.0233	0.0103	0.0273	J	mg/Kg-dry	1	07/08/15 08:10 PM
Acetophenone	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Anthracene	0.0288	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Atrazine	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Benzaldehyde	<0.0103	0.0103	0.0273	N	mg/Kg-dry	1	07/08/15 08:10 PM
Benzo[a]anthracene	0.0144	0.0103	0.0273	J	mg/Kg-dry	1	07/08/15 08:10 PM
Benzo[a]pyrene	0.0253	0.0103	0.0273	J	mg/Kg-dry	1	07/08/15 08:10 PM
Benzo[b]fluoranthene	0.0123	0.0103	0.0273	J	mg/Kg-dry	1	07/08/15 08:10 PM
Benzo[g,h,i]perylene	0.0219	0.0103	0.0273	J	mg/Kg-dry	1	07/08/15 08:10 PM
Benzo[k]fluoranthene	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Benzoic acid	0.0774	0.0514	0.136	J	mg/Kg-dry	1	07/08/15 08:10 PM
Benzyl alcohol	<0.0103	0.0103	0.0678		mg/Kg-dry	1	07/08/15 08:10 PM
Biphenyl	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Bis(2-chloroethoxy)methane	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Bis(2-chloroethyl)ether	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Bis(2-chloroisopropyl)ether	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Bis(2-ethylhexyl)phthalate	0.0404	0.0308	0.0678	J	mg/Kg-dry	1	07/08/15 08:10 PM
Butyl benzyl phthalate	<0.0411	0.0411	0.0678		mg/Kg-dry	1	07/08/15 08:10 PM
Caprolactam	<0.0205	0.0205	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Carbazole	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Chrysene	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Dibenz[a,h]anthracene	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Dibenzofuran	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Diethyl phthalate	<0.0411	0.0411	0.0678		mg/Kg-dry	1	07/08/15 08:10 PM
Dimethyl phthalate	<0.0411	0.0411	0.0678		mg/Kg-dry	1	07/08/15 08:10 PM
Di-n-butyl phthalate	0.0411	0.0411	0.0678	J	mg/Kg-dry	1	07/08/15 08:10 PM
Di-n-octyl phthalate	<0.0411	0.0411	0.0678		mg/Kg-dry	1	07/08/15 08:10 PM
Fluoranthene	0.0151	0.0103	0.0273	J	mg/Kg-dry	1	07/08/15 08:10 PM
Fluorene	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Hexachlorobenzene	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Hexachlorobutadiene	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Hexachlorocyclopentadiene	<0.0308	0.0308	0.0678		mg/Kg-dry	1	07/08/15 08:10 PM
Hexachloroethane	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Indeno[1,2,3-cd]pyrene	0.0103	0.0103	0.0273	J	mg/Kg-dry	1	07/08/15 08:10 PM
Isophorone	<0.0308	0.0308	0.0678		mg/Kg-dry	1	07/08/15 08:10 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB10-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-32
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 03:40 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Naphthalene	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Nitrobenzene	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
N-Nitrosodi-n-propylamine	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
N-Nitrosodiphenylamine	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Pentachlorophenol	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Phenanthrene	0.0116	0.0103	0.0273	J	mg/Kg-dry	1	07/08/15 08:10 PM
Phenol	<0.0103	0.0103	0.0273		mg/Kg-dry	1	07/08/15 08:10 PM
Pyrene	0.0144	0.0103	0.0273	J	mg/Kg-dry	1	07/08/15 08:10 PM
Surr: 2,4,6-Tribromophenol	95.0	0	45-126		%REC	1	07/08/15 08:10 PM
Surr: 2-Fluorobiphenyl	88.0	0	60-125		%REC	1	07/08/15 08:10 PM
Surr: 2-Fluorophenol	96.0	0	37-125		%REC	1	07/08/15 08:10 PM
Surr: 4-Terphenyl-d14	93.0	0	45-125		%REC	1	07/08/15 08:10 PM
Surr: Nitrobenzene-d5	92.0	0	45-125		%REC	1	07/08/15 08:10 PM
Surr: Phenol-d5	113	0	40-125		%REC	1	07/08/15 08:10 PM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **DEW**
Aroclor 1016	<0.0171	0.0171	0.0342		mg/Kg-dry	1	07/07/15 08:42 PM
Aroclor 1221	<0.0171	0.0171	0.0342		mg/Kg-dry	1	07/07/15 08:42 PM
Aroclor 1232	<0.0171	0.0171	0.0342		mg/Kg-dry	1	07/07/15 08:42 PM
Aroclor 1242	<0.0171	0.0171	0.0342		mg/Kg-dry	1	07/07/15 08:42 PM
Aroclor 1248	<0.0171	0.0171	0.0342		mg/Kg-dry	1	07/07/15 08:42 PM
Aroclor 1254	<0.0171	0.0171	0.0342		mg/Kg-dry	1	07/07/15 08:42 PM
Aroclor 1260	0.246	0.0171	0.0342		mg/Kg-dry	1	07/07/15 08:42 PM
Surr: 2-Fluorobiphenyl	124	0	43-125		%REC	1	07/07/15 08:42 PM
Surr: 4-Terphenyl-d14	116	0	32-125		%REC	1	07/07/15 08:42 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
1,1,1-Trichloroethane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
1,1,2,2-Tetrachloroethane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
1,1,2-Trichloroethane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
1,1,2-Trichlorotrifluoroethane	<0.00687	0.00687	0.0206		mg/Kg-dry	1	07/01/15 03:21 PM
1,1-Dichloroethane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
1,1-Dichloroethene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
1,1-Dichloropropene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
1,2,3-Trichlorobenzene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
1,2,3-Trichloropropane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
1,2,4-Trichlorobenzene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
1,2,4-Trimethylbenzene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
1,2-Dibromo-3-chloropropane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB10-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-32
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 03:40 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,2-Dibromoethane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
1,2-Dichlorobenzene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
1,2-Dichloroethane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
1,2-Dichloropropane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
1,3,5-Trimethylbenzene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
1,3-Dichlorobenzene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
1,3-Dichloropropane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
1,4-Dichlorobenzene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
1-Chlorohexane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
2,2-Dichloropropane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
2-Butanone	<0.00687	0.00687	0.0206		mg/Kg-dry	1	07/01/15 03:21 PM
2-Chlorotoluene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
2-Hexanone	<0.00687	0.00687	0.0206		mg/Kg-dry	1	07/01/15 03:21 PM
4-Chlorotoluene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
4-Methyl-2-pentanone	<0.00687	0.00687	0.0206		mg/Kg-dry	1	07/01/15 03:21 PM
Acetone	0.0347	0.0206	0.0687	J	mg/Kg-dry	1	07/01/15 03:21 PM
Benzene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Bromobenzene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Bromochloromethane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Bromodichloromethane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Bromoform	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Bromomethane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Carbon disulfide	<0.00687	0.00687	0.0206		mg/Kg-dry	1	07/01/15 03:21 PM
Carbon tetrachloride	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Chlorobenzene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Chloroethane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Chloroform	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Chloromethane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
cis-1,2-Dichloroethene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
cis-1,3-Dichloropropene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Cyclohexane	<0.00687	0.00687	0.0206	N	mg/Kg-dry	1	07/01/15 03:21 PM
Dibromochloromethane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Dibromomethane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Dichlorodifluoromethane	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Ethylbenzene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Hexachlorobutadiene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Isopropylbenzene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
m,p-Xylene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Methyl Acetate	<0.00687	0.00687	0.0206		mg/Kg-dry	1	07/01/15 03:21 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB10-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-32
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 03:40 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
Methyl tert-butyl ether	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Methylcyclohexane	<0.00687	0.00687	0.0206		mg/Kg-dry	1	07/01/15 03:21 PM
Methylene chloride	<0.00687	0.00687	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Naphthalene	<0.00687	0.00687	0.0206		mg/Kg-dry	1	07/01/15 03:21 PM
n-Butylbenzene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
n-Propylbenzene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
o-Xylene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
p-Isopropyltoluene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
sec-Butylbenzene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Styrene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
tert-Butylbenzene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Tetrachloroethene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Toluene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
trans-1,2-Dichloroethene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
trans-1,3-Dichloropropene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Trichloroethene	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Trichlorofluoromethane	<0.00687	0.00687	0.0206		mg/Kg-dry	1	07/01/15 03:21 PM
Vinyl chloride	<0.00137	0.00137	0.00687		mg/Kg-dry	1	07/01/15 03:21 PM
Surr: 1,2-Dichloroethane-d4	108	0	52-149		%REC	1	07/01/15 03:21 PM
Surr: 4-Bromofluorobenzene	102	0	84-118		%REC	1	07/01/15 03:21 PM
Surr: Dibromofluoromethane	107	0	65-135		%REC	1	07/01/15 03:21 PM
Surr: Toluene-d8	92.2	0	84-116		%REC	1	07/01/15 03:21 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	6.87	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB10-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-33
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 03:55 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH SOIL		**TX1005**					Analyst: **LM**
T/R Hydrocarbons: C6-C12	<11.5	11.5	33.0		mg/Kg-dry	1	07/02/15 10:11 AM
T/R Hydrocarbons: >C12-C28	182	11.5	33.0		mg/Kg-dry	1	07/02/15 10:11 AM
T/R Hydrocarbons: >C28-C35	<11.5	11.5	33.0		mg/Kg-dry	1	07/02/15 10:11 AM
T/R Hydrocarbons: C6-C35	182	11.5	33.0		mg/Kg-dry	1	07/02/15 10:11 AM
Surr: Isopropylbenzene	91.0	0	70-130		%REC	1	07/02/15 10:11 AM
Surr: Octacosane	109	0	70-130		%REC	1	07/02/15 10:11 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	1.39	0.181	0.452		mg/Kg-dry	10	07/09/15 01:31 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	54.6	0.598	1.20		mg/Kg-dry	5	07/06/15 07:41 PM
Barium	757	5.98	23.9		mg/Kg-dry	50	07/07/15 12:20 PM
Cadmium	6.08	0.120	0.359		mg/Kg-dry	5	07/06/15 07:41 PM
Chromium	96.6	0.598	2.39		mg/Kg-dry	5	07/06/15 07:41 PM
Lead	2370	1.20	3.59		mg/Kg-dry	50	07/07/15 12:20 PM
Selenium	0.571	0.179	0.598	J	mg/Kg-dry	5	07/06/15 07:41 PM
Silver	9.35	0.120	0.239		mg/Kg-dry	5	07/06/15 07:41 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
2,4,6-Trichlorophenol	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
2,4-Dichlorophenol	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
2,4-Dimethylphenol	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
2,4-Dinitrophenol	<0.0623	0.0623	0.164		mg/Kg-dry	1	07/08/15 09:19 PM
2,4-Dinitrotoluene	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
2,6-Dinitrotoluene	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
2-Chloronaphthalene	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
2-Chlorophenol	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
2-Methylnaphthalene	0.135	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
2-Methylphenol	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
2-Nitroaniline	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
2-Nitrophenol	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
3,3´-Dichlorobenzidine	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
3-Nitroaniline	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
4,6-Dinitro-2-methylphenol	<0.0374	0.0374	0.0822		mg/Kg-dry	1	07/08/15 09:19 PM
4-Bromophenyl phenyl ether	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
4-Chloro-3-methylphenol	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
4-Chloroaniline	<0.0374	0.0374	0.0822		mg/Kg-dry	1	07/08/15 09:19 PM
4-Chlorophenyl phenyl ether	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB10-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-33
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 03:55 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
4-Methylphenol	<0.0249	0.0249	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
4-Nitroaniline	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
4-Nitrophenol	<0.0623	0.0623	0.164		mg/Kg-dry	1	07/08/15 09:19 PM
Acenaphthene	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Acenaphthylene	0.177	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Acetophenone	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Anthracene	0.0897	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Atrazine	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Benzaldehyde	<0.0125	0.0125	0.0331	N	mg/Kg-dry	1	07/08/15 09:19 PM
Benzo[a]anthracene	0.0532	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Benzo[a]pyrene	0.110	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Benzo[b]fluoranthene	0.106	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Benzo[g,h,i]perylene	0.149	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Benzo[k]fluoranthene	0.0673	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Benzoic acid	0.111	0.0623	0.164	J	mg/Kg-dry	1	07/08/15 09:19 PM
Benzyl alcohol	<0.0125	0.0125	0.0822		mg/Kg-dry	1	07/08/15 09:19 PM
Biphenyl	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Bis(2-chloroethoxy)methane	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Bis(2-chloroethyl)ether	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Bis(2-chloroisopropyl)ether	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Bis(2-ethylhexyl)phthalate	0.0681	0.0374	0.0822	J	mg/Kg-dry	1	07/08/15 09:19 PM
Butyl benzyl phthalate	<0.0498	0.0498	0.0822		mg/Kg-dry	1	07/08/15 09:19 PM
Caprolactam	<0.0249	0.0249	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Carbazole	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Chrysene	0.0482	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Dibenz[a,h]anthracene	0.0449	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Dibenzofuran	0.0233	0.0125	0.0331	J	mg/Kg-dry	1	07/08/15 09:19 PM
Diethyl phthalate	<0.0498	0.0498	0.0822		mg/Kg-dry	1	07/08/15 09:19 PM
Dimethyl phthalate	<0.0498	0.0498	0.0822		mg/Kg-dry	1	07/08/15 09:19 PM
Di-n-butyl phthalate	<0.0498	0.0498	0.0822		mg/Kg-dry	1	07/08/15 09:19 PM
Di-n-octyl phthalate	<0.0498	0.0498	0.0822		mg/Kg-dry	1	07/08/15 09:19 PM
Fluoranthene	0.0233	0.0125	0.0331	J	mg/Kg-dry	1	07/08/15 09:19 PM
Fluorene	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Hexachlorobenzene	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Hexachlorobutadiene	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Hexachlorocyclopentadiene	<0.0374	0.0374	0.0822		mg/Kg-dry	1	07/08/15 09:19 PM
Hexachloroethane	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Indeno[1,2,3-cd]pyrene	0.110	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Isophorone	<0.0374	0.0374	0.0822		mg/Kg-dry	1	07/08/15 09:19 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB10-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-33
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 03:55 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Naphthalene	0.0440	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Nitrobenzene	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
N-Nitrosodi-n-propylamine	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
N-Nitrosodiphenylamine	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Pentachlorophenol	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Phenanthrene	0.113	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Phenol	<0.0125	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Pyrene	0.0449	0.0125	0.0331		mg/Kg-dry	1	07/08/15 09:19 PM
Surr: 2,4,6-Tribromophenol	92.0	0	45-126		%REC	1	07/08/15 09:19 PM
Surr: 2-Fluorobiphenyl	81.0	0	60-125		%REC	1	07/08/15 09:19 PM
Surr: 2-Fluorophenol	89.0	0	37-125		%REC	1	07/08/15 09:19 PM
Surr: 4-Terphenyl-d14	89.0	0	45-125		%REC	1	07/08/15 09:19 PM
Surr: Nitrobenzene-d5	88.0	0	45-125		%REC	1	07/08/15 09:19 PM
Surr: Phenol-d5	104	0	40-125		%REC	1	07/08/15 09:19 PM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **DEW**
Aroclor 1016	<0.0208	0.0208	0.0415		mg/Kg-dry	1	07/07/15 11:46 PM
Aroclor 1221	<0.0208	0.0208	0.0415		mg/Kg-dry	1	07/07/15 11:46 PM
Aroclor 1232	<0.0208	0.0208	0.0415		mg/Kg-dry	1	07/07/15 11:46 PM
Aroclor 1242	<0.0208	0.0208	0.0415		mg/Kg-dry	1	07/07/15 11:46 PM
Aroclor 1248	<0.0208	0.0208	0.0415		mg/Kg-dry	1	07/07/15 11:46 PM
Aroclor 1254	<0.0208	0.0208	0.0415		mg/Kg-dry	1	07/07/15 11:46 PM
Aroclor 1260	0.0547	0.0208	0.0415		mg/Kg-dry	1	07/07/15 11:46 PM
Surr: 2-Fluorobiphenyl	112	0	43-125		%REC	1	07/07/15 11:46 PM
Surr: 4-Terphenyl-d14	113	0	32-125		%REC	1	07/07/15 11:46 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
1,1,1-Trichloroethane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
1,1,2,2-Tetrachloroethane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
1,1,2-Trichloroethane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
1,1,2-Trichlorotrifluoroethane	<0.00803	0.00803	0.0241		mg/Kg-dry	1	07/01/15 03:52 PM
1,1-Dichloroethane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
1,1-Dichloroethene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
1,1-Dichloropropene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
1,2,3-Trichlorobenzene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
1,2,3-Trichloropropane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
1,2,4-Trichlorobenzene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
1,2,4-Trimethylbenzene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
1,2-Dibromo-3-chloropropane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB10-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-33
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 03:55 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,2-Dibromoethane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
1,2-Dichlorobenzene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
1,2-Dichloroethane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
1,2-Dichloropropane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
1,3,5-Trimethylbenzene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
1,3-Dichlorobenzene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
1,3-Dichloropropane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
1,4-Dichlorobenzene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
1-Chlorohexane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
2,2-Dichloropropane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
2-Butanone	<0.00803	0.00803	0.0241		mg/Kg-dry	1	07/01/15 03:52 PM
2-Chlorotoluene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
2-Hexanone	<0.00803	0.00803	0.0241		mg/Kg-dry	1	07/01/15 03:52 PM
4-Chlorotoluene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
4-Methyl-2-pentanone	<0.00803	0.00803	0.0241		mg/Kg-dry	1	07/01/15 03:52 PM
Acetone	0.129	0.0241	0.0803		mg/Kg-dry	1	07/01/15 03:52 PM
Benzene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Bromobenzene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Bromochloromethane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Bromodichloromethane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Bromoform	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Bromomethane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Carbon disulfide	<0.00803	0.00803	0.0241		mg/Kg-dry	1	07/01/15 03:52 PM
Carbon tetrachloride	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Chlorobenzene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Chloroethane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Chloroform	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Chloromethane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
cis-1,2-Dichloroethene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
cis-1,3-Dichloropropene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Cyclohexane	<0.00803	0.00803	0.0241	N	mg/Kg-dry	1	07/01/15 03:52 PM
Dibromochloromethane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Dibromomethane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Dichlorodifluoromethane	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Ethylbenzene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Hexachlorobutadiene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Isopropylbenzene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
m,p-Xylene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Methyl Acetate	<0.00803	0.00803	0.0241		mg/Kg-dry	1	07/01/15 03:52 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB10-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-33
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 03:55 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
Methyl tert-butyl ether	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Methylcyclohexane	<0.00803	0.00803	0.0241		mg/Kg-dry	1	07/01/15 03:52 PM
Methylene chloride	<0.00803	0.00803	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Naphthalene	<0.00803	0.00803	0.0241		mg/Kg-dry	1	07/01/15 03:52 PM
n-Butylbenzene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
n-Propylbenzene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
o-Xylene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
p-Isopropyltoluene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
sec-Butylbenzene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Styrene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
tert-Butylbenzene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Tetrachloroethene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Toluene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
trans-1,2-Dichloroethene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
trans-1,3-Dichloropropene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Trichloroethene	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Trichlorofluoromethane	<0.00803	0.00803	0.0241		mg/Kg-dry	1	07/01/15 03:52 PM
Vinyl chloride	<0.00161	0.00161	0.00803		mg/Kg-dry	1	07/01/15 03:52 PM
Surr: 1,2-Dichloroethane-d4	107	0	52-149		%REC	1	07/01/15 03:52 PM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	1	07/01/15 03:52 PM
Surr: Dibromofluoromethane	107	0	65-135		%REC	1	07/01/15 03:52 PM
Surr: Toluene-d8	93.4	0	84-116		%REC	1	07/01/15 03:52 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	22.6	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB09-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-34
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 04:10 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH SOIL		**TX1005**					Analyst: **LM**
T/R Hydrocarbons: C6-C12	<11.4	11.4	32.5		mg/Kg-dry	1	07/02/15 10:20 AM
T/R Hydrocarbons: >C12-C28	1740	11.4	32.5		mg/Kg-dry	1	07/02/15 10:20 AM
T/R Hydrocarbons: >C28-C35	327	11.4	32.5		mg/Kg-dry	1	07/02/15 10:20 AM
T/R Hydrocarbons: C6-C35	2070	11.4	32.5		mg/Kg-dry	1	07/02/15 10:20 AM
Surr: Isopropylbenzene	92.5	0	70-130		%REC	1	07/02/15 10:20 AM
Surr: Octacosane	159	0	70-130	S	%REC	1	07/02/15 10:20 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.187	0.0174	0.0435		mg/Kg-dry	1	07/09/15 01:06 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	11.8	0.533	1.07		mg/Kg-dry	5	07/06/15 07:42 PM
Barium	816	5.33	21.3		mg/Kg-dry	50	07/07/15 12:22 PM
Cadmium	6.15	0.107	0.320		mg/Kg-dry	5	07/06/15 07:42 PM
Chromium	48.6	0.533	2.13		mg/Kg-dry	5	07/06/15 07:42 PM
Lead	969	1.07	3.20		mg/Kg-dry	50	07/07/15 12:22 PM
Selenium	1.04	0.160	0.533		mg/Kg-dry	5	07/06/15 07:42 PM
Silver	2.33	0.107	0.213		mg/Kg-dry	5	07/06/15 07:42 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
2,4,6-Trichlorophenol	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
2,4-Dichlorophenol	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
2,4-Dimethylphenol	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
2,4-Dinitrophenol	<0.570	0.570	1.50		mg/Kg-dry	10	07/08/15 10:06 PM
2,4-Dinitrotoluene	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
2,6-Dinitrotoluene	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
2-Chloronaphthalene	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
2-Chlorophenol	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
2-Methylnaphthalene	0.167	0.114	0.303	J	mg/Kg-dry	10	07/08/15 10:06 PM
2-Methylphenol	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
2-Nitroaniline	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
2-Nitrophenol	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
3,3´-Dichlorobenzidine	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
3-Nitroaniline	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
4,6-Dinitro-2-methylphenol	<0.342	0.342	0.752		mg/Kg-dry	10	07/08/15 10:06 PM
4-Bromophenyl phenyl ether	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
4-Chloro-3-methylphenol	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
4-Chloroaniline	<0.342	0.342	0.752		mg/Kg-dry	10	07/08/15 10:06 PM
4-Chlorophenyl phenyl ether	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB09-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-34
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 04:10 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
4-Methylphenol	<0.228	0.228	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
4-Nitroaniline	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
4-Nitrophenol	<0.570	0.570	1.50		mg/Kg-dry	10	07/08/15 10:06 PM
Acenaphthene	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Acenaphthylene	0.806	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Acetophenone	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Anthracene	0.638	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Atrazine	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Benzaldehyde	<0.114	0.114	0.303	N	mg/Kg-dry	10	07/08/15 10:06 PM
Benzo[a]anthracene	0.198	0.114	0.303	J	mg/Kg-dry	10	07/08/15 10:06 PM
Benzo[a]pyrene	0.312	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Benzo[b]fluoranthene	0.190	0.114	0.303	J	mg/Kg-dry	10	07/08/15 10:06 PM
Benzo[g,h,i]perylene	0.312	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Benzo[k]fluoranthene	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Benzoic acid	1.07	0.570	1.50	J	mg/Kg-dry	10	07/08/15 10:06 PM
Benzyl alcohol	<0.114	0.114	0.752		mg/Kg-dry	10	07/08/15 10:06 PM
Biphenyl	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Bis(2-chloroethoxy)methane	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Bis(2-chloroethyl)ether	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Bis(2-chloroisopropyl)ether	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Bis(2-ethylhexyl)phthalate	0.448	0.342	0.752	J	mg/Kg-dry	10	07/08/15 10:06 PM
Butyl benzyl phthalate	<0.456	0.456	0.752		mg/Kg-dry	10	07/08/15 10:06 PM
Caprolactam	<0.228	0.228	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Carbazole	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Chrysene	0.144	0.114	0.303	J	mg/Kg-dry	10	07/08/15 10:06 PM
Dibenz[a,h]anthracene	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Dibenzofuran	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Diethyl phthalate	<0.456	0.456	0.752		mg/Kg-dry	10	07/08/15 10:06 PM
Dimethyl phthalate	<0.456	0.456	0.752		mg/Kg-dry	10	07/08/15 10:06 PM
Di-n-butyl phthalate	0.471	0.456	0.752	J	mg/Kg-dry	10	07/08/15 10:06 PM
Di-n-octyl phthalate	<0.456	0.456	0.752		mg/Kg-dry	10	07/08/15 10:06 PM
Fluoranthene	0.220	0.114	0.303	J	mg/Kg-dry	10	07/08/15 10:06 PM
Fluorene	0.243	0.114	0.303	J	mg/Kg-dry	10	07/08/15 10:06 PM
Hexachlorobenzene	0.464	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Hexachlorobutadiene	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Hexachlorocyclopentadiene	<0.342	0.342	0.752		mg/Kg-dry	10	07/08/15 10:06 PM
Hexachloroethane	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Indeno[1,2,3-cd]pyrene	0.152	0.114	0.303	J	mg/Kg-dry	10	07/08/15 10:06 PM
Isophorone	<0.342	0.342	0.752		mg/Kg-dry	10	07/08/15 10:06 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB09-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-34
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 04:10 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Naphthalene	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Nitrobenzene	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
N-Nitrosodi-n-propylamine	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
N-Nitrosodiphenylamine	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Pentachlorophenol	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Phenanthrene	0.190	0.114	0.303	J	mg/Kg-dry	10	07/08/15 10:06 PM
Phenol	<0.114	0.114	0.303		mg/Kg-dry	10	07/08/15 10:06 PM
Pyrene	0.220	0.114	0.303	J	mg/Kg-dry	10	07/08/15 10:06 PM
Surr: 2,4,6-Tribromophenol	100	0	45-126		%REC	10	07/08/15 10:06 PM
Surr: 2-Fluorobiphenyl	70.0	0	60-125		%REC	10	07/08/15 10:06 PM
Surr: 2-Fluorophenol	80.0	0	37-125		%REC	10	07/08/15 10:06 PM
Surr: 4-Terphenyl-d14	70.0	0	45-125		%REC	10	07/08/15 10:06 PM
Surr: Nitrobenzene-d5	70.0	0	45-125		%REC	10	07/08/15 10:06 PM
Surr: Phenol-d5	90.0	0	40-125		%REC	10	07/08/15 10:06 PM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **DEW**
Aroclor 1016	<0.0190	0.0190	0.0380		mg/Kg-dry	1	07/08/15 09:52 AM
Aroclor 1221	<0.0190	0.0190	0.0380		mg/Kg-dry	1	07/08/15 09:52 AM
Aroclor 1232	<0.0190	0.0190	0.0380		mg/Kg-dry	1	07/08/15 09:52 AM
Aroclor 1242	<0.0190	0.0190	0.0380		mg/Kg-dry	1	07/08/15 09:52 AM
Aroclor 1248	<0.0190	0.0190	0.0380		mg/Kg-dry	1	07/08/15 09:52 AM
Aroclor 1254	<0.0190	0.0190	0.0380		mg/Kg-dry	1	07/08/15 09:52 AM
Aroclor 1260	4.78	0.0950	0.190		mg/Kg-dry	5	07/08/15 12:18 PM
Surr: 2-Fluorobiphenyl	118	0	43-125		%REC	5	07/08/15 12:18 PM
Surr: 2-Fluorobiphenyl	106	0	43-125		%REC	1	07/08/15 09:52 AM
Surr: 4-Terphenyl-d14	133	0	32-125	S	%REC	1	07/08/15 09:52 AM
Surr: 4-Terphenyl-d14	102	0	32-125		%REC	5	07/08/15 12:18 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
1,1,1-Trichloroethane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
1,1,2,2-Tetrachloroethane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
1,1,2-Trichloroethane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
1,1,2-Trichlorotrifluoroethane	<0.00985	0.00985	0.0296		mg/Kg-dry	1	07/07/15 12:48 PM
1,1-Dichloroethane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
1,1-Dichloroethene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
1,1-Dichloropropene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
1,2,3-Trichlorobenzene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
1,2,3-Trichloropropane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
1,2,4-Trichlorobenzene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB09-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-34
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 04:10 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,2,4-Trimethylbenzene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
1,2-Dibromo-3-chloropropane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
1,2-Dibromoethane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
1,2-Dichlorobenzene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
1,2-Dichloroethane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
1,2-Dichloropropane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
1,3,5-Trimethylbenzene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
1,3-Dichlorobenzene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
1,3-Dichloropropane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
1,4-Dichlorobenzene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
1-Chlorohexane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
2,2-Dichloropropane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
2-Butanone	<0.00985	0.00985	0.0296		mg/Kg-dry	1	07/07/15 12:48 PM
2-Chlorotoluene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
2-Hexanone	<0.00985	0.00985	0.0296		mg/Kg-dry	1	07/07/15 12:48 PM
4-Chlorotoluene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
4-Methyl-2-pentanone	<0.00985	0.00985	0.0296		mg/Kg-dry	1	07/07/15 12:48 PM
Acetone	<0.0296	0.0296	0.0985		mg/Kg-dry	1	07/07/15 12:48 PM
Benzene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Bromobenzene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Bromochloromethane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Bromodichloromethane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Bromoform	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Bromomethane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Carbon disulfide	<0.00985	0.00985	0.0296		mg/Kg-dry	1	07/07/15 12:48 PM
Carbon tetrachloride	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Chlorobenzene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Chloroethane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Chloroform	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Chloromethane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
cis-1,2-Dichloroethene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
cis-1,3-Dichloropropene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Cyclohexane	<0.00985	0.00985	0.0296	N	mg/Kg-dry	1	07/07/15 12:48 PM
Dibromochloromethane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Dibromomethane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Dichlorodifluoromethane	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Ethylbenzene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Hexachlorobutadiene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Isopropylbenzene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB09-010
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-34
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 04:10 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
m,p-Xylene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Methyl Acetate	<0.00985	0.00985	0.0296		mg/Kg-dry	1	07/07/15 12:48 PM
Methyl tert-butyl ether	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Methylcyclohexane	<0.00985	0.00985	0.0296		mg/Kg-dry	1	07/07/15 12:48 PM
Methylene chloride	<0.00985	0.00985	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Naphthalene	<0.00985	0.00985	0.0296		mg/Kg-dry	1	07/07/15 12:48 PM
n-Butylbenzene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
n-Propylbenzene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
o-Xylene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
p-Isopropyltoluene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
sec-Butylbenzene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Styrene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
tert-Butylbenzene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Tetrachloroethene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Toluene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
trans-1,2-Dichloroethene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
trans-1,3-Dichloropropene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Trichloroethene	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Trichlorofluoromethane	0.0191	0.00985	0.0296	J	mg/Kg-dry	1	07/07/15 12:48 PM
Vinyl chloride	<0.00197	0.00197	0.00985		mg/Kg-dry	1	07/07/15 12:48 PM
Surr: 1,2-Dichloroethane-d4	110	0	52-149		%REC	1	07/07/15 12:48 PM
Surr: 4-Bromofluorobenzene	120	0	84-118	S	%REC	1	07/07/15 12:48 PM
Surr: Dibromofluoromethane	107	0	65-135		%REC	1	07/07/15 12:48 PM
Surr: Toluene-d8	107	0	84-116		%REC	1	07/07/15 12:48 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	13.1	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB09-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-35
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 04:25 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH SOIL		**TX1005**					Analyst: **LM**
T/R Hydrocarbons: C6-C12	<11.6	11.6	33.0		mg/Kg-dry	1	07/02/15 10:29 AM
T/R Hydrocarbons: >C12-C28	315	11.6	33.0		mg/Kg-dry	1	07/02/15 10:29 AM
T/R Hydrocarbons: >C28-C35	60.2	11.6	33.0		mg/Kg-dry	1	07/02/15 10:29 AM
T/R Hydrocarbons: C6-C35	375	11.6	33.0		mg/Kg-dry	1	07/02/15 10:29 AM
Surr: Isopropylbenzene	93.2	0	70-130		%REC	1	07/02/15 10:29 AM
Surr: Octacosane	116	0	70-130		%REC	1	07/02/15 10:29 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SM**
Mercury	0.854	0.0911	0.228		mg/Kg-dry	5	07/09/15 02:06 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	229	5.86	11.7		mg/Kg-dry	50	07/08/15 01:11 PM
Barium	1530	5.86	23.4		mg/Kg-dry	50	07/08/15 01:11 PM
Cadmium	14.5	1.17	3.52		mg/Kg-dry	50	07/08/15 01:11 PM
Chromium	75.8	5.86	23.4		mg/Kg-dry	50	07/08/15 01:11 PM
Lead	1890	1.17	3.52		mg/Kg-dry	50	07/08/15 01:11 PM
Selenium	<1.76	1.76	5.86		mg/Kg-dry	50	07/08/15 01:11 PM
Silver	12.9	1.17	2.34		mg/Kg-dry	50	07/08/15 01:11 PM
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
2,4,6-Trichlorophenol	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
2,4-Dichlorophenol	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
2,4-Dimethylphenol	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
2,4-Dinitrophenol	<0.309	0.309	0.815		mg/Kg-dry	5	07/08/15 08:33 PM
2,4-Dinitrotoluene	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
2,6-Dinitrotoluene	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
2-Chloronaphthalene	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
2-Chlorophenol	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
2-Methylnaphthalene	0.461	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
2-Methylphenol	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
2-Nitroaniline	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
2-Nitrophenol	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
3,3´-Dichlorobenzidine	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
3-Nitroaniline	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
4,6-Dinitro-2-methylphenol	<0.185	0.185	0.408		mg/Kg-dry	5	07/08/15 08:33 PM
4-Bromophenyl phenyl ether	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
4-Chloro-3-methylphenol	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
4-Chloroaniline	<0.185	0.185	0.408		mg/Kg-dry	5	07/08/15 08:33 PM
4-Chlorophenyl phenyl ether	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB09-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-35
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 04:25 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
4-Methylphenol	<0.124	0.124	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
4-Nitroaniline	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
4-Nitrophenol	<0.309	0.309	0.815		mg/Kg-dry	5	07/08/15 08:33 PM
Acenaphthene	0.0823	0.0618	0.164	J	mg/Kg-dry	5	07/08/15 08:33 PM
Acenaphthylene	0.128	0.0618	0.164	J	mg/Kg-dry	5	07/08/15 08:33 PM
Acetophenone	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Anthracene	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Atrazine	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Benzaldehyde	<0.0618	0.0618	0.164	N	mg/Kg-dry	5	07/08/15 08:33 PM
Benzo[a]anthracene	0.0659	0.0618	0.164	J	mg/Kg-dry	5	07/08/15 08:33 PM
Benzo[a]pyrene	0.144	0.0618	0.164	J	mg/Kg-dry	5	07/08/15 08:33 PM
Benzo[b]fluoranthene	0.0659	0.0618	0.164	J	mg/Kg-dry	5	07/08/15 08:33 PM
Benzo[g,h,i]perylene	0.0659	0.0618	0.164	J	mg/Kg-dry	5	07/08/15 08:33 PM
Benzo[k]fluoranthene	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Benzoic acid	<0.309	0.309	0.815		mg/Kg-dry	5	07/08/15 08:33 PM
Benzyl alcohol	<0.0618	0.0618	0.408		mg/Kg-dry	5	07/08/15 08:33 PM
Biphenyl	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Bis(2-chloroethoxy)methane	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Bis(2-chloroethyl)ether	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Bis(2-chloroisopropyl)ether	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Bis(2-ethylhexyl)phthalate	0.292	0.185	0.408	J	mg/Kg-dry	5	07/08/15 08:33 PM
Butyl benzyl phthalate	<0.247	0.247	0.408		mg/Kg-dry	5	07/08/15 08:33 PM
Caprolactam	<0.124	0.124	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Carbazole	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Chrysene	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Dibenz[a,h]anthracene	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Dibenzofuran	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Diethyl phthalate	<0.247	0.247	0.408		mg/Kg-dry	5	07/08/15 08:33 PM
Dimethyl phthalate	<0.247	0.247	0.408		mg/Kg-dry	5	07/08/15 08:33 PM
Di-n-butyl phthalate	<0.247	0.247	0.408		mg/Kg-dry	5	07/08/15 08:33 PM
Di-n-octyl phthalate	<0.247	0.247	0.408		mg/Kg-dry	5	07/08/15 08:33 PM
Fluoranthene	0.0782	0.0618	0.164	J	mg/Kg-dry	5	07/08/15 08:33 PM
Fluorene	0.0865	0.0618	0.164	J	mg/Kg-dry	5	07/08/15 08:33 PM
Hexachlorobenzene	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Hexachlorobutadiene	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Hexachlorocyclopentadiene	<0.185	0.185	0.408		mg/Kg-dry	5	07/08/15 08:33 PM
Hexachloroethane	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Indeno[1,2,3-cd]pyrene	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Isophorone	<0.185	0.185	0.408		mg/Kg-dry	5	07/08/15 08:33 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB09-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-35
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 04:25 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		**SW8270D**					Analyst: **DEW**
Naphthalene	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Nitrobenzene	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
N-Nitrosodi-n-propylamine	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
N-Nitrosodiphenylamine	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Pentachlorophenol	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Phenanthrene	0.0988	0.0618	0.164	J	mg/Kg-dry	5	07/08/15 08:33 PM
Phenol	<0.0618	0.0618	0.164		mg/Kg-dry	5	07/08/15 08:33 PM
Pyrene	0.0741	0.0618	0.164	J	mg/Kg-dry	5	07/08/15 08:33 PM
Surr: 2,4,6-Tribromophenol	75.0	0	45-126		%REC	5	07/08/15 08:33 PM
Surr: 2-Fluorobiphenyl	65.0	0	60-125		%REC	5	07/08/15 08:33 PM
Surr: 2-Fluorophenol	65.0	0	37-125		%REC	5	07/08/15 08:33 PM
Surr: 4-Terphenyl-d14	70.0	0	45-125		%REC	5	07/08/15 08:33 PM
Surr: Nitrobenzene-d5	65.0	0	45-125		%REC	5	07/08/15 08:33 PM
Surr: Phenol-d5	75.0	0	40-125		%REC	5	07/08/15 08:33 PM
PCB BY GC/MS - SOIL/SOLID		**SW8270D**					Analyst: **DEW**
Aroclor 1016	<0.0206	0.0206	0.0412		mg/Kg-dry	1	07/07/15 09:13 PM
Aroclor 1221	<0.0206	0.0206	0.0412		mg/Kg-dry	1	07/07/15 09:13 PM
Aroclor 1232	<0.0206	0.0206	0.0412		mg/Kg-dry	1	07/07/15 09:13 PM
Aroclor 1242	<0.0206	0.0206	0.0412		mg/Kg-dry	1	07/07/15 09:13 PM
Aroclor 1248	<0.0206	0.0206	0.0412		mg/Kg-dry	1	07/07/15 09:13 PM
Aroclor 1254	<0.0206	0.0206	0.0412		mg/Kg-dry	1	07/07/15 09:13 PM
Aroclor 1260	0.240	0.0206	0.0412		mg/Kg-dry	1	07/07/15 09:13 PM
Surr: 2-Fluorobiphenyl	93.0	0	43-125		%REC	1	07/07/15 09:13 PM
Surr: 4-Terphenyl-d14	140	0	32-125	S	%REC	1	07/07/15 09:13 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
1,1,1-Trichloroethane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
1,1,2,2-Tetrachloroethane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
1,1,2-Trichloroethane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
1,1,2-Trichlorotrifluoroethane	<0.00825	0.00825	0.0247		mg/Kg-dry	1	07/01/15 04:54 PM
1,1-Dichloroethane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
1,1-Dichloroethene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
1,1-Dichloropropene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
1,2,3-Trichlorobenzene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
1,2,3-Trichloropropane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
1,2,4-Trichlorobenzene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
1,2,4-Trimethylbenzene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
1,2-Dibromo-3-chloropropane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB09-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-35
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 04:25 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,2-Dibromoethane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
1,2-Dichlorobenzene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
1,2-Dichloroethane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
1,2-Dichloropropane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
1,3,5-Trimethylbenzene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
1,3-Dichlorobenzene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
1,3-Dichloropropane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
1,4-Dichlorobenzene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
1-Chlorohexane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
2,2-Dichloropropane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
2-Butanone	0.00948	0.00825	0.0247	J	mg/Kg-dry	1	07/01/15 04:54 PM
2-Chlorotoluene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
2-Hexanone	<0.00825	0.00825	0.0247		mg/Kg-dry	1	07/01/15 04:54 PM
4-Chlorotoluene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
4-Methyl-2-pentanone	<0.00825	0.00825	0.0247		mg/Kg-dry	1	07/01/15 04:54 PM
Acetone	0.273	0.0247	0.0825		mg/Kg-dry	1	07/01/15 04:54 PM
Benzene	0.00211	0.00165	0.00825	J	mg/Kg-dry	1	07/01/15 04:54 PM
Bromobenzene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Bromochloromethane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Bromodichloromethane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Bromoform	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Bromomethane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Carbon disulfide	<0.00825	0.00825	0.0247		mg/Kg-dry	1	07/01/15 04:54 PM
Carbon tetrachloride	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Chlorobenzene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Chloroethane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Chloroform	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Chloromethane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
cis-1,2-Dichloroethene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
cis-1,3-Dichloropropene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Cyclohexane	<0.00825	0.00825	0.0247	N	mg/Kg-dry	1	07/01/15 04:54 PM
Dibromochloromethane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Dibromomethane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Dichlorodifluoromethane	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Ethylbenzene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Hexachlorobutadiene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Isopropylbenzene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
m,p-Xylene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Methyl Acetate	<0.00825	0.00825	0.0247		mg/Kg-dry	1	07/01/15 04:54 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB09-020
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-35
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 04:25 PM
Lab Order:	1506310	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
Methyl tert-butyl ether	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Methylcyclohexane	<0.00825	0.00825	0.0247		mg/Kg-dry	1	07/01/15 04:54 PM
Methylene chloride	<0.00825	0.00825	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Naphthalene	<0.00825	0.00825	0.0247		mg/Kg-dry	1	07/01/15 04:54 PM
n-Butylbenzene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
n-Propylbenzene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
o-Xylene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
p-Isopropyltoluene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
sec-Butylbenzene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Styrene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
tert-Butylbenzene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Tetrachloroethene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Toluene	0.00520	0.00165	0.00825	J	mg/Kg-dry	1	07/01/15 04:54 PM
trans-1,2-Dichloroethene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
trans-1,3-Dichloropropene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Trichloroethene	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Trichlorofluoromethane	<0.00825	0.00825	0.0247		mg/Kg-dry	1	07/01/15 04:54 PM
Vinyl chloride	<0.00165	0.00165	0.00825		mg/Kg-dry	1	07/01/15 04:54 PM
Surr: 1,2-Dichloroethane-d4	112	0	52-149		%REC	1	07/01/15 04:54 PM
Surr: 4-Bromofluorobenzene	103	0	84-118		%REC	1	07/01/15 04:54 PM
Surr: Dibromofluoromethane	110	0	65-135		%REC	1	07/01/15 04:54 PM
Surr: Toluene-d8	95.3	0	84-116		%REC	1	07/01/15 04:54 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	22.5	0	0		WT%	1	07/02/15 08:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB09-015
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-36
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 04:30 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH WATER		**TX1005**					Analyst: **AV**
T/R Hydrocarbons: C6-C12	<0.694	0.694	1.98		mg/L	1	06/30/15 12:00 PM
T/R Hydrocarbons: >C12-C28	<0.694	0.694	1.98		mg/L	1	06/30/15 12:00 PM
T/R Hydrocarbons: >C28-C35	<0.694	0.694	1.98		mg/L	1	06/30/15 12:00 PM
T/R Hydrocarbons: C6-C35	<0.694	0.694	1.98		mg/L	1	06/30/15 12:00 PM
Surr: Isopropylbenzene	84.4	0	70-130		%REC	1	06/30/15 12:00 PM
Surr: Octacosane	80.2	0	70-130		%REC	1	06/30/15 12:00 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SM**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	07/01/15 11:39 AM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	07/07/15 01:47 PM
Barium	<0.00300	0.00300	0.0100		mg/L	1	07/07/15 01:47 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	07/07/15 01:47 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	07/07/15 01:47 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	07/07/15 01:47 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	07/07/15 01:47 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	07/07/15 01:47 PM
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
2,4,6-Trichlorophenol	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
2,4-Dichlorophenol	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
2,4-Dimethylphenol	<0.000390	0.000390	0.000779		mg/L	1	07/02/15 06:10 PM
2,4-Dinitrophenol	<0.000974	0.000974	0.00390		mg/L	1	07/02/15 06:10 PM
2,4-Dinitrotoluene	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
2,6-Dinitrotoluene	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
2-Chloronaphthalene	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
2-Chlorophenol	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
2-Methylnaphthalene	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
2-Methylphenol	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
2-Nitroaniline	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
2-Nitrophenol	<0.000390	0.000390	0.000779		mg/L	1	07/02/15 06:10 PM
3,3´-Dichlorobenzidine	<0.000390	0.000390	0.000779		mg/L	1	07/02/15 06:10 PM
3-Nitroaniline	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
4,6-Dinitro-2-methylphenol	<0.000487	0.000487	0.00195		mg/L	1	07/02/15 06:10 PM
4-Bromophenyl phenyl ether	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
4-Chloro-3-methylphenol	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
4-Chloroaniline	<0.000487	0.000487	0.00195		mg/L	1	07/02/15 06:10 PM
4-Chlorophenyl phenyl ether	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB09-015
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-36
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 04:30 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
4-Methylphenol	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
4-Nitroaniline	<0.000390	0.000390	0.000779		mg/L	1	07/02/15 06:10 PM
4-Nitrophenol	<0.000974	0.000974	0.00390		mg/L	1	07/02/15 06:10 PM
Acenaphthene	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Acenaphthylene	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Acetophenone	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Anthracene	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Atrazine	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Benzaldehyde	0.00282	0.000390	0.000779	N	mg/L	1	07/02/15 06:10 PM
Benzo[a]anthracene	<0.000390	0.000390	0.000779		mg/L	1	07/02/15 06:10 PM
Benzo[a]pyrene	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Benzo[b]fluoranthene	<0.000390	0.000390	0.000779		mg/L	1	07/02/15 06:10 PM
Benzo[g,h,i]perylene	<0.000390	0.000390	0.000779		mg/L	1	07/02/15 06:10 PM
Benzo[k]fluoranthene	<0.000390	0.000390	0.000779		mg/L	1	07/02/15 06:10 PM
Benzoic acid	<0.00195	0.00195	0.00584		mg/L	1	07/02/15 06:10 PM
Benzyl alcohol	<0.000487	0.000487	0.00195		mg/L	1	07/02/15 06:10 PM
Biphenyl	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Bis(2-chloroethoxy)methane	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Bis(2-chloroethyl)ether	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Bis(2-chloroisopropyl)ether	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Bis(2-ethylhexyl)phthalate	<0.000974	0.000974	0.00292		mg/L	1	07/02/15 06:10 PM
Butyl benzyl phthalate	<0.00195	0.00195	0.00584		mg/L	1	07/02/15 06:10 PM
Caprolactam	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Carbazole	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Chrysene	<0.000390	0.000390	0.000779		mg/L	1	07/02/15 06:10 PM
Dibenz[a,h]anthracene	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Dibenzofuran	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Diethyl phthalate	<0.00195	0.00195	0.00584		mg/L	1	07/02/15 06:10 PM
Dimethyl phthalate	<0.00195	0.00195	0.00584		mg/L	1	07/02/15 06:10 PM
Di-n-butyl phthalate	<0.00195	0.00195	0.00584		mg/L	1	07/02/15 06:10 PM
Di-n-octyl phthalate	<0.00195	0.00195	0.00584		mg/L	1	07/02/15 06:10 PM
Fluoranthene	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Fluorene	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Hexachlorobenzene	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Hexachlorobutadiene	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Hexachlorocyclopentadiene	<0.000487	0.000487	0.00195		mg/L	1	07/02/15 06:10 PM
Hexachloroethane	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Indeno[1,2,3-cd]pyrene	<0.000390	0.000390	0.000779		mg/L	1	07/02/15 06:10 PM
Isophorone	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB09-015
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-36
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 04:30 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
Naphthalene	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Nitrobenzene	<0.000390	0.000390	0.000779		mg/L	1	07/02/15 06:10 PM
N-Nitrosodi-n-propylamine	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
N-Nitrosodiphenylamine	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Pentachlorophenol	<0.000390	0.000390	0.000779		mg/L	1	07/02/15 06:10 PM
Phenanthrene	<0.000195	0.000195	0.000779		mg/L	1	07/02/15 06:10 PM
Phenol	<0.000390	0.000390	0.000779		mg/L	1	07/02/15 06:10 PM
Pyrene	<0.000390	0.000390	0.000779		mg/L	1	07/02/15 06:10 PM
Surr: 2,4,6-Tribromophenol	74.0	0	42-124		%REC	1	07/02/15 06:10 PM
Surr: 2-Fluorobiphenyl	77.5	0	48-120		%REC	1	07/02/15 06:10 PM
Surr: 2-Fluorophenol	45.0	0	20-120		%REC	1	07/02/15 06:10 PM
Surr: 4-Terphenyl-d14	72.0	0	51-135		%REC	1	07/02/15 06:10 PM
Surr: Nitrobenzene-d5	91.0	0	41-120		%REC	1	07/02/15 06:10 PM
Surr: Phenol-d5	33.8	0	20-120		%REC	1	07/02/15 06:10 PM
PCB BY GC/MS - AQUEOUS		**SW8270D**					Analyst: **DEW**
Aroclor 1016	<0.0000975	0.0000975	0.000244		mg/L	1	07/06/15 11:27 PM
Aroclor 1221	<0.0000975	0.0000975	0.000244		mg/L	1	07/06/15 11:27 PM
Aroclor 1232	<0.0000975	0.0000975	0.000244		mg/L	1	07/06/15 11:27 PM
Aroclor 1242	<0.0000975	0.0000975	0.000244		mg/L	1	07/06/15 11:27 PM
Aroclor 1248	<0.0000975	0.0000975	0.000244		mg/L	1	07/06/15 11:27 PM
Aroclor 1254	<0.0000975	0.0000975	0.000244		mg/L	1	07/06/15 11:27 PM
Aroclor 1260	<0.0000975	0.0000975	0.000244		mg/L	1	07/06/15 11:27 PM
Surr: 2-Fluorobiphenyl	111	0	40-140		%REC	1	07/06/15 11:27 PM
Surr: 4-Terphenyl-d14	119	0	40-140		%REC	1	07/06/15 11:27 PM
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
1,1,1-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
1,1,2,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
1,1,2-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
1,1,2-Trichlorotrifluoroethane	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:07 PM
1,1-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
1,1-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
1,1-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 05:07 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 05:07 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 05:07 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	06/29/15 05:07 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB09-015
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-36
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 04:30 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
1,2-Dibromoethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
1,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 05:07 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
1,3-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
1-Chlorohexane	<0.00100	0.00100	0.00500		mg/L	1	06/29/15 05:07 PM
2,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:07 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:07 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:07 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:07 PM
Benzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Bromobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Bromochloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Bromodichloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Bromoform	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:07 PM
Carbon tetrachloride	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Chlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
cis-1,2-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
cis-1,3-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Cyclohexane	<0.00500	0.00500	0.0150	N	mg/L	1	06/29/15 05:07 PM
Dibromochloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Dibromomethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Dichlorodifluoromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Hexachlorobutadiene	<0.00100	0.00100	0.00300		mg/L	1	06/29/15 05:07 PM
Isopropylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 05:07 PM
Methyl Acetate	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:07 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB09-015
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-36
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 04:30 PM
Lab Order:	1506310	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Methylcyclohexane	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:07 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	06/29/15 05:07 PM
Naphthalene	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:07 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Styrene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 05:07 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 05:07 PM
trans-1,2-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
trans-1,3-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Trichloroethene	<0.000600	0.000600	0.00100		mg/L	1	06/29/15 05:07 PM
Trichlorofluoromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Vinyl chloride	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:07 PM
Surr: 1,2-Dichloroethane-d4	104	0	72-119		%REC	1	06/29/15 05:07 PM
Surr: 4-Bromofluorobenzene	102	0	76-119		%REC	1	06/29/15 05:07 PM
Surr: Dibromofluoromethane	106	0	85-115		%REC	1	06/29/15 05:07 PM
Surr: Toluene-d8	93.9	0	81-120		%REC	1	06/29/15 05:07 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-TB01-0615
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-37
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 04:35 PM
Lab Order:	1506310	**Matrix:**	TRIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
1,1,1-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
1,1,2,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
1,1,2-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
1,1,2-Trichlorotrifluoroethane	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:31 PM
1,1-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
1,1-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
1,1-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 05:31 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 05:31 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 05:31 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	06/29/15 05:31 PM
1,2-Dibromoethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
1,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 05:31 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
1,3-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
1-Chlorohexane	<0.00100	0.00100	0.00500		mg/L	1	06/29/15 05:31 PM
2,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:31 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:31 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:31 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:31 PM
Benzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Bromobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Bromochloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Bromodichloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Bromoform	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:31 PM
Carbon tetrachloride	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Chlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-TB01-0615
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-37
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 04:35 PM
Lab Order:	1506310	**Matrix:**	TRIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
cis-1,2-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
cis-1,3-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Cyclohexane	<0.00500	0.00500	0.0150	N	mg/L	1	06/29/15 05:31 PM
Dibromochloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Dibromomethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Dichlorodifluoromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Hexachlorobutadiene	<0.00100	0.00100	0.00300		mg/L	1	06/29/15 05:31 PM
Isopropylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 05:31 PM
Methyl Acetate	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:31 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Methylcyclohexane	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:31 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	06/29/15 05:31 PM
Naphthalene	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:31 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Styrene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 05:31 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 05:31 PM
trans-1,2-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
trans-1,3-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Trichloroethene	<0.000600	0.000600	0.00100		mg/L	1	06/29/15 05:31 PM
Trichlorofluoromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Vinyl chloride	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:31 PM
Surr: 1,2-Dichloroethane-d4	104	0	72-119		%REC	1	06/29/15 05:31 PM
Surr: 4-Bromofluorobenzene	97.8	0	76-119		%REC	1	06/29/15 05:31 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	06/29/15 05:31 PM
Surr: Toluene-d8	96.9	0	81-120		%REC	1	06/29/15 05:31 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-TB02-0615
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-38
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 04:40 PM
Lab Order:	1506310	**Matrix:**	TRIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
1,1,1-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
1,1,2,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
1,1,2-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
1,1,2-Trichlorotrifluoroethane	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:55 PM
1,1-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
1,1-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
1,1-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 05:55 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 05:55 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 05:55 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	06/29/15 05:55 PM
1,2-Dibromoethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
1,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	06/29/15 05:55 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
1,3-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
1-Chlorohexane	<0.00100	0.00100	0.00500		mg/L	1	06/29/15 05:55 PM
2,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:55 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:55 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:55 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:55 PM
Benzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Bromobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Bromochloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Bromodichloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Bromoform	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:55 PM
Carbon tetrachloride	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Chlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-TB02-0615
Project:	City of Galveston Incinerator	**Lab ID:**	1506310-38
Project No:	60420789.41012083.0103	**Collection Date:**	06/25/15 04:40 PM
Lab Order:	1506310	**Matrix:**	TRIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
cis-1,2-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
cis-1,3-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Cyclohexane	<0.00500	0.00500	0.0150	N	mg/L	1	06/29/15 05:55 PM
Dibromochloromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Dibromomethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Dichlorodifluoromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Hexachlorobutadiene	<0.00100	0.00100	0.00300		mg/L	1	06/29/15 05:55 PM
Isopropylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 05:55 PM
Methyl Acetate	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:55 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Methylcyclohexane	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:55 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	06/29/15 05:55 PM
Naphthalene	<0.00500	0.00500	0.0150		mg/L	1	06/29/15 05:55 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Styrene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 05:55 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	06/29/15 05:55 PM
trans-1,2-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
trans-1,3-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Trichloroethene	<0.000600	0.000600	0.00100		mg/L	1	06/29/15 05:55 PM
Trichlorofluoromethane	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Vinyl chloride	<0.000300	0.000300	0.00100		mg/L	1	06/29/15 05:55 PM
Surr: 1,2-Dichloroethane-d4	104	0	72-119		%REC	1	06/29/15 05:55 PM
Surr: 4-Bromofluorobenzene	98.4	0	76-119		%REC	1	06/29/15 05:55 PM
Surr: Dibromofluoromethane	107	0	85-115		%REC	1	06/29/15 05:55 PM
Surr: Toluene-d8	96.1	0	81-120		%REC	1	06/29/15 05:55 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: GC12_150625A

Sample ID	**DCS-70176**	Batch ID:	**70176**	TestNo:	**TX1005**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**GC12_150625A**	Analysis Date:	**6/25/2015 9:30:04 AM**	Prep Date:	**6/24/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	0.689	2.00	1.000	0	68.9	50	200	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GC12_150630A**

The QC data in batch 70234 applies to the following samples: 1506310-36B

Sample ID **LCS-70234** Batch ID: **70234** TestNo: **TX1005** Units: **mg/L**
SampType: **LCS** Run ID: **GC12_150630A** Analysis Date: **6/30/2015 9:23:45 AM** Prep Date: **6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	25.1	2.00	25.00	0	101	75	125			
Surr: Isopropylbenzene	2.12		2.500		84.8	70	130			
Surr: Octacosane	1.97		2.500		78.8	70	130			

Sample ID **LCSD-70234** Batch ID: **70234** TestNo: **TX1005** Units: **mg/L**
SampType: **LCSD** Run ID: **GC12_150630A** Analysis Date: **6/30/2015 9:32:47 AM** Prep Date: **6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	27.5	2.00	25.00	0	110	75	125	8.87	20	
Surr: Isopropylbenzene	2.30		2.500		91.8	70	130	0	0	
Surr: Octacosane	2.11		2.500		84.2	70	130	0	0	

Sample ID **MB-70234** Batch ID: **70234** TestNo: **TX1005** Units: **mg/L**
SampType: **MBLK** Run ID: **GC12_150630A** Analysis Date: **6/30/2015 9:50:51 AM** Prep Date: **6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C12	<0.700	2.00								
T/R Hydrocarbons: >C12-C28	<0.700	2.00								
T/R Hydrocarbons: >C28-C35	<0.700	2.00								
T/R Hydrocarbons: C6-C35	<0.700	2.00								
Surr: Isopropylbenzene	2.11		2.500		84.3	70	130			
Surr: Octacosane	2.00		2.500		80.0	70	130			

Sample ID **1506300-01BMS** Batch ID: **70234** TestNo: **TX1005** Units: **mg/L**
SampType: **MS** Run ID: **GC12_150630A** Analysis Date: **6/30/2015 11:42:42 AM** Prep Date: **6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	27.4	1.96	24.45	0	112	75	125			
Surr: Isopropylbenzene	2.24		2.445		91.6	70	130			
Surr: Octacosane	2.08		2.445		85.2	70	130			

Sample ID **1506300-01BMSD** Batch ID: **70234** TestNo: **TX1005** Units: **mg/L**
SampType: **MSD** Run ID: **GC12_150630A** Analysis Date: **6/30/2015 11:51:41 AM** Prep Date: **6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	26.9	2.02	25.29	0	106	75	125	1.79	20	
Surr: Isopropylbenzene	2.24		2.529		88.7	70	130	0	0	
Surr: Octacosane	2.09		2.529		82.5	70	130	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GC12_150630A**

Sample ID	**ICV-150630**	Batch ID:	**R80364**	TestNo:	**TX1005**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**GC12_150630A**	Analysis Date:	**6/30/2015 9:11:40 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	1210	2.00	1000	0	121	75	125			
Surr: Isopropylbenzene	49.0		50.00		98.0	70	130			
Surr: Octacosane	43.9		50.00		87.8	70	130			

Sample ID	**CCV1-150630**	Batch ID:	**R80364**	TestNo:	**TX1005**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**GC12_150630A**	Analysis Date:	**6/30/2015 2:04:03 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	601	2.00	500.0	0	120	75	125			
Surr: Isopropylbenzene	25.8		25.00		103	70	130			
Surr: Octacosane	23.5		25.00		94.1	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GC15_150702A**

The QC data in batch 70264 applies to the following samples: 1506310-32B, 1506310-33B, 1506310-34B, 1506310-35B

Sample ID **MB-70264** Batch ID: **70264** TestNo: **TX1005** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GC15_150702A** Analysis Date: **7/2/2015 8:59:59 AM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C12	<7.00	20.0								
T/R Hydrocarbons: >C12-C28	<7.00	20.0								
T/R Hydrocarbons: >C28-C35	<7.00	20.0								
T/R Hydrocarbons: C6-C35	<7.00	20.0								
Surr: Isopropylbenzene	20.3		25.00		81.3	70	130			
Surr: Octacosane	23.2		25.00		92.9	70	130			

Sample ID **DCS-70264** Batch ID: **70264** TestNo: **TX1005** Units: **mg/Kg**
SampType: **DCS** Run ID: **GC15_150702A** Analysis Date: **7/2/2015 9:08:57 AM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	6.21	20.0	10.00	0	62.1	50	200			
Surr: Isopropylbenzene	20.3		25.00		81.1	70	130			
Surr: Octacosane	22.4		25.00		89.8	70	130			

Sample ID **LCS-70264** Batch ID: **70264** TestNo: **TX1005** Units: **mg/Kg**
SampType: **LCS** Run ID: **GC15_150702A** Analysis Date: **7/2/2015 9:17:56 AM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	211	20.0	250.0	0	84.6	75	125			
Surr: Isopropylbenzene	21.1		25.00		84.5	70	130			
Surr: Octacosane	23.1		25.00		92.4	70	130			

Sample ID **LCSD-70264** Batch ID: **70264** TestNo: **TX1005** Units: **mg/Kg**
SampType: **LCSD** Run ID: **GC15_150702A** Analysis Date: **7/2/2015 9:26:54 AM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	207	20.0	250.0	0	82.9	75	125	2.01	20	
Surr: Isopropylbenzene	20.9		25.00		83.6	70	130	0	0	
Surr: Octacosane	22.6		25.00		90.5	70	130	0	0	

Sample ID **1507014-01BMS** Batch ID: **70264** TestNo: **TX1005** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GC15_150702A** Analysis Date: **7/2/2015 11:23:21 AM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	309	24.1	300.7	0	103	75	125			
Surr: Isopropylbenzene	28.2		30.07		93.7	70	130			
Surr: Octacosane	27.9		30.07		92.7	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GC15_150702A**

Sample ID	**1507014-01BMSD**	Batch ID:	**70264**	TestNo:	**TX1005**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**GC15_150702A**	Analysis Date:	**7/2/2015 11:32:19 AM**	Prep Date:	**7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	321	23.8	298.1	0	108	75	125	3.66	20	
Surr: Isopropylbenzene	28.1		29.81		94.4	70	130	0	0	
Surr: Octacosane	28.1		29.81		94.4	70	130	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GC15_150702A**

Sample ID	**ICV-150702**	Batch ID:	**R80416**	TestNo:	**TX1005**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GC15_150702A**	Analysis Date:	**7/2/2015 8:47:23 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	1130	20.0	1000	0	113	75	125			
Surr: Isopropylbenzene	47.3		50.00		94.7	70	130			
Surr: Octacosane	46.2		50.00		92.4	70	130			

Sample ID	**CCV1-150702**	Batch ID:	**R80416**	TestNo:	**TX1005**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**GC15_150702A**	Analysis Date:	**7/2/2015 12:37:42 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	598	20.0	500.0	0	120	75	125			
Surr: Isopropylbenzene	26.6		25.00		107	70	130			
Surr: Octacosane	25.9		25.00		103	70	130			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150518A**

Sample ID	**DCS-69522**	Batch ID:	**69522**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**CETAC2_HG_150518A**	Analysis Date:	**5/18/2015 10:45:47 AM**	Prep Date:	**5/13/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0199	0.0400	0.02000	0	99.5	60	140	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150609A**

Sample ID	**DCS-69949**	Batch ID:	**69949**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**CETAC2_HG_150609A**	Analysis Date:	**6/9/2015 4:45:06 PM**	Prep Date:	**6/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.000101	0.000200	0.000100	0	101	70	130	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150701A**

The QC data in batch 70272 applies to the following samples: 1506310-12B, 1506310-13B, 1506310-14B, 1506310-15B, 1506310-16B, 1506310-30A, 1506310-36C

Sample ID	**MB-70272**	Batch ID:	**70272**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**CETAC2_HG_150701A**	Analysis Date:	**7/1/2015 11:07:52 AM**	Prep Date:	**6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0000800	0.000200								

Sample ID	**LCS-70272**	Batch ID:	**70272**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**CETAC2_HG_150701A**	Analysis Date:	**7/1/2015 11:12:26 AM**	Prep Date:	**6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00201	0.000200	0.00200	0	101	85	115			

Sample ID	**LCSD-70272**	Batch ID:	**70272**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**CETAC2_HG_150701A**	Analysis Date:	**7/1/2015 11:14:43 AM**	Prep Date:	**6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00210	0.000200	0.00200	0	105	85	115	4.38	15	

Sample ID	**1506310-16B SD**	Batch ID:	**70272**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**SD**	Run ID:	**CETAC2_HG_150701A**	Analysis Date:	**7/1/2015 11:19:17 AM**	Prep Date:	**6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.000400	0.00100	0	0				0	10	

Sample ID	**1506310-16B PDS**	Batch ID:	**70272**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**PDS**	Run ID:	**CETAC2_HG_150701A**	Analysis Date:	**7/1/2015 11:21:34 AM**	Prep Date:	**6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00212	0.000200	0.00250	0	84.8	85	115			

Sample ID	**1506310-16B MS**	Batch ID:	**70272**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**CETAC2_HG_150701A**	Analysis Date:	**7/1/2015 11:23:51 AM**	Prep Date:	**6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00180	0.000200	0.00200	0	90.0	80	120			

Sample ID	**1506310-16B MSD**	Batch ID:	**70272**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**CETAC2_HG_150701A**	Analysis Date:	**7/1/2015 11:26:08 AM**	Prep Date:	**6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00178	0.000200	0.00200	0	89.0	80	120	1.12	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150701A**

Sample ID	**ICV-150701**	Batch ID:	**R80383**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**CETAC2_HG_150701A**	Analysis Date:	**7/1/2015 9:19:27 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00407	0.000200	0.00400	0	102	90	110			

Sample ID	**CCV2-150701**	Batch ID:	**R80383**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150701A**	Analysis Date:	**7/1/2015 11:03:16 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00197	0.000200	0.00200	0	98.5	90	110			

Sample ID	**CCV3-150701**	Batch ID:	**R80383**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150701A**	Analysis Date:	**7/1/2015 11:46:45 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00199	0.000200	0.00200	0	99.5	90	110			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150707A**

The QC data in batch 70317 applies to the following samples: 1506310-01A , 1506310-02A, 1506310-03A, 1506310-04A

Sample ID **MB-70317** Batch ID: **70317** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **MBLK** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 9:40:40 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0160	0.0400								

Sample ID **LCS-70317** Batch ID: **70317** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCS** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 9:42:56 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.204	0.0400	0.2000	0	102	85	115			

Sample ID **LCSD-70317** Batch ID: **70317** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCSD** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 9:45:12 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.205	0.0400	0.2000	0	103	85	115	0.489	25	

Sample ID **1506310-01A SD** Batch ID: **70317** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 9:49:45 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0659	0.193	0	0.06757				2.45	10	

Sample ID **1506310-01A PDS** Batch ID: **70317** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 9:52:00 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.299	0.0385	0.2406	0.06757	96.3	85	115			

Sample ID **1506310-01A MS** Batch ID: **70317** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 9:54:16 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.256	0.0371	0.1855	0.06757	102	80	120			

Sample ID **1506310-01A MSD** Batch ID: **70317** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 9:56:32 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.277	0.0411	0.2053	0.06757	102	80	120	7.95	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150707A**

The QC data in batch 70331 applies to the following samples: 1506310-05A, 1506310-06B, 1506310-07B, 1506310-08B, 1506310-09B, 1506310-10B, 1506310-11B, 1506310-17B, 1506310-18B, 1506310-19B, 1506310-20B, 1506310-21B, 1506310-22B, 1506310-23B, 1506310-24B, 1506310-25B, 1506310-26B, 1506310-27B, 1506310-28B, 1506310-29B

Sample ID **MB-70331** Batch ID: **70331** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **MBLK** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 10:51:08 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0160	0.0400								

Sample ID **LCS-70331** Batch ID: **70331** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCS** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 10:53:25 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.200	0.0400	0.2000	0	100	85	115			

Sample ID **LCSD-70331** Batch ID: **70331** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCSD** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 10:55:42 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.196	0.0400	0.2000	0	98.0	85	115	2.02	25	

Sample ID **1506310-27B SD** Batch ID: **70331** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 11:00:15 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.129	0.207	0	0.1242				3.92	10	

Sample ID **1506310-27B PDS** Batch ID: **70331** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 11:02:32 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.408	0.0450	0.2815	0.1242	101	85	115			

Sample ID **1506310-27B MS** Batch ID: **70331** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 11:04:49 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.306	0.0429	0.2143	0.1242	85.0	80	120			

Sample ID **1506310-27B MSD** Batch ID: **70331** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **CETAC2_HG_150707A** Analysis Date: **7/7/2015 11:07:07 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.334	0.0409	0.2043	0.1242	103	80	120	8.60	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150707A**

Sample ID	**ICV-150707**	Batch ID:	**R80463**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**CETAC2_HG_150707A**	Analysis Date:	**7/7/2015 9:36:06 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00401	0.0400	0.004000	0	100	90	110			

Sample ID	**CCV1-150707**	Batch ID:	**R80463**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150707A**	Analysis Date:	**7/7/2015 10:19:14 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00201	0.0400	0.002000	0	101	90	110			

Sample ID	**CCV2-150707**	Batch ID:	**R80463**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150707A**	Analysis Date:	**7/7/2015 10:46:33 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00202	0.0400	0.002000	0	101	90	110			

Sample ID	**CCV3-150707**	Batch ID:	**R80463**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150707A**	Analysis Date:	**7/7/2015 11:30:01 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00200	0.0400	0.002000	0	100	90	110			

Sample ID	**CCV4-150707**	Batch ID:	**R80463**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150707A**	Analysis Date:	**7/7/2015 11:57:37 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00199	0.0400	0.002000	0	99.5	90	110			

Sample ID	**CCV5-150707**	Batch ID:	**R80463**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150707A**	Analysis Date:	**7/7/2015 12:26:26 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00200	0.0400	0.002000	0	100	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150709C**

The QC data in batch 70353 applies to the following samples: 1506310-31B, 1506310-32C, 1506310-33C, 1506310-34C, 1506310-35C

Sample ID	**MB-70353**	Batch ID:	**70353**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**CETAC2_HG_150709C**	Analysis Date:	**7/9/2015 12:41:19 PM**	Prep Date:	**7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0160	0.0400								

Sample ID	**LCS-70353**	Batch ID:	**70353**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**CETAC2_HG_150709C**	Analysis Date:	**7/9/2015 12:43:36 PM**	Prep Date:	**7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.204	0.0400	0.2000	0	102	85	115			

Sample ID	**LCSD-70353**	Batch ID:	**70353**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**LCSD**	Run ID:	**CETAC2_HG_150709C**	Analysis Date:	**7/9/2015 12:45:53 PM**	Prep Date:	**7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.204	0.0400	0.2000	0	102	85	115	0	25	

Sample ID	**1506310-32C SD**	Batch ID:	**70353**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**SD**	Run ID:	**CETAC2_HG_150709C**	Analysis Date:	**7/9/2015 12:50:26 PM**	Prep Date:	**7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0777	0.194	0	0				0	10	

Sample ID	**1506310-32C PDS**	Batch ID:	**70353**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**PDS**	Run ID:	**CETAC2_HG_150709C**	Analysis Date:	**7/9/2015 12:52:43 PM**	Prep Date:	**7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.254	0.0389	0.2429	0	104	85	115			

Sample ID	**1506310-32C MS**	Batch ID:	**70353**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**CETAC2_HG_150709C**	Analysis Date:	**7/9/2015 12:55:00 PM**	Prep Date:	**7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.219	0.0400	0.1999	0	109	80	120			

Sample ID	**1506310-32C MSD**	Batch ID:	**70353**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**CETAC2_HG_150709C**	Analysis Date:	**7/9/2015 12:57:18 PM**	Prep Date:	**7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.206	0.0372	0.1858	0	111	80	120	5.92	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150709C**

Sample ID	**ICV-150709**	Batch ID:	**R80516**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**CETAC2_HG_150709C**	Analysis Date:	**7/9/2015 11:30:39 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00397	0.0400	0.004000	0	99.2	90	110			

Sample ID	**CCV2-150709**	Batch ID:	**R80516**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150709C**	Analysis Date:	**7/9/2015 12:36:43 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00196	0.0400	0.002000	0	98.0	90	110			

Sample ID	**CCV3-150709**	Batch ID:	**R80516**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150709C**	Analysis Date:	**7/9/2015 1:22:21 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00200	0.0400	0.002000	0	100	90	110			

Sample ID	**CCV4-150709**	Batch ID:	**R80516**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150709C**	Analysis Date:	**7/9/2015 2:19:54 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00202	0.0400	0.002000	0	101	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150428B**

Sample ID	**DCS1-69318**	Batch ID:	**69318**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**ICP-MS4_150428B**	Analysis Date:	**4/28/2015 11:26:00 AM**	Prep Date:	**4/27/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00103	0.00500	0.00100	0	103	80	120	0	0	
Barium	0.00111	0.0100	0.00100	0	111	80	120	0	0	
Cadmium	0.000975	0.00100	0.00100	0	97.5	80	120	0	0	
Chromium	0.00108	0.00500	0.00100	0	108	80	120	0	0	
Lead	0.00109	0.00100	0.00100	0	109	80	120	0	0	
Selenium	0.000805	0.00500	0.00100	0	80.5	80	120	0	0	
Silver	0.00105	0.00200	0.00100	0	105	80	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150513A**

Sample ID	**DCS1-69521**	Batch ID:	**69521**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**ICP-MS4_150513A**	Analysis Date:	**5/13/2015 10:38:00 AM**	Prep Date:	**5/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.167	1.00	0.1500	0	111	80	120	0	0	
Barium	0.171	2.00	0.1500	0	114	80	120	0	0	
Cadmium	0.166	0.300	0.1500	0	111	80	120	0	0	
Lead	0.164	0.300	0.1500	0	109	80	120	0	0	
Selenium	0.139	0.500	0.1500	0	92.8	80	120	0	0	
Silver	0.166	0.200	0.1500	0	111	80	120	0	0	

Sample ID	**DCS2-69521**	Batch ID:	**69521**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS2**	Run ID:	**ICP-MS4_150513A**	Analysis Date:	**5/13/2015 10:40:00 AM**	Prep Date:	**5/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	1.06	2.00	1.000	0	106	80	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150702A**

The QC data in batch 70280 applies to the following samples: 1506310-09B

Sample ID **MB-70280** Batch ID: **70280** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS4_150702A** Analysis Date: **7/2/2015 10:38:00 AM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Lead	<0.100	0.300								
Selenium	<0.150	0.500								
Silver	<0.100	0.200								

Sample ID **LCS-70280** Batch ID: **70280** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS4_150702A** Analysis Date: **7/2/2015 10:42:00 AM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.9	1.00	50.00	0	102	80	120			
Barium	50.3	2.00	50.00	0	101	80	120			
Cadmium	50.0	0.300	50.00	0	100	80	120			
Chromium	52.8	2.00	50.00	0	106	80	120			
Lead	51.8	0.300	50.00	0	104	80	120			
Selenium	50.1	0.500	50.00	0	100	80	120			
Silver	51.1	0.200	50.00	0	102	80	120			

Sample ID **LCSD-70280** Batch ID: **70280** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS4_150702A** Analysis Date: **7/2/2015 10:44:00 AM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.9	1.00	50.00	0	102	80	120	0.090	20	
Barium	51.0	2.00	50.00	0	102	80	120	1.35	20	
Cadmium	50.8	0.300	50.00	0	102	80	120	1.59	20	
Chromium	52.4	2.00	50.00	0	105	80	120	0.615	20	
Lead	50.6	0.300	50.00	0	101	80	120	2.35	20	
Selenium	50.6	0.500	50.00	0	101	80	120	0.889	20	
Silver	52.5	0.200	50.00	0	105	80	120	2.70	20	

Sample ID **1506319-01A SD** Batch ID: **70280** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **SD** Run ID: **ICP-MS4_150702A** Analysis Date: **7/2/2015 10:50:00 AM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	3.01	4.20	0	3.071				2.05	10	
Barium	200	8.40	0	204.7				2.26	10	
Cadmium	<0.420	1.26	0	0.1958				0	10	
Chromium	20.6	8.40	0	20.13				2.08	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150702A**

Sample ID **1506319-01A SD** Batch ID: **70280** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **SD** Run ID: **ICP-MS4_150702A** Analysis Date: **7/2/2015 10:50:00 AM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	10.5	1.26	0	10.70				1.39	10	
Selenium	0.810	2.10	0	0.8981				10.3	10	
Silver	<0.420	0.840	0	0				0	10	

Sample ID **1506319-01A PDS** Batch ID: **70280** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **PDS** Run ID: **ICP-MS4_150702A** Analysis Date: **7/2/2015 10:59:00 AM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	45.3	0.840	42.02	3.071	101	80	120			
Barium	250	1.68	42.02	204.7	107	80	120			
Cadmium	42.6	0.252	42.02	0.1958	101	80	120			
Chromium	62.1	1.68	42.02	20.13	99.8	80	120			
Lead	54.3	0.252	42.02	10.70	104	80	120			
Selenium	42.8	0.420	42.02	0.8981	99.7	80	120			
Silver	42.5	0.168	42.02	0	101	80	120			

Sample ID **1506319-01A MS** Batch ID: **70280** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MS** Run ID: **ICP-MS4_150702A** Analysis Date: **7/2/2015 11:01:00 AM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	49.5	0.943	47.17	3.071	98.5	80	120			
Barium	249	1.89	47.17	204.7	93.9	80	120			
Cadmium	47.8	0.283	47.17	0.1958	101	80	120			
Chromium	67.3	1.89	47.17	20.13	100	80	120			
Lead	60.4	0.283	47.17	10.70	105	80	120			
Selenium	47.2	0.472	47.17	0.8981	98.1	80	120			
Silver	47.4	0.189	47.17	0	101	80	120			

Sample ID **1506319-01A MSD** Batch ID: **70280** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MSD** Run ID: **ICP-MS4_150702A** Analysis Date: **7/2/2015 11:03:00 AM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	47.1	0.901	45.05	3.071	97.7	80	120	5.08	20	
Barium	263	1.80	45.05	204.7	130	80	120	5.50	20	S
Cadmium	45.9	0.270	45.05	0.1958	102	80	120	3.93	20	
Chromium	64.9	1.80	45.05	20.13	99.4	80	120	3.66	20	
Lead	56.7	0.270	45.05	10.70	102	80	120	6.44	20	
Selenium	45.5	0.450	45.05	0.8981	99.1	80	120	3.54	20	
Silver	46.0	0.180	45.05	0	102	80	120	3.08	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150702A**

Sample ID **ICV-150702** Batch ID: **R80414** TestNo: **SW6020A** Units: **mg/L**
SampType: **ICV** Run ID: **ICP-MS4_150702A** Analysis Date: **7/2/2015 10:21:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0987	0.00500	0.100	0	98.7	90	110			
Barium	0.0989	0.0100	0.100	0	98.9	90	110			
Cadmium	0.0975	0.00100	0.100	0	97.5	90	110			
Chromium	0.104	0.00500	0.100	0	104	90	110			
Lead	0.101	0.00100	0.100	0	101	90	110			
Selenium	0.0976	0.00500	0.100	0	97.6	90	110			
Silver	0.0998	0.00200	0.100	0	99.8	90	110			

Sample ID **LCVL-150702** Batch ID: **R80414** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150702A** Analysis Date: **7/2/2015 10:29:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00489	0.00500	0.00500	0	97.9	70	130			
Barium	0.00482	0.0100	0.00500	0	96.4	70	130			
Cadmium	0.000995	0.00100	0.00100	0	99.5	70	130			
Chromium	0.00522	0.00500	0.00500	0	104	70	130			
Lead	0.00105	0.00100	0.00100	0	105	70	130			
Selenium	0.00497	0.00500	0.00500	0	99.4	70	130			
Silver	0.00196	0.00200	0.00200	0	97.9	70	130			

Sample ID **CCV1-150702** Batch ID: **R80414** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150702A** Analysis Date: **7/2/2015 11:05:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.201	0.00500	0.200	0	100	90	110			
Barium	0.204	0.0100	0.200	0	102	90	110			
Cadmium	0.205	0.00100	0.200	0	103	90	110			
Chromium	0.207	0.00500	0.200	0	104	90	110			
Lead	0.205	0.00100	0.200	0	102	90	110			
Selenium	0.198	0.00500	0.200	0	99.1	90	110			
Silver	0.206	0.00200	0.200	0	103	90	110			

Sample ID **LCVL1-150702** Batch ID: **R80414** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150702A** Analysis Date: **7/2/2015 11:11:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00480	0.00500	0.00500	0	96.0	70	130			
Barium	0.00492	0.0100	0.00500	0	98.4	70	130			
Cadmium	0.000999	0.00100	0.00100	0	99.9	70	130			
Chromium	0.00513	0.00500	0.00500	0	103	70	130			
Lead	0.00107	0.00100	0.00100	0	107	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150702A**

Sample ID	**LCVL1-150702**	Batch ID:	**R80414**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150702A**	Analysis Date:	**7/2/2015 11:11:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.00494	0.00500	0.00500	0	98.8	70	130			
Silver	0.00201	0.00200	0.00200	0	101	70	130			

Sample ID	**CCV2-150702**	Batch ID:	**R80414**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150702A**	Analysis Date:	**7/2/2015 11:25:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.202	0.00500	0.200	0	101	90	110			
Cadmium	0.202	0.00100	0.200	0	101	90	110			
Chromium	0.208	0.00500	0.200	0	104	90	110			
Selenium	0.199	0.00500	0.200	0	99.5	90	110			
Silver	0.203	0.00200	0.200	0	101	90	110			

Sample ID	**LCVL2-150702**	Batch ID:	**R80414**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150702A**	Analysis Date:	**7/2/2015 11:40:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00477	0.00500	0.00500	0	95.4	70	130			
Cadmium	0.00104	0.00100	0.00100	0	104	70	130			
Chromium	0.00532	0.00500	0.00500	0	106	70	130			
Selenium	0.00444	0.00500	0.00500	0	88.8	70	130			
Silver	0.00199	0.00200	0.00200	0	99.6	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150706A**

Sample ID	**ICV-150706**	Batch ID:	**R80440**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**ICP-MS4_150706A**	Analysis Date:	**7/6/2015 10:40:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0974	0.0100	0.100	0	97.4	90	110			
Lead	0.0990	0.00100	0.100	0	99.0	90	110			

Sample ID	**LCVL-150706**	Batch ID:	**R80440**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150706A**	Analysis Date:	**7/6/2015 10:46:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00482	0.0100	0.00500	0	96.3	70	130			
Lead	0.00101	0.00100	0.00100	0	101	70	130			

Sample ID	**CCV1-150706**	Batch ID:	**R80440**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150706A**	Analysis Date:	**7/6/2015 11:27:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.196	0.0100	0.200	0	98.1	90	110			
Lead	0.198	0.00100	0.200	0	98.8	90	110			

Sample ID	**LCVL1-150706**	Batch ID:	**R80440**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150706A**	Analysis Date:	**7/6/2015 11:39:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00482	0.0100	0.00500	0	96.3	70	130			
Lead	0.00104	0.00100	0.00100	0	104	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150706B**

The QC data in batch 70316 applies to the following samples: 1506310-10B, 1506310-11B, 1506310-17B, 1506310-18B, 1506310-19B, 1506310-20B, 1506310-21B, 1506310-22B, 1506310-23B, 1506310-24B, 1506310-25B, 1506310-26B, 1506310-27B, 1506310-28B, 1506310-29B, 1506310-31B, 1506310-32C, 1506310-33C, 1506310-34C

Sample ID **MB-70316** Batch ID: **70316** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS4_150706B** Analysis Date: **7/6/2015 6:43:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Selenium	<0.150	0.500								
Silver	<0.100	0.200								

Sample ID **LCS-70316** Batch ID: **70316** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS4_150706B** Analysis Date: **7/6/2015 6:45:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.7	1.00	50.00	0	101	80	120			
Barium	49.1	2.00	50.00	0	98.2	80	120			
Cadmium	48.9	0.300	50.00	0	97.9	80	120			
Chromium	50.9	2.00	50.00	0	102	80	120			
Selenium	51.1	0.500	50.00	0	102	80	120			
Silver	49.4	0.200	50.00	0	98.7	80	120			

Sample ID **LCSD-70316** Batch ID: **70316** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS4_150706B** Analysis Date: **7/6/2015 6:47:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	51.2	1.00	50.00	0	102	80	120	0.956	20	
Barium	50.1	2.00	50.00	0	100	80	120	2.00	20	
Cadmium	49.7	0.300	50.00	0	99.4	80	120	1.49	20	
Chromium	52.6	2.00	50.00	0	105	80	120	3.32	20	
Selenium	51.7	0.500	50.00	0	103	80	120	1.23	20	
Silver	50.3	0.200	50.00	0	101	80	120	1.84	20	

Sample ID **1506310-27B SD** Batch ID: **70316** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS4_150706B** Analysis Date: **7/6/2015 6:53:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	26.8	5.52	0	27.08				0.891	10	
Barium	349	11.0	0	356.1				1.90	10	
Cadmium	3.70	1.65	0	3.744				1.14	10	
Chromium	38.2	11.0	0	39.32				2.90	10	
Selenium	<0.827	2.76	0	0.5282				0	10	
Silver	2.30	1.10	0	2.339				1.68	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150706B**

Sample ID **1506310-27B PDS** Batch ID: **70316** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **ICP-MS4_150706B** Analysis Date: **7/6/2015 7:12:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	82.4	1.10	55.17	27.08	100	80	120			
Barium	410	2.21	55.17	356.1	98.3	80	120			
Cadmium	58.0	0.331	55.17	3.744	98.4	80	120			
Chromium	97.8	2.21	55.17	39.32	106	80	120			
Selenium	55.6	0.552	55.17	0.5282	99.8	80	120			
Silver	56.6	0.221	55.17	2.339	98.4	80	120			

Sample ID **1506310-27B MS** Batch ID: **70316** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **ICP-MS4_150706B** Analysis Date: **7/6/2015 7:14:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	68.5	1.03	51.75	27.08	80.0	80	120			
Barium	406	2.07	51.75	356.1	96.0	80	120			
Cadmium	54.6	0.310	51.75	3.744	98.3	80	120			
Chromium	92.6	2.07	51.75	39.32	103	80	120			
Selenium	51.4	0.517	51.75	0.5282	98.4	80	120			
Silver	53.7	0.207	51.75	2.339	99.2	80	120			

Sample ID **1506310-27B MSD** Batch ID: **70316** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **ICP-MS4_150706B** Analysis Date: **7/6/2015 7:15:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	85.5	1.12	56.23	27.08	104	80	120	22.1	20	R
Barium	420	2.25	56.23	356.1	113	80	120	3.36	20	
Cadmium	57.5	0.337	56.23	3.744	95.6	80	120	5.11	20	
Chromium	96.9	2.25	56.23	39.32	102	80	120	4.46	20	
Selenium	51.9	0.562	56.23	0.5282	91.4	80	120	0.950	20	
Silver	56.1	0.225	56.23	2.339	95.6	80	120	4.37	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150706B**

Sample ID **ICV2-150706** Batch ID: **R80451** TestNo: **SW6020A** Units: **mg/L**
SampType: **ICV** Run ID: **ICP-MS4_150706B** Analysis Date: **7/6/2015 4:26:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0988	0.00500	0.100	0	98.8	90	110			
Barium	0.0958	0.0100	0.100	0	95.8	90	110			
Cadmium	0.0973	0.00100	0.100	0	97.3	90	110			
Chromium	0.103	0.00500	0.100	0	103	90	110			
Selenium	0.0988	0.00500	0.100	0	98.8	90	110			
Silver	0.0988	0.00200	0.100	0	98.8	90	110			

Sample ID **ILCVL2-150706** Batch ID: **R80451** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150706B** Analysis Date: **7/6/2015 4:31:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00491	0.00500	0.00500	0	98.1	70	130			
Barium	0.00494	0.0100	0.00500	0	98.8	70	130			
Cadmium	0.00103	0.00100	0.00100	0	103	70	130			
Chromium	0.00519	0.00500	0.00500	0	104	70	130			
Selenium	0.00503	0.00500	0.00500	0	101	70	130			
Silver	0.00202	0.00200	0.00200	0	101	70	130			

Sample ID **CCV4-150706** Batch ID: **R80451** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150706B** Analysis Date: **7/6/2015 6:35:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.202	0.00500	0.200	0	101	90	110			
Barium	0.198	0.0100	0.200	0	99.2	90	110			
Cadmium	0.200	0.00100	0.200	0	100	90	110			
Chromium	0.204	0.00500	0.200	0	102	90	110			
Selenium	0.203	0.00500	0.200	0	101	90	110			
Silver	0.199	0.00200	0.200	0	99.3	90	110			

Sample ID **LCVL4-150706** Batch ID: **R80451** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150706B** Analysis Date: **7/6/2015 6:39:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00497	0.00500	0.00500	0	99.5	70	130			
Barium	0.00492	0.0100	0.00500	0	98.4	70	130			
Cadmium	0.00103	0.00100	0.00100	0	103	70	130			
Chromium	0.00504	0.00500	0.00500	0	101	70	130			
Selenium	0.00530	0.00500	0.00500	0	106	70	130			
Silver	0.00197	0.00200	0.00200	0	98.6	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150706B**

Sample ID	**CCV5-150706**	Batch ID:	**R80451**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150706B**	Analysis Date:	**7/6/2015 7:17:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.189	0.00500	0.200	0	94.4	90	110			
Barium	0.197	0.0100	0.200	0	98.7	90	110			
Cadmium	0.197	0.00100	0.200	0	98.7	90	110			
Chromium	0.204	0.00500	0.200	0	102	90	110			
Selenium	0.188	0.00500	0.200	0	94.2	90	110			
Silver	0.197	0.00200	0.200	0	98.6	90	110			

Sample ID	**LCVL5-150706**	Batch ID:	**R80451**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150706B**	Analysis Date:	**7/6/2015 7:21:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00444	0.00500	0.00500	0	88.7	70	130			
Barium	0.00476	0.0100	0.00500	0	95.1	70	130			
Cadmium	0.000954	0.00100	0.00100	0	95.4	70	130			
Chromium	0.00507	0.00500	0.00500	0	101	70	130			
Selenium	0.00494	0.00500	0.00500	0	98.8	70	130			
Silver	0.00190	0.00200	0.00200	0	95.1	70	130			

Sample ID	**CCV6-140402**	Batch ID:	**R80451**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150706B**	Analysis Date:	**7/6/2015 7:44:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.198	0.00500	0.200	0	99.2	90	110			
Barium	0.196	0.0100	0.200	0	97.9	90	110			
Cadmium	0.195	0.00100	0.200	0	97.7	90	110			
Chromium	0.205	0.00500	0.200	0	103	90	110			
Selenium	0.200	0.00500	0.200	0	100	90	110			
Silver	0.195	0.00200	0.200	0	97.4	90	110			

Sample ID	**LCVL6-140402**	Batch ID:	**R80451**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150706B**	Analysis Date:	**7/6/2015 7:48:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00463	0.00500	0.00500	0	92.6	70	130			
Barium	0.00482	0.0100	0.00500	0	96.4	70	130			
Cadmium	0.000963	0.00100	0.00100	0	96.3	70	130			
Chromium	0.00519	0.00500	0.00500	0	104	70	130			
Selenium	0.00519	0.00500	0.00500	0	104	70	130			
Silver	0.00189	0.00200	0.00200	0	94.4	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150707B**

The QC data in batch 70316 applies to the following samples: 1506310-10B, 1506310-11B, 1506310-17B, 1506310-18B, 1506310-19B, 1506310-20B, 1506310-21B, 1506310-22B, 1506310-23B, 1506310-24B, 1506310-25B, 1506310-26B, 1506310-27B, 1506310-28B, 1506310-29B, 1506310-31B, 1506310-32C, 1506310-33C, 1506310-34C

Sample ID **MB-70316** Batch ID: **70316** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 11:16:00 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	<0.100	0.300								

Sample ID **LCS-70316** Batch ID: **70316** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 11:18:00 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	50.3	0.300	50.00	0	101	80	120			

Sample ID **LCSD-70316** Batch ID: **70316** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 11:20:00 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	52.1	0.300	50.00	0	104	80	120	3.43	20	

Sample ID **1506310-27B SD** Batch ID: **70316** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 11:25:00 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	865	16.5	0	857.1				0.955	10	

Sample ID **1506310-27B PDS** Batch ID: **70316** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 11:45:00 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	1480	3.31	551.7	857.1	112	80	120			

Sample ID **1506310-27B MS** Batch ID: **70316** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 11:47:00 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	826	3.10	51.75	857.1	-60.6	80	120			S

Sample ID **1506310-27B MSD** Batch ID: **70316** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 11:49:00 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	987	3.37	56.23	857.1	231	80	120	17.8	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150707B**

The QC data in batch 70325 applies to the following samples: 1506310-12B, 1506310-13B, 1506310-14B, 1506310-15B, 1506310-16B, 1506310-30A, 1506310-36C

Sample ID **MB-70325** Batch ID: **70325** TestNo: **SW6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 12:46:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.00200	0.00500								
Barium	<0.00300	0.0100								
Cadmium	<0.000300	0.00100								
Chromium	<0.00200	0.00500								
Lead	<0.000300	0.00100								
Selenium	<0.00200	0.00500								
Silver	<0.00100	0.00200								

Sample ID **LCS-70325** Batch ID: **70325** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 12:48:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.203	0.00500	0.200	0	102	80	120			
Barium	0.193	0.0100	0.200	0	96.4	80	120			
Cadmium	0.193	0.00100	0.200	0	96.4	80	120			
Chromium	0.198	0.00500	0.200	0	98.8	80	120			
Lead	0.199	0.00100	0.200	0	99.3	80	120			
Selenium	0.205	0.00500	0.200	0	102	80	120			
Silver	0.194	0.00200	0.200	0	97.2	80	120			

Sample ID **LCSD-70325** Batch ID: **70325** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 12:50:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.214	0.00500	0.200	0	107	80	120	4.91	15	
Barium	0.199	0.0100	0.200	0	99.3	80	120	2.96	15	
Cadmium	0.198	0.00100	0.200	0	99.2	80	120	2.95	15	
Chromium	0.196	0.00500	0.200	0	97.9	80	120	0.978	15	
Lead	0.199	0.00100	0.200	0	99.4	80	120	0.133	15	
Selenium	0.216	0.00500	0.200	0	108	80	120	5.00	15	
Silver	0.197	0.00200	0.200	0	98.6	80	120	1.41	15	

Sample ID **1506310-16B SD** Batch ID: **70325** TestNo: **SW6020A** Units: **mg/L**
SampType: **SD** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 12:56:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.0100	0.0250	0	0.00594				0	10	
Barium	0.0997	0.0500	0	0.100				0.347	10	
Cadmium	<0.00150	0.00500	0	0				0	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150707B**

Sample ID **1506310-16B SD** Batch ID: **70325** TestNo: **SW6020A** Units: **mg/L**
SampType: **SD** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 12:56:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	<0.0100	0.0250	0	0				0	10	
Lead	<0.00150	0.00500	0	0.000667				0	10	
Selenium	<0.0100	0.0250	0	0				0	10	
Silver	<0.00500	0.0100	0	0				0	10	

Sample ID **1506310-16B PDS** Batch ID: **70325** TestNo: **SW6020A** Units: **mg/L**
SampType: **PDS** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 1:18:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.198	0.00500	0.200	0.00594	96.2	80	120			
Barium	0.270	0.0100	0.200	0.100	84.8	80	120			
Cadmium	0.173	0.00100	0.200	0	86.3	80	120			
Chromium	0.178	0.00500	0.200	0	88.9	80	120			
Lead	0.189	0.00100	0.200	0.000667	94.3	80	120			
Selenium	0.196	0.00500	0.200	0	97.8	80	120			
Silver	0.165	0.00200	0.200	0	82.5	80	120			

Sample ID **1506310-16B MS** Batch ID: **70325** TestNo: **SW6020A** Units: **mg/L**
SampType: **MS** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 1:20:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.204	0.00500	0.200	0.00594	99.1	80	120			
Barium	0.273	0.0100	0.200	0.100	86.7	80	120			
Cadmium	0.172	0.00100	0.200	0	86.2	80	120			
Chromium	0.170	0.00500	0.200	0	84.8	80	120			
Lead	0.184	0.00100	0.200	0.000667	91.8	80	120			
Selenium	0.205	0.00500	0.200	0	102	80	120			
Silver	0.162	0.00200	0.200	0	81.0	80	120			

Sample ID **1506310-16B MSD** Batch ID: **70325** TestNo: **SW6020A** Units: **mg/L**
SampType: **MSD** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 1:22:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.205	0.00500	0.200	0.00594	99.7	80	120	0.582	15	
Barium	0.268	0.0100	0.200	0.100	84.1	80	120	1.93	15	
Cadmium	0.170	0.00100	0.200	0	84.8	80	120	1.70	15	
Chromium	0.168	0.00500	0.200	0	84.1	80	120	0.891	15	
Lead	0.184	0.00100	0.200	0.000667	91.6	80	120	0.233	15	
Selenium	0.202	0.00500	0.200	0	101	80	120	1.52	15	
Silver	0.159	0.00200	0.200	0	79.7	80	120	1.51	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150707B**

Sample ID **ICV-150707** Batch ID: **R80465** TestNo: **SW6020A** Units: **mg/L**
SampType: **ICV** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 11:05:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.104	0.00500	0.100	0	104	90	110			
Barium	0.0967	0.0100	0.100	0	96.7	90	110			
Cadmium	0.0975	0.00100	0.100	0	97.5	90	110			
Chromium	0.101	0.00500	0.100	0	101	90	110			
Lead	0.100	0.00100	0.100	0	100	90	110			
Selenium	0.103	0.00500	0.100	0	103	90	110			
Silver	0.0977	0.00200	0.100	0	97.7	90	110			

Sample ID **LCVL-150707** Batch ID: **R80465** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 11:10:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00545	0.00500	0.00500	0	109	70	130			
Barium	0.00478	0.0100	0.00500	0	95.6	70	130			
Cadmium	0.000957	0.00100	0.00100	0	95.7	70	130			
Chromium	0.00510	0.00500	0.00500	0	102	70	130			
Lead	0.00104	0.00100	0.00100	0	104	70	130			
Selenium	0.00548	0.00500	0.00500	0	110	70	130			
Silver	0.00191	0.00200	0.00200	0	95.6	70	130			

Sample ID **CCV1-150707** Batch ID: **R80465** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 11:51:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.202	0.0100	0.200	0	101	90	110			
Lead	0.209	0.00100	0.200	0	105	90	110			

Sample ID **LCVL1-150707** Batch ID: **R80465** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 11:58:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00466	0.0100	0.00500	0	93.1	70	130			
Lead	0.00127	0.00100	0.00100	0	127	70	130			

Sample ID **CCV2-150707** Batch ID: **R80465** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 12:24:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.211	0.00500	0.200	0	106	90	110			
Barium	0.200	0.0100	0.200	0	100	90	110			
Cadmium	0.201	0.00100	0.200	0	101	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150707B**

Sample ID **CCV2-150707** Batch ID: **R80465** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 12:24:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.202	0.00500	0.200	0	101	90	110			
Lead	0.204	0.00100	0.200	0	102	90	110			
Selenium	0.210	0.00500	0.200	0	105	90	110			
Silver	0.200	0.00200	0.200	0	100	90	110			

Sample ID **LCVL2-150707** Batch ID: **R80465** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 12:31:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00497	0.00500	0.00500	0	99.5	70	130			
Barium	0.00480	0.0100	0.00500	0	95.9	70	130			
Cadmium	0.000985	0.00100	0.00100	0	98.5	70	130			
Chromium	0.00504	0.00500	0.00500	0	101	70	130			
Lead	0.00127	0.00100	0.00100	0	127	70	130			
Selenium	0.00504	0.00500	0.00500	0	101	70	130			
Silver	0.00193	0.00200	0.00200	0	96.3	70	130			

Sample ID **CCV3-150707** Batch ID: **R80465** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 1:28:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.206	0.00500	0.200	0	103	90	110			
Barium	0.188	0.0100	0.200	0	94.1	90	110			
Cadmium	0.188	0.00100	0.200	0	93.8	90	110			
Chromium	0.187	0.00500	0.200	0	93.4	90	110			
Lead	0.191	0.00100	0.200	0	95.5	90	110			
Selenium	0.210	0.00500	0.200	0	105	90	110			
Silver	0.184	0.00200	0.200	0	91.9	90	110			

Sample ID **LCVL3-150707** Batch ID: **R80465** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150707B** Analysis Date: **7/7/2015 1:38:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00523	0.00500	0.00500	0	105	70	130			
Barium	0.00446	0.0100	0.00500	0	89.2	70	130			
Cadmium	0.000846	0.00100	0.00100	0	84.6	70	130			
Chromium	0.00473	0.00500	0.00500	0	94.6	70	130			
Lead	0.000892	0.00100	0.00100	0	89.2	70	130			
Selenium	0.00549	0.00500	0.00500	0	110	70	130			
Silver	0.00178	0.00200	0.00200	0	88.8	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150707B**

Sample ID	**CCV4-150707**	Batch ID:	**R80465**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150707B**	Analysis Date:	**7/7/2015 2:05:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.213	0.00500	0.200	0	106	90	110			
Barium	0.189	0.0100	0.200	0	94.5	90	110			
Cadmium	0.190	0.00100	0.200	0	94.9	90	110			
Chromium	0.190	0.00500	0.200	0	94.8	90	110			
Lead	0.191	0.00100	0.200	0	95.4	90	110			
Selenium	0.213	0.00500	0.200	0	107	90	110			
Silver	0.189	0.00200	0.200	0	94.4	90	110			

Sample ID	**LCVL4-150707**	Batch ID:	**R80465**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150707B**	Analysis Date:	**7/7/2015 2:15:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00515	0.00500	0.00500	0	103	70	130			
Barium	0.00438	0.0100	0.00500	0	87.6	70	130			
Cadmium	0.000910	0.00100	0.00100	0	91.0	70	130			
Chromium	0.00473	0.00500	0.00500	0	94.6	70	130			
Lead	0.000869	0.00100	0.00100	0	86.9	70	130			
Selenium	0.00507	0.00500	0.00500	0	101	70	130			
Silver	0.00181	0.00200	0.00200	0	90.6	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150707D**

The QC data in batch 70261 applies to the following samples: 1506310-01A, 1506310-02A, 1506310-03A, 1506310-04A, 1506310-05A, 1506310-06B, 1506310-07B, 1506310-08B

Sample ID **MB-70261** Batch ID: **70261** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 5:58:00 PM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Lead	0.104	0.300								
Selenium	<0.150	0.500								
Silver	<0.100	0.200								

Sample ID **LCS-70261** Batch ID: **70261** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 6:00:00 PM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.4	1.00	50.00	0	101	80	120			
Barium	48.9	2.00	50.00	0	97.7	80	120			
Cadmium	48.7	0.300	50.00	0	97.5	80	120			
Chromium	51.2	2.00	50.00	0	102	80	120			
Lead	49.8	0.300	50.00	0	99.5	80	120			
Selenium	50.4	0.500	50.00	0	101	80	120			
Silver	50.6	0.200	50.00	0	101	80	120			

Sample ID **LCSD-70261** Batch ID: **70261** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 6:02:00 PM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	51.2	1.00	50.00	0	102	80	120	1.66	20	
Barium	50.6	2.00	50.00	0	101	80	120	3.49	20	
Cadmium	50.7	0.300	50.00	0	101	80	120	3.96	20	
Chromium	51.9	2.00	50.00	0	104	80	120	1.39	20	
Lead	50.5	0.300	50.00	0	101	80	120	1.49	20	
Selenium	50.6	0.500	50.00	0	101	80	120	0.551	20	
Silver	52.3	0.200	50.00	0	105	80	120	3.33	20	

Sample ID **1506310-01A SD** Batch ID: **70261** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 6:08:00 PM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<25.0	50.1	0	0				0	10	
Barium	138	100	0	140.3				2.00	10	
Cadmium	<5.01	15.0	0	0				0	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150707D**

Sample ID **1506310-01A SD** Batch ID: **70261** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 6:08:00 PM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	<25.0	100	0	17.59				0	10	
Lead	152	15.0	0	149.3				1.75	10	
Selenium	<7.51	25.0	0	0				0	10	
Silver	<5.01	10.0	0	0				0	10	

Sample ID **1506310-01A PDS** Batch ID: **70261** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 6:28:00 PM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	526	10.0	501.0	0	105	80	120			
Barium	654	20.0	501.0	140.3	103	80	120			
Cadmium	511	3.01	501.0	0	102	80	120			
Chromium	540	20.0	501.0	17.59	104	80	120			
Lead	682	3.01	501.0	149.3	106	80	120			
Selenium	507	5.01	501.0	0	101	80	120			
Silver	533	2.00	501.0	0	106	80	120			

Sample ID **1506310-01A MS** Batch ID: **70261** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 6:30:00 PM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	55.2	10.2	51.06	0	108	80	120			
Barium	201	20.4	51.06	140.3	120	80	120			
Cadmium	50.5	3.06	51.06	0	99.0	80	120			
Chromium	63.8	20.4	51.06	17.59	90.6	80	120			
Lead	216	3.06	51.06	149.3	131	80	120			S
Selenium	51.6	5.11	51.06	0	101	80	120			
Silver	50.4	2.04	51.06	0	98.7	80	120			

Sample ID **1506310-01A MSD** Batch ID: **70261** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 6:31:00 PM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	55.5	10.3	51.56	0	108	80	120	0.503	20	
Barium	180	20.6	51.56	140.3	76.6	80	120	11.4	20	S
Cadmium	50.9	3.09	51.56	0	98.8	80	120	0.759	20	
Chromium	67.5	20.6	51.56	17.59	96.8	80	120	5.55	20	
Lead	187	3.09	51.56	149.3	72.5	80	120	14.7	20	S
Selenium	50.7	5.16	51.56	0	98.4	80	120	1.67	20	
Silver	50.7	2.06	51.56	0	98.4	80	120	0.702	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150707D**

Sample ID **ICV2-150707** Batch ID: **R80483** TestNo: **SW6020A** Units: **mg/L**
SampType: **ICV** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 5:48:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.100	0.00500	0.100	0	100	90	110			
Barium	0.0993	0.0100	0.100	0	99.3	90	110			
Cadmium	0.100	0.00100	0.100	0	100	90	110			
Chromium	0.103	0.00500	0.100	0	103	90	110			
Lead	0.0995	0.00100	0.100	0	99.5	90	110			
Selenium	0.0983	0.00500	0.100	0	98.3	90	110			
Silver	0.102	0.00200	0.100	0	102	90	110			

Sample ID **ILCVL2-150707** Batch ID: **R80483** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 5:52:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00488	0.00500	0.00500	0	97.6	70	130			
Barium	0.00480	0.0100	0.00500	0	95.9	70	130			
Cadmium	0.000987	0.00100	0.00100	0	98.7	70	130			
Chromium	0.00514	0.00500	0.00500	0	103	70	130			
Lead	0.00105	0.00100	0.00100	0	105	70	130			
Selenium	0.00424	0.00500	0.00500	0	84.9	70	130			
Silver	0.00196	0.00200	0.00200	0	98.0	70	130			

Sample ID **CCV1-150707** Batch ID: **R80483** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 6:41:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.200	0.00500	0.200	0	99.8	90	110			
Barium	0.197	0.0100	0.200	0	98.6	90	110			
Cadmium	0.200	0.00100	0.200	0	99.8	90	110			
Chromium	0.204	0.00500	0.200	0	102	90	110			
Lead	0.199	0.00100	0.200	0	99.6	90	110			
Selenium	0.199	0.00500	0.200	0	99.7	90	110			
Silver	0.203	0.00200	0.200	0	102	90	110			

Sample ID **LCVL1-150707** Batch ID: **R80483** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 6:51:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00485	0.00500	0.00500	0	97.0	70	130			
Barium	0.00482	0.0100	0.00500	0	96.5	70	130			
Cadmium	0.00100	0.00100	0.00100	0	100	70	130			
Chromium	0.00512	0.00500	0.00500	0	102	70	130			
Lead	0.00126	0.00100	0.00100	0	126	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150707D**

Sample ID **LCVL1-150707** Batch ID: **R80483** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 6:51:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.00394	0.00500	0.00500	0	78.9	70	130			
Silver	0.00196	0.00200	0.00200	0	98.2	70	130			

Sample ID **CCV2-150707** Batch ID: **R80483** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 7:23:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.200	0.00500	0.200	0	100	90	110			
Barium	0.200	0.0100	0.200	0	99.9	90	110			
Cadmium	0.200	0.00100	0.200	0	100	90	110			
Chromium	0.201	0.00500	0.200	0	101	90	110			
Lead	0.199	0.00100	0.200	0	99.3	90	110			
Selenium	0.200	0.00500	0.200	0	99.8	90	110			
Silver	0.204	0.00200	0.200	0	102	90	110			

Sample ID **LCVL2-150707** Batch ID: **R80483** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150707D** Analysis Date: **7/7/2015 7:33:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00485	0.00500	0.00500	0	97.0	70	130			
Barium	0.00470	0.0100	0.00500	0	94.0	70	130			
Cadmium	0.000981	0.00100	0.00100	0	98.1	70	130			
Chromium	0.00513	0.00500	0.00500	0	103	70	130			
Lead	0.00129	0.00100	0.00100	0	129	70	130			
Selenium	0.00419	0.00500	0.00500	0	83.9	70	130			
Silver	0.00197	0.00200	0.00200	0	98.6	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150708B**

The QC data in batch 70338 applies to the following samples: 1506310-35C

Sample ID **MB-70338** Batch ID: **70338** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS4_150708B** Analysis Date: **7/8/2015 11:57:00 AM** Prep Date: **7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Lead	0.101	0.300								
Selenium	<0.150	0.500								
Silver	<0.100	0.200								

Sample ID **LCS-70338** Batch ID: **70338** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS4_150708B** Analysis Date: **7/8/2015 12:05:00 PM** Prep Date: **7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.6	1.00	50.00	0	101	80	120			
Barium	50.1	2.00	50.00	0	100	80	120			
Cadmium	49.9	0.300	50.00	0	99.7	80	120			
Chromium	51.2	2.00	50.00	0	102	80	120			
Lead	50.8	0.300	50.00	0	102	80	120			
Selenium	49.5	0.500	50.00	0	99.0	80	120			
Silver	51.8	0.200	50.00	0	104	80	120			

Sample ID **LCSD-70338** Batch ID: **70338** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS4_150708B** Analysis Date: **7/8/2015 12:07:00 PM** Prep Date: **7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.4	1.00	50.00	0	101	80	120	0.393	20	
Barium	50.3	2.00	50.00	0	101	80	120	0.490	20	
Cadmium	50.9	0.300	50.00	0	102	80	120	1.97	20	
Chromium	51.1	2.00	50.00	0	102	80	120	0.283	20	
Lead	50.9	0.300	50.00	0	102	80	120	0.326	20	
Selenium	49.7	0.500	50.00	0	99.5	80	120	0.505	20	
Silver	52.7	0.200	50.00	0	105	80	120	1.73	20	

Sample ID **1507025-02A SD** Batch ID: **70338** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS4_150708B** Analysis Date: **7/8/2015 12:13:00 PM** Prep Date: **7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	28.2	4.45	0	28.04				0.678	10	
Barium	109	8.90	0	109.5				0.041	10	
Cadmium	3.67	1.33	0	3.583				2.25	10	
Chromium	8.75	8.90	0	8.437				3.69	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150708B**

Sample ID	**1507025-02A SD**	Batch ID:	**70338**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**SD**	Run ID:	**ICP-MS4_150708B**	Analysis Date:	**7/8/2015 12:13:00 PM**	Prep Date:	**7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	211	1.33	0	213.0				0.714	10	
Selenium	1.10	2.22	0	1.149				4.41	10	
Silver	2.08	0.890	0	2.019				2.80	10	

Sample ID	**1507025-02A PDS**	Batch ID:	**70338**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**PDS**	Run ID:	**ICP-MS4_150708B**	Analysis Date:	**7/8/2015 12:32:00 PM**	Prep Date:	**7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	75.3	0.890	44.49	28.04	106	80	120			
Barium	161	1.78	44.49	109.5	116	80	120			
Cadmium	50.0	0.267	44.49	3.583	104	80	120			
Chromium	55.1	1.78	44.49	8.437	105	80	120			
Lead	265	0.267	44.49	213.0	118	80	120			
Selenium	45.9	0.445	44.49	1.149	100	80	120			
Silver	50.0	0.178	44.49	2.019	108	80	120			

Sample ID	**1507025-02A MS**	Batch ID:	**70338**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**ICP-MS4_150708B**	Analysis Date:	**7/8/2015 12:34:00 PM**	Prep Date:	**7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	74.4	0.948	47.40	28.04	97.8	80	120			
Barium	166	1.90	47.40	109.5	119	80	120			
Cadmium	51.0	0.284	47.40	3.583	100	80	120			
Chromium	54.9	1.90	47.40	8.437	97.9	80	120			
Lead	270	0.284	47.40	213.0	119	80	120			
Selenium	46.8	0.474	47.40	1.149	96.3	80	120			
Silver	50.5	0.190	47.40	2.019	102	80	120			

Sample ID	**1507025-02A MSD**	Batch ID:	**70338**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**ICP-MS4_150708B**	Analysis Date:	**7/8/2015 12:36:00 PM**	Prep Date:	**7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	75.6	0.957	47.85	28.04	99.5	80	120	1.67	20	
Barium	182	1.91	47.85	109.5	151	80	120	9.04	20	S
Cadmium	50.9	0.287	47.85	3.583	98.8	80	120	0.301	20	
Chromium	55.8	1.91	47.85	8.437	99.0	80	120	1.74	20	
Lead	273	0.287	47.85	213.0	125	80	120	1.26	20	S
Selenium	47.5	0.479	47.85	1.149	96.8	80	120	1.46	20	
Silver	49.8	0.191	47.85	2.019	99.9	80	120	1.21	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150708B**

Sample ID	**ICV-150708**	Batch ID:	**R80492**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**ICP-MS4_150708B**	Analysis Date:	**7/8/2015 11:00:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0994	0.00500	0.100	0	99.4	90	110			
Barium	0.0985	0.0100	0.100	0	98.5	90	110			
Cadmium	0.0982	0.00100	0.100	0	98.2	90	110			
Chromium	0.102	0.00500	0.100	0	102	90	110			
Lead	0.103	0.00100	0.100	0	103	90	110			
Selenium	0.0980	0.00500	0.100	0	98.0	90	110			
Silver	0.102	0.00200	0.100	0	102	90	110			

Sample ID	**LCVL-150708**	Batch ID:	**R80492**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150708B**	Analysis Date:	**7/8/2015 11:05:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00497	0.00500	0.00500	0	99.4	70	130			
Barium	0.00490	0.0100	0.00500	0	98.0	70	130			
Cadmium	0.00103	0.00100	0.00100	0	103	70	130			
Chromium	0.00508	0.00500	0.00500	0	102	70	130			
Lead	0.00106	0.00100	0.00100	0	106	70	130			
Selenium	0.00477	0.00500	0.00500	0	95.4	70	130			
Silver	0.00201	0.00200	0.00200	0	100	70	130			

Sample ID	**CCV1-150708**	Batch ID:	**R80492**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150708B**	Analysis Date:	**7/8/2015 11:42:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.205	0.00500	0.200	0	102	90	110			
Barium	0.199	0.0100	0.200	0	99.3	90	110			
Cadmium	0.201	0.00100	0.200	0	101	90	110			
Chromium	0.203	0.00500	0.200	0	102	90	110			
Lead	0.204	0.00100	0.200	0	102	90	110			
Selenium	0.202	0.00500	0.200	0	101	90	110			
Silver	0.206	0.00200	0.200	0	103	90	110			

Sample ID	**LCVL1-150708**	Batch ID:	**R80492**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150708B**	Analysis Date:	**7/8/2015 11:52:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00498	0.00500	0.00500	0	99.6	70	130			
Barium	0.00492	0.0100	0.00500	0	98.5	70	130			
Cadmium	0.00101	0.00100	0.00100	0	101	70	130			
Chromium	0.00509	0.00500	0.00500	0	102	70	130			
Lead	0.00110	0.00100	0.00100	0	110	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150708B**

Sample ID	**LCVL1-150708**	Batch ID:	**R80492**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150708B**	Analysis Date:	**7/8/2015 11:52:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.00477	0.00500	0.00500	0	95.5	70	130			
Silver	0.00201	0.00200	0.00200	0	100	70	130			

Sample ID	**CCV2-150708**	Batch ID:	**R80492**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150708B**	Analysis Date:	**7/8/2015 12:38:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.205	0.00500	0.200	0	102	90	110			
Barium	0.201	0.0100	0.200	0	100	90	110			
Cadmium	0.203	0.00100	0.200	0	101	90	110			
Chromium	0.201	0.00500	0.200	0	100	90	110			
Lead	0.205	0.00100	0.200	0	102	90	110			
Selenium	0.201	0.00500	0.200	0	100	90	110			
Silver	0.210	0.00200	0.200	0	105	90	110			

Sample ID	**LCVL2-150708**	Batch ID:	**R80492**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150708B**	Analysis Date:	**7/8/2015 12:50:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00484	0.00500	0.00500	0	96.9	70	130			
Barium	0.00484	0.0100	0.00500	0	96.8	70	130			
Cadmium	0.00100	0.00100	0.00100	0	100	70	130			
Chromium	0.00509	0.00500	0.00500	0	102	70	130			
Lead	0.00115	0.00100	0.00100	0	115	70	130			
Selenium	0.00531	0.00500	0.00500	0	106	70	130			
Silver	0.00198	0.00200	0.00200	0	99.0	70	130			

Sample ID	**CCV3-150708**	Batch ID:	**R80492**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150708B**	Analysis Date:	**7/8/2015 1:13:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.205	0.00500	0.200	0	102	90	110			
Barium	0.201	0.0100	0.200	0	101	90	110			
Cadmium	0.202	0.00100	0.200	0	101	90	110			
Chromium	0.202	0.00500	0.200	0	101	90	110			
Lead	0.201	0.00100	0.200	0	101	90	110			
Selenium	0.202	0.00500	0.200	0	101	90	110			
Silver	0.207	0.00200	0.200	0	104	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150708B**

Sample ID	**LCVL3-150708**	Batch ID:	**R80492**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150708B**	Analysis Date:	**7/8/2015 1:20:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00487	0.00500	0.00500	0	97.3	70	130			
Barium	0.00480	0.0100	0.00500	0	96.0	70	130			
Cadmium	0.000984	0.00100	0.00100	0	98.4	70	130			
Chromium	0.00512	0.00500	0.00500	0	102	70	130			
Lead	0.00125	0.00100	0.00100	0	125	70	130			
Selenium	0.00503	0.00500	0.00500	0	101	70	130			
Silver	0.00200	0.00200	0.00200	0	99.9	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS4_150422B**

Sample ID	**DCS-69050**	Batch ID:	**69050**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**GCMS4_150422B**	Analysis Date:	**4/22/2015 2:42:00 PM**	Prep Date:	**4/9/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00721	0.0100	0.01000	0	72.1	20	200	0	0	
Acenaphthylene	0.00920	0.0100	0.01000	0	92.0	20	200	0	0	
Anthracene	0.00829	0.0100	0.01000	0	82.9	20	200	0	0	
Benzo[a]anthracene	0.00650	0.0100	0.01000	0	65.0	20	200	0	0	
Benzo[a]pyrene	0.00964	0.0100	0.01000	0	96.4	20	200	0	0	
Benzo[b]fluoranthene	0.00845	0.0100	0.01000	0	84.5	20	200	0	0	
Benzo[g,h,i]perylene	0.00636	0.0100	0.01000	0	63.6	20	200	0	0	
Benzo[k]fluoranthene	0.00761	0.0100	0.01000	0	76.1	20	200	0	0	
Chrysene	0.00300	0.0100	0.01000	0	30.0	20	200	0	0	
Dibenz[a,h]anthracene	0.00785	0.0100	0.01000	0	78.5	20	200	0	0	
Fluoranthene	0.00543	0.0100	0.01000	0	54.3	20	200	0	0	
Fluorene	0.00817	0.0100	0.01000	0	81.7	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.00871	0.0100	0.01000	0	87.1	20	200	0	0	
Naphthalene	0.00651	0.0100	0.01000	0	65.1	20	200	0	0	
Phenanthrene	0.00588	0.0100	0.01000	0	58.8	20	200	0	0	
Pyrene	0.00645	0.0100	0.01000	0	64.5	20	200	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS4_150708A**

The QC data in batch 70332 applies to the following samples: 1506310-01B, 1506310-02A, 1506310-03A, 1506310-04A, 1506310-05A, 1506310-29C, 1506310-31C

Sample ID **LCS-70332** Batch ID: **70332** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS4_150708A** Analysis Date: **7/8/2015 10:41:00 AM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.900	0.0100	1.000	0	90.0	46	125			
Acenaphthylene	0.865	0.0100	1.000	0	86.5	44	125			
Anthracene	0.997	0.0100	1.000	0	99.7	53	125			
Benzo[a]anthracene	1.07	0.0100	1.000	0	107	52	125			
Benzo[a]pyrene	1.03	0.0100	1.000	0	103	50	125			
Benzo[b]fluoranthene	1.00	0.0100	1.000	0	100	45	125			
Benzo[g,h,i]perylene	1.06	0.0100	1.000	0	106	38	126			
Benzo[k]fluoranthene	1.01	0.0100	1.000	0	101	45	125			
Chrysene	0.951	0.0100	1.000	0	95.1	53	125			
Dibenz[a,h]anthracene	1.01	0.0100	1.000	0	101	41	125			
Fluoranthene	0.908	0.0100	1.000	0	90.8	54	125			
Fluorene	0.933	0.0100	1.000	0	93.3	49	125			
Indeno[1,2,3-cd]pyrene	1.06	0.0100	1.000	0	106	38	125			
Naphthalene	0.826	0.0100	1.000	0	82.6	40	125			
Phenanthrene	0.889	0.0100	1.000	0	88.9	50	125			
Pyrene	1.01	0.0100	1.000	0	101	46	125			
Surr: 2-Fluorobiphenyl	0.789		1.000		78.9	43	125			
Surr: 4-Terphenyl-d14	0.747		1.000		74.7	32	125			

Sample ID **MB-70332** Batch ID: **70332** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS4_150708A** Analysis Date: **7/8/2015 12:45:00 PM** Prep Date: **7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100								
Acenaphthylene	<0.00500	0.0100								
Anthracene	<0.00500	0.0100								
Benzo[a]anthracene	<0.00500	0.0100								
Benzo[a]pyrene	<0.00500	0.0100								
Benzo[b]fluoranthene	<0.00500	0.0100								
Benzo[g,h,i]perylene	<0.00500	0.0100								
Benzo[k]fluoranthene	<0.00500	0.0100								
Chrysene	<0.00500	0.0100								
Dibenz[a,h]anthracene	<0.00500	0.0100								
Fluoranthene	<0.00500	0.0100								
Fluorene	<0.00500	0.0100								
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100								
Naphthalene	<0.00500	0.0100								
Phenanthrene	<0.00500	0.0100								
Pyrene	<0.00500	0.0100								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS4_150708A**

Sample ID	**MB-70332**	Batch ID:	**70332**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**GCMS4_150708A**	Analysis Date:	**7/8/2015 12:45:00 PM**	Prep Date:	**7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	0.850		1.000		85.0	43	125			
Surr: 4-Terphenyl-d14	0.871		1.000		87.1	32	125			

Sample ID	**1506310-01BMS**	Batch ID:	**70332**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**GCMS4_150708A**	Analysis Date:	**7/8/2015 7:56:00 PM**	Prep Date:	**7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.822	0.201	1.007	0	81.7	46	125			
Acenaphthylene	0.786	0.201	1.007	0	78.1	44	125			
Anthracene	0.904	0.201	1.007	0	89.8	53	125			
Benzo[a]anthracene	1.38	0.201	1.007	0.6907	68.3	52	125			
Benzo[a]pyrene	1.40	0.201	1.007	0.7928	59.9	50	125			
Benzo[b]fluoranthene	1.56	0.201	1.007	1.034	52.2	45	125			
Benzo[g,h,i]perylene	0.984	0.201	1.007	0.7229	26.0	38	126			S
Benzo[k]fluoranthene	1.28	0.201	1.007	0.6081	66.9	45	125			
Chrysene	1.28	0.201	1.007	0.7460	53.4	53	125			
Dibenz[a,h]anthracene	0.826	0.201	1.007	0	82.0	41	125			
Fluoranthene	1.60	0.201	1.007	1.209	38.8	54	125			S
Fluorene	0.816	0.201	1.007	0	81.1	49	125			
Indeno[1,2,3-cd]pyrene	1.19	0.201	1.007	0.7939	38.9	38	125			
Naphthalene	0.774	0.201	1.007	0	76.9	40	125			
Phenanthrene	1.07	0.201	1.007	0.4686	59.3	50	125			
Pyrene	1.65	0.201	1.007	1.087	55.8	46	125			
Surr: 2-Fluorobiphenyl	0.714		1.007		70.9	43	125			
Surr: 4-Terphenyl-d14	0.682		1.007		67.7	32	125			

Sample ID	**1506310-01BMSD**	Batch ID:	**70332**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**GCMS4_150708A**	Analysis Date:	**7/8/2015 8:27:00 PM**	Prep Date:	**7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.889	0.203	1.017	0	87.4	46	125	7.86	30	
Acenaphthylene	0.868	0.203	1.017	0	85.3	44	125	9.92	30	
Anthracene	1.00	0.203	1.017	0	98.3	53	125	10.1	30	
Benzo[a]anthracene	1.48	0.203	1.017	0.6907	77.3	52	125	6.93	30	
Benzo[a]pyrene	1.53	0.203	1.017	0.7928	72.0	50	125	8.89	30	
Benzo[b]fluoranthene	1.77	0.203	1.017	1.034	71.8	45	125	12.3	30	
Benzo[g,h,i]perylene	1.14	0.203	1.017	0.7229	40.9	38	126	14.5	30	
Benzo[k]fluoranthene	1.37	0.203	1.017	0.6081	75.0	45	125	6.69	30	
Chrysene	1.37	0.203	1.017	0.7460	61.0	53	125	6.32	30	
Dibenz[a,h]anthracene	0.865	0.203	1.017	0	85.0	41	125	4.64	30	
Fluoranthene	1.69	0.203	1.017	1.209	46.8	54	125	5.21	30	S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS4_150708A**

Sample ID	**1506310-01BMSD**	Batch ID:	**70332**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**GCMS4_150708A**	Analysis Date:	**7/8/2015 8:27:00 PM**	Prep Date:	**7/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	0.921	0.203	1.017	0	90.6	49	125	12.1	30	
Indeno[1,2,3-cd]pyrene	1.23	0.203	1.017	0.7939	42.9	38	125	3.73	30	
Naphthalene	0.835	0.203	1.017	0	82.0	40	125	7.54	30	
Phenanthrene	1.20	0.203	1.017	0.4686	71.7	50	125	11.7	30	
Pyrene	1.71	0.203	1.017	1.087	60.8	46	125	3.39	30	
Surr: 2-Fluorobiphenyl	0.793		1.017		78.0	43	125	0	0	
Surr: 4-Terphenyl-d14	0.756		1.017		74.4	32	125	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS4_150708A**

Sample ID	**ICV-150708**	Batch ID:	**R80484**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS4_150708A**	Analysis Date:	**7/8/2015 9:33:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.99	0.0100	2.000	0	99.6	80	120			
Acenaphthylene	1.95	0.0100	2.000	0	97.6	80	120			
Anthracene	2.14	0.0100	2.000	0	107	80	120			
Benzo[a]anthracene	2.22	0.0100	2.000	0	111	80	120			
Benzo[a]pyrene	2.18	0.0100	2.000	0	109	80	120			
Benzo[b]fluoranthene	2.29	0.0100	2.000	0	114	80	120			
Benzo[g,h,i]perylene	2.18	0.0100	2.000	0	109	80	120			
Benzo[k]fluoranthene	1.93	0.0100	2.000	0	96.6	80	120			
Chrysene	1.97	0.0100	2.000	0	98.3	80	120			
Dibenz[a,h]anthracene	2.20	0.0100	2.000	0	110	80	120			
Fluoranthene	1.98	0.0100	2.000	0	98.8	80	120			
Fluorene	2.00	0.0100	2.000	0	100	80	120			
Indeno[1,2,3-cd]pyrene	2.22	0.0100	2.000	0	111	80	120			
Naphthalene	1.90	0.0100	2.000	0	94.9	80	120			
Phenanthrene	1.89	0.0100	2.000	0	94.7	80	120			
Pyrene	2.36	0.0100	2.000	0	118	80	120			
Surr: 2-Fluorobiphenyl	1.97		2.000		98.6	65	120			
Surr: 4-Terphenyl-d14	2.00		2.000		100	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150504A**

Sample ID	**DCS-69370**	Batch ID:	**69370**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**GCMS6_150504A**	Analysis Date:	**5/4/2015 2:17:00 PM**	Prep Date:	**4/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0000254	0.0000500	0.0000400	0	63.4	20	200	0	0	
Acenaphthylene	0.0000227	0.0000500	0.0000400	0	56.7	20	200	0	0	
Anthracene	0.0000252	0.0000500	0.0000400	0	63.1	20	200	0	0	
Benzo[a]anthracene	0.0000258	0.0000500	0.0000400	0	64.6	20	200	0	0	
Benzo[a]pyrene	0.0000253	0.0000500	0.0000400	0	63.2	20	200	0	0	
Benzo[b]fluoranthene	0.0000277	0.0000500	0.0000400	0	69.4	20	200	0	0	
Benzo[g,h,i]perylene	0.0000266	0.0000500	0.0000400	0	66.6	20	200	0	0	
Benzo[k]fluoranthene	0.0000278	0.0000500	0.0000400	0	69.4	20	200	0	0	
Chrysene	0.0000341	0.0000500	0.0000400	0	85.3	20	200	0	0	
Dibenz[a,h]anthracene	0.0000275	0.0000500	0.0000400	0	68.8	20	200	0	0	
Fluoranthene	0.0000246	0.0000500	0.0000400	0	61.5	20	200	0	0	
Fluorene	0.0000278	0.0000500	0.0000400	0	69.6	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.0000266	0.0000500	0.0000400	0	66.4	20	200	0	0	
Naphthalene	0.0000357	0.0000500	0.0000400	0	89.4	20	200	0	0	
Phenanthrene	0.0000291	0.0000500	0.0000400	0	72.9	20	200	0	0	
Pyrene	0.0000244	0.0000500	0.0000400	0	61.0	20	200	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150630A**

The QC data in batch 70265 applies to the following samples: 1506310-30B

Sample ID **LCS-70265** Batch ID: **70265** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS6_150630A** Analysis Date: **6/30/2015 12:57:00 PM** Prep Date: **6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00318	0.0000500	0.00400	0	79.4	47	120			
Acenaphthylene	0.00311	0.0000500	0.00400	0	77.8	50	120			
Anthracene	0.00309	0.0000500	0.00400	0	77.2	54	120			
Benzo[a]anthracene	0.00369	0.0000500	0.00400	0	92.2	56	100			
Benzo[a]pyrene	0.00369	0.0000500	0.00400	0	92.2	53	120			
Benzo[b]fluoranthene	0.00387	0.0000500	0.00400	0	96.7	45	124			
Benzo[g,h,i]perylene	0.00365	0.0000500	0.00400	0	91.3	38	123			
Benzo[k]fluoranthene	0.00349	0.0000500	0.00400	0	87.1	45	124			
Chrysene	0.00304	0.0000500	0.00400	0	76.0	55	120			
Dibenz[a,h]anthracene	0.00317	0.0000500	0.00400	0	79.2	42	127			
Fluoranthene	0.00360	0.0000500	0.00400	0	90.0	54	120			
Fluorene	0.00336	0.0000500	0.00400	0	83.9	50	120			
Indeno[1,2,3-cd]pyrene	0.00360	0.0000500	0.00400	0	90.0	43	125			
Naphthalene	0.00304	0.0000500	0.00400	0	76.0	39	120			
Phenanthrene	0.00335	0.0000500	0.00400	0	83.8	51	120			
Pyrene	0.00370	0.0000500	0.00400	0	92.6	49	128			
Surr: 2-Fluorobiphenyl	4.75		8.000		59.3	48	120			
Surr: 4-Terphenyl-d14	4.64		8.000		58.0	51	135			

Sample ID **LCSD-70265** Batch ID: **70265** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **LCSD** Run ID: **GCMS6_150630A** Analysis Date: **6/30/2015 1:38:00 PM** Prep Date: **6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00318	0.0000500	0.00400	0	79.6	47	120	0.154	20	
Acenaphthylene	0.00312	0.0000500	0.00400	0	77.9	50	120	0.163	20	
Anthracene	0.00305	0.0000500	0.00400	0	76.2	54	120	1.27	20	
Benzo[a]anthracene	0.00361	0.0000500	0.00400	0	90.3	56	100	2.08	20	
Benzo[a]pyrene	0.00351	0.0000500	0.00400	0	87.6	53	120	5.06	20	
Benzo[b]fluoranthene	0.00370	0.0000500	0.00400	0	92.4	45	124	4.53	20	
Benzo[g,h,i]perylene	0.00354	0.0000500	0.00400	0	88.5	38	123	3.16	20	
Benzo[k]fluoranthene	0.00353	0.0000500	0.00400	0	88.2	45	124	1.18	20	
Chrysene	0.00284	0.0000500	0.00400	0	71.0	55	120	6.84	20	
Dibenz[a,h]anthracene	0.00324	0.0000500	0.00400	0	81.1	42	127	2.36	20	
Fluoranthene	0.00338	0.0000500	0.00400	0	84.6	54	120	6.17	20	
Fluorene	0.00346	0.0000500	0.00400	0	86.5	50	120	3.05	20	
Indeno[1,2,3-cd]pyrene	0.00352	0.0000500	0.00400	0	87.9	43	125	2.43	20	
Naphthalene	0.00288	0.0000500	0.00400	0	72.0	39	120	5.46	20	
Phenanthrene	0.00335	0.0000500	0.00400	0	83.6	51	120	0.198	20	
Pyrene	0.00351	0.0000500	0.00400	0	87.8	49	128	5.31	20	
Surr: 2-Fluorobiphenyl	4.60		8.000		57.5	48	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150630A**

Sample ID	**LCSD-70265**	Batch ID:	**70265**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**GCMS6_150630A**	Analysis Date:	**6/30/2015 1:38:00 PM**	Prep Date:	**6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	4.63		8.000		57.9	51	135	0	0	

Sample ID	**SB-150630**	Batch ID:	**70265**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**SBLK**	Run ID:	**GCMS6_150630A**	Analysis Date:	**6/30/2015 4:20:00 PM**	Prep Date:	**6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.0000250	0.0000500	0							
Acenaphthylene	<0.0000250	0.0000500	0							
Anthracene	<0.0000250	0.0000500	0							
Benzo[a]anthracene	<0.0000250	0.0000500	0							
Benzo[a]pyrene	<0.0000250	0.0000500	0							
Benzo[b]fluoranthene	<0.0000250	0.0000500	0							
Benzo[g,h,i]perylene	<0.0000250	0.0000500	0							
Benzo[k]fluoranthene	<0.0000250	0.0000500	0							
Chrysene	<0.0000250	0.0000500	0							
Dibenz[a,h]anthracene	<0.0000250	0.0000500	0							
Fluoranthene	<0.0000250	0.0000500	0							
Fluorene	<0.0000250	0.0000500	0							
Indeno[1,2,3-cd]pyrene	<0.0000250	0.0000500	0							
Naphthalene	<0.0000250	0.0000500	0							
Phenanthrene	<0.0000250	0.0000500	0							
Pyrene	<0.0000250	0.0000500	0							
Surr: 2-Fluorobiphenyl	0.00228		0							
Surr: 4-Terphenyl-d14	0.00294		0							

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150630A**

Sample ID	**ICV-150630**	Batch ID:	**R80385**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**GCMS6_150630A**	Analysis Date:	**6/30/2015 12:17:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	2.08	0.0000500	2.00	0	104	80	120			
Acenaphthylene	1.68	0.0000500	2.00	0	84.1	80	120			
Anthracene	1.95	0.0000500	2.00	0	97.7	80	120			
Benzo[a]anthracene	2.05	0.0000500	2.00	0	103	80	120			
Benzo[a]pyrene	1.97	0.0000500	2.00	0	98.3	80	120			
Benzo[b]fluoranthene	2.16	0.0000500	2.00	0	108	80	120			
Benzo[g,h,i]perylene	2.05	0.0000500	2.00	0	102	80	120			
Benzo[k]fluoranthene	2.01	0.0000500	2.00	0	101	80	120			
Chrysene	2.01	0.0000500	2.00	0	101	80	120			
Dibenz[a,h]anthracene	1.98	0.0000500	2.00	0	98.8	80	120			
Fluoranthene	2.09	0.0000500	2.00	0	105	80	120			
Fluorene	2.06	0.0000500	2.00	0	103	80	120			
Indeno[1,2,3-cd]pyrene	2.02	0.0000500	2.00	0	101	80	120			
Naphthalene	2.00	0.0000500	2.00	0	99.9	80	120			
Phenanthrene	1.97	0.0000500	2.00	0	98.4	80	120			
Pyrene	2.09	0.0000500	2.00	0	104	80	120			
Surr: 2-Fluorobiphenyl	1980		2000		98.8	65	120			
Surr: 4-Terphenyl-d14	2080		2000		104	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS8_150415A**

Sample ID	**DCS-69134**	Batch ID:	**69134**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**GCMS8_150415A**	Analysis Date:	**4/15/2015 4:01:00 PM**	Prep Date:	**4/15/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.0526	0.0500	0.05000	0	105	20	400	0	0	
Aroclor 1260	0.0493	0.0500	0.05000	0	98.6	20	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS8_150417B**

Sample ID	**DCS-69185**	Batch ID:	**69185**	TestNo:	**SW8270D**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**GCMS8_150417B**	Analysis Date:	**4/17/2015 1:05:00 PM**	Prep Date:	**4/17/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.000156	0.000250	0.000200	0	77.8	20	400	0	0	
Aroclor 1260	0.000157	0.000250	0.000200	0	78.3	20	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS8_150702A**

The QC data in batch 70309 applies to the following samples: 1506310-06B, 1506310-07C, 1506310-08C, 1506310-09C, 1506310-10C, 1506310-11C, 1506310-17C, 1506310-18C, 1506310-19C, 1506310-20C, 1506310-21C, 1506310-22C, 1506310-23C, 1506310-24C, 1506310-25C

Sample ID **LCS-70309** Batch ID: **70309** TestNo: **SW8270D** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS8_150702A** Analysis Date: **7/2/2015 2:54:00 PM** Prep Date: **7/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	1.08	0.0500	1.000	0	108	41	138			
Aroclor 1260	0.990	0.0500	1.000	0	99.0	61	131			
Surr: 2-Fluorobiphenyl	1.14		1.000		114	43	125			
Surr: 4-Terphenyl-d14	1.03		1.000		103	32	125			

Sample ID **1507014-01CMS** Batch ID: **70309** TestNo: **SW8270D** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GCMS8_150702A** Analysis Date: **7/2/2015 3:24:00 PM** Prep Date: **7/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.953	0.0400	0.8007	0	119	41	138			
Aroclor 1260	0.888	0.0400	0.8007	0	111	61	131			
Surr: 2-Fluorobiphenyl	0.966		0.8007		121	43	125			
Surr: 4-Terphenyl-d14	0.918		0.8007		115	32	125			

Sample ID **1507014-01CMSD** Batch ID: **70309** TestNo: **SW8270D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS8_150702A** Analysis Date: **7/2/2015 3:55:00 PM** Prep Date: **7/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.922	0.0386	0.7720	0	119	41	138	3.29	50	
Aroclor 1260	0.867	0.0386	0.7720	0	112	61	131	2.32	50	
Surr: 2-Fluorobiphenyl	0.905		0.7720		117	43	125	0	0	
Surr: 4-Terphenyl-d14	0.867		0.7720		112	32	125	0	0	

Sample ID **MB-70309** Batch ID: **70309** TestNo: **SW8270D** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS8_150702A** Analysis Date: **7/2/2015 4:56:00 PM** Prep Date: **7/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	<0.0250	0.0500								
Aroclor 1221	<0.0250	0.0500								
Aroclor 1232	<0.0250	0.0500								
Aroclor 1242	<0.0250	0.0500								
Aroclor 1248	<0.0250	0.0500								
Aroclor 1254	<0.0250	0.0500								
Aroclor 1260	<0.0250	0.0500								
Surr: 2-Fluorobiphenyl	1.18		1.000		118	43	125			
Surr: 4-Terphenyl-d14	1.02		1.000		102	32	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS8_150702A**

Sample ID	**SB-150706**	Batch ID:	**70309**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**SBLK**	Run ID:	**GCMS8_150702A**	Analysis Date:	**7/6/2015 12:47:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	<0.0250	0.0500	0							
Aroclor 1221	<0.0250	0.0500	0							
Aroclor 1232	<0.0250	0.0500	0							
Aroclor 1242	<0.0250	0.0500	0							
Aroclor 1248	<0.0250	0.0500	0							
Aroclor 1254	<0.0250	0.0500	0							
Aroclor 1260	<0.0250	0.0500	0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS8_150702A**

Sample ID	**ICV-150702**	Batch ID:	**R80427**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS8_150702A**	Analysis Date:	**7/2/2015 2:23:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	2.17	0.0500	2.000	0	109	80	120			
Aroclor 1260	1.96	0.0500	2.000	0	98.0	80	120			
Surr: 2-Fluorobiphenyl	1.18		1.000		118	80	120			
Surr: 4-Terphenyl-d14	1.13		1.000		113	80	120			

Sample ID	**ICV-150706**	Batch ID:	**R80427**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS8_150702A**	Analysis Date:	**7/6/2015 10:13:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	2.25	0.0500	2.000	0	113	80	120			
Aroclor 1260	2.04	0.0500	2.000	0	102	80	120			
Surr: 2-Fluorobiphenyl	1.15		1.000		115	80	120			
Surr: 4-Terphenyl-d14	1.14		1.000		114	80	120			

Sample ID	**ICV-150706 2154**	Batch ID:	**R80427**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS8_150702A**	Analysis Date:	**7/6/2015 10:44:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1221	2.14	0.0500	2.000	0	107	80	120			
Aroclor 1254	1.58	0.0500	2.000	0	79.0	80	120			S

Sample ID	**ICV-150706 1248**	Batch ID:	**R80427**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS8_150702A**	Analysis Date:	**7/6/2015 12:16:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1248	1.62	0.0500	2.000	0	80.9	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS8_150706A**

The QC data in batch 70277 applies to the following samples: 1506310-12D, 1506310-13D, 1506310-14D, 1506310-15D, 1506310-16D, 1506310-36E

Sample ID **LCS-70277** Batch ID: **70277** TestNo: **SW8270D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS8_150706A** Analysis Date: **7/6/2015 5:19:00 PM** Prep Date: **6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.00403	0.000250	0.00400	0	101	53	113			
Aroclor 1260	0.00438	0.000250	0.00400	0	109	37	131			
Surr: 2-Fluorobiphenyl	3.70		4.000		92.5	40	140			
Surr: 4-Terphenyl-d14	4.81		4.000		120	40	140			

Sample ID **1506310-16DMS** Batch ID: **70277** TestNo: **SW8270D** Units: **mg/L**
SampType: **MS** Run ID: **GCMS8_150706A** Analysis Date: **7/6/2015 6:20:00 PM** Prep Date: **6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.00393	0.000250	0.00400	0	98.2	53	113			
Aroclor 1260	0.00393	0.000250	0.00400	0	98.2	37	131			
Surr: 2-Fluorobiphenyl	3.65		3.998		91.3	40	140			
Surr: 4-Terphenyl-d14	4.33		3.998		108	40	140			

Sample ID **1506310-16DMSD** Batch ID: **70277** TestNo: **SW8270D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS8_150706A** Analysis Date: **7/6/2015 6:50:00 PM** Prep Date: **6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.00385	0.000265	0.00424	0	90.8	53	113	1.97	30	
Aroclor 1260	0.00368	0.000265	0.00424	0	86.9	37	131	6.36	30	
Surr: 2-Fluorobiphenyl	3.62		4.241		85.4	40	140	0	0	
Surr: 4-Terphenyl-d14	4.12		4.241		97.1	40	140	0	0	

Sample ID **MB-70277** Batch ID: **70277** TestNo: **SW8270D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS8_150706A** Analysis Date: **7/6/2015 7:52:00 PM** Prep Date: **6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	<0.000100	0.000250								
Aroclor 1221	<0.000100	0.000250								
Aroclor 1232	<0.000100	0.000250								
Aroclor 1242	<0.000100	0.000250								
Aroclor 1248	<0.000100	0.000250								
Aroclor 1254	<0.000100	0.000250								
Aroclor 1260	<0.000100	0.000250								
Surr: 2-Fluorobiphenyl	2.87		4.000		71.8	40	140			
Surr: 4-Terphenyl-d14	3.32		4.000		83.0	40	140			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS8_150706A**

Sample ID	**ICV-150706**	Batch ID:	**R80459**	TestNo:	**SW8270D**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**GCMS8_150706A**	Analysis Date:	**7/6/2015 4:49:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	2.26	0.000250	2.00	0	113	80	120			
Aroclor 1260	2.07	0.000250	2.00	0	103	80	120			
Surr: 2-Fluorobiphenyl	1140		1000		114	80	120			
Surr: 4-Terphenyl-d14	1180		1000		118	80	120			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS8_150707A**

The QC data in batch 70341 applies to the following samples: 1506310-26C, 1506310-27C, 1506310-28C, 1506310-32D, 1506310-33D, 1506310-34D, 1506310-35C

Sample ID **LCS-70341** Batch ID: **70341** TestNo: **SW8270D** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS8_150707A** Analysis Date: **7/7/2015 3:37:00 PM** Prep Date: **7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.952	0.0500	1.000	0	95.2	41	138			
Aroclor 1260	0.918	0.0500	1.000	0	91.8	61	131			
Surr: 2-Fluorobiphenyl	1.07		1.000		107	43	125			
Surr: 4-Terphenyl-d14	0.995		1.000		99.5	32	125			

Sample ID **MB-70341** Batch ID: **70341** TestNo: **SW8270D** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS8_150707A** Analysis Date: **7/7/2015 5:39:00 PM** Prep Date: **7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	<0.0250	0.0500								
Aroclor 1221	<0.0250	0.0500								
Aroclor 1232	<0.0250	0.0500								
Aroclor 1242	<0.0250	0.0500								
Aroclor 1248	<0.0250	0.0500								
Aroclor 1254	<0.0250	0.0500								
Aroclor 1260	<0.0250	0.0500								
Surr: 2-Fluorobiphenyl	1.13		1.000		113	43	125			
Surr: 4-Terphenyl-d14	1.08		1.000		108	32	125			

Sample ID **DCS-70341** Batch ID: **70341** TestNo: **SW8270D** Units: **mg/Kg**
SampType: **DCS** Run ID: **GCMS8_150707A** Analysis Date: **7/7/2015 7:41:00 PM** Prep Date: **7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.0449	0.0500	0.05000	0	89.8	20	400			
Aroclor 1260	0.0528	0.0500	0.05000	0	106	20	400			
Surr: 2-Fluorobiphenyl	1.19		1.000		119	43	125			
Surr: 4-Terphenyl-d14	1.12		1.000		112	32	125			

Sample ID **1506310-27CMS** Batch ID: **70341** TestNo: **SW8270D** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GCMS8_150707A** Analysis Date: **7/7/2015 9:43:00 PM** Prep Date: **7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.795	0.0382	0.7639	0	104	41	138			
Aroclor 1260	0.784	0.0382	0.7639	0	103	61	131			
Surr: 2-Fluorobiphenyl	0.855		0.7639		112	43	125			
Surr: 4-Terphenyl-d14	0.932		0.7639		122	32	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS8_150707A**

Sample ID	**1506310-27CMSD**	Batch ID:	**70341**	TestNo:	**SW8270D**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**GCMS8_150707A**	Analysis Date:	**7/7/2015 10:14:00 PM**	Prep Date:	**7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.872	0.0387	0.7745	0	113	41	138	9.24	50	
Aroclor 1260	0.867	0.0387	0.7745	0	112	61	131	9.98	50	
Surr: 2-Fluorobiphenyl	0.892		0.7745		115	43	125	0	0	
Surr: 4-Terphenyl-d14	1.07		0.7745		138	32	125	0	0	S

Sample ID	**SB-150708**	Batch ID:	**70341**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**SBLK**	Run ID:	**GCMS8_150707A**	Analysis Date:	**7/8/2015 9:21:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	<0.0250	0.0500	0							
Aroclor 1221	<0.0250	0.0500	0							
Aroclor 1232	<0.0250	0.0500	0							
Aroclor 1242	<0.0250	0.0500	0							
Aroclor 1248	<0.0250	0.0500	0							
Aroclor 1254	<0.0250	0.0500	0							
Aroclor 1260	<0.0250	0.0500	0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS8_150707A**

Sample ID	**ICV-150707**	Batch ID:	**R80490**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS8_150707A**	Analysis Date:	**7/7/2015 3:05:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	2.23	0.0500	2.000	0	111	80	120			
Aroclor 1260	2.08	0.0500	2.000	0	104	80	120			
Surr: 2-Fluorobiphenyl	1.15		1.000		115	80	120			
Surr: 4-Terphenyl-d14	1.04		1.000		104	80	120			

Sample ID	**ICV-150708**	Batch ID:	**R80490**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS8_150707A**	Analysis Date:	**7/8/2015 7:49:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	2.23	0.0500	2.000	0	112	80	120			
Aroclor 1260	2.11	0.0500	2.000	0	105	80	120			
Surr: 2-Fluorobiphenyl	1.17		1.000		117	80	120			
Surr: 4-Terphenyl-d14	1.18		1.000		118	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150409B**

Sample ID **DCS3-LQV2-69003** Batch ID: **69003** TestNo: **SW8270D** Units: **mg/L**
SampType: **DCS3** Run ID: **GCMS9_150409B** Analysis Date: **4/9/2015 1:27:00 PM** Prep Date: **4/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzoic acid	0.00278	0.00600	0.00400	0	69.5	10	400	0	0	
Butyl benzyl phthalate	0.00394	0.00600	0.00400	0	98.5	10	400	0	0	
Diethyl phthalate	0.00378	0.00600	0.00400	0	94.5	10	400	0	0	
Dimethyl phthalate	0.00356	0.00600	0.00400	0	89.0	10	400	0	0	
Di-n-butyl phthalate	0.00406	0.00600	0.00400	0	102	10	400	0	0	
Di-n-octyl phthalate	0.00386	0.00600	0.00400	0	96.5	10	400	0	0	

Sample ID **DCS2-LQV1-69003** Batch ID: **69003** TestNo: **SW8270D** Units: **mg/L**
SampType: **DCS2** Run ID: **GCMS9_150409B** Analysis Date: **4/9/2015 1:50:00 PM** Prep Date: **4/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-Dinitrophenol	0.00152	0.00400	0.00160	0	95.0	10	400	0	0	
4-Nitrophenol	0.00124	0.00400	0.00160	0	77.5	10	400	0	0	
Hexachlorocyclopentadiene	0.000780	0.00200	0.00160	0	48.8	10	400	0	0	

Sample ID **DCS1-69003** Batch ID: **69003** TestNo: **SW8270D** Units: **mg/L**
SampType: **DCS** Run ID: **GCMS9_150409B** Analysis Date: **4/9/2015 2:14:00 PM** Prep Date: **4/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	0.000440	0.000800	0.000600	0	73.3	10	400	0	0	
2,4,6-Trichlorophenol	0.000380	0.000800	0.000600	0	63.3	10	400	0	0	
2,4-Dichlorophenol	0.000380	0.000800	0.000600	0	63.3	10	400	0	0	
2,4-Dinitrotoluene	0.000900	0.000800	0.000600	0	150	10	400	0	0	
2,6-Dinitrotoluene	0.00100	0.000800	0.000600	0	167	10	400	0	0	
2-Chloronaphthalene	0.000500	0.000800	0.000600	0	83.3	10	400	0	0	
2-Chlorophenol	0.000480	0.000800	0.000600	0	80.0	10	400	0	0	
2-Methylnaphthalene	0.000480	0.000800	0.000600	0	80.0	10	400	0	0	
2-Methylphenol	0.000480	0.000800	0.000600	0	80.0	10	400	0	0	
2-Nitroaniline	0.000780	0.000800	0.000600	0	130	10	400	0	0	
2-Nitrophenol	0.000720	0.000800	0.000600	0	120	10	400	0	0	
3,3´-Dichlorobenzidine	0.000400	0.000800	0.000600	0	66.7	10	400	0	0	
3-Nitroaniline	0.000660	0.000800	0.000600	0	110	10	400	0	0	
4,6-Dinitro-2-methylphenol	0.00104	0.00200	0.000600	0	173	10	400	0	0	
4-Bromophenyl phenyl ether	0.000480	0.000800	0.000600	0	80.0	10	400	0	0	
4-Chloro-3-methylphenol	0.000420	0.000800	0.000600	0	70.0	10	400	0	0	
4-Chloroaniline	0.000400	0.00200	0.000600	0	66.7	10	400	0	0	
4-Chlorophenyl phenyl ether	0.000520	0.000800	0.000600	0	86.7	10	400	0	0	
4-Methylphenol	0.000360	0.000800	0.000600	0	60.0	10	400	0	0	
4-Nitroaniline	0.000780	0.000800	0.000600	0	130	10	400	0	0	
4-Nitrophenol	0.000760	0.00400	0.000600	0	127	10	400	0	0	
Acenaphthene	0.000500	0.000800	0.000600	0	83.3	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150409B**

Sample ID	**DCS1-69003**	Batch ID:	**69003**	TestNo:	**SW8270D**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**GCMS9_150409B**	Analysis Date:	**4/9/2015 2:14:00 PM**	Prep Date:	**4/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthylene	0.000700	0.000800	0.000600	0	117	10	400	0	0	
Acetophenone	0.000480	0.000800	0.000600	0	80.0	10	400	0	0	
Anthracene	0.000480	0.000800	0.000600	0	80.0	10	400	0	0	
Atrazine	0.000400	0.000800	0.000600	0	66.7	10	400	0	0	
Benzaldehyde	0.000820	0.000800	0.000600	0	137	10	400	0	0	N
Benzo[a]anthracene	0.000680	0.000800	0.000600	0	113	10	400	0	0	
Benzo[a]pyrene	0.000860	0.000800	0.000600	0	143	10	400	0	0	
Benzo[b]fluoranthene	0.000500	0.000800	0.000600	0	83.3	10	400	0	0	
Benzo[g,h,i]perylene	0.000520	0.000800	0.000600	0	86.7	10	400	0	0	
Benzo[k]fluoranthene	0.000500	0.000800	0.000600	0	83.3	10	400	0	0	
Biphenyl	0.000640	0.000800	0.000600	0	107	10	400	0	0	
Bis(2-chloroethoxy)methane	0.000460	0.000800	0.000600	0	76.7	10	400	0	0	
Bis(2-chloroethyl)ether	0.000860	0.000800	0.000600	0	143	10	400	0	0	
Bis(2-chloroisopropyl)ether	0.000580	0.000800	0.000600	0	96.7	10	400	0	0	
Bis(2-ethylhexyl)phthalate	0.00126	0.00300	0.000600	0	210	10	400	0	0	
Caprolactam	0.000560	0.000800	0.000600	0	93.3	10	400	0	0	
Carbazole	0.000480	0.000800	0.000600	0	80.0	10	400	0	0	
Chrysene	0.000520	0.000800	0.000600	0	86.7	10	400	0	0	
Dibenz[a,h]anthracene	0.000500	0.000800	0.000600	0	83.3	10	400	0	0	
Dibenzofuran	0.000480	0.000800	0.000600	0	80.0	10	400	0	0	
Fluoranthene	0.000520	0.000800	0.000600	0	86.7	10	400	0	0	
Fluorene	0.000520	0.000800	0.000600	0	86.7	10	400	0	0	
Hexachlorobenzene	0.000480	0.000800	0.000600	0	80.0	10	400	0	0	
Hexachlorobutadiene	0.000440	0.000800	0.000600	0	73.3	10	400	0	0	
Hexachlorocyclopentadiene	0.000560	0.00200	0.000600	0	93.3	10	400	0	0	
Hexachloroethane	0.000440	0.000800	0.000600	0	73.3	10	400	0	0	
Indeno[1,2,3-cd]pyrene	0.000500	0.000800	0.000600	0	83.3	10	400	0	0	
Isophorone	0.000480	0.000800	0.000600	0	80.0	10	400	0	0	
Naphthalene	0.000520	0.000800	0.000600	0	86.7	10	400	0	0	
Nitrobenzene	0.000740	0.000800	0.000600	0	123	10	400	0	0	
N-Nitrosodi-n-propylamine	0.000600	0.000800	0.000600	0	100	10	400	0	0	
N-Nitrosodiphenylamine	0.000480	0.000800	0.000600	0	80.0	10	400	0	0	
Pentachlorophenol	0.000720	0.000800	0.000600	0	120	10	400	0	0	
Phenanthrene	0.000560	0.000800	0.000600	0	93.3	10	400	0	0	
Pyrene	0.000500	0.000800	0.000600	0	83.3	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150415C**

Sample ID **DCS1-69132**	Batch ID: **69132**	TestNo: **SW8270D**	Units: **mg/Kg**
SampType: **DCS**	Run ID: **GCMS9_150415C**	Analysis Date: **4/15/2015 5:21:00 PM**	Prep Date: **4/15/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	0.0167	0.0266	0.02000	0	83.3	10	400	0	0	
2,4,6-Trichlorophenol	0.0160	0.0266	0.02000	0	80.0	10	400	0	0	
2,4-Dichlorophenol	0.0167	0.0266	0.02000	0	83.3	10	400	0	0	
2,4-Dimethylphenol	0.0180	0.0266	0.02000	0	90.0	10	400	0	0	
2,4-Dinitrotoluene	0.0340	0.0266	0.02000	0	170	10	400	0	0	
2,6-Dinitrotoluene	0.0387	0.0266	0.02000	0	193	10	400	0	0	
2-Chloronaphthalene	0.0133	0.0266	0.02000	0	66.7	10	400	0	0	
2-Chlorophenol	0.0200	0.0266	0.02000	0	100	10	400	0	0	
2-Methylnaphthalene	0.0127	0.0266	0.02000	0	63.3	10	400	0	0	
2-Methylphenol	0.0173	0.0266	0.02000	0	86.7	10	400	0	0	
2-Nitroaniline	0.0327	0.0266	0.02000	0	163	10	400	0	0	
2-Nitrophenol	0.0260	0.0266	0.02000	0	130	10	400	0	0	
3,3´-Dichlorobenzidine	0.0127	0.0266	0.02000	0	63.3	10	400	0	0	
3-Nitroaniline	0.0113	0.0266	0.02000	0	56.7	10	400	0	0	
4-Bromophenyl phenyl ether	0.0173	0.0266	0.02000	0	86.7	10	400	0	0	
4-Chloro-3-methylphenol	0.0207	0.0266	0.02000	0	103	10	400	0	0	
4-Chlorophenyl phenyl ether	0.0167	0.0266	0.02000	0	83.3	10	400	0	0	
4-Methylphenol	0.0167	0.0266	0.02000	0	83.3	10	400	0	0	
4-Nitroaniline	0.0320	0.0266	0.02000	0	160	10	400	0	0	
Acenaphthene	0.0153	0.0266	0.02000	0	76.7	10	400	0	0	
Acenaphthylene	0.0253	0.0266	0.02000	0	127	10	400	0	0	
Acetophenone	0.0160	0.0266	0.02000	0	80.0	10	400	0	0	
Anthracene	0.0180	0.0266	0.02000	0	90.0	10	400	0	0	
Atrazine	0.0147	0.0266	0.02000	0	73.3	10	400	0	0	
Benzaldehyde	0.0247	0.0266	0.02000	0	123	10	400	0	0	N
Benzo[a]anthracene	0.0233	0.0266	0.02000	0	117	10	400	0	0	
Benzo[a]pyrene	0.0320	0.0266	0.02000	0	160	10	400	0	0	
Benzo[b]fluoranthene	0.0180	0.0266	0.02000	0	90.0	10	400	0	0	
Benzo[g,h,i]perylene	0.0187	0.0266	0.02000	0	93.3	10	400	0	0	
Benzo[k]fluoranthene	0.0173	0.0266	0.02000	0	86.7	10	400	0	0	
Biphenyl	0.0167	0.0266	0.02000	0	83.3	10	400	0	0	
Bis(2-chloroethoxy)methane	0.0133	0.0266	0.02000	0	66.7	10	400	0	0	
Bis(2-chloroethyl)ether	0.0500	0.0266	0.02000	0	250	10	400	0	0	
Bis(2-chloroisopropyl)ether	0.00333	0.0266	0.02000	0	16.7	10	400	0	0	
Caprolactam	0.0353	0.0266	0.02000	0	177	10	400	0	0	
Carbazole	0.0180	0.0266	0.02000	0	90.0	10	400	0	0	
Chrysene	0.0193	0.0266	0.02000	0	96.7	10	400	0	0	
Dibenz[a,h]anthracene	0.0193	0.0266	0.02000	0	96.7	10	400	0	0	
Dibenzofuran	0.0160	0.0266	0.02000	0	80.0	10	400	0	0	
Fluoranthene	0.0180	0.0266	0.02000	0	90.0	10	400	0	0	
Fluorene	0.0167	0.0266	0.02000	0	83.3	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150415C**

Sample ID	**DCS1-69132**	Batch ID:	**69132**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**GCMS9_150415C**	Analysis Date:	**4/15/2015 5:21:00 PM**	Prep Date:	**4/15/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobenzene	0.0160	0.0266	0.02000	0	80.0	10	400	0	0	
Hexachlorobutadiene	0.00733	0.0266	0.02000	0	36.7	10	400	0	0	
Hexachloroethane	0.00800	0.0266	0.02000	0	40.0	10	400	0	0	
Indeno[1,2,3-cd]pyrene	0.0193	0.0266	0.02000	0	96.7	10	400	0	0	
Naphthalene	0.00933	0.0266	0.02000	0	46.7	10	400	0	0	
Nitrobenzene	0.0120	0.0266	0.02000	0	60.0	10	400	0	0	
N-Nitrosodi-n-propylamine	0.0147	0.0266	0.02000	0	73.3	10	400	0	0	
N-Nitrosodiphenylamine	0.0180	0.0266	0.02000	0	90.0	10	400	0	0	
Pentachlorophenol	0.0280	0.0266	0.02000	0	140	10	400	0	0	
Phenanthrene	0.0193	0.0266	0.02000	0	96.7	10	400	0	0	
Phenol	0.0193	0.0266	0.02000	0	96.7	10	400	0	0	
Pyrene	0.0200	0.0266	0.02000	0	100	10	400	0	0	

Sample ID	**DCS2/LQV1-69132**	Batch ID:	**69132**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**DCS2**	Run ID:	**GCMS9_150415C**	Analysis Date:	**4/15/2015 5:44:00 PM**	Prep Date:	**4/15/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-Dinitrophenol	0.0587	0.132	0.04000	0	147	10	400	0	0	
4-Nitrophenol	0.0600	0.132	0.04000	0	150	10	400	0	0	
Benzyl alcohol	0.0627	0.0660	0.04000	0	157	10	400	0	0	
Hexachlorocyclopentadiene	0.0373	0.0660	0.04000	0	93.3	10	400	0	0	
Isophorone	0.0353	0.0660	0.04000	0	88.3	10	400	0	0	

Sample ID	**DCS3/LQV2-69132**	Batch ID:	**69132**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**DCS3**	Run ID:	**GCMS9_150415C**	Analysis Date:	**4/15/2015 6:07:00 PM**	Prep Date:	**4/15/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzoic acid	0.121	0.132	0.1000	0	121	10	400	0	0	
Bis(2-ethylhexyl)phthalate	0.134	0.0660	0.1000	0	134	10	400	0	0	
Butyl benzyl phthalate	0.119	0.0660	0.1000	0	119	10	400	0	0	
Diethyl phthalate	0.0920	0.0660	0.1000	0	92.0	10	400	0	0	
Dimethyl phthalate	0.0887	0.0660	0.1000	0	88.7	10	400	0	0	
Di-n-butyl phthalate	0.111	0.0660	0.1000	0	111	10	400	0	0	
Di-n-octyl phthalate	0.136	0.0660	0.1000	0	136	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150702A**

The QC data in batch 70291 applies to the following samples: 1506310-12C, 1506310-13C, 1506310-14C, 1506310-15C, 1506310-16C, 1506310-36D

Sample ID	**LCS-70291**	Batch ID:	**70291**	TestNo:	**SW8270D**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**GCMS9_150702A**	Analysis Date:	**7/2/2015 1:08:00 PM**	Prep Date:	**7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	0.0307	0.000800	0.0400	0	76.7	49	120			
2,4,6-Trichlorophenol	0.0292	0.000800	0.0400	0	73.1	49	126			
2,4-Dichlorophenol	0.0321	0.000800	0.0400	0	80.2	48	120			
2,4-Dimethylphenol	0.0333	0.000800	0.0400	0	83.3	28	120			
2,4-Dinitrophenol	0.0135	0.00400	0.0400	0	33.8	25	130			
2,4-Dinitrotoluene	0.0310	0.000800	0.0400	0	77.4	51	120			
2,6-Dinitrotoluene	0.0311	0.000800	0.0400	0	77.8	49	120			
2-Chloronaphthalene	0.0250	0.000800	0.0400	0	62.4	49	120			
2-Chlorophenol	0.0285	0.000800	0.0400	0	71.2	37	120			
2-Methylnaphthalene	0.0363	0.000800	0.0400	0	90.9	46	120			
2-Methylphenol	0.0298	0.000800	0.0400	0	74.4	38	120			
2-Nitroaniline	0.0278	0.000800	0.0400	0	69.4	48	120			
2-Nitrophenol	0.0315	0.000800	0.0400	0	78.7	39	123			
3,3´-Dichlorobenzidine	0.0441	0.000800	0.0400	0	110	20	120			
3-Nitroaniline	0.0341	0.000800	0.0400	0	85.2	20	126			
4,6-Dinitro-2-methylphenol	0.0207	0.00200	0.0400	0	51.8	40	130			
4-Bromophenyl phenyl ether	0.0265	0.000800	0.0400	0	66.4	52	120			
4-Chloro-3-methylphenol	0.0416	0.000800	0.0400	0	104	47	120			
4-Chloroaniline	0.0278	0.00200	0.0400	0	69.5	20	120			
4-Chlorophenyl phenyl ether	0.0270	0.000800	0.0400	0	67.6	50	120			
4-Methylphenol	0.0290	0.000800	0.0400	0	72.5	32	120			
4-Nitroaniline	0.0256	0.000800	0.0400	0	64.0	36	120			
4-Nitrophenol	0.0283	0.00400	0.0400	0	70.6	20	120			
Acenaphthene	0.0301	0.000800	0.0400	0	75.2	47	120			
Acenaphthylene	0.0301	0.000800	0.0400	0	75.2	60	120			
Acetophenone	0.0309	0.000800	0.0400	0	77.2	45	125			
Anthracene	0.0303	0.000800	0.0400	0	75.8	54	120			
Atrazine	0.0315	0.000800	0.0400	0	78.8	45	125			
Benzaldehyde	0.0320	0.000800	0.0400	0	80.0	45	125			N
Benzo[a]anthracene	0.0295	0.000800	0.0400	0	73.8	68	118			
Benzo[a]pyrene	0.0249	0.000800	0.0400	0	62.2	53	120			
Benzo[b]fluoranthene	0.0321	0.000800	0.0400	0	80.2	45	124			
Benzo[g,h,i]perylene	0.0302	0.000800	0.0400	0	75.4	38	123			
Benzo[k]fluoranthene	0.0306	0.000800	0.0400	0	76.5	45	124			
Benzoic acid	0.0140	0.00600	0.0400	0	35.0	20	120			
Benzyl alcohol	0.0375	0.00200	0.0400	0	93.6	30	120			
Biphenyl	0.0247	0.000800	0.0400	0	61.6	45	125			
Bis(2-chloroethoxy)methane	0.0381	0.000800	0.0400	0	95.3	46	120			
Bis(2-chloroethyl)ether	0.0344	0.000800	0.0400	0	86.1	37	120			
Bis(2-chloroisopropyl)ether	0.0401	0.000800	0.0400	0	100	26	131			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150702A**

Sample ID **LCS-70291**	Batch ID: **70291**	TestNo: **SW8270D**	Units: **mg/L**
SampType: **LCS**	Run ID: **GCMS9_150702A**	Analysis Date: **7/2/2015 1:08:00 PM**	Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl)phthalate	0.0312	0.00300	0.0400	0	78.1	42	126			
Butyl benzyl phthalate	0.0321	0.00600	0.0400	0	80.3	46	120			
Caprolactam	0.00864	0.000800	0.0400	0	21.6	20	125			
Carbazole	0.0306	0.000800	0.0400	0	76.5	26	125			
Chrysene	0.0272	0.000800	0.0400	0	68.1	55	120			
Dibenz[a,h]anthracene	0.0261	0.000800	0.0400	0	65.2	42	127			
Dibenzofuran	0.0258	0.000800	0.0400	0	64.4	54	120			
Diethyl phthalate	0.0298	0.00600	0.0400	0	74.4	41	120			
Dimethyl phthalate	0.0295	0.00600	0.0400	0	73.7	25	127			
Di-n-butyl phthalate	0.0329	0.00600	0.0400	0	82.3	54	120			
Di-n-octyl phthalate	0.0286	0.00600	0.0400	0	71.4	37	137			
Fluoranthene	0.0310	0.000800	0.0400	0	77.6	54	120			
Fluorene	0.0287	0.000800	0.0400	0	71.7	50	120			
Hexachlorobenzene	0.0281	0.000800	0.0400	0	70.2	52	120			
Hexachlorobutadiene	0.0264	0.000800	0.0400	0	66.0	27	120			
Hexachlorocyclopentadiene	0.0191	0.00200	0.0400	0	47.8	41	125			
Hexachloroethane	0.0289	0.000800	0.0400	0	72.2	28	120			
Indeno[1,2,3-cd]pyrene	0.0277	0.000800	0.0400	0	69.3	43	125			
Isophorone	0.0429	0.000800	0.0400	0	107	50	120			
Naphthalene	0.0342	0.000800	0.0400	0	85.6	39	120			
Nitrobenzene	0.0393	0.000800	0.0400	0	98.3	44	120			
N-Nitrosodi-n-propylamine	0.0388	0.000800	0.0400	0	97.0	34	128			
N-Nitrosodiphenylamine	0.0257	0.000800	0.0400	0	64.2	48	120			
Pentachlorophenol	0.0174	0.000800	0.0400	0	43.6	38	120			
Phenanthrene	0.0299	0.000800	0.0400	0	74.7	51	120			
Phenol	0.0202	0.000800	0.0400	0	50.5	20	120			
Pyrene	0.0355	0.000800	0.0400	0	88.6	49	128			
Surr: 2,4,6-Tribromophenol	53.4		80.00		66.8	42	124			
Surr: 2-Fluorobiphenyl	53.0		80.00		66.2	48	120			
Surr: 2-Fluorophenol	44.8		80.00		56.0	20	120			
Surr: 4-Terphenyl-d14	53.6		80.00		67.0	51	135			
Surr: Nitrobenzene-d5	78.8		80.00		98.5	41	120			
Surr: Phenol-d5	44.0		80.00		55.0	20	120			

Sample ID **1506310-16CMS**	Batch ID: **70291**	TestNo: **SW8270D**	Units: **mg/L**
SampType: **MS**	Run ID: **GCMS9_150702A**	Analysis Date: **7/2/2015 1:54:00 PM**	Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	0.0380	0.000881	0.0441	0	86.4	49	120			
2,4,6-Trichlorophenol	0.0360	0.000881	0.0441	0	81.8	49	126			
2,4-Dichlorophenol	0.0369	0.000881	0.0441	0	83.6	48	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150702A**

Sample ID	**1506310-16CMS**	Batch ID:	**70291**	TestNo:	**SW8270D**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**GCMS9_150702A**	Analysis Date:	**7/2/2015 1:54:00 PM**	Prep Date:	**7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-Dimethylphenol	0.0378	0.000881	0.0441	0	85.8	28	120			
2,4-Dinitrophenol	0.0248	0.00441	0.0441	0	56.2	25	130			
2,4-Dinitrotoluene	0.0410	0.000881	0.0441	0	93.0	51	120			
2,6-Dinitrotoluene	0.0404	0.000881	0.0441	0	91.7	49	120			
2-Chloronaphthalene	0.0355	0.000881	0.0441	0	80.6	49	120			
2-Chlorophenol	0.0338	0.000881	0.0441	0	76.7	37	120			
2-Methylnaphthalene	0.0366	0.000881	0.0441	0	83.0	46	120			
2-Methylphenol	0.0369	0.000881	0.0441	0	83.8	38	120			
2-Nitroaniline	0.0410	0.000881	0.0441	0	93.0	48	120			
2-Nitrophenol	0.0363	0.000881	0.0441	0	82.4	39	123			
3,3´-Dichlorobenzidine	0.00549	0.000881	0.0441	0	12.4	20	120			S
3-Nitroaniline	0.0243	0.000881	0.0441	0	55.1	20	126			
4,6-Dinitro-2-methylphenol	0.0324	0.00220	0.0441	0	73.6	40	130			
4-Bromophenyl phenyl ether	0.0328	0.000881	0.0441	0	74.4	52	120			
4-Chloro-3-methylphenol	0.0409	0.000881	0.0441	0	92.9	47	120			
4-Chloroaniline	0.0183	0.00220	0.0441	0	41.5	20	120			
4-Chlorophenyl phenyl ether	0.0386	0.000881	0.0441	0	87.5	50	120			
4-Methylphenol	0.0325	0.000881	0.0441	0	73.8	32	120			
4-Nitroaniline	0.0321	0.000881	0.0441	0	73.0	36	120			
4-Nitrophenol	0.0341	0.00441	0.0441	0	77.4	20	120			
Acenaphthene	0.0369	0.000881	0.0441	0	83.9	47	120			
Acenaphthylene	0.0395	0.000881	0.0441	0	89.6	60	120			
Acetophenone	0.0384	0.000881	0.0441	0	87.2	45	125			
Anthracene	0.0377	0.000881	0.0441	0	85.4	54	120			
Atrazine	0.0363	0.000881	0.0441	0	82.4	45	125			
Benzaldehyde	0.0288	0.000881	0.0441	0	65.4	45	125			N
Benzo[a]anthracene	0.0364	0.000881	0.0441	0	82.6	68	118			
Benzo[a]pyrene	0.0341	0.000881	0.0441	0	77.4	53	120			
Benzo[b]fluoranthene	0.0372	0.000881	0.0441	0	84.5	45	124			
Benzo[g,h,i]perylene	0.0359	0.000881	0.0441	0	81.5	38	123			
Benzo[k]fluoranthene	0.0305	0.000881	0.0441	0	69.2	45	124			
Benzoic acid	0.0185	0.00661	0.0441	0	42.0	20	120			
Benzyl alcohol	0.0452	0.00220	0.0441	0	103	30	120			
Biphenyl	0.0369	0.000881	0.0441	0	83.6	45	125			
Bis(2-chloroethoxy)methane	0.0386	0.000881	0.0441	0	87.7	46	120			
Bis(2-chloroethyl)ether	0.0413	0.000881	0.0441	0	93.7	37	120			
Bis(2-chloroisopropyl)ether	0.0489	0.000881	0.0441	0	111	26	131			
Bis(2-ethylhexyl)phthalate	0.0401	0.00330	0.0441	0.00117	88.4	42	126			
Butyl benzyl phthalate	0.0435	0.00661	0.0441	0	98.8	46	120			
Caprolactam	0.0130	0.000881	0.0441	0	29.5	20	125			
Carbazole	0.0414	0.000881	0.0441	0	94.0	26	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150702A**

Sample ID **1506310-16CMS**	Batch ID: **70291**	TestNo: **SW8270D**	Units: **mg/L**
SampType: **MS**	Run ID: **GCMS9_150702A**	Analysis Date: **7/2/2015 1:54:00 PM**	Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chrysene	0.0340	0.000881	0.0441	0	77.0	55	120			
Dibenz[a,h]anthracene	0.0364	0.000881	0.0441	0	82.6	42	127			
Dibenzofuran	0.0402	0.000881	0.0441	0	91.2	54	120			
Diethyl phthalate	0.0438	0.00661	0.0441	0	99.4	41	120			
Dimethyl phthalate	0.0432	0.00661	0.0441	0	98.0	25	127			
Di-n-butyl phthalate	0.0396	0.00661	0.0441	0	89.9	54	120			
Di-n-octyl phthalate	0.0425	0.00661	0.0441	0	96.5	37	137			
Fluoranthene	0.0421	0.000881	0.0441	0	95.5	54	120			
Fluorene	0.0403	0.000881	0.0441	0	91.5	50	120			
Hexachlorobenzene	0.0347	0.000881	0.0441	0	78.8	52	120			
Hexachlorobutadiene	0.0321	0.000881	0.0441	0	73.0	27	120			
Hexachlorocyclopentadiene	0.0272	0.00220	0.0441	0	61.7	41	125			
Hexachloroethane	0.0314	0.000881	0.0441	0	71.3	28	120			
Indeno[1,2,3-cd]pyrene	0.0368	0.000881	0.0441	0	83.6	43	125			
Isophorone	0.0397	0.000881	0.0441	0	90.0	50	120			
Naphthalene	0.0325	0.000881	0.0441	0	73.7	39	120			
Nitrobenzene	0.0431	0.000881	0.0441	0	97.8	44	120			
N-Nitrosodi-n-propylamine	0.0410	0.000881	0.0441	0	93.0	34	128			
N-Nitrosodiphenylamine	0.0381	0.000881	0.0441	0	86.5	48	120			
Pentachlorophenol	0.0250	0.000881	0.0441	0	56.6	38	120			
Phenanthrene	0.0329	0.000881	0.0441	0	74.8	51	120			
Phenol	0.0259	0.000881	0.0441	0	58.8	20	120			
Pyrene	0.0392	0.000881	0.0441	0	89.0	49	128			
Surr: 2,4,6-Tribromophenol	70.5		88.13		80.0	42	124			
Surr: 2-Fluorobiphenyl	75.3		88.13		85.5	48	120			
Surr: 2-Fluorophenol	59.9		88.13		68.0	20	120			
Surr: 4-Terphenyl-d14	63.5		88.13		72.0	51	135			
Surr: Nitrobenzene-d5	86.4		88.13		98.0	41	120			
Surr: Phenol-d5	58.4		88.13		66.2	20	120			

Sample ID **1506310-16CMSD**	Batch ID: **70291**	TestNo: **SW8270D**	Units: **mg/L**
SampType: **MSD**	Run ID: **GCMS9_150702A**	Analysis Date: **7/2/2015 2:18:00 PM**	Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	0.0345	0.000869	0.0435	0	79.3	49	120	9.89	20	
2,4,6-Trichlorophenol	0.0318	0.000869	0.0435	0	73.2	49	126	12.5	20	
2,4-Dichlorophenol	0.0379	0.000869	0.0435	0	87.3	48	120	2.89	20	
2,4-Dimethylphenol	0.0357	0.000869	0.0435	0	82.2	28	120	5.67	20	
2,4-Dinitrophenol	0.0230	0.00435	0.0435	0	52.8	25	130	7.61	20	
2,4-Dinitrotoluene	0.0362	0.000869	0.0435	0	83.3	51	120	12.4	20	
2,6-Dinitrotoluene	0.0376	0.000869	0.0435	0	86.6	49	120	7.10	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150702A**

Sample ID **1506310-16CMSD**	Batch ID: **70291**	TestNo: **SW8270D**	Units: **mg/L**
SampType: **MSD**	Run ID: **GCMS9_150702A**	Analysis Date: **7/2/2015 2:18:00 PM**	Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Chloronaphthalene	0.0299	0.000869	0.0435	0	68.8	49	120	17.1	20	
2-Chlorophenol	0.0365	0.000869	0.0435	0	83.9	37	120	7.66	20	
2-Methylnaphthalene	0.0365	0.000869	0.0435	0	84.0	46	120	0.301	20	
2-Methylphenol	0.0336	0.000869	0.0435	0	77.4	38	120	9.32	20	
2-Nitroaniline	0.0401	0.000869	0.0435	0	92.3	48	120	2.19	20	
2-Nitrophenol	0.0364	0.000869	0.0435	0	83.8	39	123	0.427	20	
3,3´-Dichlorobenzidine	0.00480	0.000869	0.0435	0	11.1	20	120	13.3	20	S
3-Nitroaniline	0.0238	0.000869	0.0435	0	54.8	20	126	1.92	20	
4,6-Dinitro-2-methylphenol	0.0301	0.00217	0.0435	0	69.2	40	130	7.54	20	
4-Bromophenyl phenyl ether	0.0373	0.000869	0.0435	0	85.8	52	120	12.9	20	
4-Chloro-3-methylphenol	0.0380	0.000869	0.0435	0	87.5	47	120	7.42	20	
4-Chloroaniline	0.0183	0.00217	0.0435	0	42.0	20	120	0.181	20	
4-Chlorophenyl phenyl ether	0.0332	0.000869	0.0435	0	76.5	50	120	14.9	20	
4-Methylphenol	0.0364	0.000869	0.0435	0	83.7	32	120	11.2	20	
4-Nitroaniline	0.0280	0.000869	0.0435	0	64.5	36	120	13.7	20	
4-Nitrophenol	0.0311	0.00435	0.0435	0	71.7	20	120	9.16	20	
Acenaphthene	0.0362	0.000869	0.0435	0	83.4	47	120	1.92	20	
Acenaphthylene	0.0367	0.000869	0.0435	0	84.4	60	120	7.30	20	
Acetophenone	0.0389	0.000869	0.0435	0	89.6	45	125	1.28	20	
Anthracene	0.0373	0.000869	0.0435	0	85.8	54	120	1.03	20	
Atrazine	0.0405	0.000869	0.0435	0	93.2	45	125	10.8	20	
Benzaldehyde	0.0313	0.000869	0.0435	0	72.0	45	125	8.31	20	N
Benzo[a]anthracene	0.0383	0.000869	0.0435	0	88.2	68	118	5.12	20	
Benzo[a]pyrene	0.0351	0.000869	0.0435	0	80.8	53	120	2.92	20	
Benzo[b]fluoranthene	0.0385	0.000869	0.0435	0	88.7	45	124	3.42	20	
Benzo[g,h,i]perylene	0.0348	0.000869	0.0435	0	80.2	38	123	3.05	20	
Benzo[k]fluoranthene	0.0366	0.000869	0.0435	0	84.2	45	124	18.1	20	
Benzoic acid	0.0211	0.00652	0.0435	0	48.6	20	120	13.0	20	
Benzyl alcohol	0.0469	0.00217	0.0435	0	108	30	120	3.75	20	
Biphenyl	0.0302	0.000869	0.0435	0	69.6	45	125	19.7	20	
Bis(2-chloroethoxy)methane	0.0392	0.000869	0.0435	0	90.3	46	120	1.54	20	
Bis(2-chloroethyl)ether	0.0436	0.000869	0.0435	0	100	37	120	5.48	20	
Bis(2-chloroisopropyl)ether	0.0417	0.000869	0.0435	0	96.0	26	131	15.8	20	
Bis(2-ethylhexyl)phthalate	0.0412	0.00326	0.0435	0.00117	92.2	42	126	2.71	20	
Butyl benzyl phthalate	0.0407	0.00652	0.0435	0	93.8	46	120	6.62	20	
Caprolactam	0.0135	0.000869	0.0435	0	31.0	20	125	3.58	20	
Carbazole	0.0366	0.000869	0.0435	0	84.3	26	125	12.4	20	
Chrysene	0.0350	0.000869	0.0435	0	80.5	55	120	3.00	20	
Dibenz[a,h]anthracene	0.0355	0.000869	0.0435	0	81.6	42	127	2.54	20	
Dibenzofuran	0.0358	0.000869	0.0435	0	82.3	54	120	11.6	20	
Diethyl phthalate	0.0364	0.00652	0.0435	0	83.6	41	120	18.5	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150702A**

Sample ID **1506310-16CMSD** Batch ID: **70291** TestNo: **SW8270D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS9_150702A** Analysis Date: **7/2/2015 2:18:00 PM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dimethyl phthalate	0.0393	0.00652	0.0435	0	90.5	25	127	9.44	20	
Di-n-butyl phthalate	0.0417	0.00652	0.0435	0	95.8	54	120	5.03	20	
Di-n-octyl phthalate	0.0442	0.00652	0.0435	0	102	37	137	3.77	20	
Fluoranthene	0.0337	0.000869	0.0435	0	77.7	54	120	22.0	20	R
Fluorene	0.0336	0.000869	0.0435	0	77.4	50	120	18.1	20	
Hexachlorobenzene	0.0352	0.000869	0.0435	0	81.0	52	120	1.37	20	
Hexachlorobutadiene	0.0327	0.000869	0.0435	0	75.3	27	120	1.79	20	
Hexachlorocyclopentadiene	0.0255	0.00217	0.0435	0	58.6	41	125	6.53	20	
Hexachloroethane	0.0324	0.000869	0.0435	0	74.6	28	120	3.08	20	
Indeno[1,2,3-cd]pyrene	0.0366	0.000869	0.0435	0	84.2	43	125	0.723	20	
Isophorone	0.0455	0.000869	0.0435	0	105	50	120	13.6	20	
Naphthalene	0.0332	0.000869	0.0435	0	76.5	39	120	2.35	20	
Nitrobenzene	0.0421	0.000869	0.0435	0	96.9	44	120	2.25	20	
N-Nitrosodi-n-propylamine	0.0417	0.000869	0.0435	0	96.0	34	128	1.69	20	
N-Nitrosodiphenylamine	0.0359	0.000869	0.0435	0	82.6	48	120	6.05	20	
Pentachlorophenol	0.0266	0.000869	0.0435	0	61.3	38	120	6.51	20	
Phenanthrene	0.0364	0.000869	0.0435	0	83.8	51	120	10.0	20	
Phenol	0.0277	0.000869	0.0435	0	63.7	20	120	6.63	20	
Pyrene	0.0402	0.000869	0.0435	0	92.5	49	128	2.42	20	
Surr: 2,4,6-Tribromophenol	62.4		86.92		71.8	42	124	0	0	
Surr: 2-Fluorobiphenyl	60.2		86.92		69.3	48	120	0	0	
Surr: 2-Fluorophenol	56.7		86.92		65.3	20	120	0	0	
Surr: 4-Terphenyl-d14	63.7		86.92		73.2	51	135	0	0	
Surr: Nitrobenzene-d5	78.4		86.92		90.3	41	120	0	0	
Surr: Phenol-d5	60.6		86.92		69.8	20	120	0	0	

Sample ID **MB-70291** Batch ID: **70291** TestNo: **SW8270D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS9_150702A** Analysis Date: **7/2/2015 3:04:00 PM** Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	<0.000200	0.000800								
2,4,6-Trichlorophenol	<0.000200	0.000800								
2,4-Dichlorophenol	<0.000200	0.000800								
2,4-Dimethylphenol	<0.000400	0.000800								
2,4-Dinitrophenol	<0.00100	0.00400								
2,4-Dinitrotoluene	<0.000200	0.000800								
2,6-Dinitrotoluene	<0.000200	0.000800								
2-Chloronaphthalene	<0.000200	0.000800								
2-Chlorophenol	<0.000200	0.000800								
2-Methylnaphthalene	<0.000200	0.000800								
2-Methylphenol	<0.000200	0.000800								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150702A**

Sample ID	**MB-70291**	Batch ID:	**70291**	TestNo:	**SW8270D**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**GCMS9_150702A**	Analysis Date:	**7/2/2015 3:04:00 PM**	Prep Date:	**7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Nitroaniline	<0.000200	0.000800								
2-Nitrophenol	<0.000400	0.000800								
3,3´-Dichlorobenzidine	<0.000400	0.000800								
3-Nitroaniline	<0.000200	0.000800								
4,6-Dinitro-2-methylphenol	<0.000500	0.00200								
4-Bromophenyl phenyl ether	<0.000200	0.000800								
4-Chloro-3-methylphenol	<0.000200	0.000800								
4-Chloroaniline	<0.000500	0.00200								
4-Chlorophenyl phenyl ether	<0.000200	0.000800								
4-Methylphenol	<0.000200	0.000800								
4-Nitroaniline	<0.000400	0.000800								
4-Nitrophenol	<0.00100	0.00400								
Acenaphthene	<0.000200	0.000800								
Acenaphthylene	<0.000200	0.000800								
Acetophenone	<0.000200	0.000800								
Anthracene	<0.000200	0.000800								
Atrazine	<0.000200	0.000800								
Benzaldehyde	<0.000400	0.000800								N
Benzo[a]anthracene	<0.000400	0.000800								
Benzo[a]pyrene	<0.000200	0.000800								
Benzo[b]fluoranthene	<0.000400	0.000800								
Benzo[g,h,i]perylene	<0.000400	0.000800								
Benzo[k]fluoranthene	<0.000400	0.000800								
Benzoic acid	<0.00200	0.00600								
Benzyl alcohol	<0.000500	0.00200								
Biphenyl	<0.000200	0.000800								
Bis(2-chloroethoxy)methane	<0.000200	0.000800								
Bis(2-chloroethyl)ether	<0.000200	0.000800								
Bis(2-chloroisopropyl)ether	<0.000200	0.000800								
Bis(2-ethylhexyl)phthalate	<0.00100	0.00300								
Butyl benzyl phthalate	<0.00200	0.00600								
Caprolactam	<0.000200	0.000800								
Carbazole	<0.000200	0.000800								
Chrysene	<0.000400	0.000800								
Dibenz[a,h]anthracene	<0.000200	0.000800								
Dibenzofuran	<0.000200	0.000800								
Diethyl phthalate	<0.00200	0.00600								
Dimethyl phthalate	<0.00200	0.00600								
Di-n-butyl phthalate	<0.00200	0.00600								
Di-n-octyl phthalate	<0.00200	0.00600								
Fluoranthene	<0.000200	0.000800								

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150702A**

Sample ID	**MB-70291**	Batch ID:	**70291**	TestNo:	**SW8270D**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**GCMS9_150702A**	Analysis Date:	**7/2/2015 3:04:00 PM**	Prep Date:	**7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	<0.000200	0.000800								
Hexachlorobenzene	<0.000200	0.000800								
Hexachlorobutadiene	<0.000200	0.000800								
Hexachlorocyclopentadiene	<0.000500	0.00200								
Hexachloroethane	<0.000200	0.000800								
Indeno[1,2,3-cd]pyrene	<0.000400	0.000800								
Isophorone	<0.000200	0.000800								
Naphthalene	<0.000200	0.000800								
Nitrobenzene	<0.000400	0.000800								
N-Nitrosodi-n-propylamine	<0.000200	0.000800								
N-Nitrosodiphenylamine	<0.000200	0.000800								
Pentachlorophenol	<0.000400	0.000800								
Phenanthrene	<0.000200	0.000800								
Phenol	<0.000400	0.000800								
Pyrene	<0.000400	0.000800								
Surr: 2,4,6-Tribromophenol	58.2		80.00		72.8	42	124			
Surr: 2-Fluorobiphenyl	65.8		80.00		82.2	48	120			
Surr: 2-Fluorophenol	41.6		80.00		52.0	20	120			
Surr: 4-Terphenyl-d14	50.4		80.00		63.0	51	135			
Surr: Nitrobenzene-d5	65.0		80.00		81.2	41	120			
Surr: Phenol-d5	33.6		80.00		42.0	20	120			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150702A**

Sample ID **ICV-150702**	Batch ID: **R80423**	TestNo: **SW8270D**	Units: **mg/L**
SampType: **ICV**	Run ID: **GCMS9_150702A**	Analysis Date: **7/2/2015 12:32:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	4.08	0.000800	4.00	0	102	80	120			
2,4,6-Trichlorophenol	3.99	0.000800	4.00	0	99.8	80	120			
2,4-Dichlorophenol	4.08	0.000800	4.00	0	102	80	120			
2,4-Dimethylphenol	4.25	0.000800	4.00	0	106	80	120			
2,4-Dinitrophenol	3.00	0.00400	4.00	0	74.9	80	120			S
2,4-Dinitrotoluene	3.68	0.000800	4.00	0	92.0	80	120			
2,6-Dinitrotoluene	3.80	0.000800	4.00	0	95.0	80	120			
2-Chloronaphthalene	3.71	0.000800	4.00	0	92.8	80	120			
2-Chlorophenol	4.24	0.000800	4.00	0	106	80	120			
2-Methylnaphthalene	3.79	0.000800	4.00	0	94.6	80	120			
2-Methylphenol	4.52	0.000800	4.00	0	113	80	120			
2-Nitroaniline	3.85	0.000800	4.00	0	96.2	80	120			
2-Nitrophenol	3.91	0.000800	4.00	0	97.8	80	120			
3,3´-Dichlorobenzidine	3.87	0.000800	4.00	0	96.7	80	120			
3-Nitroaniline	3.38	0.000800	4.00	0	84.5	80	120			
4,6-Dinitro-2-methylphenol	3.77	0.00200	4.00	0	94.3	80	120			
4-Bromophenyl phenyl ether	3.97	0.000800	4.00	0	99.2	80	120			
4-Chloro-3-methylphenol	4.40	0.000800	4.00	0	110	80	120			
4-Chloroaniline	4.00	0.00200	4.00	0	100	80	120			
4-Chlorophenyl phenyl ether	3.63	0.000800	4.00	0	90.8	80	120			
4-Methylphenol	4.49	0.000800	4.00	0	112	80	120			
4-Nitroaniline	3.48	0.000800	4.00	0	87.1	80	120			
4-Nitrophenol	4.54	0.00400	4.00	0	114	80	120			
Acenaphthene	3.67	0.000800	4.00	0	91.7	80	120			
Acenaphthylene	3.86	0.000800	4.00	0	96.5	80	120			
Acetophenone	4.33	0.000800	4.00	0	108	80	120			
Anthracene	3.54	0.000800	4.00	0	88.6	80	120			
Atrazine	4.31	0.000800	4.00	0	108	80	120			
Benzaldehyde	4.21	0.000800	4.00	0	105	80	120			N
Benzo[a]anthracene	3.99	0.000800	4.00	0	99.7	80	120			
Benzo[a]pyrene	4.00	0.000800	4.00	0	100	80	120			
Benzo[b]fluoranthene	3.70	0.000800	4.00	0	92.4	80	120			
Benzo[g,h,i]perylene	3.80	0.000800	4.00	0	95.0	80	120			
Benzo[k]fluoranthene	3.98	0.000800	4.00	0	99.4	80	120			
Benzoic acid	4.05	0.00600	4.00	0	101	80	120			
Benzyl alcohol	5.09	0.00200	4.00	0	127	80	120			S
Biphenyl	3.70	0.000800	4.00	0	92.5	80	120			
Bis(2-chloroethoxy)methane	4.32	0.000800	4.00	0	108	80	120			
Bis(2-chloroethyl)ether	5.41	0.000800	4.00	0	135	80	120			S
Bis(2-chloroisopropyl)ether	5.34	0.000800	4.00	0	133	80	120			S
Bis(2-ethylhexyl)phthalate	4.14	0.00300	4.00	0	104	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150702A**

Sample ID	**ICV-150702**	Batch ID:	**R80423**	TestNo:	**SW8270D**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**GCMS9_150702A**	Analysis Date:	**7/2/2015 12:32:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	4.40	0.00600	4.00	0	110	80	120			
Caprolactam	3.93	0.000800	4.00	0	98.2	80	120			
Carbazole	3.61	0.000800	4.00	0	90.2	80	120			
Chrysene	3.65	0.000800	4.00	0	91.3	80	120			
Dibenz[a,h]anthracene	3.93	0.000800	4.00	0	98.3	80	120			
Dibenzofuran	3.66	0.000800	4.00	0	91.4	80	120			
Diethyl phthalate	3.88	0.00600	4.00	0	96.9	80	120			
Dimethyl phthalate	3.93	0.00600	4.00	0	98.2	80	120			
Di-n-butyl phthalate	4.04	0.00600	4.00	0	101	80	120			
Di-n-octyl phthalate	4.16	0.00600	4.00	0	104	80	120			
Fluoranthene	4.12	0.000800	4.00	0	103	80	120			
Fluorene	3.62	0.000800	4.00	0	90.6	80	120			
Hexachlorobenzene	3.80	0.000800	4.00	0	95.0	80	120			
Hexachlorobutadiene	3.58	0.000800	4.00	0	89.6	80	120			
Hexachlorocyclopentadiene	3.54	0.00200	4.00	0	88.4	80	120			
Hexachloroethane	4.22	0.000800	4.00	0	106	80	120			
Indeno[1,2,3-cd]pyrene	3.95	0.000800	4.00	0	98.9	80	120			
Isophorone	4.71	0.000800	4.00	0	118	80	120			
Naphthalene	3.79	0.000800	4.00	0	94.7	80	120			
Nitrobenzene	4.61	0.000800	4.00	0	115	80	120			
N-Nitrosodi-n-propylamine	5.05	0.000800	4.00	0	126	80	120			S
N-Nitrosodiphenylamine	3.92	0.000800	4.00	0	98.0	80	120			
Pentachlorophenol	2.84	0.000800	4.00	0	71.1	80	120			S
Phenanthrene	3.42	0.000800	4.00	0	85.6	80	120			
Phenol	4.29	0.000800	4.00	0	107	80	120			
Pyrene	4.22	0.000800	4.00	0	105	80	120			
Surr: 2,4,6-Tribromophenol	3950		4000		98.8	80	120			
Surr: 2-Fluorobiphenyl	3840		4000		96.0	80	120			
Surr: 2-Fluorophenol	4430		4000		111	80	120			
Surr: 4-Terphenyl-d14	4430		4000		111	80	120			
Surr: Nitrobenzene-d5	4880		4000		122	80	120			S
Surr: Phenol-d5	4920		4000		123	80	120			S

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150707A**

The QC data in batch 70307 applies to the following samples: 1506310-06B, 1506310-07C, 1506310-08C, 1506310-09C, 1506310-10C, 1506310-11C, 1506310-17C, 1506310-18C, 1506310-19C, 1506310-20C, 1506310-21C, 1506310-22C, 1506310-23C, 1506310-24C, 1506310-25C

Sample ID	**LCS-70307**	Batch ID:	**70307**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**GCMS9_150707A**	Analysis Date:	**7/7/2015 12:52:00 PM**	Prep Date:	**7/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	1.25	0.0266	1.340	0	93.5	49	125			
2,4,6-Trichlorophenol	1.18	0.0266	1.340	0	87.8	43	125			
2,4-Dichlorophenol	1.16	0.0266	1.340	0	86.5	45	125			
2,4-Dimethylphenol	0.997	0.0266	1.340	0	74.4	32	125			
2,4-Dinitrophenol	1.27	0.132	1.340	0	94.8	25	132			
2,4-Dinitrotoluene	1.35	0.0266	1.340	0	101	48	125			
2,6-Dinitrotoluene	1.21	0.0266	1.340	0	90.1	48	125			
2-Chloronaphthalene	1.09	0.0266	1.340	0	81.6	45	125			
2-Chlorophenol	1.18	0.0266	1.340	0	87.8	44	125			
2-Methylnaphthalene	1.05	0.0266	1.340	0	78.5	47	125			
2-Methylphenol	1.25	0.0266	1.340	0	93.2	40	125			
2-Nitroaniline	1.28	0.0266	1.340	0	95.9	44	125			
2-Nitrophenol	1.13	0.0266	1.340	0	84.0	42	125			
3,3´-Dichlorobenzidine	1.33	0.0266	1.340	0	99.5	25	128			
3-Nitroaniline	1.17	0.0266	1.340	0	87.3	27	126			
4,6-Dinitro-2-methylphenol	1.24	0.0660	1.340	0	92.7	29	137			
4-Bromophenyl phenyl ether	1.15	0.0266	1.340	0	85.5	46	125			
4-Chloro-3-methylphenol	1.24	0.0266	1.340	0	92.7	46	125			
4-Chloroaniline	0.783	0.0660	1.340	0	58.4	25	125			
4-Chlorophenyl phenyl ether	1.40	0.0266	1.340	0	104	47	125			
4-Methylphenol	1.27	0.0266	1.340	0	94.8	41	125			
4-Nitroaniline	1.44	0.0266	1.340	0	107	34	125			
4-Nitrophenol	1.65	0.132	1.340	0	123	25	138			
Acenaphthene	1.20	0.0266	1.340	0	89.4	46	125			
Acenaphthylene	1.10	0.0266	1.340	0	81.9	44	125			
Acetophenone	1.20	0.0266	1.340	0	89.5	40	125			
Anthracene	1.13	0.0266	1.340	0	84.4	53	125			
Atrazine	1.44	0.0266	1.340	0	107	40	125			
Benzaldehyde	1.24	0.0266	1.340	0	92.6	40	125			N
Benzo[a]anthracene	1.18	0.0266	1.340	0	87.8	52	125			
Benzo[a]pyrene	1.16	0.0266	1.340	0	86.3	50	125			
Benzo[b]fluoranthene	1.33	0.0266	1.340	0	99.2	45	125			
Benzo[g,h,i]perylene	1.21	0.0266	1.340	0	90.5	38	126			
Benzo[k]fluoranthene	1.11	0.0266	1.340	0	82.6	45	125			
Benzoic acid	1.12	0.132	1.340	0	83.3	25	125			
Benzyl alcohol	1.67	0.0660	1.340	0	125	25	125			
Biphenyl	1.09	0.0266	1.340	0	81.4	40	125			
Bis(2-chloroethoxy)methane	1.10	0.0266	1.340	0	81.8	43	125			
Bis(2-chloroethyl)ether	1.30	0.0266	1.340	0	97.0	38	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150707A**

Sample ID **LCS-70307**	Batch ID: **70307**	TestNo: **SW8270D**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **GCMS9_150707A**	Analysis Date: **7/7/2015 12:52:00 PM**	Prep Date: **7/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	1.23	0.0266	1.340	0	91.8	25	125			
Bis(2-ethylhexyl)phthalate	1.32	0.0660	1.340	0	98.9	47	127			
Butyl benzyl phthalate	1.45	0.0660	1.340	0	108	49	125			
Caprolactam	1.34	0.0266	1.340	0	99.7	40	125			
Carbazole	1.29	0.0266	1.340	0	96.5	40	125			
Chrysene	1.09	0.0266	1.340	0	81.2	53	125			
Dibenz[a,h]anthracene	1.23	0.0266	1.340	0	92.0	41	125			
Dibenzofuran	1.24	0.0266	1.340	0	92.7	51	125			
Diethyl phthalate	1.66	0.0660	1.340	0	124	50	125			
Dimethyl phthalate	1.20	0.0660	1.340	0	89.9	49	125			
Di-n-butyl phthalate	1.45	0.0660	1.340	0	108	56	125			
Di-n-octyl phthalate	1.38	0.0660	1.340	0	103	41	132			
Fluoranthene	1.16	0.0266	1.340	0	86.7	54	125			
Fluorene	1.50	0.0266	1.340	0	112	49	125			
Hexachlorobenzene	1.26	0.0266	1.340	0	93.7	47	125			
Hexachlorobutadiene	0.941	0.0266	1.340	0	70.2	40	125			
Hexachlorocyclopentadiene	0.833	0.0660	1.340	0	62.2	34	125			
Hexachloroethane	0.999	0.0266	1.340	0	74.6	34	125			
Indeno[1,2,3-cd]pyrene	1.25	0.0266	1.340	0	93.3	38	125			
Isophorone	1.17	0.0660	1.340	0	87.7	43	125			
Naphthalene	1.01	0.0266	1.340	0	75.3	40	125			
Nitrobenzene	1.11	0.0266	1.340	0	82.9	41	125			
N-Nitrosodi-n-propylamine	1.28	0.0266	1.340	0	95.7	40	125			
N-Nitrosodiphenylamine	1.23	0.0266	1.340	0	92.1	49	125			
Pentachlorophenol	1.04	0.0266	1.340	0	77.7	25	125			
Phenanthrene	1.15	0.0266	1.340	0	85.7	50	125			
Phenol	1.23	0.0266	1.340	0	91.6	25	125			
Pyrene	1.41	0.0266	1.340	0	105	46	125			
Surr: 2,4,6-Tribromophenol	0.613		0.6670		92.0	45	138			
Surr: 2-Fluorobiphenyl	0.533		0.6670		80.0	60	135			
Surr: 2-Fluorophenol	0.600		0.6670		90.0	37	125			
Surr: 4-Terphenyl-d14	0.680		0.6670		102	60	129			
Surr: Nitrobenzene-d5	0.560		0.6670		84.0	45	125			
Surr: Phenol-d5	0.640		0.6670		96.0	40	125			

Sample ID **MB-70307**	Batch ID: **70307**	TestNo: **SW8270D**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GCMS9_150707A**	Analysis Date: **7/7/2015 2:50:00 PM**	Prep Date: **7/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	<0.0100	0.0266								
2,4,6-Trichlorophenol	<0.0100	0.0266								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150707A**

Sample ID	**MB-70307**	Batch ID:	**70307**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**GCMS9_150707A**	Analysis Date:	**7/7/2015 2:50:00 PM**	Prep Date:	**7/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-Dichlorophenol	<0.0100	0.0266								
2,4-Dimethylphenol	<0.0100	0.0266								
2,4-Dinitrophenol	<0.0500	0.132								
2,4-Dinitrotoluene	<0.0100	0.0266								
2,6-Dinitrotoluene	<0.0100	0.0266								
2-Chloronaphthalene	<0.0100	0.0266								
2-Chlorophenol	<0.0100	0.0266								
2-Methylnaphthalene	<0.0100	0.0266								
2-Methylphenol	<0.0100	0.0266								
2-Nitroaniline	<0.0100	0.0266								
2-Nitrophenol	<0.0100	0.0266								
3,3´-Dichlorobenzidine	<0.0100	0.0266								
3-Nitroaniline	<0.0100	0.0266								
4,6-Dinitro-2-methylphenol	<0.0300	0.0660								
4-Bromophenyl phenyl ether	<0.0100	0.0266								
4-Chloro-3-methylphenol	<0.0100	0.0266								
4-Chloroaniline	<0.0300	0.0660								
4-Chlorophenyl phenyl ether	<0.0100	0.0266								
4-Methylphenol	<0.0200	0.0266								
4-Nitroaniline	<0.0100	0.0266								
4-Nitrophenol	<0.0500	0.132								
Acenaphthene	<0.0100	0.0266								
Acenaphthylene	<0.0100	0.0266								
Acetophenone	<0.0100	0.0266								
Anthracene	<0.0100	0.0266								
Atrazine	<0.0100	0.0266								
Benzaldehyde	<0.0100	0.0266								N
Benzo[a]anthracene	<0.0100	0.0266								
Benzo[a]pyrene	<0.0100	0.0266								
Benzo[b]fluoranthene	<0.0100	0.0266								
Benzo[g,h,i]perylene	<0.0100	0.0266								
Benzo[k]fluoranthene	<0.0100	0.0266								
Benzoic acid	<0.0500	0.132								
Benzyl alcohol	<0.0100	0.0660								
Biphenyl	<0.0100	0.0266								
Bis(2-chloroethoxy)methane	<0.0100	0.0266								
Bis(2-chloroethyl)ether	<0.0100	0.0266								
Bis(2-chloroisopropyl)ether	<0.0100	0.0266								
Bis(2-ethylhexyl)phthalate	0.0360	0.0660								
Butyl benzyl phthalate	<0.0400	0.0660								
Caprolactam	<0.0200	0.0266								

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150707A**

Sample ID **MB-70307**	Batch ID: **70307**	TestNo: **SW8270D**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GCMS9_150707A**	Analysis Date: **7/7/2015 2:50:00 PM**	Prep Date: **7/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Carbazole	<0.0100	0.0266								
Chrysene	<0.0100	0.0266								
Dibenz[a,h]anthracene	<0.0100	0.0266								
Dibenzofuran	<0.0100	0.0266								
Diethyl phthalate	<0.0400	0.0660								
Dimethyl phthalate	<0.0400	0.0660								
Di-n-butyl phthalate	<0.0400	0.0660								
Di-n-octyl phthalate	<0.0400	0.0660								
Fluoranthene	<0.0100	0.0266								
Fluorene	<0.0100	0.0266								
Hexachlorobenzene	<0.0100	0.0266								
Hexachlorobutadiene	<0.0100	0.0266								
Hexachlorocyclopentadiene	<0.0300	0.0660								
Hexachloroethane	<0.0100	0.0266								
Indeno[1,2,3-cd]pyrene	<0.0100	0.0266								
Isophorone	<0.0300	0.0660								
Naphthalene	<0.0100	0.0266								
Nitrobenzene	<0.0100	0.0266								
N-Nitrosodi-n-propylamine	<0.0100	0.0266								
N-Nitrosodiphenylamine	<0.0100	0.0266								
Pentachlorophenol	<0.0100	0.0266								
Phenanthrene	<0.0100	0.0266								
Phenol	<0.0100	0.0266								
Pyrene	<0.0100	0.0266								
Surr: 2,4,6-Tribromophenol	0.387		0.6670		58.0	45	138			
Surr: 2-Fluorobiphenyl	0.513		0.6670		77.0	60	135			
Surr: 2-Fluorophenol	0.573		0.6670		86.0	37	125			
Surr: 4-Terphenyl-d14	0.633		0.6670		95.0	60	129			
Surr: Nitrobenzene-d5	0.540		0.6670		81.0	45	125			
Surr: Phenol-d5	0.673		0.6670		101	40	125			

Sample ID **1507014-01CMS**	Batch ID: **70307**	TestNo: **SW8270D**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GCMS9_150707A**	Analysis Date: **7/7/2015 3:36:00 PM**	Prep Date: **7/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	1.50	0.0305	1.536	0	97.6	49	125			
2,4,6-Trichlorophenol	1.41	0.0305	1.536	0	91.7	43	125			
2,4-Dichlorophenol	1.39	0.0305	1.536	0	90.6	45	125			
2,4-Dimethylphenol	1.29	0.0305	1.536	0	83.8	32	125			
2,4-Dinitrophenol	1.20	0.151	1.536	0	78.3	25	132			
2,4-Dinitrotoluene	1.42	0.0305	1.536	0	92.4	48	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150707A**

Sample ID	**1507014-01CMS**	Batch ID:	**70307**	TestNo:	**SW8270D**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**GCMS9_150707A**	Analysis Date:	**7/7/2015 3:36:00 PM**	Prep Date:	**7/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	1.44	0.0305	1.536	0	93.8	48	125			
2-Chloronaphthalene	1.36	0.0305	1.536	0	88.3	45	125			
2-Chlorophenol	1.48	0.0305	1.536	0	96.2	44	125			
2-Methylnaphthalene	1.28	0.0305	1.536	0	83.2	47	125			
2-Methylphenol	1.59	0.0305	1.536	0	103	40	125			
2-Nitroaniline	1.50	0.0305	1.536	0	97.7	44	125			
2-Nitrophenol	1.34	0.0305	1.536	0	87.3	42	125			
3,3´-Dichlorobenzidine	1.16	0.0305	1.536	0	75.5	25	128			
3-Nitroaniline	1.34	0.0305	1.536	0	87.1	27	126			
4,6-Dinitro-2-methylphenol	1.34	0.0757	1.536	0	87.3	29	137			
4-Bromophenyl phenyl ether	1.38	0.0305	1.536	0	89.8	46	125			
4-Chloro-3-methylphenol	1.46	0.0305	1.536	0	95.1	46	125			
4-Chloroaniline	0.740	0.0757	1.536	0	48.2	25	125			
4-Chlorophenyl phenyl ether	1.35	0.0305	1.536	0	88.1	47	125			
4-Methylphenol	1.57	0.0305	1.536	0	102	41	125			
4-Nitroaniline	1.29	0.0305	1.536	0	84.0	34	125			
4-Nitrophenol	1.70	0.151	1.536	0	111	25	138			
Acenaphthene	1.34	0.0305	1.536	0	87.3	46	125			
Acenaphthylene	1.35	0.0305	1.536	0	88.2	44	125			
Acetophenone	1.47	0.0305	1.536	0	96.0	40	125			
Anthracene	1.39	0.0305	1.536	0	90.2	53	125			
Atrazine	1.56	0.0305	1.536	0	102	40	125			
Benzaldehyde	1.43	0.0305	1.536	0	93.3	40	125			N
Benzo[a]anthracene	1.51	0.0305	1.536	0	98.1	52	125			
Benzo[a]pyrene	1.47	0.0305	1.536	0	95.7	50	125			
Benzo[b]fluoranthene	1.56	0.0305	1.536	0	102	45	125			
Benzo[g,h,i]perylene	1.45	0.0305	1.536	0	94.4	38	126			
Benzo[k]fluoranthene	1.63	0.0305	1.536	0	106	45	125			
Benzoic acid	0.773	0.151	1.536	0.07044	45.8	25	125			
Benzyl alcohol	1.99	0.0757	1.536	0	129	25	125			S
Biphenyl	1.36	0.0305	1.536	0	88.7	40	125			
Bis(2-chloroethoxy)methane	1.35	0.0305	1.536	0	87.9	43	125			
Bis(2-chloroethyl)ether	1.79	0.0305	1.536	0	116	38	125			
Bis(2-chloroisopropyl)ether	1.53	0.0305	1.536	0	99.7	25	125			
Bis(2-ethylhexyl)phthalate	1.93	0.0757	1.536	0.04288	123	47	127			
Butyl benzyl phthalate	1.66	0.0757	1.536	0	108	49	125			
Caprolactam	1.46	0.0305	1.536	0	95.2	40	125			
Carbazole	1.46	0.0305	1.536	0	95.0	40	125			
Chrysene	1.60	0.0305	1.536	0	104	53	125			
Dibenz[a,h]anthracene	1.47	0.0305	1.536	0	95.8	41	125			
Dibenzofuran	1.33	0.0305	1.536	0	86.9	51	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150707A**

Sample ID **1507014-01CMS**	Batch ID: **70307**	TestNo: **SW8270D**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GCMS9_150707A**	Analysis Date: **7/7/2015 3:36:00 PM**	Prep Date: **7/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diethyl phthalate	1.50	0.0757	1.536	0	97.8	50	125			
Dimethyl phthalate	1.46	0.0757	1.536	0	95.3	49	125			
Di-n-butyl phthalate	1.70	0.0757	1.536	0.04671	107	56	125			
Di-n-octyl phthalate	1.85	0.0757	1.536	0	121	41	132			
Fluoranthene	1.80	0.0305	1.536	0	117	54	125			
Fluorene	1.38	0.0305	1.536	0	89.8	49	125			
Hexachlorobenzene	1.33	0.0305	1.536	0	86.8	47	125			
Hexachlorobutadiene	1.11	0.0305	1.536	0	72.0	40	125			
Hexachlorocyclopentadiene	0.953	0.0757	1.536	0	62.0	34	125			
Hexachloroethane	1.19	0.0305	1.536	0	77.6	34	125			
Indeno[1,2,3-cd]pyrene	1.49	0.0305	1.536	0	97.0	38	125			
Isophorone	1.46	0.0757	1.536	0	95.1	43	125			
Naphthalene	1.28	0.0305	1.536	0	83.4	40	125			
Nitrobenzene	1.37	0.0305	1.536	0	89.4	41	125			
N-Nitrosodi-n-propylamine	1.62	0.0305	1.536	0	105	40	125			
N-Nitrosodiphenylamine	1.44	0.0305	1.536	0	93.4	49	125			
Pentachlorophenol	1.19	0.0305	1.536	0	77.2	25	125			
Phenanthrene	1.36	0.0305	1.536	0	88.7	50	125			
Phenol	1.53	0.0305	1.536	0	99.6	25	125			
Pyrene	1.57	0.0305	1.536	0	102	46	125			
Surr: 2,4,6-Tribromophenol	0.680		0.7646		89.0	45	138			
Surr: 2-Fluorobiphenyl	0.642		0.7646		84.0	60	135			
Surr: 2-Fluorophenol	0.864		0.7646		113	37	125			
Surr: 4-Terphenyl-d14	0.680		0.7646		89.0	60	129			
Surr: Nitrobenzene-d5	0.695		0.7646		91.0	45	125			
Surr: Phenol-d5	0.780		0.7646		102	40	125			

Sample ID **1507014-01CMSD**	Batch ID: **70307**	TestNo: **SW8270D**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GCMS9_150707A**	Analysis Date: **7/7/2015 3:59:00 PM**	Prep Date: **7/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	1.28	0.0312	1.571	0	81.7	49	125	15.5	30	
2,4,6-Trichlorophenol	1.24	0.0312	1.571	0	78.9	43	125	12.8	30	
2,4-Dichlorophenol	1.49	0.0312	1.571	0	94.7	45	125	6.64	30	
2,4-Dimethylphenol	1.39	0.0312	1.571	0	88.6	32	125	7.78	30	
2,4-Dinitrophenol	1.30	0.155	1.571	0	82.5	25	132	7.56	30	
2,4-Dinitrotoluene	1.56	0.0312	1.571	0	99.3	48	125	9.45	30	
2,6-Dinitrotoluene	1.43	0.0312	1.571	0	90.8	48	125	0.996	30	
2-Chloronaphthalene	1.14	0.0312	1.571	0	72.3	45	125	17.7	30	
2-Chlorophenol	1.55	0.0312	1.571	0	98.4	44	125	4.44	30	
2-Methylnaphthalene	1.32	0.0312	1.571	0	84.3	47	125	3.60	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150707A**

Sample ID	**1507014-01CMSD**	Batch ID:	**70307**	TestNo:	**SW8270D**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**GCMS9_150707A**	Analysis Date:	**7/7/2015 3:59:00 PM**	Prep Date:	**7/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	1.69	0.0312	1.571	0	107	40	125	6.16	30	
2-Nitroaniline	1.29	0.0312	1.571	0	82.1	44	125	15.1	30	
2-Nitrophenol	1.50	0.0312	1.571	0	95.6	42	125	11.4	30	
3,3´-Dichlorobenzidine	1.11	0.0312	1.571	0	70.7	25	128	4.30	30	
3-Nitroaniline	1.38	0.0312	1.571	0	87.9	27	126	3.15	30	
4,6-Dinitro-2-methylphenol	1.50	0.0774	1.571	0	95.3	29	137	11.0	30	
4-Bromophenyl phenyl ether	1.54	0.0312	1.571	0	98.3	46	125	11.3	30	
4-Chloro-3-methylphenol	1.54	0.0312	1.571	0	98.0	46	125	5.22	30	
4-Chloroaniline	0.758	0.0774	1.571	0	48.3	25	125	2.44	30	
4-Chlorophenyl phenyl ether	1.56	0.0312	1.571	0	99.6	47	125	14.4	30	
4-Methylphenol	1.64	0.0312	1.571	0	104	41	125	4.45	30	
4-Nitroaniline	1.38	0.0312	1.571	0	88.0	34	125	6.86	30	
4-Nitrophenol	1.91	0.155	1.571	0	121	25	138	11.4	30	
Acenaphthene	1.33	0.0312	1.571	0	84.8	46	125	0.655	30	
Acenaphthylene	1.17	0.0312	1.571	0	74.3	44	125	14.9	30	
Acetophenone	1.53	0.0312	1.571	0	97.7	40	125	3.93	30	
Anthracene	1.46	0.0312	1.571	0	92.7	53	125	4.96	30	
Atrazine	1.61	0.0312	1.571	0	102	40	125	2.92	30	
Benzaldehyde	1.46	0.0312	1.571	0	93.1	40	125	1.97	30	N
Benzo[a]anthracene	1.47	0.0312	1.571	0	93.9	52	125	2.12	30	
Benzo[a]pyrene	1.48	0.0312	1.571	0	94.1	50	125	0.612	30	
Benzo[b]fluoranthene	1.47	0.0312	1.571	0	93.5	45	125	6.17	30	
Benzo[g,h,i]perylene	1.44	0.0312	1.571	0	91.5	38	126	0.814	30	
Benzo[k]fluoranthene	1.46	0.0312	1.571	0	92.7	45	125	11.3	30	
Benzoic acid	0.980	0.155	1.571	0.07044	57.9	25	125	23.6	30	
Benzyl alcohol	2.00	0.0774	1.571	0	127	25	125	0.530	30	S
Biphenyl	1.17	0.0312	1.571	0	74.4	40	125	15.2	30	
Bis(2-chloroethoxy)methane	1.45	0.0312	1.571	0	92.3	43	125	7.15	30	
Bis(2-chloroethyl)ether	1.84	0.0312	1.571	0	117	38	125	3.17	30	
Bis(2-chloroisopropyl)ether	1.52	0.0312	1.571	0	96.9	25	125	0.547	30	
Bis(2-ethylhexyl)phthalate	1.64	0.0774	1.571	0.04288	102	47	127	16.3	30	
Butyl benzyl phthalate	1.59	0.0774	1.571	0	101	49	125	4.34	30	
Caprolactam	1.56	0.0312	1.571	0	99.2	40	125	6.33	30	
Carbazole	1.42	0.0312	1.571	0	90.1	40	125	2.98	30	
Chrysene	1.39	0.0312	1.571	0	88.5	53	125	13.9	30	
Dibenz[a,h]anthracene	1.47	0.0312	1.571	0	93.5	41	125	0.180	30	
Dibenzofuran	1.54	0.0312	1.571	0	98.3	51	125	14.5	30	
Diethyl phthalate	1.78	0.0774	1.571	0	113	50	125	17.1	30	
Dimethyl phthalate	1.27	0.0774	1.571	0	81.1	49	125	13.9	30	
Di-n-butyl phthalate	1.29	0.0774	1.571	0.04671	79.1	56	125	27.2	30	
Di-n-octyl phthalate	1.64	0.0774	1.571	0	105	41	132	12.0	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150707A**

Sample ID **1507014-01CMSD**	Batch ID: **70307**	TestNo: **SW8270D**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GCMS9_150707A**	Analysis Date: **7/7/2015 3:59:00 PM**	Prep Date: **7/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoranthene	1.25	0.0312	1.571	0	79.5	54	125	36.3	30	R
Fluorene	1.65	0.0312	1.571	0	105	49	125	17.7	30	
Hexachlorobenzene	1.37	0.0312	1.571	0	87.1	47	125	2.64	30	
Hexachlorobutadiene	1.13	0.0312	1.571	0	72.0	40	125	2.24	30	
Hexachlorocyclopentadiene	0.817	0.0774	1.571	0	52.0	34	125	15.4	30	
Hexachloroethane	1.20	0.0312	1.571	0	76.4	34	125	0.622	30	
Indeno[1,2,3-cd]pyrene	1.48	0.0312	1.571	0	94.3	38	125	0.571	30	
Isophorone	1.53	0.0774	1.571	0	97.2	43	125	4.41	30	
Naphthalene	1.27	0.0312	1.571	0	81.0	40	125	0.607	30	
Nitrobenzene	1.41	0.0312	1.571	0	89.7	41	125	2.57	30	
N-Nitrosodi-n-propylamine	1.66	0.0312	1.571	0	106	40	125	2.61	30	
N-Nitrosodiphenylamine	1.58	0.0312	1.571	0	100	49	125	9.37	30	
Pentachlorophenol	1.19	0.0312	1.571	0	75.5	25	125	0.043	30	
Phenanthrene	1.35	0.0312	1.571	0	86.2	50	125	0.665	30	
Phenol	1.59	0.0312	1.571	0	101	25	125	3.87	30	
Pyrene	1.49	0.0312	1.571	0	94.9	46	125	5.38	30	
Surr: 2,4,6-Tribromophenol	0.742		0.7819		95.0	45	138	0	0	
Surr: 2-Fluorobiphenyl	0.563		0.7819		72.0	60	135	0	0	
Surr: 2-Fluorophenol	0.914		0.7819		117	37	125	0	0	
Surr: 4-Terphenyl-d14	0.680		0.7819		87.0	60	129	0	0	
Surr: Nitrobenzene-d5	0.742		0.7819		95.0	45	125	0	0	
Surr: Phenol-d5	0.821		0.7819		105	40	125	0	0	

Sample ID **SB-150707**	Batch ID: **70307**	TestNo: **SW8270D**	Units: **mg/Kg**
SampType: **SBLK**	Run ID: **GCMS9_150707A**	Analysis Date: **7/7/2015 5:55:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	<0.0100	0.0266	0							
2,4,6-Trichlorophenol	<0.0100	0.0266	0							
2,4-Dichlorophenol	<0.0100	0.0266	0							
2,4-Dimethylphenol	<0.0100	0.0266	0							
2,4-Dinitrophenol	<0.0500	0.132	0							
2,4-Dinitrotoluene	<0.0100	0.0266	0							
2,6-Dinitrotoluene	<0.0100	0.0266	0							
2-Chloronaphthalene	<0.0100	0.0266	0							
2-Chlorophenol	<0.0100	0.0266	0							
2-Methylnaphthalene	<0.0100	0.0266	0							
2-Methylphenol	<0.0100	0.0266	0							
2-Nitroaniline	<0.0100	0.0266	0							
2-Nitrophenol	<0.0100	0.0266	0							
3,3´-Dichlorobenzidine	<0.0100	0.0266	0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150707A**

Sample ID	**SB-150707**	Batch ID:	**70307**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**SBLK**	Run ID:	**GCMS9_150707A**	Analysis Date:	**7/7/2015 5:55:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
3-Nitroaniline	<0.0100	0.0266	0							
4,6-Dinitro-2-methylphenol	<0.0300	0.0660	0							
4-Bromophenyl phenyl ether	<0.0100	0.0266	0							
4-Chloro-3-methylphenol	<0.0100	0.0266	0							
4-Chloroaniline	<0.0300	0.0660	0							
4-Chlorophenyl phenyl ether	<0.0100	0.0266	0							
4-Methylphenol	<0.0200	0.0266	0							
4-Nitroaniline	<0.0100	0.0266	0							
4-Nitrophenol	<0.0500	0.132	0							
Acenaphthene	<0.0100	0.0266	0							
Acenaphthylene	<0.0100	0.0266	0							
Acetophenone	<0.0100	0.0266	0							
Anthracene	<0.0100	0.0266	0							
Atrazine	<0.0100	0.0266	0							
Benzaldehyde	<0.0100	0.0266	0							N
Benzo[a]anthracene	<0.0100	0.0266	0							
Benzo[a]pyrene	<0.0100	0.0266	0							
Benzo[b]fluoranthene	<0.0100	0.0266	0							
Benzo[g,h,i]perylene	<0.0100	0.0266	0							
Benzo[k]fluoranthene	<0.0100	0.0266	0							
Benzoic acid	<0.0500	0.132	0							
Benzyl alcohol	<0.0100	0.0660	0							
Biphenyl	<0.0100	0.0266	0							
Bis(2-chloroethoxy)methane	<0.0100	0.0266	0							
Bis(2-chloroethyl)ether	<0.0100	0.0266	0							
Bis(2-chloroisopropyl)ether	<0.0100	0.0266	0							
Bis(2-ethylhexyl)phthalate	<0.0300	0.0660	0							
Butyl benzyl phthalate	<0.0400	0.0660	0							
Caprolactam	<0.0200	0.0266	0							
Carbazole	<0.0100	0.0266	0							
Chrysene	<0.0100	0.0266	0							
Dibenz[a,h]anthracene	<0.0100	0.0266	0							
Dibenzofuran	<0.0100	0.0266	0							
Diethyl phthalate	<0.0400	0.0660	0							
Dimethyl phthalate	<0.0400	0.0660	0							
Di-n-butyl phthalate	<0.0400	0.0660	0							
Di-n-octyl phthalate	<0.0400	0.0660	0							
Fluoranthene	<0.0100	0.0266	0							
Fluorene	<0.0100	0.0266	0							
Hexachlorobenzene	<0.0100	0.0266	0							
Hexachlorobutadiene	<0.0100	0.0266	0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150707A**

Sample ID	**SB-150707**	Batch ID:	**70307**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**SBLK**	Run ID:	**GCMS9_150707A**	Analysis Date:	**7/7/2015 5:55:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorocyclopentadiene	<0.0300	0.0660	0							
Hexachloroethane	<0.0100	0.0266	0							
Indeno[1,2,3-cd]pyrene	<0.0100	0.0266	0							
Isophorone	<0.0300	0.0660	0							
Naphthalene	<0.0100	0.0266	0							
Nitrobenzene	<0.0100	0.0266	0							
N-Nitrosodi-n-propylamine	<0.0100	0.0266	0							
N-Nitrosodiphenylamine	<0.0100	0.0266	0							
Pentachlorophenol	<0.0100	0.0266	0							
Phenanthrene	<0.0100	0.0266	0							
Phenol	<0.0100	0.0266	0							
Pyrene	<0.0100	0.0266	0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150707A**

Sample ID **ICV-150707**	Batch ID: **R80471**	TestNo: **SW8270D**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GCMS9_150707A**	Analysis Date: **7/7/2015 12:29:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	4.48	0.0266	4.000	0	112	80	120			
2,4,6-Trichlorophenol	4.31	0.0266	4.000	0	108	80	120			
2,4-Dichlorophenol	4.37	0.0266	4.000	0	109	80	120			
2,4-Dimethylphenol	4.36	0.0266	4.000	0	109	80	120			
2,4-Dinitrophenol	4.04	0.132	4.000	0	101	80	120			
2,4-Dinitrotoluene	4.10	0.0266	4.000	0	102	80	120			
2,6-Dinitrotoluene	4.20	0.0266	4.000	0	105	80	120			
2-Chloronaphthalene	3.97	0.0266	4.000	0	99.4	80	120			
2-Chlorophenol	4.48	0.0266	4.000	0	112	80	120			
2-Methylnaphthalene	4.07	0.0266	4.000	0	102	80	120			
2-Methylphenol	4.83	0.0266	4.000	0	121	80	120			S
2-Nitroaniline	4.16	0.0266	4.000	0	104	80	120			
2-Nitrophenol	4.13	0.0266	4.000	0	103	80	120			
3,3´-Dichlorobenzidine	4.37	0.0266	4.000	0	109	80	120			
3-Nitroaniline	3.73	0.0266	4.000	0	93.3	80	120			
4,6-Dinitro-2-methylphenol	4.16	0.0660	4.000	0	104	80	120			
4-Bromophenyl phenyl ether	4.03	0.0266	4.000	0	101	80	120			
4-Chloro-3-methylphenol	4.59	0.0266	4.000	0	115	80	120			
4-Chloroaniline	3.95	0.0660	4.000	0	98.8	80	120			
4-Chlorophenyl phenyl ether	4.13	0.0266	4.000	0	103	80	120			
4-Methylphenol	4.80	0.0266	4.000	0	120	80	120			
4-Nitroaniline	4.06	0.0266	4.000	0	102	80	120			
4-Nitrophenol	4.71	0.132	4.000	0	118	80	120			
Acenaphthene	3.94	0.0266	4.000	0	98.6	80	120			
Acenaphthylene	4.19	0.0266	4.000	0	105	80	120			
Acetophenone	4.49	0.0266	4.000	0	112	80	120			
Anthracene	4.09	0.0266	4.000	0	102	80	120			
Atrazine	4.48	0.0266	4.000	0	112	80	120			
Benzaldehyde	4.34	0.0266	4.000	0	109	80	120			N
Benzo[a]anthracene	4.09	0.0266	4.000	0	102	80	120			
Benzo[a]pyrene	4.06	0.0266	4.000	0	101	80	120			
Benzo[b]fluoranthene	3.55	0.0266	4.000	0	88.8	80	120			
Benzo[g,h,i]perylene	3.33	0.0266	4.000	0	83.2	80	120			
Benzo[k]fluoranthene	3.23	0.0266	4.000	0	80.7	80	120			
Benzoic acid	4.39	0.132	4.000	0	110	80	120			
Benzyl alcohol	5.35	0.0660	4.000	0	134	80	120			S
Biphenyl	3.98	0.0266	4.000	0	99.4	80	120			
Bis(2-chloroethoxy)methane	4.27	0.0266	4.000	0	107	80	120			
Bis(2-chloroethyl)ether	5.63	0.0266	4.000	0	141	80	120			S
Bis(2-chloroisopropyl)ether	4.67	0.0266	4.000	0	117	80	120			
Bis(2-ethylhexyl)phthalate	4.47	0.0660	4.000	0	112	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150707A**

Sample ID **ICV-150707** Batch ID: **R80471** TestNo: **SW8270D** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS9_150707A** Analysis Date: **7/7/2015 12:29:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	4.33	0.0660	4.000	0	108	80	120			
Caprolactam	4.12	0.0266	4.000	0	103	80	120			
Carbazole	4.20	0.0266	4.000	0	105	80	120			
Chrysene	3.80	0.0266	4.000	0	95.0	80	120			
Dibenz[a,h]anthracene	3.40	0.0266	4.000	0	85.0	80	120			
Dibenzofuran	3.99	0.0266	4.000	0	99.7	80	120			
Diethyl phthalate	4.21	0.0660	4.000	0	105	80	120			
Dimethyl phthalate	4.22	0.0660	4.000	0	106	80	120			
Di-n-butyl phthalate	4.36	0.0660	4.000	0	109	80	120			
Di-n-octyl phthalate	3.58	0.0660	4.000	0	89.6	80	120			
Fluoranthene	4.16	0.0266	4.000	0	104	80	120			
Fluorene	4.17	0.0266	4.000	0	104	80	120			
Hexachlorobenzene	3.95	0.0266	4.000	0	98.6	80	120			
Hexachlorobutadiene	3.82	0.0266	4.000	0	95.4	80	120			
Hexachlorocyclopentadiene	3.74	0.0660	4.000	0	93.5	80	120			
Hexachloroethane	4.24	0.0266	4.000	0	106	80	120			
Indeno[1,2,3-cd]pyrene	3.45	0.0266	4.000	0	86.2	80	120			
Isophorone	4.87	0.0660	4.000	0	122	80	120			S
Naphthalene	3.93	0.0266	4.000	0	98.2	80	120			
Nitrobenzene	4.36	0.0266	4.000	0	109	80	120			
N-Nitrosodi-n-propylamine	4.99	0.0266	4.000	0	125	80	120			S
N-Nitrosodiphenylamine	3.97	0.0266	4.000	0	99.3	80	120			
Pentachlorophenol	3.60	0.0266	4.000	0	90.0	80	120			
Phenanthrene	3.87	0.0266	4.000	0	96.7	80	120			
Phenol	4.49	0.0266	4.000	0	112	80	120			
Pyrene	4.09	0.0266	4.000	0	102	80	120			
Surr: 2,4,6-Tribromophenol	4.14		4.000		104	80	120			
Surr: 2-Fluorobiphenyl	4.14		4.000		104	80	120			
Surr: 2-Fluorophenol	4.67		4.000		117	80	120			
Surr: 4-Terphenyl-d14	4.64		4.000		116	80	120			
Surr: Nitrobenzene-d5	4.70		4.000		118	80	120			
Surr: Phenol-d5	5.25		4.000		131	80	120			S

Sample ID **ICV-150707** Batch ID: **R80471** TestNo: **SW8270D** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS9_150707A** Analysis Date: **7/7/2015 5:09:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	4.26	0.0266	4.000	0	107	80	120			
2,4,6-Trichlorophenol	4.10	0.0266	4.000	0	103	80	120			
2,4-Dichlorophenol	3.98	0.0266	4.000	0	99.4	80	120			
2,4-Dimethylphenol	3.93	0.0266	4.000	0	98.2	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150707A**

Sample ID **ICV-150707**	Batch ID: **R80471**	TestNo: **SW8270D**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GCMS9_150707A**	Analysis Date: **7/7/2015 5:09:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-Dinitrophenol	3.87	0.132	4.000	0	96.8	80	120			
2,4-Dinitrotoluene	3.98	0.0266	4.000	0	99.4	80	120			
2,6-Dinitrotoluene	4.06	0.0266	4.000	0	102	80	120			
2-Chloronaphthalene	3.85	0.0266	4.000	0	96.3	80	120			
2-Chlorophenol	4.25	0.0266	4.000	0	106	80	120			
2-Methylnaphthalene	3.69	0.0266	4.000	0	92.2	80	120			
2-Methylphenol	4.42	0.0266	4.000	0	110	80	120			
2-Nitroaniline	4.00	0.0266	4.000	0	100	80	120			
2-Nitrophenol	3.87	0.0266	4.000	0	96.7	80	120			
3,3´-Dichlorobenzidine	4.13	0.0266	4.000	0	103	80	120			
3-Nitroaniline	3.71	0.0266	4.000	0	92.8	80	120			
4,6-Dinitro-2-methylphenol	3.94	0.0660	4.000	0	98.6	80	120			
4-Bromophenyl phenyl ether	3.87	0.0266	4.000	0	96.8	80	120			
4-Chloro-3-methylphenol	4.12	0.0266	4.000	0	103	80	120			
4-Chloroaniline	3.57	0.0660	4.000	0	89.2	80	120			
4-Chlorophenyl phenyl ether	3.85	0.0266	4.000	0	96.2	80	120			
4-Methylphenol	4.34	0.0266	4.000	0	109	80	120			
4-Nitroaniline	3.87	0.0266	4.000	0	96.8	80	120			
4-Nitrophenol	4.52	0.132	4.000	0	113	80	120			
Acenaphthene	3.77	0.0266	4.000	0	94.3	80	120			
Acenaphthylene	3.97	0.0266	4.000	0	99.4	80	120			
Acetophenone	4.20	0.0266	4.000	0	105	80	120			
Anthracene	3.88	0.0266	4.000	0	97.1	80	120			
Atrazine	4.22	0.0266	4.000	0	105	80	120			
Benzaldehyde	3.90	0.0266	4.000	0	97.5	80	120			N
Benzo[a]anthracene	3.97	0.0266	4.000	0	99.3	80	120			
Benzo[a]pyrene	3.58	0.0266	4.000	0	89.4	80	120			
Benzo[b]fluoranthene	3.87	0.0266	4.000	0	96.9	80	120			
Benzo[g,h,i]perylene	2.99	0.0266	4.000	0	74.8	80	120			S
Benzo[k]fluoranthene	3.66	0.0266	4.000	0	91.6	80	120			
Benzoic acid	3.96	0.132	4.000	0	99.0	80	120			
Benzyl alcohol	4.82	0.0660	4.000	0	121	80	120			S
Biphenyl	3.82	0.0266	4.000	0	95.5	80	120			
Bis(2-chloroethoxy)methane	3.90	0.0266	4.000	0	97.6	80	120			
Bis(2-chloroethyl)ether	5.24	0.0266	4.000	0	131	80	120			S
Bis(2-chloroisopropyl)ether	4.47	0.0266	4.000	0	112	80	120			
Bis(2-ethylhexyl)phthalate	4.55	0.0660	4.000	0	114	80	120			
Butyl benzyl phthalate	4.54	0.0660	4.000	0	113	80	120			
Caprolactam	3.83	0.0266	4.000	0	95.8	80	120			
Carbazole	3.94	0.0266	4.000	0	98.6	80	120			
Chrysene	3.50	0.0266	4.000	0	87.5	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150707A**

Sample ID **ICV-150707**	Batch ID: **R80471**	TestNo: **SW8270D**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GCMS9_150707A**	Analysis Date: **7/7/2015 5:09:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dibenz[a,h]anthracene	3.20	0.0266	4.000	0	79.9	80	120			
Dibenzofuran	3.79	0.0266	4.000	0	94.7	80	120			
Diethyl phthalate	4.02	0.0660	4.000	0	100	80	120			
Dimethyl phthalate	4.08	0.0660	4.000	0	102	80	120			
Di-n-butyl phthalate	4.08	0.0660	4.000	0	102	80	120			
Di-n-octyl phthalate	3.99	0.0660	4.000	0	99.6	80	120			
Fluoranthene	4.08	0.0266	4.000	0	102	80	120			
Fluorene	3.87	0.0266	4.000	0	96.6	80	120			
Hexachlorobenzene	3.77	0.0266	4.000	0	94.2	80	120			
Hexachlorobutadiene	3.61	0.0266	4.000	0	90.2	80	120			
Hexachlorocyclopentadiene	3.59	0.0660	4.000	0	89.7	80	120			
Hexachloroethane	3.98	0.0266	4.000	0	99.5	80	120			
Indeno[1,2,3-cd]pyrene	3.27	0.0266	4.000	0	81.8	80	120			
Isophorone	4.19	0.0660	4.000	0	105	80	120			
Naphthalene	3.68	0.0266	4.000	0	91.9	80	120			
Nitrobenzene	4.12	0.0266	4.000	0	103	80	120			
N-Nitrosodi-n-propylamine	4.64	0.0266	4.000	0	116	80	120			
N-Nitrosodiphenylamine	3.81	0.0266	4.000	0	95.2	80	120			
Pentachlorophenol	3.52	0.0266	4.000	0	88.0	80	120			
Phenanthrene	3.64	0.0266	4.000	0	91.1	80	120			
Phenol	4.16	0.0266	4.000	0	104	80	120			
Pyrene	3.04	0.0266	4.000	0	76.0	80	120			S
Surr: 2,4,6-Tribromophenol	3.95		4.000		98.8	80	120			
Surr: 2-Fluorobiphenyl	4.01		4.000		100	80	120			
Surr: 2-Fluorophenol	5.44		4.000		136	80	120			S
Surr: 4-Terphenyl-d14	3.22		4.000		80.5	80	120			
Surr: Nitrobenzene-d5	4.42		4.000		110	80	120			
Surr: Phenol-d5	4.46		4.000		112	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150708B**

The QC data in batch 70340 applies to the following samples: 1506310-26C, 1506310-27C, 1506310-28C, 1506310-32D, 1506310-33D, 1506310-34D, 1506310-35C

Sample ID	**LCS-70340**	Batch ID:	**70340**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**GCMS9_150708B**	Analysis Date:	**7/8/2015 11:40:00 AM**	Prep Date:	**7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	1.28	0.0266	1.340	0	95.6	49	125			
2,4,6-Trichlorophenol	1.22	0.0266	1.340	0	90.7	43	125			
2,4-Dichlorophenol	1.19	0.0266	1.340	0	89.0	45	125			
2,4-Dimethylphenol	1.18	0.0266	1.340	0	88.2	32	125			
2,4-Dinitrophenol	1.24	0.132	1.340	0	92.6	25	132			
2,4-Dinitrotoluene	1.23	0.0266	1.340	0	91.7	48	125			
2,6-Dinitrotoluene	1.24	0.0266	1.340	0	92.2	48	125			
2-Chloronaphthalene	1.13	0.0266	1.340	0	84.1	45	125			
2-Chlorophenol	1.18	0.0266	1.340	0	87.8	44	125			
2-Methylnaphthalene	1.11	0.0266	1.340	0	82.7	47	125			
2-Methylphenol	1.28	0.0266	1.340	0	95.5	40	125			
2-Nitroaniline	1.31	0.0266	1.340	0	97.9	44	125			
2-Nitrophenol	1.13	0.0266	1.340	0	84.2	42	125			
3,3´-Dichlorobenzidine	1.50	0.0266	1.340	0	112	25	128			
3-Nitroaniline	1.21	0.0266	1.340	0	90.1	27	126			
4,6-Dinitro-2-methylphenol	1.24	0.0660	1.340	0	92.5	29	137			
4-Bromophenyl phenyl ether	1.18	0.0266	1.340	0	88.4	46	125			
4-Chloro-3-methylphenol	1.31	0.0266	1.340	0	97.6	46	125			
4-Chloroaniline	1.10	0.0660	1.340	0	82.2	25	125			
4-Chlorophenyl phenyl ether	1.17	0.0266	1.340	0	87.6	47	125			
4-Methylphenol	1.31	0.0266	1.340	0	97.9	41	125			
4-Nitroaniline	1.20	0.0266	1.340	0	89.9	34	125			
4-Nitrophenol	1.46	0.132	1.340	0	109	25	138			
Acenaphthene	1.13	0.0266	1.340	0	84.6	46	125			
Acenaphthylene	1.16	0.0266	1.340	0	86.4	44	125			
Acetophenone	1.20	0.0266	1.340	0	89.8	40	125			
Anthracene	1.23	0.0266	1.340	0	91.7	53	125			
Atrazine	1.33	0.0266	1.340	0	99.6	40	125			
Benzaldehyde	1.18	0.0266	1.340	0	87.9	40	125			N
Benzo[a]anthracene	1.32	0.0266	1.340	0	98.2	52	125			
Benzo[a]pyrene	1.29	0.0266	1.340	0	96.1	50	125			
Benzo[b]fluoranthene	1.45	0.0266	1.340	0	108	45	125			
Benzo[g,h,i]perylene	1.33	0.0266	1.340	0	99.3	38	126			
Benzo[k]fluoranthene	1.18	0.0266	1.340	0	88.2	45	125			
Benzoic acid	1.22	0.132	1.340	0	90.8	25	125			
Benzyl alcohol	1.73	0.0660	1.340	0	129	25	125			S
Biphenyl	1.13	0.0266	1.340	0	84.3	40	125			
Bis(2-chloroethoxy)methane	1.17	0.0266	1.340	0	87.4	43	125			
Bis(2-chloroethyl)ether	1.42	0.0266	1.340	0	106	38	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150708B**

Sample ID **LCS-70340**	Batch ID: **70340**	TestNo: **SW8270D**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **GCMS9_150708B**	Analysis Date: **7/8/2015 11:40:00 AM**	Prep Date: **7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	1.27	0.0266	1.340	0	95.0	25	125			
Bis(2-ethylhexyl)phthalate	1.46	0.0660	1.340	0	109	47	127			
Butyl benzyl phthalate	1.44	0.0660	1.340	0	107	49	125			
Caprolactam	1.40	0.0266	1.340	0	104	40	125			
Carbazole	1.24	0.0266	1.340	0	92.3	40	125			
Chrysene	1.19	0.0266	1.340	0	89.2	53	125			
Dibenz[a,h]anthracene	1.43	0.0266	1.340	0	107	41	125			
Dibenzofuran	1.14	0.0266	1.340	0	85.2	51	125			
Diethyl phthalate	1.28	0.0660	1.340	0	95.2	50	125			
Dimethyl phthalate	1.25	0.0660	1.340	0	93.6	49	125			
Di-n-butyl phthalate	1.33	0.0660	1.340	0	99.1	56	125			
Di-n-octyl phthalate	1.53	0.0660	1.340	0	114	41	132			
Fluoranthene	1.25	0.0266	1.340	0	93.5	54	125			
Fluorene	1.18	0.0266	1.340	0	88.2	49	125			
Hexachlorobenzene	1.16	0.0266	1.340	0	86.3	47	125			
Hexachlorobutadiene	0.973	0.0266	1.340	0	72.6	40	125			
Hexachlorocyclopentadiene	0.976	0.0660	1.340	0	72.8	34	125			
Hexachloroethane	1.04	0.0266	1.340	0	77.3	34	125			
Indeno[1,2,3-cd]pyrene	1.43	0.0266	1.340	0	107	38	125			
Isophorone	1.26	0.0660	1.340	0	94.2	43	125			
Naphthalene	1.04	0.0266	1.340	0	77.7	40	125			
Nitrobenzene	1.15	0.0266	1.340	0	85.5	41	125			
N-Nitrosodi-n-propylamine	1.37	0.0266	1.340	0	102	40	125			
N-Nitrosodiphenylamine	1.17	0.0266	1.340	0	87.3	49	125			
Pentachlorophenol	1.04	0.0266	1.340	0	78.0	25	125			
Phenanthrene	1.16	0.0266	1.340	0	86.6	50	125			
Phenol	1.23	0.0266	1.340	0	91.6	25	125			
Pyrene	1.33	0.0266	1.340	0	99.1	46	125			
Surr: 2,4,6-Tribromophenol	0.587		0.6670		88.0	45	138			
Surr: 2-Fluorobiphenyl	0.547		0.6670		82.0	60	135			
Surr: 2-Fluorophenol	0.613		0.6670		92.0	37	125			
Surr: 4-Terphenyl-d14	0.607		0.6670		91.0	60	129			
Surr: Nitrobenzene-d5	0.560		0.6670		84.0	45	125			
Surr: Phenol-d5	0.693		0.6670		104	40	125			

Sample ID **MB-70340**	Batch ID: **70340**	TestNo: **SW8270D**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GCMS9_150708B**	Analysis Date: **7/8/2015 12:26:00 PM**	Prep Date: **7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	<0.0100	0.0266								
2,4,6-Trichlorophenol	<0.0100	0.0266								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150708B**

Sample ID	**MB-70340**	Batch ID:	**70340**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**GCMS9_150708B**	Analysis Date:	**7/8/2015 12:26:00 PM**	Prep Date:	**7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-Dichlorophenol	<0.0100	0.0266								
2,4-Dimethylphenol	<0.0100	0.0266								
2,4-Dinitrophenol	<0.0500	0.132								
2,4-Dinitrotoluene	<0.0100	0.0266								
2,6-Dinitrotoluene	<0.0100	0.0266								
2-Chloronaphthalene	<0.0100	0.0266								
2-Chlorophenol	<0.0100	0.0266								
2-Methylnaphthalene	<0.0100	0.0266								
2-Methylphenol	<0.0100	0.0266								
2-Nitroaniline	<0.0100	0.0266								
2-Nitrophenol	<0.0100	0.0266								
3,3´-Dichlorobenzidine	<0.0100	0.0266								
3-Nitroaniline	<0.0100	0.0266								
4,6-Dinitro-2-methylphenol	<0.0300	0.0660								
4-Bromophenyl phenyl ether	<0.0100	0.0266								
4-Chloro-3-methylphenol	<0.0100	0.0266								
4-Chloroaniline	<0.0300	0.0660								
4-Chlorophenyl phenyl ether	<0.0100	0.0266								
4-Methylphenol	<0.0200	0.0266								
4-Nitroaniline	<0.0100	0.0266								
4-Nitrophenol	<0.0500	0.132								
Acenaphthene	<0.0100	0.0266								
Acenaphthylene	<0.0100	0.0266								
Acetophenone	<0.0100	0.0266								
Anthracene	<0.0100	0.0266								
Atrazine	<0.0100	0.0266								
Benzaldehyde	<0.0100	0.0266								N
Benzo[a]anthracene	<0.0100	0.0266								
Benzo[a]pyrene	<0.0100	0.0266								
Benzo[b]fluoranthene	<0.0100	0.0266								
Benzo[g,h,i]perylene	<0.0100	0.0266								
Benzo[k]fluoranthene	<0.0100	0.0266								
Benzoic acid	<0.0500	0.132								
Benzyl alcohol	<0.0100	0.0660								
Biphenyl	<0.0100	0.0266								
Bis(2-chloroethoxy)methane	<0.0100	0.0266								
Bis(2-chloroethyl)ether	<0.0100	0.0266								
Bis(2-chloroisopropyl)ether	<0.0100	0.0266								
Bis(2-ethylhexyl)phthalate	0.0320	0.0660								
Butyl benzyl phthalate	<0.0400	0.0660								
Caprolactam	<0.0200	0.0266								

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150708B**

Sample ID **MB-70340**	Batch ID: **70340**	TestNo: **SW8270D**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GCMS9_150708B**	Analysis Date: **7/8/2015 12:26:00 PM**	Prep Date: **7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Carbazole	<0.0100	0.0266								
Chrysene	<0.0100	0.0266								
Dibenz[a,h]anthracene	<0.0100	0.0266								
Dibenzofuran	<0.0100	0.0266								
Diethyl phthalate	<0.0400	0.0660								
Dimethyl phthalate	<0.0400	0.0660								
Di-n-butyl phthalate	<0.0400	0.0660								
Di-n-octyl phthalate	<0.0400	0.0660								
Fluoranthene	<0.0100	0.0266								
Fluorene	<0.0100	0.0266								
Hexachlorobenzene	<0.0100	0.0266								
Hexachlorobutadiene	<0.0100	0.0266								
Hexachlorocyclopentadiene	<0.0300	0.0660								
Hexachloroethane	<0.0100	0.0266								
Indeno[1,2,3-cd]pyrene	<0.0100	0.0266								
Isophorone	<0.0300	0.0660								
Naphthalene	<0.0100	0.0266								
Nitrobenzene	<0.0100	0.0266								
N-Nitrosodi-n-propylamine	<0.0100	0.0266								
N-Nitrosodiphenylamine	<0.0100	0.0266								
Pentachlorophenol	<0.0100	0.0266								
Phenanthrene	<0.0100	0.0266								
Phenol	<0.0100	0.0266								
Pyrene	<0.0100	0.0266								
Surr: 2,4,6-Tribromophenol	0.627		0.6670		94.0	45	138			
Surr: 2-Fluorobiphenyl	0.573		0.6670		86.0	60	135			
Surr: 2-Fluorophenol	0.660		0.6670		99.0	37	125			
Surr: 4-Terphenyl-d14	0.620		0.6670		93.0	60	129			
Surr: Nitrobenzene-d5	0.613		0.6670		92.0	45	125			
Surr: Phenol-d5	0.767		0.6670		115	40	125			

Sample ID **1506310-27CMS**	Batch ID: **70340**	TestNo: **SW8270D**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GCMS9_150708B**	Analysis Date: **7/8/2015 10:29:00 PM**	Prep Date: **7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	1.45	0.0304	1.531	0	94.7	49	125			
2,4,6-Trichlorophenol	1.36	0.0304	1.531	0	88.6	43	125			
2,4-Dichlorophenol	1.28	0.0304	1.531	0	83.4	45	125			
2,4-Dimethylphenol	1.28	0.0304	1.531	0.03181	81.8	32	125			
2,4-Dinitrophenol	0.334	0.151	1.531	0	21.8	25	132			S
2,4-Dinitrotoluene	1.34	0.0304	1.531	0	87.5	48	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150708B**

Sample ID	**1506310-27CMS**	Batch ID:	**70340**	TestNo:	**SW8270D**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**GCMS9_150708B**	Analysis Date:	**7/8/2015 10:29:00 PM**	Prep Date:	**7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	1.38	0.0304	1.531	0	89.9	48	125			
2-Chloronaphthalene	1.25	0.0304	1.531	0	81.7	45	125			
2-Chlorophenol	1.21	0.0304	1.531	0	79.3	44	125			
2-Methylnaphthalene	1.18	0.0304	1.531	0.4257	49.3	47	125			
2-Methylphenol	1.30	0.0304	1.531	0.01591	83.8	40	125			
2-Nitroaniline	1.48	0.0304	1.531	0	97.0	44	125			
2-Nitrophenol	1.13	0.0304	1.531	0	73.5	42	125			
3,3´-Dichlorobenzidine	1.34	0.0304	1.531	0	87.3	25	128			
3-Nitroaniline	1.57	0.0304	1.531	0	103	27	126			
4,6-Dinitro-2-methylphenol	0.517	0.0754	1.531	0	33.8	29	137			
4-Bromophenyl phenyl ether	1.36	0.0304	1.531	0	88.9	46	125			
4-Chloro-3-methylphenol	1.45	0.0304	1.531	0	94.9	46	125			
4-Chloroaniline	1.34	0.0754	1.531	0	87.4	25	125			
4-Chlorophenyl phenyl ether	1.33	0.0304	1.531	0	87.0	47	125			
4-Methylphenol	1.34	0.0304	1.531	0.03560	85.3	41	125			
4-Nitroaniline	1.14	0.0304	1.531	0	74.5	34	125			
4-Nitrophenol	1.66	0.151	1.531	0	109	25	138			
Acenaphthene	1.30	0.0304	1.531	1.099	12.8	46	125			S
Acenaphthylene	1.31	0.0304	1.531	0.1182	78.0	44	125			
Acetophenone	1.21	0.0304	1.531	0	79.2	40	125			
Anthracene	1.46	0.0304	1.531	2.331	-57.1	53	125			S
Atrazine	1.58	0.0304	1.531	0	103	40	125			
Benzaldehyde	1.28	0.0304	1.531	0	83.6	40	125			N
Benzo[a]anthracene	1.74	0.0304	1.531	4.448	-177	52	125			S
Benzo[a]pyrene	1.70	0.0304	1.531	3.313	-105	50	125			S
Benzo[b]fluoranthene	1.76	0.0304	1.531	5.826	-265	45	125			S
Benzo[g,h,i]perylene	1.63	0.0304	1.531	1.845	-13.9	38	126			S
Benzo[k]fluoranthene	1.70	0.0304	1.531	5.967	-278	45	125			S
Benzoic acid	0.665	0.151	1.531	0	43.4	25	125			
Benzyl alcohol	1.77	0.0754	1.531	0	116	25	125			
Biphenyl	1.24	0.0304	1.531	0.1038	74.2	40	125			
Bis(2-chloroethoxy)methane	1.22	0.0304	1.531	0	80.0	43	125			
Bis(2-chloroethyl)ether	1.40	0.0304	1.531	0	91.6	38	125			
Bis(2-chloroisopropyl)ether	1.36	0.0304	1.531	0	88.9	25	125			
Bis(2-ethylhexyl)phthalate	1.72	0.0754	1.531	0.05681	109	47	127			
Butyl benzyl phthalate	1.75	0.0754	1.531	0.07347	110	49	125			
Caprolactam	1.54	0.0304	1.531	0	101	40	125			
Carbazole	1.51	0.0304	1.531	1.224	18.7	40	125			S
Chrysene	1.62	0.0304	1.531	3.671	-134	53	125			S
Dibenz[a,h]anthracene	1.59	0.0304	1.531	1.058	34.4	41	125			S
Dibenzofuran	1.30	0.0304	1.531	0.7491	35.9	51	125			S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150708B**

Sample ID **1506310-27CMS** Batch ID: **70340** TestNo: **SW8270D** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GCMS9_150708B** Analysis Date: **7/8/2015 10:29:00 PM** Prep Date: **7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diethyl phthalate	1.43	0.0754	1.531	0	93.6	50	125			
Dimethyl phthalate	1.42	0.0754	1.531	0	93.0	49	125			
Di-n-butyl phthalate	1.57	0.0754	1.531	0	102	56	125			
Di-n-octyl phthalate	1.77	0.0754	1.531	0	115	41	132			
Fluoranthene	1.93	0.0304	1.531	6.526	-300	54	125			S
Fluorene	1.38	0.0304	1.531	1.204	11.4	49	125			S
Hexachlorobenzene	1.34	0.0304	1.531	0	87.8	47	125			
Hexachlorobutadiene	1.03	0.0304	1.531	0	67.2	40	125			
Hexachlorocyclopentadiene	0.568	0.0754	1.531	0	37.1	34	125			
Hexachloroethane	1.01	0.0304	1.531	0	66.3	34	125			
Indeno[1,2,3-cd]pyrene	1.68	0.0304	1.531	1.830	-9.95	38	125			S
Isophorone	1.35	0.0754	1.531	0	88.0	43	125			
Naphthalene	1.12	0.0304	1.531	0.6696	29.3	40	125			S
Nitrobenzene	1.22	0.0304	1.531	0	79.4	41	125			
N-Nitrosodi-n-propylamine	1.40	0.0304	1.531	0	91.5	40	125			
N-Nitrosodiphenylamine	1.44	0.0304	1.531	0	93.8	49	125			
Pentachlorophenol	1.37	0.0304	1.531	0	89.3	25	125			
Phenanthrene	1.60	0.0304	1.531	6.398	-313	50	125			S
Phenol	1.24	0.0304	1.531	0	80.8	25	125			
Pyrene	1.89	0.0304	1.531	5.944	-265	46	125			S
Surr: 2,4,6-Tribromophenol	0.701		0.7623		92.0	45	138			
Surr: 2-Fluorobiphenyl	0.594		0.7623		78.0	60	135			
Surr: 2-Fluorophenol	0.625		0.7623		82.0	37	125			
Surr: 4-Terphenyl-d14	0.678		0.7623		89.0	60	129			
Surr: Nitrobenzene-d5	0.610		0.7623		80.0	45	125			
Surr: Phenol-d5	0.770		0.7623		101	40	125			

Sample ID **1506310-27CMSD** Batch ID: **70340** TestNo: **SW8270D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS9_150708B** Analysis Date: **7/8/2015 10:52:00 PM** Prep Date: **7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	1.48	0.0301	1.518	0	97.3	49	125	1.74	30	
2,4,6-Trichlorophenol	1.39	0.0301	1.518	0	91.4	43	125	2.30	30	
2,4-Dichlorophenol	1.35	0.0301	1.518	0	88.9	45	125	5.39	30	
2,4-Dimethylphenol	1.35	0.0301	1.518	0.03181	86.9	32	125	4.96	30	
2,4-Dinitrophenol	0.466	0.149	1.518	0	30.7	25	132	32.8	30	R
2,4-Dinitrotoluene	1.33	0.0301	1.518	0	88.0	48	125	0.398	30	
2,6-Dinitrotoluene	1.39	0.0301	1.518	0	91.3	48	125	0.685	30	
2-Chloronaphthalene	1.31	0.0301	1.518	0	86.4	45	125	4.66	30	
2-Chlorophenol	1.30	0.0301	1.518	0	85.4	44	125	6.59	30	
2-Methylnaphthalene	1.26	0.0301	1.518	0.4257	55.2	47	125	6.79	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150708B**

Sample ID **1506310-27CMSD**	Batch ID: **70340**	TestNo: **SW8270D**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GCMS9_150708B**	Analysis Date: **7/8/2015 10:52:00 PM**	Prep Date: **7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	1.37	0.0301	1.518	0.01591	89.1	40	125	5.06	30	
2-Nitroaniline	1.50	0.0301	1.518	0	98.9	44	125	1.07	30	
2-Nitrophenol	1.21	0.0301	1.518	0	79.7	42	125	7.21	30	
3,3´-Dichlorobenzidine	0.754	0.0301	1.518	0	49.7	25	128	55.7	30	R
3-Nitroaniline	1.44	0.0301	1.518	0	95.0	27	126	8.56	30	
4,6-Dinitro-2-methylphenol	0.633	0.0747	1.518	0	41.7	29	137	20.2	30	
4-Bromophenyl phenyl ether	1.38	0.0301	1.518	0	91.1	46	125	1.64	30	
4-Chloro-3-methylphenol	1.48	0.0301	1.518	0	97.8	46	125	2.04	30	
4-Chloroaniline	1.32	0.0747	1.518	0	86.8	25	125	1.54	30	
4-Chlorophenyl phenyl ether	1.35	0.0301	1.518	0	88.8	47	125	1.19	30	
4-Methylphenol	1.41	0.0301	1.518	0.03560	90.8	41	125	5.20	30	
4-Nitroaniline	0.894	0.0301	1.518	0	58.9	34	125	24.3	30	
4-Nitrophenol	1.66	0.149	1.518	0	109	25	138	0.359	30	
Acenaphthene	1.33	0.0301	1.518	1.099	14.9	46	125	2.33	30	S
Acenaphthylene	1.34	0.0301	1.518	0.1182	80.3	44	125	1.84	30	
Acetophenone	1.29	0.0301	1.518	0	84.8	40	125	5.89	30	
Anthracene	1.43	0.0301	1.518	2.331	-59.4	53	125	1.85	30	S
Atrazine	1.56	0.0301	1.518	0	102	40	125	1.54	30	
Benzaldehyde	1.37	0.0301	1.518	0	90.4	40	125	6.87	30	N
Benzo[a]anthracene	1.65	0.0301	1.518	4.448	-185	52	125	5.48	30	S
Benzo[a]pyrene	1.62	0.0301	1.518	3.313	-111	50	125	4.52	30	S
Benzo[b]fluoranthene	1.83	0.0301	1.518	5.826	-263	45	125	3.82	30	S
Benzo[g,h,i]perylene	1.58	0.0301	1.518	1.845	-17.3	38	126	3.08	30	S
Benzo[k]fluoranthene	1.47	0.0301	1.518	5.967	-296	45	125	14.6	30	S
Benzoic acid	1.05	0.149	1.518	0	69.5	25	125	45.3	30	R
Benzyl alcohol	1.85	0.0747	1.518	0	122	25	125	4.13	30	
Biphenyl	1.30	0.0301	1.518	0.1038	78.9	40	125	4.88	30	
Bis(2-chloroethoxy)methane	1.32	0.0301	1.518	0	87.1	43	125	7.67	30	
Bis(2-chloroethyl)ether	1.49	0.0301	1.518	0	98.1	38	125	5.91	30	
Bis(2-chloroisopropyl)ether	1.49	0.0301	1.518	0	98.5	25	125	9.35	30	
Bis(2-ethylhexyl)phthalate	1.74	0.0747	1.518	0.05681	111	47	127	0.843	30	
Butyl benzyl phthalate	1.66	0.0747	1.518	0.07347	105	49	125	5.35	30	
Caprolactam	1.57	0.0301	1.518	0	103	40	125	1.78	30	
Carbazole	1.46	0.0301	1.518	1.224	15.9	40	125	3.05	30	S
Chrysene	1.53	0.0301	1.518	3.671	-141	53	125	5.73	30	S
Dibenz[a,h]anthracene	1.55	0.0301	1.518	1.058	32.5	41	125	2.21	30	S
Dibenzofuran	1.32	0.0301	1.518	0.7491	37.9	51	125	1.98	30	S
Diethyl phthalate	1.45	0.0747	1.518	0	95.2	50	125	0.778	30	
Dimethyl phthalate	1.41	0.0747	1.518	0	93.2	49	125	0.641	30	
Di-n-butyl phthalate	1.56	0.0747	1.518	0	103	56	125	0.278	30	
Di-n-octyl phthalate	1.76	0.0747	1.518	0	116	41	132	0.693	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150708B**

Sample ID **1506310-27CMSD** Batch ID: **70340** TestNo: **SW8270D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS9_150708B** Analysis Date: **7/8/2015 10:52:00 PM** Prep Date: **7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoranthene	1.73	0.0301	1.518	6.526	-316	54	125	10.5	30	S
Fluorene	1.39	0.0301	1.518	1.204	12.6	49	125	1.23	30	S
Hexachlorobenzene	1.36	0.0301	1.518	0	89.4	47	125	0.946	30	
Hexachlorobutadiene	1.13	0.0301	1.518	0	74.3	40	125	9.08	30	
Hexachlorocyclopentadiene	0.655	0.0747	1.518	0	43.1	34	125	14.1	30	
Hexachloroethane	1.11	0.0301	1.518	0	73.2	34	125	9.08	30	
Indeno[1,2,3-cd]pyrene	1.63	0.0301	1.518	1.830	-13.3	38	125	2.97	30	S
Isophorone	1.44	0.0747	1.518	0	95.0	43	125	6.76	30	
Naphthalene	1.19	0.0301	1.518	0.6696	34.0	40	125	5.81	30	S
Nitrobenzene	1.31	0.0301	1.518	0	86.6	41	125	7.85	30	
N-Nitrosodi-n-propylamine	1.48	0.0301	1.518	0	97.8	40	125	5.77	30	
N-Nitrosodiphenylamine	1.45	0.0301	1.518	0	95.5	49	125	0.932	30	
Pentachlorophenol	1.33	0.0301	1.518	0	88.0	25	125	2.37	30	
Phenanthrene	1.47	0.0301	1.518	6.398	-325	50	125	8.32	30	S
Phenol	1.31	0.0301	1.518	0	86.6	25	125	6.05	30	
Pyrene	1.70	0.0301	1.518	5.944	-279	46	125	10.2	30	S
Surr: 2,4,6-Tribromophenol	0.687		0.7554		91.0	45	138	0	0	
Surr: 2-Fluorobiphenyl	0.627		0.7554		83.0	60	135	0	0	
Surr: 2-Fluorophenol	0.657		0.7554		87.0	37	125	0	0	
Surr: 4-Terphenyl-d14	0.672		0.7554		89.0	60	129	0	0	
Surr: Nitrobenzene-d5	0.657		0.7554		87.0	45	125	0	0	
Surr: Phenol-d5	0.815		0.7554		108	40	125	0	0	

Sample ID **SB-150709** Batch ID: **70340** TestNo: **SW8270D** Units: **mg/Kg**
SampType: **SBLK** Run ID: **GCMS9_150708B** Analysis Date: **7/9/2015 10:16:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo[a]anthracene	<0.0100	0.0266	0							
Benzo[b]fluoranthene	<0.0100	0.0266	0							
Benzo[k]fluoranthene	<0.0100	0.0266	0							
Fluoranthene	<0.0100	0.0266	0							
Phenanthrene	<0.0100	0.0266	0							
Pyrene	<0.0100	0.0266	0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150708B**

Sample ID **ICV-150708**	Batch ID: **R80512**	TestNo: **SW8270D**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GCMS9_150708B**	Analysis Date: **7/8/2015 11:17:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	4.14	0.0266	4.000	0	104	80	120			
2,4,6-Trichlorophenol	3.95	0.0266	4.000	0	98.7	80	120			
2,4-Dichlorophenol	3.98	0.0266	4.000	0	99.5	80	120			
2,4-Dimethylphenol	4.01	0.0266	4.000	0	100	80	120			
2,4-Dinitrophenol	3.93	0.132	4.000	0	98.2	80	120			
2,4-Dinitrotoluene	3.86	0.0266	4.000	0	96.5	80	120			
2,6-Dinitrotoluene	3.90	0.0266	4.000	0	97.6	80	120			
2-Chloronaphthalene	3.65	0.0266	4.000	0	91.3	80	120			
2-Chlorophenol	3.98	0.0266	4.000	0	99.6	80	120			
2-Methylnaphthalene	3.64	0.0266	4.000	0	91.1	80	120			
2-Methylphenol	4.29	0.0266	4.000	0	107	80	120			
2-Nitroaniline	3.87	0.0266	4.000	0	96.8	80	120			
2-Nitrophenol	3.75	0.0266	4.000	0	93.8	80	120			
3,3´-Dichlorobenzidine	3.91	0.0266	4.000	0	97.7	80	120			
3-Nitroaniline	3.63	0.0266	4.000	0	90.7	80	120			
4,6-Dinitro-2-methylphenol	3.92	0.0660	4.000	0	98.0	80	120			
4-Bromophenyl phenyl ether	3.80	0.0266	4.000	0	95.0	80	120			
4-Chloro-3-methylphenol	4.14	0.0266	4.000	0	104	80	120			
4-Chloroaniline	3.90	0.0660	4.000	0	97.4	80	120			
4-Chlorophenyl phenyl ether	3.76	0.0266	4.000	0	94.0	80	120			
4-Methylphenol	4.34	0.0266	4.000	0	108	80	120			
4-Nitroaniline	3.80	0.0266	4.000	0	94.9	80	120			
4-Nitrophenol	4.35	0.132	4.000	0	109	80	120			
Acenaphthene	3.67	0.0266	4.000	0	91.7	80	120			
Acenaphthylene	3.83	0.0266	4.000	0	95.7	80	120			
Acetophenone	4.10	0.0266	4.000	0	102	80	120			
Anthracene	3.82	0.0266	4.000	0	95.5	80	120			
Atrazine	4.20	0.0266	4.000	0	105	80	120			
Benzaldehyde	3.98	0.0266	4.000	0	99.6	80	120			N
Benzo[a]anthracene	3.94	0.0266	4.000	0	98.6	80	120			
Benzo[a]pyrene	3.74	0.0266	4.000	0	93.4	80	120			
Benzo[b]fluoranthene	4.27	0.0266	4.000	0	107	80	120			
Benzo[g,h,i]perylene	3.83	0.0266	4.000	0	95.9	80	120			
Benzo[k]fluoranthene	3.37	0.0266	4.000	0	84.2	80	120			
Benzoic acid	4.04	0.132	4.000	0	101	80	120			
Benzyl alcohol	4.94	0.0660	4.000	0	124	80	120			S
Biphenyl	3.67	0.0266	4.000	0	91.8	80	120			
Bis(2-chloroethoxy)methane	3.89	0.0266	4.000	0	97.2	80	120			
Bis(2-chloroethyl)ether	4.90	0.0266	4.000	0	123	80	120			S
Bis(2-chloroisopropyl)ether	4.26	0.0266	4.000	0	107	80	120			
Bis(2-ethylhexyl)phthalate	4.48	0.0660	4.000	0	112	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150708B**

Sample ID **ICV-150708** Batch ID: **R80512** TestNo: **SW8270D** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS9_150708B** Analysis Date: **7/8/2015 11:17:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	4.21	0.0660	4.000	0	105	80	120			
Caprolactam	3.93	0.0266	4.000	0	98.2	80	120			
Carbazole	3.77	0.0266	4.000	0	94.3	80	120			
Chrysene	3.52	0.0266	4.000	0	88.1	80	120			
Dibenz[a,h]anthracene	3.93	0.0266	4.000	0	98.2	80	120			
Dibenzofuran	3.64	0.0266	4.000	0	91.0	80	120			
Diethyl phthalate	3.90	0.0660	4.000	0	97.5	80	120			
Dimethyl phthalate	3.98	0.0660	4.000	0	99.6	80	120			
Di-n-butyl phthalate	4.06	0.0660	4.000	0	101	80	120			
Di-n-octyl phthalate	4.12	0.0660	4.000	0	103	80	120			
Fluoranthene	3.86	0.0266	4.000	0	96.4	80	120			
Fluorene	3.71	0.0266	4.000	0	92.8	80	120			
Hexachlorobenzene	3.70	0.0266	4.000	0	92.5	80	120			
Hexachlorobutadiene	3.42	0.0266	4.000	0	85.6	80	120			
Hexachlorocyclopentadiene	3.55	0.0660	4.000	0	88.7	80	120			
Hexachloroethane	3.86	0.0266	4.000	0	96.4	80	120			
Indeno[1,2,3-cd]pyrene	3.96	0.0266	4.000	0	99.1	80	120			
Isophorone	4.20	0.0660	4.000	0	105	80	120			
Naphthalene	3.54	0.0266	4.000	0	88.6	80	120			
Nitrobenzene	3.86	0.0266	4.000	0	96.6	80	120			
N-Nitrosodi-n-propylamine	4.61	0.0266	4.000	0	115	80	120			
N-Nitrosodiphenylamine	3.67	0.0266	4.000	0	91.8	80	120			
Pentachlorophenol	3.44	0.0266	4.000	0	86.0	80	120			
Phenanthrene	3.58	0.0266	4.000	0	89.6	80	120			
Phenol	4.00	0.0266	4.000	0	100	80	120			
Pyrene	3.85	0.0266	4.000	0	96.3	80	120			
Surr: 2,4,6-Tribromophenol	3.94		4.000		98.5	80	120			
Surr: 2-Fluorobiphenyl	3.92		4.000		98.0	80	120			
Surr: 2-Fluorophenol	4.31		4.000		108	80	120			
Surr: 4-Terphenyl-d14	4.23		4.000		106	80	120			
Surr: Nitrobenzene-d5	4.31		4.000		108	80	120			
Surr: Phenol-d5	4.75		4.000		119	80	120			

Sample ID **ICV-150709** Batch ID: **R80512** TestNo: **SW8270D** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS9_150708B** Analysis Date: **7/9/2015 9:03:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo[a]anthracene	3.90	0.0266	4.000	0	97.4	80	120			
Benzo[b]fluoranthene	4.09	0.0266	4.000	0	102	80	120			
Benzo[k]fluoranthene	3.58	0.0266	4.000	0	89.5	80	120			
Fluoranthene	3.89	0.0266	4.000	0	97.4	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150708B**

Sample ID	**ICV-150709**	Batch ID:	**R80512**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS9_150708B**	Analysis Date:	**7/9/2015 9:03:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenanthrene	3.59	0.0266	4.000	0	89.8	80	120			
Pyrene	4.03	0.0266	4.000	0	101	80	120			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150710A**

The QC data in batch 70307 applies to the following samples: 1506310-06B, 1506310-07C, 1506310-08C, 1506310-09C, 1506310-10C, 1506310-11C, 1506310-17C, 1506310-18C, 1506310-19C, 1506310-20C, 1506310-21C, 1506310-22C, 1506310-23C, 1506310-24C, 1506310-25C

Sample ID	**SB-150711**	Batch ID:	**70307**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**SBLK**	Run ID:	**GCMS9_150710A**	Analysis Date:	**7/10/2015 3:40:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	<0.0100	0.0266	0							
2,4,6-Trichlorophenol	<0.0100	0.0266	0							
2,4-Dichlorophenol	<0.0100	0.0266	0							
2,4-Dimethylphenol	<0.0100	0.0266	0							
2,4-Dinitrophenol	<0.0500	0.132	0							
2,4-Dinitrotoluene	<0.0100	0.0266	0							
2,6-Dinitrotoluene	<0.0100	0.0266	0							
2-Chloronaphthalene	<0.0100	0.0266	0							
2-Chlorophenol	<0.0100	0.0266	0							
2-Methylnaphthalene	<0.0100	0.0266	0							
2-Methylphenol	<0.0100	0.0266	0							
2-Nitroaniline	<0.0100	0.0266	0							
2-Nitrophenol	<0.0100	0.0266	0							
3,3´-Dichlorobenzidine	<0.0100	0.0266	0							
3-Nitroaniline	<0.0100	0.0266	0							
4,6-Dinitro-2-methylphenol	<0.0300	0.0660	0							
4-Bromophenyl phenyl ether	<0.0100	0.0266	0							
4-Chloro-3-methylphenol	<0.0100	0.0266	0							
4-Chloroaniline	<0.0300	0.0660	0							
4-Chlorophenyl phenyl ether	<0.0100	0.0266	0							
4-Methylphenol	<0.0200	0.0266	0							
4-Nitroaniline	<0.0100	0.0266	0							
4-Nitrophenol	<0.0500	0.132	0							
Acenaphthene	<0.0100	0.0266	0							
Acenaphthylene	<0.0100	0.0266	0							
Acetophenone	<0.0100	0.0266	0							
Anthracene	<0.0100	0.0266	0							
Atrazine	<0.0100	0.0266	0							
Benzaldehyde	<0.0100	0.0266	0							N
Benzo[a]anthracene	<0.0100	0.0266	0							
Benzo[a]pyrene	<0.0100	0.0266	0							
Benzo[b]fluoranthene	<0.0100	0.0266	0							
Benzo[g,h,i]perylene	<0.0100	0.0266	0							
Benzo[k]fluoranthene	<0.0100	0.0266	0							
Benzoic acid	<0.0500	0.132	0							
Benzyl alcohol	<0.0100	0.0660	0							
Biphenyl	<0.0100	0.0266	0							
Bis(2-chloroethoxy)methane	<0.0100	0.0266	0							
Bis(2-chloroethyl)ether	<0.0100	0.0266	0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150710A**

Sample ID	**SB-150711**	Batch ID:	**70307**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**SBLK**	Run ID:	**GCMS9_150710A**	Analysis Date:	**7/10/2015 3:40:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	<0.0100	0.0266	0							
Bis(2-ethylhexyl)phthalate	<0.0300	0.0660	0							
Butyl benzyl phthalate	<0.0400	0.0660	0							
Caprolactam	<0.0200	0.0266	0							
Carbazole	<0.0100	0.0266	0							
Chrysene	<0.0100	0.0266	0							
Dibenz[a,h]anthracene	<0.0100	0.0266	0							
Dibenzofuran	<0.0100	0.0266	0							
Diethyl phthalate	<0.0400	0.0660	0							
Dimethyl phthalate	<0.0400	0.0660	0							
Di-n-butyl phthalate	<0.0400	0.0660	0							
Di-n-octyl phthalate	<0.0400	0.0660	0							
Fluoranthene	<0.0100	0.0266	0							
Fluorene	<0.0100	0.0266	0							
Hexachlorobenzene	<0.0100	0.0266	0							
Hexachlorobutadiene	<0.0100	0.0266	0							
Hexachlorocyclopentadiene	<0.0300	0.0660	0							
Hexachloroethane	<0.0100	0.0266	0							
Indeno[1,2,3-cd]pyrene	<0.0100	0.0266	0							
Isophorone	<0.0300	0.0660	0							
Naphthalene	<0.0100	0.0266	0							
Nitrobenzene	<0.0100	0.0266	0							
N-Nitrosodi-n-propylamine	<0.0100	0.0266	0							
N-Nitrosodiphenylamine	<0.0100	0.0266	0							
Pentachlorophenol	<0.0100	0.0266	0							
Phenanthrene	<0.0100	0.0266	0							
Phenol	<0.0100	0.0266	0							
Pyrene	<0.0100	0.0266	0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150710A**

Sample ID **ICV-150710**	Batch ID: **R80541**	TestNo: **SW8270D**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GCMS9_150710A**	Analysis Date: **7/10/2015 3:17:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	4.06	0.0266	4.000	0	102	80	120			
2,4,6-Trichlorophenol	3.90	0.0266	4.000	0	97.6	80	120			
2,4-Dichlorophenol	3.87	0.0266	4.000	0	96.8	80	120			
2,4-Dimethylphenol	3.55	0.0266	4.000	0	88.7	80	120			
2,4-Dinitrophenol	3.86	0.132	4.000	0	96.6	80	120			
2,4-Dinitrotoluene	3.80	0.0266	4.000	0	95.0	80	120			
2,6-Dinitrotoluene	3.80	0.0266	4.000	0	95.1	80	120			
2-Chloronaphthalene	3.68	0.0266	4.000	0	92.1	80	120			
2-Chlorophenol	3.97	0.0266	4.000	0	99.2	80	120			
2-Methylnaphthalene	3.56	0.0266	4.000	0	89.0	80	120			
2-Methylphenol	4.17	0.0266	4.000	0	104	80	120			
2-Nitroaniline	3.80	0.0266	4.000	0	94.9	80	120			
2-Nitrophenol	3.72	0.0266	4.000	0	92.9	80	120			
3,3´-Dichlorobenzidine	4.51	0.0266	4.000	0	113	80	120			
3-Nitroaniline	3.56	0.0266	4.000	0	89.1	80	120			
4,6-Dinitro-2-methylphenol	3.92	0.0660	4.000	0	98.1	80	120			
4-Bromophenyl phenyl ether	3.66	0.0266	4.000	0	91.5	80	120			
4-Chloro-3-methylphenol	4.02	0.0266	4.000	0	101	80	120			
4-Chloroaniline	3.85	0.0660	4.000	0	96.4	80	120			
4-Chlorophenyl phenyl ether	3.65	0.0266	4.000	0	91.2	80	120			
4-Methylphenol	4.21	0.0266	4.000	0	105	80	120			
4-Nitroaniline	3.80	0.0266	4.000	0	95.0	80	120			
4-Nitrophenol	4.33	0.132	4.000	0	108	80	120			
Acenaphthene	3.64	0.0266	4.000	0	91.1	80	120			
Acenaphthylene	3.85	0.0266	4.000	0	96.2	80	120			
Acetophenone	4.08	0.0266	4.000	0	102	80	120			
Anthracene	3.80	0.0266	4.000	0	94.9	80	120			
Atrazine	4.22	0.0266	4.000	0	105	80	120			
Benzaldehyde	3.78	0.0266	4.000	0	94.5	80	120			N
Benzo[a]anthracene	3.91	0.0266	4.000	0	97.8	80	120			
Benzo[a]pyrene	3.80	0.0266	4.000	0	95.1	80	120			
Benzo[b]fluoranthene	4.02	0.0266	4.000	0	101	80	120			
Benzo[g,h,i]perylene	3.93	0.0266	4.000	0	98.2	80	120			
Benzo[k]fluoranthene	3.70	0.0266	4.000	0	92.4	80	120			
Benzoic acid	3.81	0.132	4.000	0	95.3	80	120			
Benzyl alcohol	4.85	0.0660	4.000	0	121	80	120			S
Biphenyl	3.71	0.0266	4.000	0	92.7	80	120			
Bis(2-chloroethoxy)methane	3.85	0.0266	4.000	0	96.2	80	120			
Bis(2-chloroethyl)ether	4.98	0.0266	4.000	0	125	80	120			S
Bis(2-chloroisopropyl)ether	4.33	0.0266	4.000	0	108	80	120			
Bis(2-ethylhexyl)phthalate	4.27	0.0660	4.000	0	107	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_150710A**

Sample ID	**ICV-150710**	Batch ID:	**R80541**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS9_150710A**	Analysis Date:	**7/10/2015 3:17:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	4.15	0.0660	4.000	0	104	80	120			
Caprolactam	3.78	0.0266	4.000	0	94.5	80	120			
Carbazole	3.86	0.0266	4.000	0	96.6	80	120			
Chrysene	3.55	0.0266	4.000	0	88.7	80	120			
Dibenz[a,h]anthracene	4.01	0.0266	4.000	0	100	80	120			
Dibenzofuran	3.60	0.0266	4.000	0	90.0	80	120			
Diethyl phthalate	3.80	0.0660	4.000	0	95.0	80	120			
Dimethyl phthalate	3.88	0.0660	4.000	0	96.9	80	120			
Di-n-butyl phthalate	4.04	0.0660	4.000	0	101	80	120			
Di-n-octyl phthalate	4.08	0.0660	4.000	0	102	80	120			
Fluoranthene	3.82	0.0266	4.000	0	95.6	80	120			
Fluorene	3.64	0.0266	4.000	0	91.1	80	120			
Hexachlorobenzene	3.60	0.0266	4.000	0	90.0	80	120			
Hexachlorobutadiene	3.40	0.0266	4.000	0	85.0	80	120			
Hexachlorocyclopentadiene	3.03	0.0660	4.000	0	75.7	80	120			S
Hexachloroethane	3.83	0.0266	4.000	0	95.9	80	120			
Indeno[1,2,3-cd]pyrene	4.05	0.0266	4.000	0	101	80	120			
Isophorone	4.12	0.0660	4.000	0	103	80	120			
Naphthalene	3.56	0.0266	4.000	0	89.0	80	120			
Nitrobenzene	3.90	0.0266	4.000	0	97.4	80	120			
N-Nitrosodi-n-propylamine	4.51	0.0266	4.000	0	113	80	120			
N-Nitrosodiphenylamine	3.67	0.0266	4.000	0	91.8	80	120			
Pentachlorophenol	3.48	0.0266	4.000	0	86.9	80	120			
Phenanthrene	3.58	0.0266	4.000	0	89.5	80	120			
Phenol	3.96	0.0266	4.000	0	99.1	80	120			
Pyrene	3.97	0.0266	4.000	0	99.2	80	120			
Surr: 2,4,6-Tribromophenol	3.84		4.000		96.0	80	120			
Surr: 2-Fluorobiphenyl	3.92		4.000		98.0	80	120			
Surr: 2-Fluorophenol	4.32		4.000		108	80	120			
Surr: 4-Terphenyl-d14	4.25		4.000		106	80	120			
Surr: Nitrobenzene-d5	4.34		4.000		108	80	120			
Surr: Phenol-d5	4.74		4.000		118	80	120			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150501B**

Sample ID	**DCS1-69414**	Batch ID:	**69414**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**GCMS1_150501B**	Analysis Date:	**5/2/2015 12:20:00 AM**	Prep Date:	**5/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.00185	0.00500	0.00232	0	79.7	10	400	0	0	
1,1,1-Trichloroethane	0.00214	0.00500	0.00232	0	92.2	10	400	0	0	
1,1,2,2-Tetrachloroethane	0.00178	0.00500	0.00232	0	76.9	10	400	0	0	
1,1,2-Trichloroethane	0.00244	0.00500	0.00232	0	105	10	400	0	0	
1,1-Dichloroethane	0.00218	0.00500	0.00232	0	93.9	10	400	0	0	
1,1-Dichloroethene	0.00146	0.00500	0.00232	0	62.9	10	400	0	0	
1,1-Dichloropropene	0.00211	0.00500	0.00232	0	91.1	10	400	0	0	
1,2,3-Trichlorobenzene	0.00211	0.00500	0.00232	0	90.9	10	400	0	0	
1,2,3-Trichloropropane	0.00199	0.00500	0.00232	0	85.7	10	400	0	0	
1,2,4-Trichlorobenzene	0.00195	0.00500	0.00232	0	84.1	10	400	0	0	
1,2,4-Trimethylbenzene	0.00231	0.00500	0.00232	0	99.7	10	400	0	0	
1,2-Dibromo-3-chloropropane	0.00181	0.00500	0.00232	0	78.1	10	400	0	0	
1,2-Dibromoethane	0.00183	0.00500	0.00232	0	78.8	10	400	0	0	
1,2-Dichlorobenzene	0.00193	0.00500	0.00232	0	83.2	10	400	0	0	
1,2-Dichloroethane	0.00232	0.00500	0.00232	0	100	10	400	0	0	
1,2-Dichloropropane	0.00243	0.00500	0.00232	0	105	10	400	0	0	
1,3,5-Trimethylbenzene	0.00198	0.00500	0.00232	0	85.1	10	400	0	0	
1,3-Dichlorobenzene	0.00194	0.00500	0.00232	0	83.5	10	400	0	0	
1,3-Dichloropropane	0.00194	0.00500	0.00232	0	83.8	10	400	0	0	
1,4-Dichlorobenzene	0.00193	0.00500	0.00232	0	83.1	10	400	0	0	
1-Chlorohexane	0.000664	0.00500	0.00232	0	28.6	10	400	0	0	
2,2-Dichloropropane	0.00182	0.00500	0.00232	0	78.2	10	400	0	0	
2-Chlorotoluene	0.00188	0.00500	0.00232	0	81.1	10	400	0	0	
4-Chlorotoluene	0.00192	0.00500	0.00232	0	82.6	10	400	0	0	
Benzene	0.00230	0.00500	0.00232	0	99.3	10	400	0	0	
Bromobenzene	0.00189	0.00500	0.00232	0	81.4	10	400	0	0	
Bromochloromethane	0.00228	0.00500	0.00232	0	98.4	10	400	0	0	
Bromodichloromethane	0.00215	0.00500	0.00232	0	92.5	10	400	0	0	
Bromoform	0.00151	0.00500	0.00232	0	64.9	10	400	0	0	
Bromomethane	0.00292	0.00500	0.00232	0	126	10	400	0	0	
Carbon tetrachloride	0.00208	0.00500	0.00232	0	89.7	10	400	0	0	
Chlorobenzene	0.00200	0.00500	0.00232	0	86.0	10	400	0	0	
Chloroethane	0.00280	0.00500	0.00232	0	121	10	400	0	0	
Chloroform	0.00231	0.00500	0.00232	0	99.4	10	400	0	0	
Chloromethane	0.00248	0.00500	0.00232	0	107	10	400	0	0	
cis-1,2-Dichloroethene	0.00221	0.00500	0.00232	0	95.4	10	400	0	0	
cis-1,3-Dichloropropene	0.00202	0.00500	0.00232	0	87.1	10	400	0	0	
Dibromochloromethane	0.00160	0.00500	0.00232	0	69.0	10	400	0	0	
Dibromomethane	0.00238	0.00500	0.00232	0	103	10	400	0	0	
Dichlorodifluoromethane	0.00233	0.00500	0.00232	0	100	10	400	0	0	
Ethylbenzene	0.00197	0.00500	0.00232	0	84.8	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150501B**

Sample ID **DCS1-69414** Batch ID: **69414** TestNo: **SW8260C** Units: **mg/Kg**
SampType: **DCS** Run ID: **GCMS1_150501B** Analysis Date: **5/2/2015 12:20:00 AM** Prep Date: **5/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	0.00158	0.00500	0.00232	0	68.1	10	400	0	0	
Isopropylbenzene	0.00190	0.00500	0.00232	0	81.8	10	400	0	0	
m,p-Xylene	0.00376	0.00500	0.00464	0	81.0	10	400	0	0	
Methyl tert-butyl ether	0.00245	0.00500	0.00232	0	105	10	400	0	0	
n-Butylbenzene	0.00192	0.00500	0.00232	0	83.0	10	400	0	0	
n-Propylbenzene	0.00192	0.00500	0.00232	0	82.7	10	400	0	0	
o-Xylene	0.00195	0.00500	0.00232	0	83.9	10	400	0	0	
p-Isopropyltoluene	0.00188	0.00500	0.00232	0	80.9	10	400	0	0	
sec-Butylbenzene	0.00193	0.00500	0.00232	0	83.2	10	400	0	0	
Styrene	0.00156	0.00500	0.00232	0	67.2	10	400	0	0	
tert-Butylbenzene	0.00197	0.00500	0.00232	0	85.0	10	400	0	0	
Tetrachloroethene	0.00180	0.00500	0.00232	0	77.6	10	400	0	0	
Toluene	0.00243	0.00500	0.00232	0	105	10	400	0	0	
trans-1,2-Dichloroethene	0.00187	0.00500	0.00232	0	80.7	10	400	0	0	
trans-1,3-Dichloropropene	0.00209	0.00500	0.00232	0	90.0	10	400	0	0	
Trichloroethene	0.00242	0.00500	0.00232	0	104	10	400	0	0	
Vinyl chloride	0.00260	0.00500	0.00232	0	112	10	400	0	0	

Sample ID **DCS2-LQV2-69414** Batch ID: **69414** TestNo: **SW8260C** Units: **mg/Kg**
SampType: **DCS2** Run ID: **GCMS1_150501B** Analysis Date: **5/2/2015 12:51:00 AM** Prep Date: **5/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,2-Trichlorotrifluoroethane	0.00411	0.0150	0.00464	0	88.6	10	400	0	0	
Acetone	0.0561	0.0500	0.0464	0	121	10	400	0	0	
Carbon disulfide	0.00571	0.0150	0.00464	0	123	10	400	0	0	
Cyclohexane	0.00584	0.0150	0.00464	0	126	10	400	0	0	N
Methyl Acetate	0.00438	0.0150	0.00464	0	94.5	10	400	0	0	
Methylcyclohexane	0.00450	0.0150	0.00464	0	97.0	10	400	0	0	
Methylene chloride	0.00388	0.00500	0.00464	0	83.5	10	400	0	0	
Naphthalene	0.00574	0.0150	0.00464	0	124	10	400	0	0	
Trichlorofluoromethane	0.00522	0.0150	0.00464	0	112	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150501B**

Sample ID	**DCS1-69484**	Batch ID:	**69484**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**GCMS1_150501B**	Analysis Date:	**5/6/2015 11:31:00 PM**	Prep Date:	**5/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Butanone	0.0127	0.0150	0.0116	0	109	10	400	0	0	
2-Hexanone	0.00989	0.0150	0.0116	0	85.3	10	400	0	0	
4-Methyl-2-pentanone	0.0104	0.0150	0.0116	0	89.3	10	400	0	0	

Sample ID	**DCS2/LQV2-69484**	Batch ID:	**69484**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**DCS2**	Run ID:	**GCMS1_150501B**	Analysis Date:	**5/7/2015 12:02:00 AM**	Prep Date:	**5/6/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Butanone	0.0254	0.0150	0.0232	0	109	10	400	0	0	
2-Hexanone	0.0203	0.0150	0.0232	0	87.7	10	400	0	0	
4-Methyl-2-pentanone	0.0221	0.0150	0.0232	0	95.1	10	400	0	0	
Acetone	0.0234	0.0500	0.0232	0	101	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150630A**

The QC data in batch 70240 applies to the following samples: 1506310-06A, 1506310-07A, 1506310-08A, 1506310-09A, 1506310-10A, 1506310-11A, 1506310-17A, 1506310-18A, 1506310-19A, 1506310-20A, 1506310-21A, 1506310-22A, 1506310-23A, 1506310-27A

Sample ID	**LCS-70240**	Batch ID:	**70240**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**GCMS1_150630A**	Analysis Date:	**6/30/2015 12:13:00 PM**	Prep Date:	**6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0197	0.00500	0.0232	0	84.8	74	125			
1,1,1-Trichloroethane	0.0243	0.00500	0.0232	0	105	68	130			
1,1,2,2-Tetrachloroethane	0.0186	0.00500	0.0232	0	80.3	59	140			
1,1,2-Trichloroethane	0.0258	0.00500	0.0232	0	111	62	127			
1,1,2-Trichlorotrifluoroethane	0.0154	0.0150	0.0232	0	66.4	57	135			
1,1-Dichloroethane	0.0239	0.00500	0.0232	0	103	73	125			
1,1-Dichloroethene	0.0230	0.00500	0.0232	0	99.3	65	136			
1,1-Dichloropropene	0.0246	0.00500	0.0232	0	106	70	135			
1,2,3-Trichlorobenzene	0.0189	0.00500	0.0232	0	81.3	62	133			
1,2,3-Trichloropropane	0.0185	0.00500	0.0232	0	79.8	63	130			
1,2,4-Trichlorobenzene	0.0187	0.00500	0.0232	0	80.7	65	131			
1,2,4-Trimethylbenzene	0.0187	0.00500	0.0232	0	80.4	65	135			
1,2-Dibromo-3-chloropropane	0.0192	0.00500	0.0232	0	82.7	49	135			
1,2-Dibromoethane	0.0194	0.00500	0.0232	0	83.6	70	124			
1,2-Dichlorobenzene	0.0185	0.00500	0.0232	0	79.7	74	120			
1,2-Dichloroethane	0.0232	0.00500	0.0232	0	99.9	72	137			
1,2-Dichloropropane	0.0245	0.00500	0.0232	0	106	71	120			
1,3,5-Trimethylbenzene	0.0186	0.00500	0.0232	0	80.0	65	133			
1,3-Dichlorobenzene	0.0185	0.00500	0.0232	0	79.7	72	124			
1,3-Dichloropropane	0.0187	0.00500	0.0232	0	80.7	76	123			
1,4-Dichlorobenzene	0.0184	0.00500	0.0232	0	79.5	72	125			
1-Chlorohexane	0.0184	0.00500	0.0232	0	79.2	60	135			
2,2-Dichloropropane	0.0243	0.00500	0.0232	0	105	67	134			
2-Butanone	0.241	0.0150	0.232	0	104	60	135			
2-Chlorotoluene	0.0182	0.00500	0.0232	0	78.4	69	128			
2-Hexanone	0.196	0.0150	0.232	0	84.6	50	150			
4-Chlorotoluene	0.0181	0.00500	0.0232	0	78.2	73	126			
4-Methyl-2-pentanone	0.194	0.0150	0.232	0	83.6	60	135			
Acetone	0.247	0.0500	0.232	0	106	40	141			
Benzene	0.0244	0.00500	0.0232	0	105	73	126			
Bromobenzene	0.0189	0.00500	0.0232	0	81.3	66	121			
Bromochloromethane	0.0249	0.00500	0.0232	0	107	71	127			
Bromodichloromethane	0.0246	0.00500	0.0232	0	106	72	128			
Bromoform	0.0205	0.00500	0.0232	0	88.5	66	137			
Bromomethane	0.0186	0.00500	0.0232	0	80.4	45	141			
Carbon disulfide	0.0213	0.0150	0.0232	0	91.8	50	150			
Carbon tetrachloride	0.0248	0.00500	0.0232	0	107	67	133			
Chlorobenzene	0.0193	0.00500	0.0232	0	83.3	75	123			
Chloroethane	0.0229	0.00500	0.0232	0	98.7	41	141			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150630A**

Sample ID	**LCS-70240**	Batch ID:	**70240**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**GCMS1_150630A**	Analysis Date:	**6/30/2015 12:13:00 PM**	Prep Date:	**6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloroform	0.0246	0.00500	0.0232	0	106	72	124			
Chloromethane	0.0213	0.00500	0.0232	0	91.6	51	129			
cis-1,2-Dichloroethene	0.0249	0.00500	0.0232	0	107	67	125			
cis-1,3-Dichloropropene	0.0242	0.00500	0.0232	0	104	72	126			
Cyclohexane	0.0227	0.0150	0.0232	0	98.0	40	158			N
Dibromochloromethane	0.0194	0.00500	0.0232	0	83.5	66	130			
Dibromomethane	0.0249	0.00500	0.0232	0	107	73	128			
Dichlorodifluoromethane	0.0225	0.00500	0.0232	0	97.1	34	136			
Ethylbenzene	0.0194	0.00500	0.0232	0	83.5	74	127			
Hexachlorobutadiene	0.0186	0.00500	0.0232	0	80.1	53	142			
Isopropylbenzene	0.0197	0.00500	0.0232	0	85.1	77	129			
m,p-Xylene	0.0386	0.00500	0.0464	0	83.2	79	126			
Methyl Acetate	0.0225	0.0150	0.0232	0	97.0	50	150			
Methyl tert-butyl ether	0.0174	0.00500	0.0232	0	75.1	50	135			
Methylcyclohexane	0.0238	0.0150	0.0232	0	102	50	150			
Methylene chloride	0.0246	0.00500	0.0232	0	106	63	137			
Naphthalene	0.0188	0.0150	0.0232	0	81.1	51	135			
n-Butylbenzene	0.0188	0.00500	0.0232	0	81.1	65	138			
n-Propylbenzene	0.0185	0.00500	0.0232	0	79.9	63	135			
o-Xylene	0.0192	0.00500	0.0232	0	82.7	77	125			
p-Isopropyltoluene	0.0186	0.00500	0.0232	0	80.1	75	133			
sec-Butylbenzene	0.0187	0.00500	0.0232	0	80.6	63	132			
Styrene	0.0171	0.00500	0.0232	0	73.8	74	128			
tert-Butylbenzene	0.0191	0.00500	0.0232	0	82.3	65	132			
Tetrachloroethene	0.0196	0.00500	0.0232	0	84.3	67	139			
Toluene	0.0252	0.00500	0.0232	0	109	71	127			
trans-1,2-Dichloroethene	0.0240	0.00500	0.0232	0	103	66	134			
trans-1,3-Dichloropropene	0.0243	0.00500	0.0232	0	105	65	127			
Trichloroethene	0.0253	0.00500	0.0232	0	109	77	124			
Trichlorofluoromethane	0.0235	0.0150	0.0232	0	101	49	139			
Vinyl chloride	0.0231	0.00500	0.0232	0	99.4	58	126			
Surr: 1,2-Dichloroethane-d4	50.5		50.00		101	52	149			
Surr: 4-Bromofluorobenzene	51.3		50.00		103	84	118			
Surr: Dibromofluoromethane	53.6		50.00		107	65	135			
Surr: Toluene-d8	43.7		50.00		87.4	84	116			

Sample ID	**MB-70240**	Batch ID:	**70240**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**GCMS1_150630A**	Analysis Date:	**6/30/2015 1:16:00 PM**	Prep Date:	**6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	<0.00100	0.00500								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150630A**

Sample ID	**MB-70240**	Batch ID:	**70240**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**GCMS1_150630A**	Analysis Date:	**6/30/2015 1:16:00 PM**	Prep Date:	**6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	<0.00100	0.00500								
1,1,2,2-Tetrachloroethane	<0.00100	0.00500								
1,1,2-Trichloroethane	<0.00100	0.00500								
1,1,2-Trichlorotrifluoroethane	<0.00500	0.0150								
1,1-Dichloroethane	<0.00100	0.00500								
1,1-Dichloroethene	<0.00100	0.00500								
1,1-Dichloropropene	<0.00100	0.00500								
1,2,3-Trichlorobenzene	<0.00100	0.00500								
1,2,3-Trichloropropane	<0.00100	0.00500								
1,2,4-Trichlorobenzene	<0.00100	0.00500								
1,2,4-Trimethylbenzene	<0.00100	0.00500								
1,2-Dibromo-3-chloropropane	<0.00100	0.00500								
1,2-Dibromoethane	<0.00100	0.00500								
1,2-Dichlorobenzene	<0.00100	0.00500								
1,2-Dichloroethane	<0.00100	0.00500								
1,2-Dichloropropane	<0.00100	0.00500								
1,3,5-Trimethylbenzene	<0.00100	0.00500								
1,3-Dichlorobenzene	<0.00100	0.00500								
1,3-Dichloropropane	<0.00100	0.00500								
1,4-Dichlorobenzene	<0.00100	0.00500								
1-Chlorohexane	<0.00100	0.00500								
2,2-Dichloropropane	<0.00100	0.00500								
2-Butanone	<0.00500	0.0150								
2-Chlorotoluene	<0.00100	0.00500								
2-Hexanone	<0.00500	0.0150								
4-Chlorotoluene	<0.00100	0.00500								
4-Methyl-2-pentanone	<0.00500	0.0150								
Acetone	0.0177	0.0500								
Benzene	<0.00100	0.00500								
Bromobenzene	<0.00100	0.00500								
Bromochloromethane	<0.00100	0.00500								
Bromodichloromethane	<0.00100	0.00500								
Bromoform	<0.00100	0.00500								
Bromomethane	<0.00100	0.00500								
Carbon disulfide	<0.00500	0.0150								
Carbon tetrachloride	<0.00100	0.00500								
Chlorobenzene	<0.00100	0.00500								
Chloroethane	<0.00100	0.00500								
Chloroform	<0.00100	0.00500								
Chloromethane	<0.00100	0.00500								
cis-1,2-Dichloroethene	<0.00100	0.00500								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150630A**

Sample ID	**MB-70240**	Batch ID:	**70240**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**GCMS1_150630A**	Analysis Date:	**6/30/2015 1:16:00 PM**	Prep Date:	**6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	<0.00100	0.00500								
Cyclohexane	<0.00500	0.0150								N
Dibromochloromethane	<0.00100	0.00500								
Dibromomethane	<0.00100	0.00500								
Dichlorodifluoromethane	<0.00100	0.00500								
Ethylbenzene	<0.00100	0.00500								
Hexachlorobutadiene	<0.00100	0.00500								
Isopropylbenzene	<0.00100	0.00500								
m,p-Xylene	<0.00100	0.00500								
Methyl Acetate	<0.00500	0.0150								
Methyl tert-butyl ether	<0.00100	0.00500								
Methylcyclohexane	<0.00500	0.0150								
Methylene chloride	<0.00500	0.00500								
Naphthalene	<0.00500	0.0150								
n-Butylbenzene	<0.00100	0.00500								
n-Propylbenzene	<0.00100	0.00500								
o-Xylene	<0.00100	0.00500								
p-Isopropyltoluene	<0.00100	0.00500								
sec-Butylbenzene	<0.00100	0.00500								
Styrene	<0.00100	0.00500								
tert-Butylbenzene	<0.00100	0.00500								
Tetrachloroethene	<0.00100	0.00500								
Toluene	<0.00100	0.00500								
trans-1,2-Dichloroethene	<0.00100	0.00500								
trans-1,3-Dichloropropene	<0.00100	0.00500								
Trichloroethene	<0.00100	0.00500								
Trichlorofluoromethane	<0.00500	0.0150								
Vinyl chloride	<0.00100	0.00500								
Surr: 1,2-Dichloroethane-d4	50.5		50.00		101	52	149			
Surr: 4-Bromofluorobenzene	51.2		50.00		102	84	118			
Surr: Dibromofluoromethane	51.5		50.00		103	65	135			
Surr: Toluene-d8	44.4		50.00		88.7	84	116			

Sample ID	**1506310-27AMS**	Batch ID:	**70240**	TestNo:	**SW8260C**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**GCMS1_150630A**	Analysis Date:	**6/30/2015 9:05:00 PM**	Prep Date:	**6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0222	0.00686	0.0318	0	69.6	74	125			S
1,1,1-Trichloroethane	0.0308	0.00686	0.0318	0	96.8	68	130			
1,1,2,2-Tetrachloroethane	0.0218	0.00686	0.0318	0	68.6	59	140			
1,1,2-Trichloroethane	0.0308	0.00686	0.0318	0	96.8	62	127			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150630A**

Sample ID **1506310-27AMS**	Batch ID: **70240**	TestNo: **SW8260C**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GCMS1_150630A**	Analysis Date: **6/30/2015 9:05:00 PM**	Prep Date: **6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,2-Trichlorotrifluoroethane	0.0184	0.0206	0.0318	0	57.7	57	135			
1,1-Dichloroethane	0.0329	0.00686	0.0318	0	103	73	125			
1,1-Dichloroethene	0.0311	0.00686	0.0318	0	97.7	65	136			
1,1-Dichloropropene	0.0268	0.00686	0.0318	0	84.1	70	135			
1,2,3-Trichlorobenzene	0.0125	0.00686	0.0318	0	39.2	62	133			S
1,2,3-Trichloropropane	0.0235	0.00686	0.0318	0	73.8	63	130			
1,2,4-Trichlorobenzene	0.0119	0.00686	0.0318	0	37.4	65	131			S
1,2,4-Trimethylbenzene	0.0156	0.00686	0.0318	0	49.0	65	135			S
1,2-Dibromo-3-chloropropane	0.0216	0.00686	0.0318	0	68.0	49	135			
1,2-Dibromoethane	0.0224	0.00686	0.0318	0	70.2	70	124			
1,2-Dichlorobenzene	0.0154	0.00686	0.0318	0	48.3	74	120			S
1,2-Dichloroethane	0.0317	0.00686	0.0318	0	99.4	72	137			
1,2-Dichloropropane	0.0318	0.00686	0.0318	0	99.7	71	120			
1,3,5-Trimethylbenzene	0.0159	0.00686	0.0318	0	50.0	65	133			S
1,3-Dichlorobenzene	0.0145	0.00686	0.0318	0	45.6	72	124			S
1,3-Dichloropropane	0.0241	0.00686	0.0318	0	75.6	76	123			
1,4-Dichlorobenzene	0.0140	0.00686	0.0318	0	44.0	72	125			S
1-Chlorohexane	0.0163	0.00686	0.0318	0	51.3	60	135			S
2,2-Dichloropropane	0.0242	0.00686	0.0318	0	76.0	67	134			
2-Butanone	0.298	0.0206	0.318	0	93.6	60	135			
2-Chlorotoluene	0.0162	0.00686	0.0318	0	50.7	69	128			S
2-Hexanone	0.233	0.0206	0.318	0	73.2	50	150			
4-Chlorotoluene	0.0151	0.00686	0.0318	0	47.3	73	126			S
4-Methyl-2-pentanone	0.266	0.0206	0.318	0	83.4	60	135			
Acetone	0.328	0.0686	0.318	0	103	40	141			
Benzene	0.0301	0.00686	0.0318	0	94.6	73	126			
Bromobenzene	0.0176	0.00686	0.0318	0	55.3	66	121			S
Bromochloromethane	0.0320	0.00686	0.0318	0	100	71	127			
Bromodichloromethane	0.0289	0.00686	0.0318	0	90.7	72	128			
Bromoform	0.0213	0.00686	0.0318	0	66.9	66	137			
Bromomethane	0.0203	0.00686	0.0318	0	63.6	45	141			
Carbon disulfide	0.0250	0.0206	0.0318	0	78.5	50	150			
Carbon tetrachloride	0.0281	0.00686	0.0318	0	88.3	67	133			
Chlorobenzene	0.0188	0.00686	0.0318	0	59.1	75	123			S
Chloroethane	0.0310	0.00686	0.0318	0	97.4	41	141			
Chloroform	0.0317	0.00686	0.0318	0	99.5	72	124			
Chloromethane	0.0310	0.00686	0.0318	0	97.4	51	129			
cis-1,2-Dichloroethene	0.0304	0.00686	0.0318	0	95.5	67	125			
cis-1,3-Dichloropropene	0.0236	0.00686	0.0318	0	74.1	72	126			
Cyclohexane	0.0265	0.0206	0.0318	0	83.3	40	158			N
Dibromochloromethane	0.0220	0.00686	0.0318	0	69.1	66	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150630A**

Sample ID **1506310-27AMS**	Batch ID: **70240**	TestNo: **SW8260C**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GCMS1_150630A**	Analysis Date: **6/30/2015 9:05:00 PM**	Prep Date: **6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dibromomethane	0.0320	0.00686	0.0318	0	100	73	128			
Dichlorodifluoromethane	0.0294	0.00686	0.0318	0	92.2	34	136			
Ethylbenzene	0.0185	0.00686	0.0318	0	58.2	74	127			S
Hexachlorobutadiene	0.0103	0.00686	0.0318	0	32.4	53	142			S
Isopropylbenzene	0.0173	0.00686	0.0318	0	54.5	77	129			S
m,p-Xylene	0.0361	0.00686	0.0637	0	56.7	79	126			S
Methyl Acetate	0.0412	0.0206	0.0318	0	129	50	150			
Methyl tert-butyl ether	0.0242	0.00686	0.0318	0	75.9	50	135			
Methylcyclohexane	0.0231	0.0206	0.0318	0	72.4	50	150			
Methylene chloride	0.0347	0.00686	0.0318	0	109	63	137			
Naphthalene	0.0156	0.0206	0.0318	0	49.0	51	135			S
n-Butylbenzene	0.0116	0.00686	0.0318	0	36.4	65	138			S
n-Propylbenzene	0.0150	0.00686	0.0318	0	47.0	63	135			S
o-Xylene	0.0188	0.00686	0.0318	0	59.1	77	125			S
p-Isopropyltoluene	0.0137	0.00686	0.0318	0	43.0	75	133			S
sec-Butylbenzene	0.0146	0.00686	0.0318	0	45.9	63	132			S
Styrene	0.0153	0.00686	0.0318	0	47.9	74	128			S
tert-Butylbenzene	0.0166	0.00686	0.0318	0	52.0	65	132			S
Tetrachloroethene	0.0184	0.00686	0.0318	0	57.7	67	139			S
Toluene	0.0265	0.00686	0.0318	0	83.3	71	127			
trans-1,2-Dichloroethene	0.0286	0.00686	0.0318	0	89.8	66	134			
trans-1,3-Dichloropropene	0.0232	0.00686	0.0318	0	72.8	65	127			
Trichloroethene	0.0278	0.00686	0.0318	0	87.4	77	124			
Trichlorofluoromethane	0.0310	0.0206	0.0318	0	97.5	49	139			
Vinyl chloride	0.0303	0.00686	0.0318	0	95.2	58	126			
Surr: 1,2-Dichloroethane-d4	72.2		68.63		105	52	149			
Surr: 4-Bromofluorobenzene	72.1		68.63		105	84	118			
Surr: Dibromofluoromethane	73.5		68.63		107	65	135			
Surr: Toluene-d8	63.4		68.63		92.4	84	116			

Sample ID **1506310-27AMSD**	Batch ID: **70240**	TestNo: **SW8260C**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GCMS1_150630A**	Analysis Date: **6/30/2015 9:36:00 PM**	Prep Date: **6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0243	0.00773	0.0359	0	67.8	74	125	9.36	30	S
1,1,1-Trichloroethane	0.0341	0.00773	0.0359	0	95.0	68	130	10.1	30	
1,1,2,2-Tetrachloroethane	0.0241	0.00773	0.0359	0	67.2	59	140	9.93	30	
1,1,2-Trichloroethane	0.0346	0.00773	0.0359	0	96.3	62	127	11.4	30	
1,1,2-Trichlorotrifluoroethane	0.0198	0.0232	0.0359	0	55.3	57	135	7.71	30	S
1,1-Dichloroethane	0.0363	0.00773	0.0359	0	101	73	125	9.67	30	
1,1-Dichloroethene	0.0342	0.00773	0.0359	0	95.4	65	136	9.57	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150630A**

Sample ID **1506310-27AMSD**	Batch ID: **70240**	TestNo: **SW8260C**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GCMS1_150630A**	Analysis Date: **6/30/2015 9:36:00 PM**	Prep Date: **6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	0.0300	0.00773	0.0359	0	83.7	70	135	11.4	30	
1,2,3-Trichlorobenzene	0.0141	0.00773	0.0359	0	39.4	62	133	12.4	30	S
1,2,3-Trichloropropane	0.0266	0.00773	0.0359	0	74.2	63	130	12.4	30	
1,2,4-Trichlorobenzene	0.0131	0.00773	0.0359	0	36.6	65	131	9.71	30	S
1,2,4-Trimethylbenzene	0.0166	0.00773	0.0359	0	46.3	65	135	6.27	30	S
1,2-Dibromo-3-chloropropane	0.0243	0.00773	0.0359	0	67.6	49	135	11.4	30	
1,2-Dibromoethane	0.0253	0.00773	0.0359	0	70.4	70	124	12.2	30	
1,2-Dichlorobenzene	0.0169	0.00773	0.0359	0	47.2	74	120	9.61	30	S
1,2-Dichloroethane	0.0347	0.00773	0.0359	0	96.6	72	137	9.06	30	
1,2-Dichloropropane	0.0350	0.00773	0.0359	0	97.5	71	120	9.74	30	
1,3,5-Trimethylbenzene	0.0169	0.00773	0.0359	0	47.0	65	133	5.70	30	S
1,3-Dichlorobenzene	0.0156	0.00773	0.0359	0	43.6	72	124	7.41	30	S
1,3-Dichloropropane	0.0265	0.00773	0.0359	0	74.0	76	123	9.77	30	S
1,4-Dichlorobenzene	0.0155	0.00773	0.0359	0	43.1	72	125	9.74	30	S
1-Chlorohexane	0.0177	0.00773	0.0359	0	49.2	60	135	7.73	30	S
2,2-Dichloropropane	0.0269	0.00773	0.0359	0	75.0	67	134	10.7	30	
2-Butanone	0.335	0.0232	0.359	0	93.2	60	135	11.5	30	
2-Chlorotoluene	0.0174	0.00773	0.0359	0	48.4	69	128	7.28	30	S
2-Hexanone	0.253	0.0232	0.359	0	70.6	50	150	8.22	30	
4-Chlorotoluene	0.0160	0.00773	0.0359	0	44.7	73	126	6.20	30	S
4-Methyl-2-pentanone	0.296	0.0232	0.359	0	82.5	60	135	10.9	30	
Acetone	0.376	0.0773	0.359	0	105	40	141	13.6	30	
Benzene	0.0334	0.00773	0.0359	0	93.1	73	126	10.3	30	
Bromobenzene	0.0194	0.00773	0.0359	0	54.1	66	121	9.64	30	S
Bromochloromethane	0.0358	0.00773	0.0359	0	99.9	71	127	11.4	30	
Bromodichloromethane	0.0327	0.00773	0.0359	0	91.0	72	128	12.2	30	
Bromoform	0.0237	0.00773	0.0359	0	66.0	66	137	10.6	30	
Bromomethane	0.0236	0.00773	0.0359	0	65.7	45	141	15.1	30	
Carbon disulfide	0.0280	0.0232	0.0359	0	78.0	50	150	11.2	30	
Carbon tetrachloride	0.0318	0.00773	0.0359	0	88.7	67	133	12.3	30	
Chlorobenzene	0.0208	0.00773	0.0359	0	57.9	75	123	9.92	30	S
Chloroethane	0.0340	0.00773	0.0359	0	94.6	41	141	9.00	30	
Chloroform	0.0357	0.00773	0.0359	0	99.5	72	124	11.9	30	
Chloromethane	0.0341	0.00773	0.0359	0	95.1	51	129	9.55	30	
cis-1,2-Dichloroethene	0.0344	0.00773	0.0359	0	95.9	67	125	12.3	30	
cis-1,3-Dichloropropene	0.0260	0.00773	0.0359	0	72.4	72	126	9.60	30	
Cyclohexane	0.0299	0.0232	0.0359	0	83.4	40	158	12.0	30	N
Dibromochloromethane	0.0245	0.00773	0.0359	0	68.2	66	130	10.6	30	
Dibromomethane	0.0352	0.00773	0.0359	0	98.0	73	128	9.44	30	
Dichlorodifluoromethane	0.0334	0.00773	0.0359	0	93.2	34	136	13.0	30	
Ethylbenzene	0.0203	0.00773	0.0359	0	56.4	74	127	8.86	30	S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150630A**

Sample ID **1506310-27AMSD** Batch ID: **70240** TestNo: **SW8260C** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS1_150630A** Analysis Date: **6/30/2015 9:36:00 PM** Prep Date: **6/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	0.0111	0.00773	0.0359	0	31.1	53	142	7.87	30	S
Isopropylbenzene	0.0188	0.00773	0.0359	0	52.3	77	129	7.96	30	S
m,p-Xylene	0.0390	0.00773	0.0718	0	54.3	79	126	7.69	30	S
Methyl Acetate	0.0429	0.0232	0.0359	0	119	50	150	4.06	30	
Methyl tert-butyl ether	0.0273	0.00773	0.0359	0	76.0	50	135	12.1	30	
Methylcyclohexane	0.0255	0.0232	0.0359	0	71.0	50	150	9.96	30	
Methylene chloride	0.0394	0.00773	0.0359	0	110	63	137	12.9	30	
Naphthalene	0.0179	0.0232	0.0359	0	49.9	51	135	13.8	30	S
n-Butylbenzene	0.0119	0.00773	0.0359	0	33.3	65	138	3.03	30	S
n-Propylbenzene	0.0159	0.00773	0.0359	0	44.4	63	135	6.26	30	S
o-Xylene	0.0205	0.00773	0.0359	0	57.0	77	125	8.46	30	S
p-Isopropyltoluene	0.0139	0.00773	0.0359	0	38.8	75	133	1.59	30	S
sec-Butylbenzene	0.0154	0.00773	0.0359	0	42.9	63	132	5.14	30	S
Styrene	0.0168	0.00773	0.0359	0	46.9	74	128	9.90	30	S
tert-Butylbenzene	0.0177	0.00773	0.0359	0	49.2	65	132	6.44	30	S
Tetrachloroethene	0.0200	0.00773	0.0359	0	55.6	67	139	8.25	30	S
Toluene	0.0291	0.00773	0.0359	0	81.1	71	127	9.27	30	
trans-1,2-Dichloroethene	0.0322	0.00773	0.0359	0	89.8	66	134	11.9	30	
trans-1,3-Dichloropropene	0.0260	0.00773	0.0359	0	72.4	65	127	11.4	30	
Trichloroethene	0.0313	0.00773	0.0359	0	87.1	77	124	11.6	30	
Trichlorofluoromethane	0.0348	0.0232	0.0359	0	96.9	49	139	11.3	30	
Vinyl chloride	0.0340	0.00773	0.0359	0	94.6	58	126	11.3	30	
Surr: 1,2-Dichloroethane-d4	80.8		77.35		104	52	149	0	0	
Surr: 4-Bromofluorobenzene	81.7		77.35		106	84	118	0	0	
Surr: Dibromofluoromethane	82.6		77.35		107	65	135	0	0	
Surr: Toluene-d8	70.5		77.35		91.1	84	116	0	0	

Sample ID **MB-150630** Batch ID: **70240** TestNo: **SW8260C** Units: **mg/Kg**
SampType: **SBLK** Run ID: **GCMS1_150630A** Analysis Date: **6/30/2015 11:10:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	<0.00100	0.00500	0							
1,1,1-Trichloroethane	<0.00100	0.00500	0							
1,1,2,2-Tetrachloroethane	<0.00100	0.00500	0							
1,1,2-Trichloroethane	<0.00100	0.00500	0							
1,1,2-Trichlorotrifluoroethane	<0.00500	0.0150	0							
1,1-Dichloroethane	<0.00100	0.00500	0							
1,1-Dichloroethene	<0.00100	0.00500	0							
1,1-Dichloropropene	<0.00100	0.00500	0							
1,2,3-Trichlorobenzene	<0.00100	0.00500	0							
1,2,3-Trichloropropane	<0.00100	0.00500	0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150630A**

Sample ID	**MB-150630**	Batch ID:	**70240**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**SBLK**	Run ID:	**GCMS1_150630A**	Analysis Date:	**6/30/2015 11:10:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	<0.00100	0.00500	0							
1,2,4-Trimethylbenzene	<0.00100	0.00500	0							
1,2-Dibromo-3-chloropropane	<0.00100	0.00500	0							
1,2-Dibromoethane	<0.00100	0.00500	0							
1,2-Dichlorobenzene	<0.00100	0.00500	0							
1,2-Dichloroethane	<0.00100	0.00500	0							
1,2-Dichloropropane	<0.00100	0.00500	0							
1,3,5-Trimethylbenzene	<0.00100	0.00500	0							
1,3-Dichlorobenzene	<0.00100	0.00500	0							
1,3-Dichloropropane	<0.00100	0.00500	0							
1,4-Dichlorobenzene	<0.00100	0.00500	0							
1-Chlorohexane	0.00139	0.00500	0							
2,2-Dichloropropane	<0.00100	0.00500	0							
2-Butanone	<0.00500	0.0150	0							
2-Chlorotoluene	<0.00100	0.00500	0							
2-Hexanone	<0.00500	0.0150	0							
4-Chlorotoluene	<0.00100	0.00500	0							
4-Methyl-2-pentanone	<0.00500	0.0150	0							
Acetone	0.0295	0.0500	0							
Benzene	<0.00100	0.00500	0							
Bromobenzene	<0.00100	0.00500	0							
Bromochloromethane	<0.00100	0.00500	0							
Bromodichloromethane	<0.00100	0.00500	0							
Bromoform	<0.00100	0.00500	0							
Bromomethane	<0.00100	0.00500	0							
Carbon disulfide	<0.00500	0.0150	0							
Carbon tetrachloride	<0.00100	0.00500	0							
Chlorobenzene	<0.00100	0.00500	0							
Chloroethane	<0.00100	0.00500	0							
Chloroform	<0.00100	0.00500	0							
Chloromethane	<0.00100	0.00500	0							
cis-1,2-Dichloroethene	<0.00100	0.00500	0							
cis-1,3-Dichloropropene	<0.00100	0.00500	0							
Cyclohexane	<0.00500	0.0150	0							N
Dibromochloromethane	<0.00100	0.00500	0							
Dibromomethane	<0.00100	0.00500	0							
Dichlorodifluoromethane	<0.00100	0.00500	0							
Ethylbenzene	<0.00100	0.00500	0							
Hexachlorobutadiene	<0.00100	0.00500	0							
Isopropylbenzene	<0.00100	0.00500	0							
m,p-Xylene	<0.00100	0.00500	0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150630A**

Sample ID **MB-150630**	Batch ID: **70240**	TestNo: **SW8260C**	Units: **mg/Kg**
SampType: **SBLK**	Run ID: **GCMS1_150630A**	Analysis Date: **6/30/2015 11:10:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl Acetate	<0.00500	0.0150	0							
Methyl tert-butyl ether	<0.00100	0.00500	0							
Methylcyclohexane	<0.00500	0.0150	0							
Methylene chloride	<0.00500	0.00500	0							
Naphthalene	<0.00500	0.0150	0							
n-Butylbenzene	<0.00100	0.00500	0							
n-Propylbenzene	<0.00100	0.00500	0							
o-Xylene	<0.00100	0.00500	0							
p-Isopropyltoluene	<0.00100	0.00500	0							
sec-Butylbenzene	<0.00100	0.00500	0							
Styrene	<0.00100	0.00500	0							
tert-Butylbenzene	<0.00100	0.00500	0							
Tetrachloroethene	<0.00100	0.00500	0							
Toluene	<0.00100	0.00500	0							
trans-1,2-Dichloroethene	<0.00100	0.00500	0							
trans-1,3-Dichloropropene	<0.00100	0.00500	0							
Trichloroethene	<0.00100	0.00500	0							
Trichlorofluoromethane	<0.00500	0.0150	0							
Vinyl chloride	<0.00100	0.00500	0							
Surr: 1,2-Dichloroethane-d4	53.4		0							
Surr: 4-Bromofluorobenzene	51.1		0							
Surr: Dibromofluoromethane	58.2		0							
Surr: Toluene-d8	45.4		0							

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150630A**

Sample ID **ICV-150630**	Batch ID: **R80353**	TestNo: **SW8260C**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GCMS1_150630A**	Analysis Date: **6/30/2015 11:36:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0397	0.00500	0.0464	0	85.7	80	120			
1,1,1-Trichloroethane	0.0495	0.00500	0.0464	0	107	80	120			
1,1,2,2-Tetrachloroethane	0.0372	0.00500	0.0464	0	80.1	80	120			
1,1,2-Trichloroethane	0.0500	0.00500	0.0464	0	108	80	120			
1,1,2-Trichlorotrifluoroethane	0.0314	0.0150	0.0464	0	67.7	80	120			S
1,1-Dichloroethane	0.0499	0.00500	0.0464	0	108	80	120			
1,1-Dichloroethene	0.0489	0.00500	0.0464	0	105	80	120			
1,1-Dichloropropene	0.0504	0.00500	0.0464	0	109	80	120			
1,2,3-Trichlorobenzene	0.0375	0.00500	0.0464	0	80.8	80	120			
1,2,3-Trichloropropane	0.0367	0.00500	0.0464	0	79.1	80	120			S
1,2,4-Trichlorobenzene	0.0377	0.00500	0.0464	0	81.2	80	120			
1,2,4-Trimethylbenzene	0.0384	0.00500	0.0464	0	82.7	80	120			
1,2-Dibromo-3-chloropropane	0.0376	0.00500	0.0464	0	81.0	80	120			
1,2-Dibromoethane	0.0392	0.00500	0.0464	0	84.6	80	120			
1,2-Dichlorobenzene	0.0376	0.00500	0.0464	0	81.0	80	120			
1,2-Dichloroethane	0.0482	0.00500	0.0464	0	104	80	120			
1,2-Dichloropropane	0.0507	0.00500	0.0464	0	109	80	120			
1,3,5-Trimethylbenzene	0.0383	0.00500	0.0464	0	82.4	80	120			
1,3-Dichlorobenzene	0.0378	0.00500	0.0464	0	81.5	80	120			
1,3-Dichloropropane	0.0385	0.00500	0.0464	0	82.9	80	120			
1,4-Dichlorobenzene	0.0374	0.00500	0.0464	0	80.7	80	120			
1-Chlorohexane	0.0380	0.00500	0.0464	0	81.8	80	120			
2,2-Dichloropropane	0.0506	0.00500	0.0464	0	109	80	120			
2-Butanone	0.488	0.0150	0.464	0	105	80	120			
2-Chlorotoluene	0.0382	0.00500	0.0464	0	82.3	80	120			
2-Hexanone	0.398	0.0150	0.464	0	85.7	80	120			
4-Chlorotoluene	0.0375	0.00500	0.0464	0	80.8	80	120			
4-Methyl-2-pentanone	0.396	0.0150	0.464	0	85.3	80	120			
Acetone	0.481	0.0500	0.464	0	104	80	120			
Benzene	0.0507	0.00500	0.0464	0	109	80	120			
Bromobenzene	0.0382	0.00500	0.0464	0	82.3	80	120			
Bromochloromethane	0.0501	0.00500	0.0464	0	108	80	120			
Bromodichloromethane	0.0498	0.00500	0.0464	0	107	80	120			
Bromoform	0.0390	0.00500	0.0464	0	84.1	80	120			
Bromomethane	0.0367	0.00500	0.0464	0	79.0	80	120			S
Carbon disulfide	0.0434	0.0150	0.0464	0	93.6	80	120			
Carbon tetrachloride	0.0505	0.00500	0.0464	0	109	80	120			
Chlorobenzene	0.0396	0.00500	0.0464	0	85.3	80	120			
Chloroethane	0.0443	0.00500	0.0464	0	95.4	80	120			
Chloroform	0.0505	0.00500	0.0464	0	109	80	120			
Chloromethane	0.0445	0.00500	0.0464	0	95.9	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150630A**

Sample ID **ICV-150630** Batch ID: **R80353** TestNo: **SW8260C** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS1_150630A** Analysis Date: **6/30/2015 11:36:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	0.0507	0.00500	0.0464	0	109	80	120			
cis-1,3-Dichloropropene	0.0496	0.00500	0.0464	0	107	80	120			
Cyclohexane	0.0481	0.0150	0.0464	0	104	80	120			N
Dibromochloromethane	0.0391	0.00500	0.0464	0	84.3	80	120			
Dibromomethane	0.0492	0.00500	0.0464	0	106	80	120			
Dichlorodifluoromethane	0.0436	0.00500	0.0464	0	93.9	80	120			
Ethylbenzene	0.0405	0.00500	0.0464	0	87.3	80	120			
Hexachlorobutadiene	0.0367	0.00500	0.0464	0	79.0	80	120			S
Isopropylbenzene	0.0410	0.00500	0.0464	0	88.3	80	120			
m,p-Xylene	0.0812	0.00500	0.0928	0	87.5	80	120			
Methyl Acetate	0.0463	0.0150	0.0464	0	99.7	80	120			
Methyl tert-butyl ether	0.0355	0.00500	0.0464	0	76.5	80	120			S
Methylcyclohexane	0.0496	0.0150	0.0464	0	107	80	120			
Methylene chloride	0.0497	0.00500	0.0464	0	107	80	120			
Naphthalene	0.0361	0.0150	0.0464	0	77.8	80	120			S
n-Butylbenzene	0.0390	0.00500	0.0464	0	84.1	80	120			
n-Propylbenzene	0.0387	0.00500	0.0464	0	83.4	80	120			
o-Xylene	0.0405	0.00500	0.0464	0	87.3	80	120			
p-Isopropyltoluene	0.0388	0.00500	0.0464	0	83.7	80	120			
sec-Butylbenzene	0.0390	0.00500	0.0464	0	84.1	80	120			
Styrene	0.0365	0.00500	0.0464	0	78.6	80	120			S
tert-Butylbenzene	0.0392	0.00500	0.0464	0	84.5	80	120			
Tetrachloroethene	0.0401	0.00500	0.0464	0	86.4	80	120			
Toluene	0.0522	0.00500	0.0464	0	113	80	120			
trans-1,2-Dichloroethene	0.0490	0.00500	0.0464	0	106	80	120			
trans-1,3-Dichloropropene	0.0486	0.00500	0.0464	0	105	80	120			
Trichloroethene	0.0505	0.00500	0.0464	0	109	80	120			
Trichlorofluoromethane	0.0449	0.0150	0.0464	0	96.7	80	120			
Vinyl chloride	0.0462	0.00500	0.0464	0	99.6	80	120			
Surr: 1,2-Dichloroethane-d4	52.3		50.00		105	52	149			
Surr: 4-Bromofluorobenzene	52.5		50.00		105	84	118			
Surr: Dibromofluoromethane	52.4		50.00		105	65	135			
Surr: Toluene-d8	45.5		50.00		91.0	84	116			

Sample ID **ICV2-150630** Batch ID: **R80353** TestNo: **SW8260C** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS1_150630A** Analysis Date: **6/30/2015 10:08:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0422	0.00500	0.0464	0	91.0	80	120			
1,1,1-Trichloroethane	0.0515	0.00500	0.0464	0	111	80	120			
1,1,2,2-Tetrachloroethane	0.0389	0.00500	0.0464	0	83.8	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150630A**

Sample ID	**ICV2-150630**	Batch ID:	**R80353**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS1_150630A**	Analysis Date:	**6/30/2015 10:08:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane	0.0542	0.00500	0.0464	0	117	80	120			
1,1,2-Trichlorotrifluoroethane	0.0307	0.0150	0.0464	0	66.1	80	120			S
1,1-Dichloroethane	0.0519	0.00500	0.0464	0	112	80	120			
1,1-Dichloroethene	0.0501	0.00500	0.0464	0	108	80	120			
1,1-Dichloropropene	0.0510	0.00500	0.0464	0	110	80	120			
1,2,3-Trichlorobenzene	0.0382	0.00500	0.0464	0	82.4	80	120			
1,2,3-Trichloropropane	0.0401	0.00500	0.0464	0	86.5	80	120			
1,2,4-Trichlorobenzene	0.0374	0.00500	0.0464	0	80.6	80	120			
1,2,4-Trimethylbenzene	0.0398	0.00500	0.0464	0	85.7	80	120			
1,2-Dibromo-3-chloropropane	0.0406	0.00500	0.0464	0	87.4	80	120			
1,2-Dibromoethane	0.0415	0.00500	0.0464	0	89.4	80	120			
1,2-Dichlorobenzene	0.0391	0.00500	0.0464	0	84.3	80	120			
1,2-Dichloroethane	0.0522	0.00500	0.0464	0	112	80	120			
1,2-Dichloropropane	0.0534	0.00500	0.0464	0	115	80	120			
1,3,5-Trimethylbenzene	0.0398	0.00500	0.0464	0	85.7	80	120			
1,3-Dichlorobenzene	0.0384	0.00500	0.0464	0	82.7	80	120			
1,3-Dichloropropane	0.0420	0.00500	0.0464	0	90.5	80	120			
1,4-Dichlorobenzene	0.0382	0.00500	0.0464	0	82.3	80	120			
1-Chlorohexane	0.0382	0.00500	0.0464	0	82.2	80	120			
2,2-Dichloropropane	0.0395	0.00500	0.0464	0	85.2	80	120			
2-Butanone	0.530	0.0150	0.464	0	114	80	120			
2-Chlorotoluene	0.0399	0.00500	0.0464	0	85.9	80	120			
2-Hexanone	0.448	0.0150	0.464	0	96.6	80	120			
4-Chlorotoluene	0.0387	0.00500	0.0464	0	83.4	80	120			
4-Methyl-2-pentanone	0.444	0.0150	0.464	0	95.8	80	120			
Acetone	0.508	0.0500	0.464	0	110	80	120			
Benzene	0.0530	0.00500	0.0464	0	114	80	120			
Bromobenzene	0.0410	0.00500	0.0464	0	88.3	80	120			
Bromochloromethane	0.0521	0.00500	0.0464	0	112	80	120			
Bromodichloromethane	0.0528	0.00500	0.0464	0	114	80	120			
Bromoform	0.0422	0.00500	0.0464	0	91.0	80	120			
Bromomethane	0.0379	0.00500	0.0464	0	81.7	80	120			
Carbon disulfide	0.0445	0.0150	0.0464	0	96.0	80	120			
Carbon tetrachloride	0.0510	0.00500	0.0464	0	110	80	120			
Chlorobenzene	0.0415	0.00500	0.0464	0	89.5	80	120			
Chloroethane	0.0466	0.00500	0.0464	0	100	80	120			
Chloroform	0.0522	0.00500	0.0464	0	113	80	120			
Chloromethane	0.0488	0.00500	0.0464	0	105	80	120			
cis-1,2-Dichloroethene	0.0526	0.00500	0.0464	0	113	80	120			
cis-1,3-Dichloropropene	0.0487	0.00500	0.0464	0	105	80	120			
Cyclohexane	0.0476	0.0150	0.0464	0	103	80	120			N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150630A**

Sample ID	**ICV2-150630**	Batch ID:	**R80353**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS1_150630A**	Analysis Date:	**6/30/2015 10:08:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dibromochloromethane	0.0419	0.00500	0.0464	0	90.3	80	120			
Dibromomethane	0.0525	0.00500	0.0464	0	113	80	120			
Dichlorodifluoromethane	0.0472	0.00500	0.0464	0	102	80	120			
Ethylbenzene	0.0417	0.00500	0.0464	0	90.0	80	120			
Hexachlorobutadiene	0.0355	0.00500	0.0464	0	76.5	80	120			S
Isopropylbenzene	0.0418	0.00500	0.0464	0	90.0	80	120			
m,p-Xylene	0.0843	0.00500	0.0928	0	90.9	80	120			
Methyl Acetate	0.0518	0.0150	0.0464	0	112	80	120			
Methyl tert-butyl ether	0.0376	0.00500	0.0464	0	81.0	80	120			
Methylcyclohexane	0.0472	0.0150	0.0464	0	102	80	120			
Methylene chloride	0.0526	0.00500	0.0464	0	113	80	120			
Naphthalene	0.0387	0.0150	0.0464	0	83.3	80	120			
n-Butylbenzene	0.0370	0.00500	0.0464	0	79.6	80	120			
n-Propylbenzene	0.0389	0.00500	0.0464	0	83.8	80	120			
o-Xylene	0.0423	0.00500	0.0464	0	91.2	80	120			
p-Isopropyltoluene	0.0390	0.00500	0.0464	0	84.0	80	120			
sec-Butylbenzene	0.0397	0.00500	0.0464	0	85.7	80	120			
Styrene	0.0383	0.00500	0.0464	0	82.4	80	120			
tert-Butylbenzene	0.0410	0.00500	0.0464	0	88.3	80	120			
Tetrachloroethene	0.0405	0.00500	0.0464	0	87.3	80	120			
Toluene	0.0533	0.00500	0.0464	0	115	80	120			
trans-1,2-Dichloroethene	0.0505	0.00500	0.0464	0	109	80	120			
trans-1,3-Dichloropropene	0.0482	0.00500	0.0464	0	104	80	120			
Trichloroethene	0.0527	0.00500	0.0464	0	113	80	120			
Trichlorofluoromethane	0.0471	0.0150	0.0464	0	102	80	120			
Vinyl chloride	0.0483	0.00500	0.0464	0	104	80	120			
Surr: 1,2-Dichloroethane-d4	53.6		50.00		107	52	149			
Surr: 4-Bromofluorobenzene	51.5		50.00		103	84	118			
Surr: Dibromofluoromethane	52.3		50.00		105	65	135			
Surr: Toluene-d8	45.3		50.00		90.5	84	116			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150701A**

The QC data in batch 70297 applies to the following samples: 1506310-23A, 1506310-24A, 1506310-25A, 1506310-26A, 1506310-28A, 1506310-32A, 1506310-33A, 1506310-34A, 1506310-35A

Sample ID	**LCS-70297**	Batch ID:	**70297**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**GCMS1_150701A**	Analysis Date:	**7/1/2015 11:42:00 AM**	Prep Date:	**7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0208	0.00500	0.0232	0	89.6	74	125			
1,1,1-Trichloroethane	0.0269	0.00500	0.0232	0	116	68	130			
1,1,2,2-Tetrachloroethane	0.0190	0.00500	0.0232	0	81.9	59	140			
1,1,2-Trichloroethane	0.0264	0.00500	0.0232	0	114	62	127			
1,1,2-Trichlorotrifluoroethane	0.0168	0.0150	0.0232	0	72.4	57	135			
1,1-Dichloroethane	0.0276	0.00500	0.0232	0	119	73	125			
1,1-Dichloroethene	0.0267	0.00500	0.0232	0	115	65	136			
1,1-Dichloropropene	0.0272	0.00500	0.0232	0	117	70	135			
1,2,3-Trichlorobenzene	0.0204	0.00500	0.0232	0	88.0	62	133			
1,2,3-Trichloropropane	0.0187	0.00500	0.0232	0	80.4	63	130			
1,2,4-Trichlorobenzene	0.0207	0.00500	0.0232	0	89.3	65	131			
1,2,4-Trimethylbenzene	0.0206	0.00500	0.0232	0	88.9	65	135			
1,2-Dibromo-3-chloropropane	0.0185	0.00500	0.0232	0	79.8	49	135			
1,2-Dibromoethane	0.0206	0.00500	0.0232	0	88.7	70	124			
1,2-Dichlorobenzene	0.0201	0.00500	0.0232	0	86.7	74	120			
1,2-Dichloroethane	0.0265	0.00500	0.0232	0	114	72	137			
1,2-Dichloropropane	0.0278	0.00500	0.0232	0	120	71	120			
1,3,5-Trimethylbenzene	0.0203	0.00500	0.0232	0	87.4	65	133			
1,3-Dichlorobenzene	0.0204	0.00500	0.0232	0	88.0	72	124			
1,3-Dichloropropane	0.0207	0.00500	0.0232	0	89.2	76	123			
1,4-Dichlorobenzene	0.0204	0.00500	0.0232	0	88.0	72	125			
1-Chlorohexane	0.0222	0.00500	0.0232	0	95.7	60	135			
2,2-Dichloropropane	0.0285	0.00500	0.0232	0	123	67	134			
2-Butanone	0.253	0.0150	0.232	0	109	60	135			
2-Chlorotoluene	0.0205	0.00500	0.0232	0	88.2	69	128			
2-Hexanone	0.209	0.0150	0.232	0	90.2	50	150			
4-Chlorotoluene	0.0208	0.00500	0.0232	0	89.5	73	126			
4-Methyl-2-pentanone	0.209	0.0150	0.232	0	90.1	60	135			
Acetone	0.273	0.0500	0.232	0	118	40	141			
Benzene	0.0269	0.00500	0.0232	0	116	73	126			
Bromobenzene	0.0198	0.00500	0.0232	0	85.3	66	121			
Bromochloromethane	0.0259	0.00500	0.0232	0	112	71	127			
Bromodichloromethane	0.0267	0.00500	0.0232	0	115	72	128			
Bromoform	0.0198	0.00500	0.0232	0	85.2	66	137			
Bromomethane	0.0206	0.00500	0.0232	0	88.7	45	141			
Carbon disulfide	0.0239	0.0150	0.0232	0	103	50	150			
Carbon tetrachloride	0.0274	0.00500	0.0232	0	118	67	133			
Chlorobenzene	0.0215	0.00500	0.0232	0	92.7	75	123			
Chloroethane	0.0248	0.00500	0.0232	0	107	41	141			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150701A**

Sample ID **LCS-70297**	Batch ID: **70297**	TestNo: **SW8260C**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **GCMS1_150701A**	Analysis Date: **7/1/2015 11:42:00 AM**	Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloroform	0.0271	0.00500	0.0232	0	117	72	124			
Chloromethane	0.0256	0.00500	0.0232	0	110	51	129			
cis-1,2-Dichloroethene	0.0266	0.00500	0.0232	0	115	67	125			
cis-1,3-Dichloropropene	0.0259	0.00500	0.0232	0	112	72	126			
Cyclohexane	0.0260	0.0150	0.0232	0	112	40	158			N
Dibromochloromethane	0.0203	0.00500	0.0232	0	87.3	66	130			
Dibromomethane	0.0262	0.00500	0.0232	0	113	73	128			
Dichlorodifluoromethane	0.0255	0.00500	0.0232	0	110	34	136			
Ethylbenzene	0.0217	0.00500	0.0232	0	93.5	74	127			
Hexachlorobutadiene	0.0205	0.00500	0.0232	0	88.2	53	142			
Isopropylbenzene	0.0221	0.00500	0.0232	0	95.4	77	129			
m,p-Xylene	0.0445	0.00500	0.0464	0	95.8	79	126			
Methyl Acetate	0.0241	0.0150	0.0232	0	104	50	150			
Methyl tert-butyl ether	0.0186	0.00500	0.0232	0	80.1	50	135			
Methylcyclohexane	0.0269	0.0150	0.0232	0	116	50	150			
Methylene chloride	0.0277	0.00500	0.0232	0	119	63	137			
Naphthalene	0.0197	0.0150	0.0232	0	84.9	51	135			
n-Butylbenzene	0.0218	0.00500	0.0232	0	93.9	65	138			
n-Propylbenzene	0.0211	0.00500	0.0232	0	91.0	63	135			
o-Xylene	0.0220	0.00500	0.0232	0	94.7	77	125			
p-Isopropyltoluene	0.0210	0.00500	0.0232	0	90.4	75	133			
sec-Butylbenzene	0.0210	0.00500	0.0232	0	90.5	63	132			
Styrene	0.0195	0.00500	0.0232	0	84.1	74	128			
tert-Butylbenzene	0.0211	0.00500	0.0232	0	90.8	65	132			
Tetrachloroethene	0.0216	0.00500	0.0232	0	93.0	67	139			
Toluene	0.0277	0.00500	0.0232	0	120	71	127			
trans-1,2-Dichloroethene	0.0266	0.00500	0.0232	0	115	66	134			
trans-1,3-Dichloropropene	0.0256	0.00500	0.0232	0	110	65	127			
Trichloroethene	0.0263	0.00500	0.0232	0	114	77	124			
Trichlorofluoromethane	0.0257	0.0150	0.0232	0	111	49	139			
Vinyl chloride	0.0255	0.00500	0.0232	0	110	58	126			
Surr: 1,2-Dichloroethane-d4	53.0		50.00		106	52	149			
Surr: 4-Bromofluorobenzene	49.6		50.00		99.2	84	118			
Surr: Dibromofluoromethane	53.0		50.00		106	65	135			
Surr: Toluene-d8	46.2		50.00		92.4	84	116			

Sample ID **MB-70297**	Batch ID: **70297**	TestNo: **SW8260C**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GCMS1_150701A**	Analysis Date: **7/1/2015 12:45:00 PM**	Prep Date: **7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	<0.00100	0.00500								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150701A**

Sample ID	**MB-70297**	Batch ID:	**70297**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**GCMS1_150701A**	Analysis Date:	**7/1/2015 12:45:00 PM**	Prep Date:	**7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	<0.00100	0.00500								
1,1,2,2-Tetrachloroethane	<0.00100	0.00500								
1,1,2-Trichloroethane	<0.00100	0.00500								
1,1,2-Trichlorotrifluoroethane	<0.00500	0.0150								
1,1-Dichloroethane	<0.00100	0.00500								
1,1-Dichloroethene	<0.00100	0.00500								
1,1-Dichloropropene	<0.00100	0.00500								
1,2,3-Trichlorobenzene	<0.00100	0.00500								
1,2,3-Trichloropropane	<0.00100	0.00500								
1,2,4-Trichlorobenzene	<0.00100	0.00500								
1,2,4-Trimethylbenzene	<0.00100	0.00500								
1,2-Dibromo-3-chloropropane	<0.00100	0.00500								
1,2-Dibromoethane	<0.00100	0.00500								
1,2-Dichlorobenzene	<0.00100	0.00500								
1,2-Dichloroethane	<0.00100	0.00500								
1,2-Dichloropropane	<0.00100	0.00500								
1,3,5-Trimethylbenzene	<0.00100	0.00500								
1,3-Dichlorobenzene	<0.00100	0.00500								
1,3-Dichloropropane	<0.00100	0.00500								
1,4-Dichlorobenzene	<0.00100	0.00500								
1-Chlorohexane	<0.00100	0.00500								
2,2-Dichloropropane	<0.00100	0.00500								
2-Butanone	<0.00500	0.0150								
2-Chlorotoluene	<0.00100	0.00500								
2-Hexanone	<0.00500	0.0150								
4-Chlorotoluene	<0.00100	0.00500								
4-Methyl-2-pentanone	<0.00500	0.0150								
Acetone	<0.0150	0.0500								
Benzene	<0.00100	0.00500								
Bromobenzene	<0.00100	0.00500								
Bromochloromethane	<0.00100	0.00500								
Bromodichloromethane	<0.00100	0.00500								
Bromoform	<0.00100	0.00500								
Bromomethane	<0.00100	0.00500								
Carbon disulfide	<0.00500	0.0150								
Carbon tetrachloride	<0.00100	0.00500								
Chlorobenzene	<0.00100	0.00500								
Chloroethane	<0.00100	0.00500								
Chloroform	<0.00100	0.00500								
Chloromethane	<0.00100	0.00500								
cis-1,2-Dichloroethene	<0.00100	0.00500								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150701A**

Sample ID	**MB-70297**	Batch ID:	**70297**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**GCMS1_150701A**	Analysis Date:	**7/1/2015 12:45:00 PM**	Prep Date:	**7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	<0.00100	0.00500								
Cyclohexane	<0.00500	0.0150								N
Dibromochloromethane	<0.00100	0.00500								
Dibromomethane	<0.00100	0.00500								
Dichlorodifluoromethane	<0.00100	0.00500								
Ethylbenzene	<0.00100	0.00500								
Hexachlorobutadiene	<0.00100	0.00500								
Isopropylbenzene	<0.00100	0.00500								
m,p-Xylene	<0.00100	0.00500								
Methyl Acetate	<0.00500	0.0150								
Methyl tert-butyl ether	<0.00100	0.00500								
Methylcyclohexane	<0.00500	0.0150								
Methylene chloride	<0.00500	0.00500								
Naphthalene	<0.00500	0.0150								
n-Butylbenzene	<0.00100	0.00500								
n-Propylbenzene	<0.00100	0.00500								
o-Xylene	<0.00100	0.00500								
p-Isopropyltoluene	<0.00100	0.00500								
sec-Butylbenzene	<0.00100	0.00500								
Styrene	<0.00100	0.00500								
tert-Butylbenzene	<0.00100	0.00500								
Tetrachloroethene	<0.00100	0.00500								
Toluene	<0.00100	0.00500								
trans-1,2-Dichloroethene	<0.00100	0.00500								
trans-1,3-Dichloropropene	<0.00100	0.00500								
Trichloroethene	<0.00100	0.00500								
Trichlorofluoromethane	<0.00500	0.0150								
Vinyl chloride	<0.00100	0.00500								
Surr: 1,2-Dichloroethane-d4	54.9		50.00		110	52	149			
Surr: 4-Bromofluorobenzene	50.6		50.00		101	84	118			
Surr: Dibromofluoromethane	53.4		50.00		107	65	135			
Surr: Toluene-d8	46.0		50.00		91.9	84	116			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150701A**

Sample ID **ICV-150701**	Batch ID: **R80380**	TestNo: **SW8260C**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GCMS1_150701A**	Analysis Date: **7/1/2015 11:11:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0425	0.00500	0.0464	0	91.7	80	120			
1,1,1-Trichloroethane	0.0545	0.00500	0.0464	0	117	80	120			
1,1,2,2-Tetrachloroethane	0.0380	0.00500	0.0464	0	82.0	80	120			
1,1,2-Trichloroethane	0.0538	0.00500	0.0464	0	116	80	120			
1,1,2-Trichlorotrifluoroethane	0.0343	0.0150	0.0464	0	74.0	80	120			S
1,1-Dichloroethane	0.0550	0.00500	0.0464	0	119	80	120			
1,1-Dichloroethene	0.0539	0.00500	0.0464	0	116	80	120			
1,1-Dichloropropene	0.0548	0.00500	0.0464	0	118	80	120			
1,2,3-Trichlorobenzene	0.0406	0.00500	0.0464	0	87.6	80	120			
1,2,3-Trichloropropane	0.0369	0.00500	0.0464	0	79.5	80	120			S
1,2,4-Trichlorobenzene	0.0411	0.00500	0.0464	0	88.7	80	120			
1,2,4-Trimethylbenzene	0.0410	0.00500	0.0464	0	88.4	80	120			
1,2-Dibromo-3-chloropropane	0.0379	0.00500	0.0464	0	81.6	80	120			
1,2-Dibromoethane	0.0420	0.00500	0.0464	0	90.6	80	120			
1,2-Dichlorobenzene	0.0404	0.00500	0.0464	0	87.2	80	120			
1,2-Dichloroethane	0.0537	0.00500	0.0464	0	116	80	120			
1,2-Dichloropropane	0.0564	0.00500	0.0464	0	122	80	120			S
1,3,5-Trimethylbenzene	0.0402	0.00500	0.0464	0	86.7	80	120			
1,3-Dichlorobenzene	0.0412	0.00500	0.0464	0	88.9	80	120			
1,3-Dichloropropane	0.0422	0.00500	0.0464	0	90.9	80	120			
1,4-Dichlorobenzene	0.0407	0.00500	0.0464	0	87.7	80	120			
1-Chlorohexane	0.0433	0.00500	0.0464	0	93.3	80	120			
2,2-Dichloropropane	0.0573	0.00500	0.0464	0	124	80	120			S
2-Butanone	0.512	0.0150	0.464	0	110	80	120			
2-Chlorotoluene	0.0405	0.00500	0.0464	0	87.2	80	120			
2-Hexanone	0.423	0.0150	0.464	0	91.1	80	120			
4-Chlorotoluene	0.0411	0.00500	0.0464	0	88.5	80	120			
4-Methyl-2-pentanone	0.429	0.0150	0.464	0	92.6	80	120			
Acetone	0.535	0.0500	0.464	0	115	80	120			
Benzene	0.0543	0.00500	0.0464	0	117	80	120			
Bromobenzene	0.0388	0.00500	0.0464	0	83.6	80	120			
Bromochloromethane	0.0517	0.00500	0.0464	0	111	80	120			
Bromodichloromethane	0.0548	0.00500	0.0464	0	118	80	120			
Bromoform	0.0407	0.00500	0.0464	0	87.8	80	120			
Bromomethane	0.0391	0.00500	0.0464	0	84.2	80	120			
Carbon disulfide	0.0477	0.0150	0.0464	0	103	80	120			
Carbon tetrachloride	0.0542	0.00500	0.0464	0	117	80	120			
Chlorobenzene	0.0430	0.00500	0.0464	0	92.6	80	120			
Chloroethane	0.0483	0.00500	0.0464	0	104	80	120			
Chloroform	0.0542	0.00500	0.0464	0	117	80	120			
Chloromethane	0.0518	0.00500	0.0464	0	112	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150701A**

Sample ID **ICV-150701**	Batch ID: **R80380**	TestNo: **SW8260C**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GCMS1_150701A**	Analysis Date: **7/1/2015 11:11:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	0.0540	0.00500	0.0464	0	116	80	120			
cis-1,3-Dichloropropene	0.0529	0.00500	0.0464	0	114	80	120			
Cyclohexane	0.0521	0.0150	0.0464	0	112	80	120			N
Dibromochloromethane	0.0420	0.00500	0.0464	0	90.6	80	120			
Dibromomethane	0.0526	0.00500	0.0464	0	113	80	120			
Dichlorodifluoromethane	0.0512	0.00500	0.0464	0	110	80	120			
Ethylbenzene	0.0440	0.00500	0.0464	0	94.8	80	120			
Hexachlorobutadiene	0.0404	0.00500	0.0464	0	87.1	80	120			
Isopropylbenzene	0.0448	0.00500	0.0464	0	96.4	80	120			
m,p-Xylene	0.0887	0.00500	0.0928	0	95.6	80	120			
Methyl Acetate	0.0482	0.0150	0.0464	0	104	80	120			
Methyl tert-butyl ether	0.0371	0.00500	0.0464	0	80.0	80	120			
Methylcyclohexane	0.0557	0.0150	0.0464	0	120	80	120			
Methylene chloride	0.0542	0.00500	0.0464	0	117	80	120			
Naphthalene	0.0376	0.0150	0.0464	0	81.0	80	120			
n-Butylbenzene	0.0435	0.00500	0.0464	0	93.8	80	120			
n-Propylbenzene	0.0413	0.00500	0.0464	0	89.0	80	120			
o-Xylene	0.0439	0.00500	0.0464	0	94.6	80	120			
p-Isopropyltoluene	0.0426	0.00500	0.0464	0	91.8	80	120			
sec-Butylbenzene	0.0423	0.00500	0.0464	0	91.3	80	120			
Styrene	0.0396	0.00500	0.0464	0	85.4	80	120			
tert-Butylbenzene	0.0419	0.00500	0.0464	0	90.4	80	120			
Tetrachloroethene	0.0442	0.00500	0.0464	0	95.2	80	120			
Toluene	0.0566	0.00500	0.0464	0	122	80	120			S
trans-1,2-Dichloroethene	0.0529	0.00500	0.0464	0	114	80	120			
trans-1,3-Dichloropropene	0.0530	0.00500	0.0464	0	114	80	120			
Trichloroethene	0.0536	0.00500	0.0464	0	116	80	120			
Trichlorofluoromethane	0.0515	0.0150	0.0464	0	111	80	120			
Vinyl chloride	0.0508	0.00500	0.0464	0	109	80	120			
Surr: 1,2-Dichloroethane-d4	54.7		50.00		109	52	149			
Surr: 4-Bromofluorobenzene	48.9		50.00		97.8	84	118			
Surr: Dibromofluoromethane	52.1		50.00		104	65	135			
Surr: Toluene-d8	46.8		50.00		93.6	84	116			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150707A**

The QC data in batch 70351 applies to the following samples: 1506310-34A

Sample ID	**LCS-70351**	Batch ID:	**70351**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**GCMS1_150707A**	Analysis Date:	**7/7/2015 11:14:00 AM**	Prep Date:	**7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0212	0.00500	0.0232	0	91.5	74	125			
1,1,1-Trichloroethane	0.0228	0.00500	0.0232	0	98.5	68	130			
1,1,2,2-Tetrachloroethane	0.0212	0.00500	0.0232	0	91.2	59	140			
1,1,2-Trichloroethane	0.0240	0.00500	0.0232	0	103	62	127			
1,1,2-Trichlorotrifluoroethane	0.0143	0.0150	0.0232	0	61.7	57	135			
1,1-Dichloroethane	0.0233	0.00500	0.0232	0	100	73	125			
1,1-Dichloroethene	0.0226	0.00500	0.0232	0	97.3	65	136			
1,1-Dichloropropene	0.0231	0.00500	0.0232	0	99.6	70	135			
1,2,3-Trichlorobenzene	0.0219	0.00500	0.0232	0	94.2	62	133			
1,2,3-Trichloropropane	0.0212	0.00500	0.0232	0	91.3	63	130			
1,2,4-Trichlorobenzene	0.0219	0.00500	0.0232	0	94.3	65	131			
1,2,4-Trimethylbenzene	0.0216	0.00500	0.0232	0	92.9	65	135			
1,2-Dibromo-3-chloropropane	0.0220	0.00500	0.0232	0	95.0	49	135			
1,2-Dibromoethane	0.0215	0.00500	0.0232	0	92.5	70	124			
1,2-Dichlorobenzene	0.0211	0.00500	0.0232	0	91.1	74	120			
1,2-Dichloroethane	0.0230	0.00500	0.0232	0	99.0	72	137			
1,2-Dichloropropane	0.0240	0.00500	0.0232	0	103	71	120			
1,3,5-Trimethylbenzene	0.0214	0.00500	0.0232	0	92.2	65	133			
1,3-Dichlorobenzene	0.0215	0.00500	0.0232	0	92.5	72	124			
1,3-Dichloropropane	0.0218	0.00500	0.0232	0	93.8	76	123			
1,4-Dichlorobenzene	0.0212	0.00500	0.0232	0	91.3	72	125			
1-Chlorohexane	0.0220	0.00500	0.0232	0	95.0	60	135			
2,2-Dichloropropane	0.0245	0.00500	0.0232	0	106	67	134			
2-Butanone	0.243	0.0150	0.232	0	105	60	135			
2-Chlorotoluene	0.0217	0.00500	0.0232	0	93.6	69	128			
2-Hexanone	0.233	0.0150	0.232	0	100	50	150			
4-Chlorotoluene	0.0214	0.00500	0.0232	0	92.5	73	126			
4-Methyl-2-pentanone	0.233	0.0150	0.232	0	101	60	135			
Acetone	0.247	0.0500	0.232	0	107	40	141			
Benzene	0.0231	0.00500	0.0232	0	99.6	73	126			
Bromobenzene	0.0208	0.00500	0.0232	0	89.7	66	121			
Bromochloromethane	0.0229	0.00500	0.0232	0	98.6	71	127			
Bromodichloromethane	0.0232	0.00500	0.0232	0	100	72	128			
Bromoform	0.0205	0.00500	0.0232	0	88.4	66	137			
Bromomethane	0.0199	0.00500	0.0232	0	85.7	45	141			
Carbon disulfide	0.0195	0.0150	0.0232	0	83.9	50	150			
Carbon tetrachloride	0.0233	0.00500	0.0232	0	101	67	133			
Chlorobenzene	0.0216	0.00500	0.0232	0	93.1	75	123			
Chloroethane	0.0211	0.00500	0.0232	0	90.8	41	141			
Chloroform	0.0233	0.00500	0.0232	0	100	72	124			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150707A**

Sample ID **LCS-70351**	Batch ID: **70351**	TestNo: **SW8260C**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **GCMS1_150707A**	Analysis Date: **7/7/2015 11:14:00 AM**	Prep Date: **7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloromethane	0.0254	0.00500	0.0232	0	110	51	129			
cis-1,2-Dichloroethene	0.0229	0.00500	0.0232	0	98.9	67	125			
cis-1,3-Dichloropropene	0.0226	0.00500	0.0232	0	97.4	72	126			
Cyclohexane	0.0226	0.0150	0.0232	0	97.3	40	158			N
Dibromochloromethane	0.0209	0.00500	0.0232	0	90.3	66	130			
Dibromomethane	0.0233	0.00500	0.0232	0	100	73	128			
Dichlorodifluoromethane	0.0263	0.00500	0.0232	0	113	34	136			
Ethylbenzene	0.0220	0.00500	0.0232	0	94.8	74	127			
Hexachlorobutadiene	0.0214	0.00500	0.0232	0	92.4	53	142			
Isopropylbenzene	0.0221	0.00500	0.0232	0	95.4	77	129			
m,p-Xylene	0.0441	0.00500	0.0464	0	95.0	79	126			
Methyl Acetate	0.0224	0.0150	0.0232	0	96.6	50	150			
Methyl tert-butyl ether	0.0168	0.00500	0.0232	0	72.3	50	135			
Methylcyclohexane	0.0231	0.0150	0.0232	0	99.8	50	150			
Methylene chloride	0.0235	0.00500	0.0232	0	101	63	137			
Naphthalene	0.0221	0.0150	0.0232	0	95.5	51	135			
n-Butylbenzene	0.0221	0.00500	0.0232	0	95.1	65	138			
n-Propylbenzene	0.0217	0.00500	0.0232	0	93.7	63	135			
o-Xylene	0.0218	0.00500	0.0232	0	93.8	77	125			
p-Isopropyltoluene	0.0217	0.00500	0.0232	0	93.6	75	133			
sec-Butylbenzene	0.0217	0.00500	0.0232	0	93.4	63	132			
Styrene	0.0194	0.00500	0.0232	0	83.5	74	128			
tert-Butylbenzene	0.0215	0.00500	0.0232	0	92.6	65	132			
Tetrachloroethene	0.0216	0.00500	0.0232	0	92.9	67	139			
Toluene	0.0237	0.00500	0.0232	0	102	71	127			
trans-1,2-Dichloroethene	0.0224	0.00500	0.0232	0	96.6	66	134			
trans-1,3-Dichloropropene	0.0227	0.00500	0.0232	0	97.8	65	127			
Trichloroethene	0.0233	0.00500	0.0232	0	100	77	124			
Trichlorofluoromethane	0.0221	0.0150	0.0232	0	95.1	49	139			
Vinyl chloride	0.0236	0.00500	0.0232	0	102	58	126			
Surr: 1,2-Dichloroethane-d4	54.3		50.00		109	52	149			
Surr: 4-Bromofluorobenzene	52.9		50.00		106	84	118			
Surr: Dibromofluoromethane	52.5		50.00		105	65	135			
Surr: Toluene-d8	51.2		50.00		102	84	116			

Sample ID **MB-70351**	Batch ID: **70351**	TestNo: **SW8260C**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GCMS1_150707A**	Analysis Date: **7/7/2015 12:16:00 PM**	Prep Date: **7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	<0.00100	0.00500								
1,1,1-Trichloroethane	<0.00100	0.00500								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150707A**

Sample ID	**MB-70351**	Batch ID:	**70351**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**GCMS1_150707A**	Analysis Date:	**7/7/2015 12:16:00 PM**	Prep Date:	**7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	<0.00100	0.00500								
1,1,2-Trichloroethane	<0.00100	0.00500								
1,1,2-Trichlorotrifluoroethane	<0.00500	0.0150								
1,1-Dichloroethane	<0.00100	0.00500								
1,1-Dichloroethene	<0.00100	0.00500								
1,1-Dichloropropene	<0.00100	0.00500								
1,2,3-Trichlorobenzene	<0.00100	0.00500								
1,2,3-Trichloropropane	<0.00100	0.00500								
1,2,4-Trichlorobenzene	<0.00100	0.00500								
1,2,4-Trimethylbenzene	<0.00100	0.00500								
1,2-Dibromo-3-chloropropane	<0.00100	0.00500								
1,2-Dibromoethane	<0.00100	0.00500								
1,2-Dichlorobenzene	<0.00100	0.00500								
1,2-Dichloroethane	<0.00100	0.00500								
1,2-Dichloropropane	<0.00100	0.00500								
1,3,5-Trimethylbenzene	<0.00100	0.00500								
1,3-Dichlorobenzene	<0.00100	0.00500								
1,3-Dichloropropane	<0.00100	0.00500								
1,4-Dichlorobenzene	<0.00100	0.00500								
1-Chlorohexane	<0.00100	0.00500								
2,2-Dichloropropane	<0.00100	0.00500								
2-Butanone	<0.00500	0.0150								
2-Chlorotoluene	<0.00100	0.00500								
2-Hexanone	<0.00500	0.0150								
4-Chlorotoluene	<0.00100	0.00500								
4-Methyl-2-pentanone	<0.00500	0.0150								
Acetone	<0.0150	0.0500								
Benzene	<0.00100	0.00500								
Bromobenzene	<0.00100	0.00500								
Bromochloromethane	<0.00100	0.00500								
Bromodichloromethane	<0.00100	0.00500								
Bromoform	<0.00100	0.00500								
Bromomethane	<0.00100	0.00500								
Carbon disulfide	<0.00500	0.0150								
Carbon tetrachloride	<0.00100	0.00500								
Chlorobenzene	<0.00100	0.00500								
Chloroethane	<0.00100	0.00500								
Chloroform	<0.00100	0.00500								
Chloromethane	<0.00100	0.00500								
cis-1,2-Dichloroethene	<0.00100	0.00500								
cis-1,3-Dichloropropene	<0.00100	0.00500								

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150707A**

Sample ID	**MB-70351**	Batch ID:	**70351**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**GCMS1_150707A**	Analysis Date:	**7/7/2015 12:16:00 PM**	Prep Date:	**7/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyclohexane	<0.00500	0.0150								N
Dibromochloromethane	<0.00100	0.00500								
Dibromomethane	<0.00100	0.00500								
Dichlorodifluoromethane	<0.00100	0.00500								
Ethylbenzene	<0.00100	0.00500								
Hexachlorobutadiene	<0.00100	0.00500								
Isopropylbenzene	<0.00100	0.00500								
m,p-Xylene	<0.00100	0.00500								
Methyl Acetate	<0.00500	0.0150								
Methyl tert-butyl ether	<0.00100	0.00500								
Methylcyclohexane	<0.00500	0.0150								
Methylene chloride	<0.00500	0.00500								
Naphthalene	<0.00500	0.0150								
n-Butylbenzene	<0.00100	0.00500								
n-Propylbenzene	<0.00100	0.00500								
o-Xylene	<0.00100	0.00500								
p-Isopropyltoluene	<0.00100	0.00500								
sec-Butylbenzene	<0.00100	0.00500								
Styrene	<0.00100	0.00500								
tert-Butylbenzene	<0.00100	0.00500								
Tetrachloroethene	<0.00100	0.00500								
Toluene	<0.00100	0.00500								
trans-1,2-Dichloroethene	<0.00100	0.00500								
trans-1,3-Dichloropropene	<0.00100	0.00500								
Trichloroethene	<0.00100	0.00500								
Trichlorofluoromethane	<0.00500	0.0150								
Vinyl chloride	<0.00100	0.00500								
Surr: 1,2-Dichloroethane-d4	53.9		50.00		108	52	149			
Surr: 4-Bromofluorobenzene	52.2		50.00		104	84	118			
Surr: Dibromofluoromethane	52.3		50.00		105	65	135			
Surr: Toluene-d8	51.8		50.00		104	84	116			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150707A**

Sample ID **ICV-150707**	Batch ID: **R80458**	TestNo: **SW8260C**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GCMS1_150707A**	Analysis Date: **7/7/2015 10:43:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0450	0.00500	0.0464	0	97.0	80	120			
1,1,1-Trichloroethane	0.0490	0.00500	0.0464	0	106	80	120			
1,1,2,2-Tetrachloroethane	0.0448	0.00500	0.0464	0	96.6	80	120			
1,1,2-Trichloroethane	0.0490	0.00500	0.0464	0	106	80	120			
1,1,2-Trichlorotrifluoroethane	0.0285	0.0150	0.0464	0	61.4	80	120			S
1,1-Dichloroethane	0.0505	0.00500	0.0464	0	109	80	120			
1,1-Dichloroethene	0.0479	0.00500	0.0464	0	103	80	120			
1,1-Dichloropropene	0.0493	0.00500	0.0464	0	106	80	120			
1,2,3-Trichlorobenzene	0.0458	0.00500	0.0464	0	98.8	80	120			
1,2,3-Trichloropropane	0.0436	0.00500	0.0464	0	94.0	80	120			
1,2,4-Trichlorobenzene	0.0465	0.00500	0.0464	0	100	80	120			
1,2,4-Trimethylbenzene	0.0457	0.00500	0.0464	0	98.4	80	120			
1,2-Dibromo-3-chloropropane	0.0450	0.00500	0.0464	0	97.0	80	120			
1,2-Dibromoethane	0.0445	0.00500	0.0464	0	95.9	80	120			
1,2-Dichlorobenzene	0.0443	0.00500	0.0464	0	95.4	80	120			
1,2-Dichloroethane	0.0483	0.00500	0.0464	0	104	80	120			
1,2-Dichloropropane	0.0507	0.00500	0.0464	0	109	80	120			
1,3,5-Trimethylbenzene	0.0456	0.00500	0.0464	0	98.3	80	120			
1,3-Dichlorobenzene	0.0446	0.00500	0.0464	0	96.2	80	120			
1,3-Dichloropropane	0.0448	0.00500	0.0464	0	96.5	80	120			
1,4-Dichlorobenzene	0.0444	0.00500	0.0464	0	95.6	80	120			
1-Chlorohexane	0.0450	0.00500	0.0464	0	96.9	80	120			
2,2-Dichloropropane	0.0521	0.00500	0.0464	0	112	80	120			
2-Butanone	0.480	0.0150	0.464	0	103	80	120			
2-Chlorotoluene	0.0456	0.00500	0.0464	0	98.2	80	120			
2-Hexanone	0.454	0.0150	0.464	0	97.8	80	120			
4-Chlorotoluene	0.0452	0.00500	0.0464	0	97.4	80	120			
4-Methyl-2-pentanone	0.456	0.0150	0.464	0	98.2	80	120			
Acetone	0.491	0.0500	0.464	0	106	80	120			
Benzene	0.0491	0.00500	0.0464	0	106	80	120			
Bromobenzene	0.0436	0.00500	0.0464	0	94.0	80	120			
Bromochloromethane	0.0472	0.00500	0.0464	0	102	80	120			
Bromodichloromethane	0.0496	0.00500	0.0464	0	107	80	120			
Bromoform	0.0436	0.00500	0.0464	0	94.0	80	120			
Bromomethane	0.0393	0.00500	0.0464	0	84.6	80	120			
Carbon disulfide	0.0405	0.0150	0.0464	0	87.3	80	120			
Carbon tetrachloride	0.0496	0.00500	0.0464	0	107	80	120			
Chlorobenzene	0.0449	0.00500	0.0464	0	96.8	80	120			
Chloroethane	0.0439	0.00500	0.0464	0	94.6	80	120			
Chloroform	0.0497	0.00500	0.0464	0	107	80	120			
Chloromethane	0.0551	0.00500	0.0464	0	119	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS1_150707A**

Sample ID **ICV-150707**	Batch ID: **R80458**	TestNo: **SW8260C**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GCMS1_150707A**	Analysis Date: **7/7/2015 10:43:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	0.0490	0.00500	0.0464	0	106	80	120			
cis-1,3-Dichloropropene	0.0483	0.00500	0.0464	0	104	80	120			
Cyclohexane	0.0466	0.0150	0.0464	0	100	80	120			N
Dibromochloromethane	0.0442	0.00500	0.0464	0	95.2	80	120			
Dibromomethane	0.0475	0.00500	0.0464	0	102	80	120			
Dichlorodifluoromethane	0.0566	0.00500	0.0464	0	122	80	120			S
Ethylbenzene	0.0458	0.00500	0.0464	0	98.6	80	120			
Hexachlorobutadiene	0.0451	0.00500	0.0464	0	97.2	80	120			
Isopropylbenzene	0.0469	0.00500	0.0464	0	101	80	120			
m,p-Xylene	0.0931	0.00500	0.0928	0	100	80	120			
Methyl Acetate	0.0438	0.0150	0.0464	0	94.4	80	120			
Methyl tert-butyl ether	0.0342	0.00500	0.0464	0	73.6	80	120			S
Methylcyclohexane	0.0489	0.0150	0.0464	0	105	80	120			
Methylene chloride	0.0496	0.00500	0.0464	0	107	80	120			
Naphthalene	0.0435	0.0150	0.0464	0	93.8	80	120			
n-Butylbenzene	0.0474	0.00500	0.0464	0	102	80	120			
n-Propylbenzene	0.0464	0.00500	0.0464	0	100	80	120			
o-Xylene	0.0464	0.00500	0.0464	0	99.9	80	120			
p-Isopropyltoluene	0.0465	0.00500	0.0464	0	100	80	120			
sec-Butylbenzene	0.0467	0.00500	0.0464	0	101	80	120			
Styrene	0.0413	0.00500	0.0464	0	89.0	80	120			
tert-Butylbenzene	0.0464	0.00500	0.0464	0	100	80	120			
Tetrachloroethene	0.0456	0.00500	0.0464	0	98.4	80	120			
Toluene	0.0506	0.00500	0.0464	0	109	80	120			
trans-1,2-Dichloroethene	0.0478	0.00500	0.0464	0	103	80	120			
trans-1,3-Dichloropropene	0.0483	0.00500	0.0464	0	104	80	120			
Trichloroethene	0.0484	0.00500	0.0464	0	104	80	120			
Trichlorofluoromethane	0.0480	0.0150	0.0464	0	104	80	120			
Vinyl chloride	0.0513	0.00500	0.0464	0	111	80	120			
Surr: 1,2-Dichloroethane-d4	55.2		50.00		110	52	149			
Surr: 4-Bromofluorobenzene	52.3		50.00		105	84	118			
Surr: Dibromofluoromethane	53.0		50.00		106	65	135			
Surr: Toluene-d8	50.9		50.00		102	84	116			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS5_150423A**

Sample ID	**DCS1-69280**	Batch ID:	**69280**	TestNo:	**SW8260C**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**GCMS5_150423A**	Analysis Date:	**4/23/2015 6:15:00 PM**	Prep Date:	**4/23/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.000440	0.00100	0.000464	0	94.8	10	400	0	0	
1,1,1-Trichloroethane	0.000442	0.00100	0.000464	0	95.3	10	400	0	0	
1,1,2,2-Tetrachloroethane	0.000495	0.00100	0.000464	0	107	10	400	0	0	
1,1,2-Trichloroethane	0.000399	0.00100	0.000464	0	86.0	10	400	0	0	
1,1,2-Trichlorotrifluoroethane	0.00964	0.0150	0.00928	0	104	10	400	0	0	
1,1-Dichloroethane	0.000452	0.00100	0.000464	0	97.4	10	400	0	0	
1,1-Dichloroethene	0.000496	0.00100	0.000464	0	107	10	400	0	0	
1,1-Dichloropropene	0.000378	0.00100	0.000464	0	81.5	10	400	0	0	
1,2,3-Trichloropropane	0.000124	0.00100	0.000464	0	26.7	10	400	0	0	
1,2-Dibromoethane	0.000436	0.00100	0.000464	0	94.0	10	400	0	0	
1,2-Dichlorobenzene	0.000476	0.00100	0.000464	0	103	10	400	0	0	
1,2-Dichloroethane	0.000466	0.00100	0.000464	0	100	10	400	0	0	
1,2-Dichloropropane	0.000412	0.00100	0.000464	0	88.8	10	400	0	0	
1,3-Dichlorobenzene	0.000445	0.00100	0.000464	0	95.9	10	400	0	0	
1,3-Dichloropropane	0.000415	0.00100	0.000464	0	89.4	10	400	0	0	
1,4-Dichlorobenzene	0.000519	0.00100	0.000464	0	112	10	400	0	0	
2,2-Dichloropropane	0.000412	0.00100	0.000464	0	88.8	10	400	0	0	
2-Butanone	0.00902	0.0150	0.00928	0	97.2	10	400	0	0	
2-Chlorotoluene	0.000435	0.00100	0.000464	0	93.8	10	400	0	0	
2-Hexanone	0.00846	0.0150	0.00928	0	91.2	10	400	0	0	
4-Chlorotoluene	0.000431	0.00100	0.000464	0	92.9	10	400	0	0	
4-Methyl-2-pentanone	0.00796	0.0150	0.00928	0	85.8	10	400	0	0	
Acetone	0.00910	0.0150	0.00928	0	98.1	10	400	0	0	
Benzene	0.000463	0.00100	0.000464	0	99.8	10	400	0	0	
Bromobenzene	0.000474	0.00100	0.000464	0	102	10	400	0	0	
Bromochloromethane	0.000373	0.00100	0.000464	0	80.4	10	400	0	0	
Bromodichloromethane	0.000402	0.00100	0.000464	0	86.6	10	400	0	0	
Bromoform	0.000323	0.00100	0.000464	0	69.6	10	400	0	0	
Carbon disulfide	0.00875	0.0150	0.00928	0	94.3	10	400	0	0	
Carbon tetrachloride	0.000397	0.00100	0.000464	0	85.6	10	400	0	0	
Chlorobenzene	0.000474	0.00100	0.000464	0	102	10	400	0	0	
Chloroethane	0.000465	0.00100	0.000464	0	100	10	400	0	0	
Chloroform	0.000468	0.00100	0.000464	0	101	10	400	0	0	
Chloromethane	0.000553	0.00100	0.000464	0	119	10	400	0	0	
cis-1,2-Dichloroethene	0.000498	0.00100	0.000464	0	107	10	400	0	0	
cis-1,3-Dichloropropene	0.000379	0.00100	0.000464	0	81.7	10	400	0	0	
Cyclohexane	0.00429	0.0150	0.00928	0	46.2	10	400	0	0	N
Dibromochloromethane	0.000401	0.00100	0.000464	0	86.4	10	400	0	0	
Dibromomethane	0.000360	0.00100	0.000464	0	77.6	10	400	0	0	
Dichlorodifluoromethane	0.000328	0.00100	0.000464	0	70.7	10	400	0	0	
Ethylbenzene	0.000426	0.00100	0.000464	0	91.8	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS5_150423A**

Sample ID	**DCS1-69280**	Batch ID:	**69280**	TestNo:	**SW8260C**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**GCMS5_150423A**	Analysis Date:	**4/23/2015 6:15:00 PM**	Prep Date:	**4/23/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Isopropylbenzene	0.000351	0.00100	0.000464	0	75.6	10	400	0	0	
m,p-Xylene	0.000759	0.00200	0.000928	0	81.8	10	400	0	0	
Methyl Acetate	0.00877	0.0150	0.00928	0	94.5	10	400	0	0	
Methyl tert-butyl ether	0.000440	0.00100	0.000464	0	94.8	10	400	0	0	
Methylcyclohexane	0.00901	0.0150	0.00928	0	97.1	10	400	0	0	
n-Butylbenzene	0.000336	0.00100	0.000464	0	72.4	10	400	0	0	
n-Propylbenzene	0.000439	0.00100	0.000464	0	94.6	10	400	0	0	
o-Xylene	0.000354	0.00100	0.000464	0	76.3	10	400	0	0	
p-Isopropyltoluene	0.000339	0.00100	0.000464	0	73.1	10	400	0	0	
sec-Butylbenzene	0.000394	0.00100	0.000464	0	84.9	10	400	0	0	
Styrene	0.000298	0.00100	0.000464	0	64.2	10	400	0	0	
tert-Butylbenzene	0.000380	0.00100	0.000464	0	81.9	10	400	0	0	
Tetrachloroethene	0.000455	0.00200	0.000464	0	98.1	10	400	0	0	
Toluene	0.000422	0.00200	0.000464	0	90.9	10	400	0	0	
trans-1,2-Dichloroethene	0.000488	0.00100	0.000464	0	105	10	400	0	0	
trans-1,3-Dichloropropene	0.000309	0.00100	0.000464	0	66.6	10	400	0	0	
Trichloroethene	0.000423	0.00100	0.000464	0	91.2	10	400	0	0	
Trichlorofluoromethane	0.000474	0.00100	0.000464	0	102	10	400	0	0	
Vinyl chloride	0.000416	0.00100	0.000464	0	89.7	10	400	0	0	

Sample ID	**DCS2/LQV1-69280**	Batch ID:	**69280**	TestNo:	**SW8260C**	Units:	**mg/L**
SampType:	**DCS2**	Run ID:	**GCMS5_150423A**	Analysis Date:	**4/23/2015 6:39:00 PM**	Prep Date:	**4/23/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,3-Trichlorobenzene	0.00192	0.00500	0.00186	0	103	10	400	0	0	
1,2,4-Trichlorobenzene	0.00265	0.00500	0.00186	0	143	10	400	0	0	
1,2,4-Trimethylbenzene	0.00177	0.00500	0.00186	0	95.1	10	400	0	0	
1,2-Dibromo-3-chloropropane	0.00244	0.0100	0.00186	0	131	10	400	0	0	
1,3,5-Trimethylbenzene	0.00187	0.00500	0.00186	0	101	10	400	0	0	
1-Chlorohexane	0.00204	0.00500	0.00186	0	110	10	400	0	0	
2-Butanone	0.0191	0.0150	0.0186	0	103	10	400	0	0	
2-Hexanone	0.0172	0.0150	0.0186	0	92.2	10	400	0	0	
4-Methyl-2-pentanone	0.0184	0.0150	0.0186	0	98.9	10	400	0	0	
Acetone	0.0199	0.0150	0.0186	0	107	10	400	0	0	
Bromomethane	0.00517	0.00100	0.00186	0	278	10	400	0	0	
Chloroethane	0.00212	0.00100	0.00186	0	114	10	400	0	0	
Chloromethane	0.00225	0.00100	0.00186	0	121	10	400	0	0	
Dichlorodifluoromethane	0.00192	0.00100	0.00186	0	103	10	400	0	0	
Hexachlorobutadiene	0.00194	0.00300	0.00186	0	104	10	400	0	0	
Methylene chloride	0.00211	0.00250	0.00186	0	113	10	400	0	0	
Naphthalene	0.00225	0.0150	0.00186	0	121	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS5_150423A**

Sample ID	**DCS2/LQV1-69280**	Batch ID:	**69280**	TestNo:	**SW8260C**	Units:	**mg/L**
SampType:	**DCS2**	Run ID:	**GCMS5_150423A**	Analysis Date:	**4/23/2015 6:39:00 PM**	Prep Date:	**4/23/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Trichlorofluoromethane	0.00204	0.00100	0.00186	0	110	10	400	0	0	
Vinyl chloride	0.00202	0.00100	0.00186	0	108	10	400	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS5_150629A**

The QC data in batch 70238 applies to the following samples: 1506310-12A, 1506310-13A, 1506310-14A, 1506310-15A, 1506310-16A, 1506310-36A, 1506310-37A, 1506310-38A

Sample ID	**LCS-70238**	Batch ID:	**70238**	TestNo:	**SW8260C**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**GCMS5_150629A**	Analysis Date:	**6/29/2015 11:10:00 AM**	Prep Date:	**6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0244	0.00100	0.0232	0	105	81	129			
1,1,1-Trichloroethane	0.0263	0.00100	0.0232	0	114	67	132			
1,1,2,2-Tetrachloroethane	0.0227	0.00100	0.0232	0	97.7	63	128			
1,1,2-Trichloroethane	0.0262	0.00100	0.0232	0	113	75	125			
1,1,2-Trichlorotrifluoroethane	0.0182	0.0150	0.0232	0	78.3	67	125			
1,1-Dichloroethane	0.0249	0.00100	0.0232	0	107	69	133			
1,1-Dichloroethene	0.0253	0.00100	0.0232	0	109	68	130			
1,1-Dichloropropene	0.0260	0.00100	0.0232	0	112	73	132			
1,2,3-Trichlorobenzene	0.0234	0.00500	0.0232	0	101	67	137			
1,2,3-Trichloropropane	0.0233	0.00100	0.0232	0	101	73	124			
1,2,4-Trichlorobenzene	0.0228	0.00500	0.0232	0	98.5	66	134			
1,2,4-Trimethylbenzene	0.0224	0.00500	0.0232	0	96.5	74	132			
1,2-Dibromo-3-chloropropane	0.0222	0.0100	0.0232	0	95.8	50	132			
1,2-Dibromoethane	0.0235	0.00100	0.0232	0	101	80	121			
1,2-Dichlorobenzene	0.0233	0.00100	0.0232	0	100	75	122			
1,2-Dichloroethane	0.0250	0.00100	0.0232	0	108	69	132			
1,2-Dichloropropane	0.0250	0.00100	0.0232	0	108	75	125			
1,3,5-Trimethylbenzene	0.0228	0.00500	0.0232	0	98.4	74	131			
1,3-Dichlorobenzene	0.0238	0.00100	0.0232	0	102	75	124			
1,3-Dichloropropane	0.0230	0.00100	0.0232	0	99.0	73	126			
1,4-Dichlorobenzene	0.0228	0.00100	0.0232	0	98.4	74	123			
1-Chlorohexane	0.0219	0.00500	0.0232	0	94.4	70	125			
2,2-Dichloropropane	0.0273	0.00100	0.0232	0	118	69	137			
2-Butanone	0.122	0.0150	0.116	0	105	49	136			
2-Chlorotoluene	0.0223	0.00100	0.0232	0	96.3	73	126			
2-Hexanone	0.109	0.0150	0.116	0	94.3	50	150			
4-Chlorotoluene	0.0222	0.00100	0.0232	0	95.7	74	128			
4-Methyl-2-pentanone	0.115	0.0150	0.116	0	99.4	60	134			
Acetone	0.128	0.0150	0.116	0	110	40	135			
Benzene	0.0256	0.00100	0.0232	0	111	81	122			
Bromobenzene	0.0241	0.00100	0.0232	0	104	76	124			
Bromochloromethane	0.0267	0.00100	0.0232	0	115	65	129			
Bromodichloromethane	0.0256	0.00100	0.0232	0	110	76	121			
Bromoform	0.0224	0.00100	0.0232	0	96.5	69	128			
Bromomethane	0.0169	0.00100	0.0232	0	72.9	53	141			
Carbon disulfide	0.0242	0.0150	0.0232	0	104	50	150			
Carbon tetrachloride	0.0266	0.00100	0.0232	0	115	66	138			
Chlorobenzene	0.0233	0.00100	0.0232	0	100	81	122			
Chloroethane	0.0239	0.00100	0.0232	0	103	58	133			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS5_150629A**

Sample ID	**LCS-70238**	Batch ID:	**70238**	TestNo:	**SW8260C**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**GCMS5_150629A**	Analysis Date:	**6/29/2015 11:10:00 AM**	Prep Date:	**6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloroform	0.0260	0.00100	0.0232	0	112	69	128			
Chloromethane	0.0187	0.00100	0.0232	0	80.8	56	131			
cis-1,2-Dichloroethene	0.0269	0.00100	0.0232	0	116	72	126			
cis-1,3-Dichloropropene	0.0259	0.00100	0.0232	0	112	69	131			
Cyclohexane	0.0254	0.0150	0.0232	0	109	40	161			N
Dibromochloromethane	0.0238	0.00100	0.0232	0	103	66	133			
Dibromomethane	0.0257	0.00100	0.0232	0	111	76	125			
Dichlorodifluoromethane	0.0166	0.00100	0.0232	0	71.5	53	153			
Ethylbenzene	0.0241	0.00100	0.0232	0	104	80	120			
Hexachlorobutadiene	0.0238	0.00300	0.0232	0	102	67	131			
Isopropylbenzene	0.0230	0.00100	0.0232	0	99.0	75	127			
m,p-Xylene	0.0489	0.00200	0.0464	0	105	80	120			
Methyl Acetate	0.0244	0.0150	0.0232	0	105	50	150			
Methyl tert-butyl ether	0.0196	0.00100	0.0232	0	84.5	68	123			
Methylcyclohexane	0.0247	0.0150	0.0232	0	107	70	130			
Methylene chloride	0.0250	0.00250	0.0232	0	108	63	137			
Naphthalene	0.0224	0.0150	0.0232	0	96.5	54	138			
n-Butylbenzene	0.0219	0.00100	0.0232	0	94.5	69	137			
n-Propylbenzene	0.0226	0.00100	0.0232	0	97.5	72	129			
o-Xylene	0.0230	0.00100	0.0232	0	99.1	80	120			
p-Isopropyltoluene	0.0225	0.00100	0.0232	0	96.8	73	130			
sec-Butylbenzene	0.0226	0.00100	0.0232	0	97.5	72	127			
Styrene	0.0211	0.00100	0.0232	0	91.0	65	134			
tert-Butylbenzene	0.0227	0.00100	0.0232	0	97.8	70	129			
Tetrachloroethene	0.0246	0.00200	0.0232	0	106	66	128			
Toluene	0.0262	0.00200	0.0232	0	113	80	120			
trans-1,2-Dichloroethene	0.0253	0.00100	0.0232	0	109	63	137			
trans-1,3-Dichloropropene	0.0247	0.00100	0.0232	0	107	59	135			
Trichloroethene	0.0273	0.00100	0.0232	0	118	70	127			
Trichlorofluoromethane	0.0243	0.00100	0.0232	0	105	57	129			
Vinyl chloride	0.0211	0.00100	0.0232	0	90.8	50	134			
Surr: 1,2-Dichloroethane-d4	198		200.0		98.9	72	119			
Surr: 4-Bromofluorobenzene	196		200.0		98.2	76	119			
Surr: Dibromofluoromethane	205		200.0		103	85	115			
Surr: Toluene-d8	185		200.0		92.7	81	120			

Sample ID	**MB-70238**	Batch ID:	**70238**	TestNo:	**SW8260C**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**GCMS5_150629A**	Analysis Date:	**6/29/2015 11:35:00 AM**	Prep Date:	**6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	<0.000300	0.00100								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS5_150629A**

Sample ID	**MB-70238**	Batch ID:	**70238**	TestNo:	**SW8260C**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**GCMS5_150629A**	Analysis Date:	**6/29/2015 11:35:00 AM**	Prep Date:	**6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	<0.000300	0.00100								
1,1,2,2-Tetrachloroethane	<0.000300	0.00100								
1,1,2-Trichloroethane	<0.000300	0.00100								
1,1,2-Trichlorotrifluoroethane	<0.00500	0.0150								
1,1-Dichloroethane	<0.000300	0.00100								
1,1-Dichloroethene	<0.000300	0.00100								
1,1-Dichloropropene	<0.000300	0.00100								
1,2,3-Trichlorobenzene	<0.00150	0.00500								
1,2,3-Trichloropropane	<0.000300	0.00100								
1,2,4-Trichlorobenzene	<0.00150	0.00500								
1,2,4-Trimethylbenzene	<0.00150	0.00500								
1,2-Dibromo-3-chloropropane	<0.00300	0.0100								
1,2-Dibromoethane	<0.000300	0.00100								
1,2-Dichlorobenzene	<0.000300	0.00100								
1,2-Dichloroethane	<0.000300	0.00100								
1,2-Dichloropropane	<0.000300	0.00100								
1,3,5-Trimethylbenzene	<0.00150	0.00500								
1,3-Dichlorobenzene	<0.000300	0.00100								
1,3-Dichloropropane	<0.000300	0.00100								
1,4-Dichlorobenzene	<0.000300	0.00100								
1-Chlorohexane	<0.00100	0.00500								
2,2-Dichloropropane	<0.000300	0.00100								
2-Butanone	<0.00500	0.0150								
2-Chlorotoluene	<0.000300	0.00100								
2-Hexanone	<0.00500	0.0150								
4-Chlorotoluene	<0.000300	0.00100								
4-Methyl-2-pentanone	<0.00500	0.0150								
Acetone	<0.00500	0.0150								
Benzene	<0.000300	0.00100								
Bromobenzene	<0.000300	0.00100								
Bromochloromethane	<0.000300	0.00100								
Bromodichloromethane	<0.000300	0.00100								
Bromoform	<0.000300	0.00100								
Bromomethane	<0.000300	0.00100								
Carbon disulfide	<0.00500	0.0150								
Carbon tetrachloride	<0.000300	0.00100								
Chlorobenzene	<0.000300	0.00100								
Chloroethane	<0.000300	0.00100								
Chloroform	<0.000300	0.00100								
Chloromethane	<0.000300	0.00100								
cis-1,2-Dichloroethene	<0.000300	0.00100								

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS5_150629A**

Sample ID	**MB-70238**	Batch ID:	**70238**	TestNo:	**SW8260C**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**GCMS5_150629A**	Analysis Date:	**6/29/2015 11:35:00 AM**	Prep Date:	**6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	<0.000300	0.00100								
Cyclohexane	<0.00500	0.0150								N
Dibromochloromethane	<0.000300	0.00100								
Dibromomethane	<0.000300	0.00100								
Dichlorodifluoromethane	<0.000300	0.00100								
Ethylbenzene	<0.000300	0.00100								
Hexachlorobutadiene	<0.00100	0.00300								
Isopropylbenzene	<0.000300	0.00100								
m,p-Xylene	<0.000600	0.00200								
Methyl Acetate	<0.00500	0.0150								
Methyl tert-butyl ether	<0.000300	0.00100								
Methylcyclohexane	<0.00500	0.0150								
Methylene chloride	<0.00250	0.00250								
Naphthalene	<0.00500	0.0150								
n-Butylbenzene	<0.000300	0.00100								
n-Propylbenzene	<0.000300	0.00100								
o-Xylene	<0.000300	0.00100								
p-Isopropyltoluene	<0.000300	0.00100								
sec-Butylbenzene	<0.000300	0.00100								
Styrene	<0.000300	0.00100								
tert-Butylbenzene	<0.000300	0.00100								
Tetrachloroethene	<0.000600	0.00200								
Toluene	<0.000600	0.00200								
trans-1,2-Dichloroethene	<0.000300	0.00100								
trans-1,3-Dichloropropene	<0.000300	0.00100								
Trichloroethene	<0.000600	0.00100								
Trichlorofluoromethane	<0.000300	0.00100								
Vinyl chloride	<0.000300	0.00100								
Surr: 1,2-Dichloroethane-d4	193		200.0		96.4	72	119			
Surr: 4-Bromofluorobenzene	200		200.0		100	76	119			
Surr: Dibromofluoromethane	202		200.0		101	85	115			
Surr: Toluene-d8	193		200.0		96.5	81	120			

Sample ID	**1506310-16AMS**	Batch ID:	**70238**	TestNo:	**SW8260C**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**GCMS5_150629A**	Analysis Date:	**6/29/2015 6:18:00 PM**	Prep Date:	**6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0244	0.00100	0.0232	0	105	81	129			
1,1,1-Trichloroethane	0.0280	0.00100	0.0232	0	121	67	132			
1,1,2,2-Tetrachloroethane	0.0239	0.00100	0.0232	0	103	63	128			
1,1,2-Trichloroethane	0.0287	0.00100	0.0232	0	124	75	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS5_150629A**

Sample ID **1506310-16AMS**	Batch ID: **70238**	TestNo: **SW8260C**	Units: **mg/L**
SampType: **MS**	Run ID: **GCMS5_150629A**	Analysis Date: **6/29/2015 6:18:00 PM**	Prep Date: **6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,2-Trichlorotrifluoroethane	0.0198	0.0150	0.0232	0	85.4	67	125			
1,1-Dichloroethane	0.0266	0.00100	0.0232	0	115	69	133			
1,1-Dichloroethene	0.0263	0.00100	0.0232	0	114	68	130			
1,1-Dichloropropene	0.0270	0.00100	0.0232	0	116	73	132			
1,2,3-Trichlorobenzene	0.0233	0.00500	0.0232	0	100	67	137			
1,2,3-Trichloropropane	0.0245	0.00100	0.0232	0	106	73	124			
1,2,4-Trichlorobenzene	0.0217	0.00500	0.0232	0	93.7	66	134			
1,2,4-Trimethylbenzene	0.0221	0.00500	0.0232	0	95.4	74	132			
1,2-Dibromo-3-chloropropane	0.0236	0.0100	0.0232	0	102	50	132			
1,2-Dibromoethane	0.0241	0.00100	0.0232	0	104	80	121			
1,2-Dichlorobenzene	0.0241	0.00100	0.0232	0	104	75	122			
1,2-Dichloroethane	0.0279	0.00100	0.0232	0	120	69	132			
1,2-Dichloropropane	0.0252	0.00100	0.0232	0	109	75	125			
1,3,5-Trimethylbenzene	0.0222	0.00500	0.0232	0	95.6	74	131			
1,3-Dichlorobenzene	0.0239	0.00100	0.0232	0	103	75	124			
1,3-Dichloropropane	0.0231	0.00100	0.0232	0	99.4	73	126			
1,4-Dichlorobenzene	0.0236	0.00100	0.0232	0	102	74	123			
1-Chlorohexane	0.0214	0.00500	0.0232	0	92.3	70	125			
2,2-Dichloropropane	0.0253	0.00100	0.0232	0	109	69	137			
2-Butanone	0.143	0.0150	0.116	0	124	49	136			
2-Chlorotoluene	0.0217	0.00100	0.0232	0	93.6	73	126			
2-Hexanone	0.134	0.0150	0.116	0	116	50	150			
4-Chlorotoluene	0.0220	0.00100	0.0232	0	94.9	74	128			
4-Methyl-2-pentanone	0.139	0.0150	0.116	0	120	60	134			
Acetone	0.151	0.0150	0.116	0	130	40	135			
Benzene	0.0266	0.00100	0.0232	0	115	81	122			
Bromobenzene	0.0233	0.00100	0.0232	0	100	76	124			
Bromochloromethane	0.0298	0.00100	0.0232	0	128	65	129			
Bromodichloromethane	0.0270	0.00100	0.0232	0	116	76	121			
Bromoform	0.0229	0.00100	0.0232	0	98.7	69	128			
Bromomethane	0.0175	0.00100	0.0232	0	75.5	53	141			
Carbon disulfide	0.0248	0.0150	0.0232	0	107	50	150			
Carbon tetrachloride	0.0281	0.00100	0.0232	0	121	66	138			
Chlorobenzene	0.0243	0.00100	0.0232	0	105	81	122			
Chloroethane	0.0266	0.00100	0.0232	0	115	58	133			
Chloroform	0.0283	0.00100	0.0232	0	122	69	128			
Chloromethane	0.0201	0.00100	0.0232	0	86.6	56	131			
cis-1,2-Dichloroethene	0.0375	0.00100	0.0232	0.00831	126	72	126			
cis-1,3-Dichloropropene	0.0259	0.00100	0.0232	0	111	69	131			
Cyclohexane	0.0274	0.0150	0.0232	0	118	40	161			N
Dibromochloromethane	0.0246	0.00100	0.0232	0	106	66	133			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS5_150629A**

Sample ID **1506310-16AMS**	Batch ID: **70238**	TestNo: **SW8260C**	Units: **mg/L**
SampType: **MS**	Run ID: **GCMS5_150629A**	Analysis Date: **6/29/2015 6:18:00 PM**	Prep Date: **6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dibromomethane	0.0277	0.00100	0.0232	0	119	76	125			
Dichlorodifluoromethane	0.0181	0.00100	0.0232	0	78.1	53	153			
Ethylbenzene	0.0244	0.00100	0.0232	0	105	80	120			
Hexachlorobutadiene	0.0227	0.00300	0.0232	0	97.8	67	131			
Isopropylbenzene	0.0231	0.00100	0.0232	0	99.5	75	127			
m,p-Xylene	0.0497	0.00200	0.0464	0	107	80	120			
Methyl Acetate	0.0278	0.0150	0.0232	0	120	50	150			
Methyl tert-butyl ether	0.0209	0.00100	0.0232	0	90.2	68	123			
Methylcyclohexane	0.0249	0.0150	0.0232	0	107	70	130			
Methylene chloride	0.0270	0.00250	0.0232	0	116	63	137			
Naphthalene	0.0230	0.0150	0.0232	0	99.2	54	138			
n-Butylbenzene	0.0211	0.00100	0.0232	0	90.8	69	137			
n-Propylbenzene	0.0216	0.00100	0.0232	0	93.1	72	129			
o-Xylene	0.0228	0.00100	0.0232	0	98.4	80	120			
p-Isopropyltoluene	0.0218	0.00100	0.0232	0	93.8	73	130			
sec-Butylbenzene	0.0216	0.00100	0.0232	0	93.3	72	127			
Styrene	0.0215	0.00100	0.0232	0	92.9	65	134			
tert-Butylbenzene	0.0217	0.00100	0.0232	0	93.6	70	129			
Tetrachloroethene	0.0246	0.00200	0.0232	0	106	66	128			
Toluene	0.0277	0.00200	0.0232	0	119	80	120			
trans-1,2-Dichloroethene	0.0280	0.00100	0.0232	0.00122	115	63	137			
trans-1,3-Dichloropropene	0.0249	0.00100	0.0232	0	107	59	135			
Trichloroethene	0.0279	0.00100	0.0232	0	120	70	127			
Trichlorofluoromethane	0.0274	0.00100	0.0232	0	118	57	129			
Vinyl chloride	0.0234	0.00100	0.0232	0.00102	96.4	50	134			
Surr: 1,2-Dichloroethane-d4	215		200.0		108	72	119			
Surr: 4-Bromofluorobenzene	184		200.0		91.8	76	119			
Surr: Dibromofluoromethane	215		200.0		107	85	115			
Surr: Toluene-d8	179		200.0		89.5	81	120			

Sample ID **1506310-16AMSD**	Batch ID: **70238**	TestNo: **SW8260C**	Units: **mg/L**
SampType: **MSD**	Run ID: **GCMS5_150629A**	Analysis Date: **6/29/2015 6:42:00 PM**	Prep Date: **6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0242	0.00100	0.0232	0	104	81	129	0.890	20	
1,1,1-Trichloroethane	0.0270	0.00100	0.0232	0	116	67	132	3.62	20	
1,1,2,2-Tetrachloroethane	0.0240	0.00100	0.0232	0	103	63	128	0.472	20	
1,1,2-Trichloroethane	0.0283	0.00100	0.0232	0	122	75	125	1.32	20	
1,1,2-Trichlorotrifluoroethane	0.0194	0.0150	0.0232	0	83.4	67	125	2.36	20	
1,1-Dichloroethane	0.0259	0.00100	0.0232	0	112	69	133	2.43	20	
1,1-Dichloroethene	0.0266	0.00100	0.0232	0	115	68	130	0.941	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS5_150629A**

Sample ID	**1506310-16AMSD**	Batch ID:	**70238**	TestNo:	**SW8260C**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**GCMS5_150629A**	Analysis Date:	**6/29/2015 6:42:00 PM**	Prep Date:	**6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	0.0265	0.00100	0.0232	0	114	73	132	1.84	20	
1,2,3-Trichlorobenzene	0.0228	0.00500	0.0232	0	98.4	67	137	2.02	20	
1,2,3-Trichloropropane	0.0250	0.00100	0.0232	0	108	73	124	1.82	20	
1,2,4-Trichlorobenzene	0.0219	0.00500	0.0232	0	94.4	66	134	0.825	20	
1,2,4-Trimethylbenzene	0.0220	0.00500	0.0232	0	95.0	74	132	0.417	20	
1,2-Dibromo-3-chloropropane	0.0240	0.0100	0.0232	0	103	50	132	1.64	20	
1,2-Dibromoethane	0.0238	0.00100	0.0232	0	102	80	121	1.30	20	
1,2-Dichlorobenzene	0.0235	0.00100	0.0232	0	101	75	125	2.70	20	
1,2-Dichloroethane	0.0270	0.00100	0.0232	0	117	68	132	3.11	20	
1,2-Dichloropropane	0.0252	0.00100	0.0232	0	109	75	125	0.214	20	
1,3,5-Trimethylbenzene	0.0220	0.00500	0.0232	0	94.7	74	131	0.883	20	
1,3-Dichlorobenzene	0.0234	0.00100	0.0232	0	101	75	124	2.38	20	
1,3-Dichloropropane	0.0231	0.00100	0.0232	0	99.7	73	126	0.325	20	
1,4-Dichlorobenzene	0.0231	0.00100	0.0232	0	99.5	74	123	2.31	20	
1-Chlorohexane	0.0212	0.00500	0.0232	0	91.4	70	125	1.01	20	
2,2-Dichloropropane	0.0246	0.00100	0.0232	0	106	69	137	2.84	20	
2-Butanone	0.143	0.0150	0.116	0	124	49	136	0.006	20	
2-Chlorotoluene	0.0216	0.00100	0.0232	0	93.1	73	126	0.517	20	
2-Hexanone	0.138	0.0150	0.116	0	119	50	150	2.91	20	
4-Chlorotoluene	0.0215	0.00100	0.0232	0	92.8	74	128	2.22	20	
4-Methyl-2-pentanone	0.141	0.0150	0.116	0	121	60	135	1.62	20	
Acetone	0.151	0.0150	0.116	0	130	40	135	0.431	20	
Benzene	0.0262	0.00100	0.0232	0	113	81	120	1.46	20	
Bromobenzene	0.0239	0.00100	0.0232	0	103	76	124	2.45	20	
Bromochloromethane	0.0291	0.00100	0.0232	0	126	65	129	2.14	20	
Bromodichloromethane	0.0263	0.00100	0.0232	0	113	76	121	2.80	20	
Bromoform	0.0222	0.00100	0.0232	0	95.7	69	128	3.06	20	
Bromomethane	0.0175	0.00100	0.0232	0	75.6	53	141	0.057	20	
Carbon disulfide	0.0246	0.0150	0.0232	0	106	50	150	0.934	20	
Carbon tetrachloride	0.0264	0.00100	0.0232	0	114	66	138	6.16	20	
Chlorobenzene	0.0238	0.00100	0.0232	0	103	81	122	2.36	20	
Chloroethane	0.0256	0.00100	0.0232	0	110	58	133	3.78	20	
Chloroform	0.0274	0.00100	0.0232	0	118	69	128	3.16	20	
Chloromethane	0.0213	0.00100	0.0232	0	91.9	56	131	5.95	20	
cis-1,2-Dichloroethene	0.0366	0.00100	0.0232	0.00831	122	72	126	2.54	20	
cis-1,3-Dichloropropene	0.0256	0.00100	0.0232	0	110	69	131	1.07	20	
Cyclohexane	0.0262	0.0150	0.0232	0	113	40	161	4.61	20	N
Dibromochloromethane	0.0233	0.00100	0.0232	0	100	66	133	5.20	20	
Dibromomethane	0.0269	0.00100	0.0232	0	116	76	125	3.01	20	
Dichlorodifluoromethane	0.0181	0.00100	0.0232	0	78.1	53	153	0	20	
Ethylbenzene	0.0241	0.00100	0.0232	0	104	80	120	1.28	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS5_150629A**

Sample ID	**1506310-16AMSD**	Batch ID:	**70238**	TestNo:	**SW8260C**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**GCMS5_150629A**	Analysis Date:	**6/29/2015 6:42:00 PM**	Prep Date:	**6/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	0.0225	0.00300	0.0232	0	96.9	67	131	0.877	20	
Isopropylbenzene	0.0227	0.00100	0.0232	0	97.9	75	127	1.67	20	
m,p-Xylene	0.0483	0.00200	0.0464	0	104	80	120	2.85	20	
Methyl Acetate	0.0283	0.0150	0.0232	0	122	50	150	1.75	20	
Methyl tert-butyl ether	0.0213	0.00100	0.0232	0	91.9	68	123	1.86	20	
Methylcyclohexane	0.0242	0.0150	0.0232	0	104	70	130	3.12	20	
Methylene chloride	0.0264	0.00250	0.0232	0	114	63	137	2.13	20	
Naphthalene	0.0238	0.0150	0.0232	0	103	54	138	3.45	20	
n-Butylbenzene	0.0208	0.00100	0.0232	0	89.5	69	137	1.52	20	
n-Propylbenzene	0.0216	0.00100	0.0232	0	92.9	72	129	0.153	20	
o-Xylene	0.0226	0.00100	0.0232	0	97.3	80	120	1.11	20	
p-Isopropyltoluene	0.0215	0.00100	0.0232	0	92.8	73	130	1.00	20	
sec-Butylbenzene	0.0216	0.00100	0.0232	0	92.9	72	127	0.412	20	
Styrene	0.0213	0.00100	0.0232	0	92.0	65	134	0.979	20	
tert-Butylbenzene	0.0220	0.00100	0.0232	0	94.8	70	129	1.30	20	
Tetrachloroethene	0.0246	0.00200	0.0232	0	106	66	128	0.354	20	
Toluene	0.0272	0.00200	0.0232	0	117	80	120	1.88	20	
trans-1,2-Dichloroethene	0.0275	0.00100	0.0232	0.00122	113	63	137	1.64	20	
trans-1,3-Dichloropropene	0.0243	0.00100	0.0232	0	105	59	135	2.29	20	
Trichloroethene	0.0275	0.00100	0.0232	0	119	70	127	1.33	20	
Trichlorofluoromethane	0.0261	0.00100	0.0232	0	113	57	129	4.86	20	
Vinyl chloride	0.0239	0.00100	0.0232	0.00102	98.5	50	134	2.09	20	
Surr: 1,2-Dichloroethane-d4	214		200.0		107	72	119	0	0	
Surr: 4-Bromofluorobenzene	188		200.0		94.0	76	119	0	0	
Surr: Dibromofluoromethane	210		200.0		105	85	115	0	0	
Surr: Toluene-d8	182		200.0		91.2	81	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS5_150629A**

Sample ID **ICV-150629**	Batch ID: **R80328**	TestNo: **SW8260C**	Units: **mg/L**
SampType: **ICV**	Run ID: **GCMS5_150629A**	Analysis Date: **6/29/2015 9:54:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0510	0.00100	0.0464	0	110	80	120			
1,1,1-Trichloroethane	0.0554	0.00100	0.0464	0	119	80	120			
1,1,2,2-Tetrachloroethane	0.0443	0.00100	0.0464	0	95.5	80	120			
1,1,2-Trichloroethane	0.0549	0.00100	0.0464	0	118	80	120			
1,1,2-Trichlorotrifluoroethane	0.0369	0.0150	0.0464	0	79.5	80	120			S
1,1-Dichloroethane	0.0516	0.00100	0.0464	0	111	80	120			
1,1-Dichloroethene	0.0515	0.00100	0.0464	0	111	80	120			
1,1-Dichloropropene	0.0544	0.00100	0.0464	0	117	80	120			
1,2,3-Trichlorobenzene	0.0511	0.00500	0.0464	0	110	80	120			
1,2,3-Trichloropropane	0.0464	0.00100	0.0464	0	100	80	120			
1,2,4-Trichlorobenzene	0.0505	0.00500	0.0464	0	109	80	120			
1,2,4-Trimethylbenzene	0.0467	0.00500	0.0464	0	101	80	120			
1,2-Dibromo-3-chloropropane	0.0470	0.0100	0.0464	0	101	80	120			
1,2-Dibromoethane	0.0495	0.00100	0.0464	0	107	80	120			
1,2-Dichlorobenzene	0.0486	0.00100	0.0464	0	105	80	120			
1,2-Dichloroethane	0.0522	0.00100	0.0464	0	113	80	120			
1,2-Dichloropropane	0.0513	0.00100	0.0464	0	111	80	120			
1,3,5-Trimethylbenzene	0.0471	0.00500	0.0464	0	102	80	120			
1,3-Dichlorobenzene	0.0485	0.00100	0.0464	0	105	80	120			
1,3-Dichloropropane	0.0474	0.00100	0.0464	0	102	80	120			
1,4-Dichlorobenzene	0.0465	0.00100	0.0464	0	100	80	120			
1-Chlorohexane	0.0461	0.00500	0.0464	0	99.3	80	120			
2,2-Dichloropropane	0.0555	0.00100	0.0464	0	120	80	120			
2-Butanone	0.247	0.0150	0.232	0	107	80	120			
2-Chlorotoluene	0.0464	0.00100	0.0464	0	100	80	120			
2-Hexanone	0.225	0.0150	0.232	0	97.1	80	120			
4-Chlorotoluene	0.0460	0.00100	0.0464	0	99.2	80	120			
4-Methyl-2-pentanone	0.235	0.0150	0.232	0	101	80	120			
Acetone	0.256	0.0150	0.232	0	110	80	120			
Benzene	0.0530	0.00100	0.0464	0	114	80	120			
Bromobenzene	0.0487	0.00100	0.0464	0	105	80	120			
Bromochloromethane	0.0553	0.00100	0.0464	0	119	80	120			
Bromodichloromethane	0.0551	0.00100	0.0464	0	119	80	120			
Bromoform	0.0502	0.00100	0.0464	0	108	80	120			
Bromomethane	0.0389	0.00100	0.0464	0	83.9	80	120			
Carbon disulfide	0.0503	0.0150	0.0464	0	108	80	120			
Carbon tetrachloride	0.0570	0.00100	0.0464	0	123	80	120			S
Chlorobenzene	0.0484	0.00100	0.0464	0	104	80	120			
Chloroethane	0.0547	0.00100	0.0464	0	118	80	120			
Chloroform	0.0538	0.00100	0.0464	0	116	80	120			
Chloromethane	0.0446	0.00100	0.0464	0	96.1	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS5_150629A**

Sample ID **ICV-150629** Batch ID: **R80328** TestNo: **SW8260C** Units: **mg/L**
SampType: **ICV** Run ID: **GCMS5_150629A** Analysis Date: **6/29/2015 9:54:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	0.0556	0.00100	0.0464	0	120	80	120			
cis-1,3-Dichloropropene	0.0552	0.00100	0.0464	0	119	80	120			
Cyclohexane	0.0524	0.0150	0.0464	0	113	80	120			N
Dibromochloromethane	0.0528	0.00100	0.0464	0	114	80	120			
Dibromomethane	0.0542	0.00100	0.0464	0	117	80	120			
Dichlorodifluoromethane	0.0420	0.00100	0.0464	0	90.5	80	120			
Ethylbenzene	0.0507	0.00100	0.0464	0	109	80	120			
Hexachlorobutadiene	0.0552	0.00300	0.0464	0	119	80	120			
Isopropylbenzene	0.0493	0.00100	0.0464	0	106	80	120			
m,p-Xylene	0.103	0.00200	0.0928	0	111	80	120			
Methyl Acetate	0.0483	0.0150	0.0464	0	104	80	120			
Methyl tert-butyl ether	0.0419	0.00100	0.0464	0	90.3	80	120			
Methylcyclohexane	0.0498	0.0150	0.0464	0	107	80	120			
Methylene chloride	0.0512	0.00250	0.0464	0	110	80	120			
Naphthalene	0.0487	0.0150	0.0464	0	105	80	120			
n-Butylbenzene	0.0469	0.00100	0.0464	0	101	80	120			
n-Propylbenzene	0.0471	0.00100	0.0464	0	102	80	120			
o-Xylene	0.0494	0.00100	0.0464	0	106	80	120			
p-Isopropyltoluene	0.0481	0.00100	0.0464	0	104	80	120			
sec-Butylbenzene	0.0472	0.00100	0.0464	0	102	80	120			
Styrene	0.0450	0.00100	0.0464	0	97.0	80	120			
tert-Butylbenzene	0.0483	0.00100	0.0464	0	104	80	120			
Tetrachloroethene	0.0509	0.00200	0.0464	0	110	80	120			
Toluene	0.0549	0.00200	0.0464	0	118	80	120			
trans-1,2-Dichloroethene	0.0514	0.00100	0.0464	0	111	80	120			
trans-1,3-Dichloropropene	0.0526	0.00100	0.0464	0	113	80	120			
Trichloroethene	0.0565	0.00100	0.0464	0	122	80	120			S
Trichlorofluoromethane	0.0568	0.00100	0.0464	0	122	80	120			S
Vinyl chloride	0.0494	0.00100	0.0464	0	107	80	120			
Surr: 1,2-Dichloroethane-d4	195		200.0		97.3	72	119			
Surr: 4-Bromofluorobenzene	190		200.0		95.0	76	119			
Surr: Dibromofluoromethane	206		200.0		103	85	115			
Surr: Toluene-d8	183		200.0		91.4	81	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_150701A**

The QC data in batch 70303 applies to the following samples: 1506310-01A, 1506310-02A, 1506310-03A, 1506310-04A, 1506310-05A, 1506310-06B, 1506310-07B, 1506310-08B, 1506310-09B, 1506310-10B, 1506310-11B, 1506310-17B, 1506310-18B, 1506310-19B

Sample ID	**1506310-19B-DUP**	Batch ID:	**70303**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_150701A**	Analysis Date:	**7/2/2015 8:57:00 AM**	Prep Date:	**7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	10.5	0	0	10.83				2.63	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_150701B**

The QC data in batch 70304 applies to the following samples: 1506310-20B, 1506310-21B, 1506310-22B, 1506310-23B, 1506310-24B, 1506310-25B, 1506310-26B, 1506310-27B, 1506310-28B, 1506310-29B, 1506310-31B, 1506310-32C, 1506310-33C, 1506310-34C, 1506310-35C

Sample ID	**1507014-01B-DUP**	Batch ID:	**70304**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_150701B**	Analysis Date:	**7/2/2015 8:57:00 AM**	Prep Date:	**7/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	17.3	0	0	17.29				0.246	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

DHL Analytical, Inc.

Date: *14-Jul-15*

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

MQL SUMMARY REPORT

TestNo: TX1005	MDL	MQL
Analyte	mg/Kg	mg/Kg
T/R Hydrocarbons: C6-C12	7.00	20.0
T/R Hydrocarbons: >C12-C28	7.00	20.0
T/R Hydrocarbons: >C28-C35	7.00	20.0
T/R Hydrocarbons: C6-C35	7.00	20.0

TestNo: TX1005	MDL	MQL
Analyte	mg/L	mg/L
T/R Hydrocarbons: C6-C12	0.700	2.00
T/R Hydrocarbons: >C12-C28	0.700	2.00
T/R Hydrocarbons: >C28-C35	0.700	2.00
T/R Hydrocarbons: C6-C35	0.700	2.00

TestNo: SW8260C	MDL	MQL
Analyte	mg/L	mg/L
1,1,1,2-Tetrachloroethane	0.000300	0.00100
1,1,1-Trichloroethane	0.000300	0.00100
1,1,2,2-Tetrachloroethane	0.000300	0.00100
1,1,2-Trichloroethane	0.000300	0.00100
1,1,2-Trichlorotrifluoroethane	0.00500	0.0150
1,1-Dichloroethane	0.000300	0.00100
1,1-Dichloroethene	0.000300	0.00100
1,1-Dichloropropene	0.000300	0.00100
1,2,3-Trichlorobenzene	0.00150	0.00500
1,2,3-Trichloropropane	0.000300	0.00100
1,2,4-Trichlorobenzene	0.00150	0.00500
1,2,4-Trimethylbenzene	0.00150	0.00500
1,2-Dibromo-3-chloropropane	0.00300	0.0100
1,2-Dibromoethane	0.000300	0.00100
1,2-Dichlorobenzene	0.000300	0.00100
1,2-Dichloroethane	0.000300	0.00100
1,2-Dichloropropane	0.000300	0.00100
1,3,5-Trimethylbenzene	0.00150	0.00500
1,3-Dichlorobenzene	0.000300	0.00100
1,3-Dichloropropane	0.000300	0.00100
1,4-Dichlorobenzene	0.000300	0.00100
1-Chlorohexane	0.00100	0.00500
2,2-Dichloropropane	0.000300	0.00100
2-Butanone	0.00500	0.0150
2-Chlorotoluene	0.000300	0.00100
2-Hexanone	0.00500	0.0150
4-Chlorotoluene	0.000300	0.00100
4-Methyl-2-pentanone	0.00500	0.0150
Acetone	0.00500	0.0150
Benzene	0.000300	0.00100
Bromobenzene	0.000300	0.00100
Bromochloromethane	0.000300	0.00100
Bromodichloromethane	0.000300	0.00100
Bromoform	0.000300	0.00100
Bromomethane	0.000300	0.00100
Carbon disulfide	0.00500	0.0150
Carbon tetrachloride	0.000300	0.00100
Chlorobenzene	0.000300	0.00100
Chloroethane	0.000300	0.00100
Chloroform	0.000300	0.00100
Chloromethane	0.000300	0.00100
cis-1,2-Dichloroethene	0.000300	0.00100
cis-1,3-Dichloropropene	0.000300	0.00100
Cyclohexane	0.00500	0.0150

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

MQL SUMMARY REPORT

Dibromochloromethane	0.000300	0.00100
Dibromomethane	0.000300	0.00100
Dichlorodifluoromethane	0.000300	0.00100
Ethylbenzene	0.000300	0.00100
Hexachlorobutadiene	0.00100	0.00300
Isopropylbenzene	0.000300	0.00100
m,p-Xylene	0.000600	0.00200
Methyl Acetate	0.00500	0.0150
Methyl tert-butyl ether	0.000300	0.00100
Methylcyclohexane	0.00500	0.0150
Methylene chloride	0.00250	0.00250
Naphthalene	0.00500	0.0150
n-Butylbenzene	0.000300	0.00100
n-Propylbenzene	0.000300	0.00100
o-Xylene	0.000300	0.00100
p-Isopropyltoluene	0.000300	0.00100
sec-Butylbenzene	0.000300	0.00100
Styrene	0.000300	0.00100
tert-Butylbenzene	0.000300	0.00100
Tetrachloroethene	0.000600	0.00200
Toluene	0.000600	0.00200
trans-1,2-Dichloroethene	0.000300	0.00100
trans-1,3-Dichloropropene	0.000300	0.00100
Trichloroethene	0.000600	0.00100
Trichlorofluoromethane	0.000300	0.00100
Vinyl chloride	0.000300	0.00100

TestNo: SW8260C	MDL	MQL
Analyte	mg/Kg	mg/Kg
1,1,1,2-Tetrachloroethane	0.00100	0.00500
1,1,1-Trichloroethane	0.00100	0.00500
1,1,2,2-Tetrachloroethane	0.00100	0.00500
1,1,2-Trichloroethane	0.00100	0.00500
1,1,2-Trichlorotrifluoroethane	0.00500	0.0150
1,1-Dichloroethane	0.00100	0.00500
1,1-Dichloroethene	0.00100	0.00500
1,1-Dichloropropene	0.00100	0.00500
1,2,3-Trichlorobenzene	0.00100	0.00500
1,2,3-Trichloropropane	0.00100	0.00500
1,2,4-Trichlorobenzene	0.00100	0.00500
1,2,4-Trimethylbenzene	0.00100	0.00500
1,2-Dibromo-3-chloropropane	0.00100	0.00500
1,2-Dibromoethane	0.00100	0.00500
1,2-Dichlorobenzene	0.00100	0.00500
1,2-Dichloroethane	0.00100	0.00500
1,2-Dichloropropane	0.00100	0.00500
1,3,5-Trimethylbenzene	0.00100	0.00500
1,3-Dichlorobenzene	0.00100	0.00500
1,3-Dichloropropane	0.00100	0.00500
1,4-Dichlorobenzene	0.00100	0.00500
1-Chlorohexane	0.00100	0.00500
2,2-Dichloropropane	0.00100	0.00500
2-Butanone	0.00500	0.0150
2-Chlorotoluene	0.00100	0.00500
2-Hexanone	0.00500	0.0150
4-Chlorotoluene	0.00100	0.00500
4-Methyl-2-pentanone	0.00500	0.0150
Acetone	0.0150	0.0500
Benzene	0.00100	0.00500
Bromobenzene	0.00100	0.00500
Bromochloromethane	0.00100	0.00500
Bromodichloromethane	0.00100	0.00500
Bromoform	0.00100	0.00500
Bromomethane	0.00100	0.00500
Carbon disulfide	0.00500	0.0150
Carbon tetrachloride	0.00100	0.00500
Chlorobenzene	0.00100	0.00500
Chloroethane	0.00100	0.00500
Chloroform	0.00100	0.00500
Chloromethane	0.00100	0.00500
cis-1,2-Dichloroethene	0.00100	0.00500
cis-1,3-Dichloropropene	0.00100	0.00500
Cyclohexane	0.00500	0.0150
Dibromochloromethane	0.00100	0.00500
Dibromomethane	0.00100	0.00500

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

MQL SUMMARY REPORT

Dichlorodifluoromethane	0.00100	0.00500
Ethylbenzene	0.00100	0.00500
Hexachlorobutadiene	0.00100	0.00500
Isopropylbenzene	0.00100	0.00500
m,p-Xylene	0.00100	0.00500
Methyl Acetate	0.00500	0.0150
Methyl tert-butyl ether	0.00100	0.00500
Methylcyclohexane	0.00500	0.0150
Methylene chloride	0.00500	0.00500
Naphthalene	0.00500	0.0150
n-Butylbenzene	0.00100	0.00500
n-Propylbenzene	0.00100	0.00500
o-Xylene	0.00100	0.00500
p-Isopropyltoluene	0.00100	0.00500
sec-Butylbenzene	0.00100	0.00500
Styrene	0.00100	0.00500
tert-Butylbenzene	0.00100	0.00500
Tetrachloroethene	0.00100	0.00500
Toluene	0.00100	0.00500
trans-1,2-Dichloroethene	0.00100	0.00500
trans-1,3-Dichloropropene	0.00100	0.00500
Trichloroethene	0.00100	0.00500
Trichlorofluoromethane	0.00500	0.0150
Vinyl chloride	0.00100	0.00500

TestNo: SW8270D	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
2,4,5-Trichlorophenol	0.0100	0.0266
2,4,6-Trichlorophenol	0.0100	0.0266
2,4-Dichlorophenol	0.0100	0.0266
2,4-Dimethylphenol	0.0100	0.0266
2,4-Dinitrophenol	0.0500	0.132
2,4-Dinitrotoluene	0.0100	0.0266
2,6-Dinitrotoluene	0.0100	0.0266
2-Chloronaphthalene	0.0100	0.0266
2-Chlorophenol	0.0100	0.0266
2-Methylnaphthalene	0.0100	0.0266
2-Methylphenol	0.0100	0.0266
2-Nitroaniline	0.0100	0.0266
2-Nitrophenol	0.0100	0.0266
3,3´-Dichlorobenzidine	0.0100	0.0266
3-Nitroaniline	0.0100	0.0266
4,6-Dinitro-2-methylphenol	0.0300	0.0660
4-Bromophenyl phenyl ether	0.0100	0.0266
4-Chloro-3-methylphenol	0.0100	0.0266
4-Chloroaniline	0.0300	0.0660
4-Chlorophenyl phenyl ether	0.0100	0.0266
4-Methylphenol	0.0200	0.0266
4-Nitroaniline	0.0100	0.0266
4-Nitrophenol	0.0500	0.132
Acenaphthene	0.0100	0.0266
Acenaphthylene	0.0100	0.0266
Acetophenone	0.0100	0.0266
Anthracene	0.0100	0.0266
Atrazine	0.0100	0.0266
Benzaldehyde	0.0100	0.0266
Benzo[a]anthracene	0.0100	0.0266
Benzo[a]pyrene	0.0100	0.0266
Benzo[b]fluoranthene	0.0100	0.0266
Benzo[g,h,i]perylene	0.0100	0.0266
Benzo[k]fluoranthene	0.0100	0.0266
Benzoic acid	0.0500	0.132
Benzyl alcohol	0.0100	0.0660
Biphenyl	0.0100	0.0266
Bis(2-chloroethoxy)methane	0.0100	0.0266
Bis(2-chloroethyl)ether	0.0100	0.0266
Bis(2-chloroisopropyl)ether	0.0100	0.0266
Bis(2-ethylhexyl)phthalate	0.0300	0.0660
Butyl benzyl phthalate	0.0400	0.0660
Caprolactam	0.0200	0.0266
Carbazole	0.0100	0.0266
Chrysene	0.0100	0.0266
Dibenz[a,h]anthracene	0.0100	0.0266

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

MQL SUMMARY REPORT

Dibenzofuran	0.0100	0.0266
Diethyl phthalate	0.0400	0.0660
Dimethyl phthalate	0.0400	0.0660
Di-n-butyl phthalate	0.0400	0.0660
Di-n-octyl phthalate	0.0400	0.0660
Fluoranthene	0.0100	0.0266
Fluorene	0.0100	0.0266
Hexachlorobenzene	0.0100	0.0266
Hexachlorobutadiene	0.0100	0.0266
Hexachlorocyclopentadiene	0.0300	0.0660
Hexachloroethane	0.0100	0.0266
Indeno[1,2,3-cd]pyrene	0.0100	0.0266
Isophorone	0.0300	0.0660
Naphthalene	0.0100	0.0266
Nitrobenzene	0.0100	0.0266
N-Nitrosodi-n-propylamine	0.0100	0.0266
N-Nitrosodiphenylamine	0.0100	0.0266
Pentachlorophenol	0.0100	0.0266
Phenanthrene	0.0100	0.0266
Phenol	0.0100	0.0266
Pyrene	0.0100	0.0266

TestNo: SW8270D	MDL	MQL
Analyte	**mg/L**	**mg/L**
2,4,5-Trichlorophenol	0.000200	0.000800
2,4,6-Trichlorophenol	0.000200	0.000800
2,4-Dichlorophenol	0.000200	0.000800
2,4-Dimethylphenol	0.000400	0.000800
2,4-Dinitrophenol	0.00100	0.00400
2,4-Dinitrotoluene	0.000200	0.000800
2,6-Dinitrotoluene	0.000200	0.000800
2-Chloronaphthalene	0.000200	0.000800
2-Chlorophenol	0.000200	0.000800
2-Methylnaphthalene	0.000200	0.000800
2-Methylphenol	0.000200	0.000800
2-Nitroaniline	0.000200	0.000800
2-Nitrophenol	0.000400	0.000800
3,3´-Dichlorobenzidine	0.000400	0.000800
3-Nitroaniline	0.000200	0.000800
4,6-Dinitro-2-methylphenol	0.000500	0.00200
4-Bromophenyl phenyl ether	0.000200	0.000800
4-Chloro-3-methylphenol	0.000200	0.000800
4-Chloroaniline	0.000500	0.00200
4-Chlorophenyl phenyl ether	0.000200	0.000800
4-Methylphenol	0.000200	0.000800
4-Nitroaniline	0.000400	0.000800
4-Nitrophenol	0.00100	0.00400
Acenaphthene	0.000200	0.000800
Acenaphthylene	0.000200	0.000800
Acetophenone	0.000200	0.000800
Anthracene	0.000200	0.000800
Atrazine	0.000200	0.000800
Benzaldehyde	0.000400	0.000800
Benzo[a]anthracene	0.000400	0.000800
Benzo[a]pyrene	0.000200	0.000800
Benzo[b]fluoranthene	0.000400	0.000800
Benzo[g,h,i]perylene	0.000400	0.000800
Benzo[k]fluoranthene	0.000400	0.000800
Benzoic acid	0.00200	0.00600
Benzyl alcohol	0.000500	0.00200
Biphenyl	0.000200	0.000800
Bis(2-chloroethoxy)methane	0.000200	0.000800
Bis(2-chloroethyl)ether	0.000200	0.000800
Bis(2-chloroisopropyl)ether	0.000200	0.000800
Bis(2-ethylhexyl)phthalate	0.00100	0.00300
Butyl benzyl phthalate	0.00200	0.00600
Caprolactam	0.000200	0.000800
Carbazole	0.000200	0.000800
Chrysene	0.000400	0.000800
Dibenz[a,h]anthracene	0.000200	0.000800

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

MQL SUMMARY REPORT

Dibenzofuran	0.000200	0.000800
Diethyl phthalate	0.00200	0.00600
Dimethyl phthalate	0.00200	0.00600
Di-n-butyl phthalate	0.00200	0.00600
Di-n-octyl phthalate	0.00200	0.00600
Fluoranthene	0.000200	0.000800
Fluorene	0.000200	0.000800
Hexachlorobenzene	0.000200	0.000800
Hexachlorobutadiene	0.000200	0.000800
Hexachlorocyclopentadiene	0.000500	0.00200
Hexachloroethane	0.000200	0.000800
Indeno[1,2,3-cd]pyrene	0.000400	0.000800
Isophorone	0.000200	0.000800
Naphthalene	0.000200	0.000800
Nitrobenzene	0.000400	0.000800
N-Nitrosodi-n-propylamine	0.000200	0.000800
N-Nitrosodiphenylamine	0.000200	0.000800
Pentachlorophenol	0.000400	0.000800
Phenanthrene	0.000200	0.000800
Phenol	0.000400	0.000800
Pyrene	0.000400	0.000800

TestNo: SW7471B	**MDL**	**MQL**
Analyte	**mg/Kg**	**mg/Kg**
Mercury	0.0160	0.0400

TestNo: SW7470A	**MDL**	**MQL**
Analyte	**mg/L**	**mg/L**
Mercury	0.0000800	0.000200

TestNo: SW6020A	**MDL**	**MQL**
Analyte	**mg/Kg**	**mg/Kg**
Arsenic	0.500	1.00
Barium	0.500	2.00
Cadmium	0.100	0.300
Chromium	0.500	2.00
Lead	0.100	0.300
Selenium	0.150	0.500
Silver	0.100	0.200

TestNo: SW6020A	**MDL**	**MQL**
Analyte	**mg/L**	**mg/L**
Arsenic	0.00200	0.00500
Barium	0.00300	0.0100
Cadmium	0.000300	0.00100
Chromium	0.00200	0.00500
Lead	0.000300	0.00100
Selenium	0.00200	0.00500
Silver	0.00100	0.00200

TestNo: SW8270D-LL	**MDL**	**MQL**
Analyte	**mg/Kg**	**mg/Kg**
Acenaphthene	0.00500	0.0100
Acenaphthylene	0.00500	0.0100
Anthracene	0.00500	0.0100
Benzo[a]anthracene	0.00500	0.0100
Benzo[a]pyrene	0.00500	0.0100
Benzo[b]fluoranthene	0.00500	0.0100
Benzo[g,h,i]perylene	0.00500	0.0100
Benzo[k]fluoranthene	0.00500	0.0100
Chrysene	0.00500	0.0100
Dibenz[a,h]anthracene	0.00500	0.0100
Fluoranthene	0.00500	0.0100
Fluorene	0.00500	0.0100
Indeno[1,2,3-cd]pyrene	0.00500	0.0100
Naphthalene	0.00500	0.0100
Phenanthrene	0.00500	0.0100
Pyrene	0.00500	0.0100

TestNo: SW8270D	**MDL**	**MQL**
Analyte	**mg/Kg**	**mg/Kg**
Aroclor 1016	0.0250	0.0500
Aroclor 1221	0.0250	0.0500
Aroclor 1232	0.0250	0.0500
Aroclor 1242	0.0250	0.0500
Aroclor 1248	0.0250	0.0500
Aroclor 1254	0.0250	0.0500
Aroclor 1260	0.0250	0.0500

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

CLIENT: AECOM
Work Order: 1506310
Project: City of Galveston Incinerator

MQL SUMMARY REPORT

TestNo: SW8270D	MDL	MQL
Analyte	mg/L	mg/L
Aroclor 1016	0.000100	0.000250
Aroclor 1221	0.000100	0.000250
Aroclor 1232	0.000100	0.000250
Aroclor 1242	0.000100	0.000250
Aroclor 1248	0.000100	0.000250
Aroclor 1254	0.000100	0.000250
Aroclor 1260	0.000100	0.000250

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 · 717-656-2300 · Fax: 717-656-2681 · www.LancasterLabs.com

TRRP-13 Data Package

Prepared for:

AECOM
PO Box 203970
Austin TX 78720-1088

Project: City Of Galveston Incinerator
Soil and Water Samples
Collected on 06/24/15

SDG# CGI01

GROUP	SAMPLE NUMBERS
1572229	7944097-7944104

PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521
TX Cert. # T104704194-13-10
AZ Cert. # AZ0780

Through our technical processes and second person review of data, we have established that our data/deliverables are in compliance with the methods and project requirements unless otherwise noted or previously resolved with the client.

Authorized by: Dana M Kauffman **Date: 08/11/2015**

Dana M. Kauffman
Manager

Any questions or concerns you might have regarding this data package should be directed to your client representative, Angela Miller at (717) 556-7260.

2425 New Holland Pike, Lancaster, PA 17601 · 717-656-2300 · Fax: 717-656-2681 · www.LancasterLabs.com

Table of Contents for SDG# CGI01

1. Sample Reference List 3
2. TRRP-13 Signature Pages and Laboratory Review Checklists 4
3. Preservation Data 10
4. Methodology Summary/Reference 11
5. Analysis Reports / Field Chain of Custody 12
6. Sample Receipt Documentation Log 49
7. Dioxins/Furans by HRMS Data 51
8. Moisture Data 59

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Reference List for SDG Number CGI01
with a Data Package Type of TRRP-13

30553 - AECOM

Project: City Of Galveston Incinerator

Lab Sample Number	Lab Sample Code	Client Sample Description
7944097	08010	INC-SB08-010 Grab Soil
7944098	08020	INC-SB08-020 Grab Soil
7944099	07010	INC-SB07-010 Grab Soil
7944100	07020	INC-SB07-020 Grab Soil
7944101	06010	INC-SB06-010 Grab Soil
7944102	02006	INC-SB06-020 Grab Soil
7944103	06015	INC-SB06-015 Grab Water
7944104	01007	INC-MW07-010 Grab Water

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

TRRP-13 Laboratory Data Package Signature Page for Field COC, Sample Identification, and Analysis Reports	SDG # : CGI01
LLI Sample #(s): 7944097-7944104	Project Name: City Of Galveston Incinerator

This section of the data package consists of:

Signature Page (this page)

Laboratory Review Check List (LRC) including:

a) COC/Sample Identification, and

b) Exception Report (for every "No" or "Not Reviewed (NR)" item in laboratory review checklist).

R1 Field Chain-of-Custody Documentation;

R2 Sample Identification Cross-reference;

R3 Analysis Reports for each environmental sample that includes:

a) Items consistent with NELAC 5.13 or ISO/IEC 71025 Section 5.10,

b) Dilution factors,

c) Preparation methods, and

d) If required for the project, tentatively identified compounds (TICs).

Release Statement:

I am responsible for the release of this section of the data package. This section of the laboratory data package has been reviewed and is complete. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies, observed by this laboratory as having the potential to affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

Brandy Barclay
Name (printed)

Senior Administrator
Official Title (printed)

Brandy Barclay
Signature

8-11-15
Date

3681.04

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Data Package Signature Page	SDG #: CGI01
Department or Fraction: Dioxins/Furans HRMS	Project Name: City Of Galveston Incinerator
LLI Sample #(s): 7944097-7944104	Batch #(s): 15182001, 15182002

This Data Package consists of:

Signature Page (this page)
Quality Control Reference List
Laboratory Review Check List (LRC) including:
a) Reportable Data,
b) Supporting Data, and
c) Exception Report (for every "No" or "Not Reviewed (NR)" item in laboratory review checklist).

R4 Surrogate Summary Forms including:
a) Calculated recovery (%R), and
b) Surrogate QC limits.

R5 Summary Forms for Blank Samples;

R6 Summary Forms for Laboratory Control Samples (LCSs) including:
a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c) LCS QC limits.

R7 Summary Forms for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
a) MS/MSD spiking amounts,
b) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
c) Calculated %Rs and relative percent differences (RPDs), and
d) MS/MSD QC limits

R8 Laboratory Analytical Duplicate (if applicable) Recovery and Precision:
a) The amount of analyte measured in the duplicate,
b) The calculated RPD, and
c) The laboratory's QC limits for analytical duplicates.

R9 List of Method Quantitation Limits (MQLs) and detectability check samples (DCS) results for each analyte for each method and matrix.

R10 Other problems or anomalies

Release Statement:

I am responsible for the release of this section of the laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for the methods, analytes, and matrices reported in this section of the data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory for this section of the data package have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Jessica R. Baron	Jessica R Baron	Specialist	08/11/2015
Name (printed)	Signature	Official Title (printed)	Date

eurofins | Lancaster Laboratories Environmental

Quality Control Reference List
Specialty Services Group

CLIENT: AECOM
SDG: CGI01

Fraction: Dioxins/Furans by HRMS

Analysis	Batch Number	Sample Number	Analysis Date
D/F in Solids 8290-Conf	15182002	BLK182002	07/08/2015 12:28:00
		7944097	07/08/2015 13:23:00
		7944098	07/08/2015 14:19:00
		7944100	07/08/2015 16:09:00
		7944101	07/08/2015 17:04:00
Dioxins/Furans in Solids-8290	15182002	BLK182002	07/06/2015 16:35:00
		OPR182002	07/06/2015 13:45:00
		7944097	07/07/2015 06:06:00
		7944098	07/07/2015 07:03:00
		7944099	07/07/2015 07:59:00
		7944100	07/07/2015 08:56:00
		7944101	07/07/2015 09:53:00
		7944102	07/07/2015 10:50:00
Dioxins/Furans in Water - 8290	15182001	BLK182001	07/02/2015 21:05:00
		OPR182001	07/02/2015 19:12:00
		7944103	07/02/2015 22:02:00
		7944104	07/02/2015 22:59:00

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Review Checklist: Reportable Data	SDG #: CGI01
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	LLI Sample #(s): 7944097-7944104
LRC Date: 08/11/2015	Batch #(s): 15182001, 15182002

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
R2	**OI**	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	**OI**	**ANALYSIS REPORTS**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results <MQL, were all other raw values bracketed by calibration standards?			X		
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TIC's reported?			X		
R4	**O**	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	**OI**	**SUMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations <MQL?	X				
R6	**OI**	**LABORATORY CONTROL SAMPLES (LCS)**					
		1) Were all Chemicals of Concern (COC) included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCS's analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COC's at the MDL used to calculate the SDL's?	X				
		6) Was the LCSD RPD within QC limits?			X		
R7	**OI**	**MATRIX SPIKE (MS) AND MATRIX DUPLICATE (MSD) DATA**					
		1) Were the project/method-specified analytes included in the MS and MSD?			X		
		2) Were MS/MSD analyzed at the appropriate frequency?			X		
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		4) Were MS/MSD RPDs within laboratory QC limits?			X		
R8	**OI**	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	**OI**	**METHOD QUANTITATION LIMITS (MQLS)**					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	**OI**	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?		X			1, 2
		2) Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				

[1]Items identified by the letter "R" must be included in the laboratory data package.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Review Checklist: Supporting Data	SDG #: CGI01
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	LLI Sample #(s): 7944097-7944104
LRC Date: 08/11/2015	Batch #(s): 15182001, 15182002

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
S1	**OI**	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factor (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	**OI**	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICV AND CCV)**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB<MDL?			X		
S3	**O**	**MASS SPECTRAL TUNING**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Was ion abundance data within the method-required QC limits?	X				
S4	**OI**	**INTERNAL STANDARDS (IS)**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	**OI**	**RAW DATA (NELAC Section 5.5.10)**					
		1) Were the raw data (e.g., chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	**O**	**DUAL COLUMN CONFIRMATION**					
		Did dual column confirmation results meet the method-required QC?	X				
S7	**O**	**TENTATIVELY IDENTIFIED COMPOUNDS (TICS)**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS**					
		Were percent recoveries within method QC limits?			X		
S9	**I**	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND MSA**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	**OI**	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?			X		
S11	**OI**	**PROFICIENCY TEST REPORTS**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	**OI**	**STANDARDS DOCUMENTATION**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	**OI**	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		Are the procedures for compound/analyte identification documented?	X				
S14	**OI**	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	**OI**	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated where applicable?	X				
S16	**OI**	**LABORATORY STANDARD OPERATING PROCEDURES (SOPS)**					
		Are laboratory SOPs current and on file for each method performed?	X				

[1]Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

TRRP-13 Laboratory Review Checklist: Exception Reports	SDG #: CGI01
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	ELLE Sample #(s): 7944097-7944104
LRC Date: 08/11/2015	Batch #(s): 15182001, 15182002

ER # [1]	DESCRIPTION
1	R10 1) (Sample number(s): 7944097-7944098, 7944100-7944102: Analysis: 12937) Reporting limits were raised due to interference from the sample matrix.
2	R10 1) Confirmation analysis for 2378-TCDF was performed on samples 7944097, 7944098, 7944100, and 7944101.

[1]ER#=Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC).

eurofins | Lancaster Laboratories Environmental

Sample pH Log

SDG: CGI01

LLI Sample Number	Bottle Code	Actual pH	Exp. pH	pH Check Code	Adj. pH	Adjusted Date	Adjusted Time	Preservative Added	Preservative Lot #	LLI Supplied Bottle?	Sulfide Present?	Corrective Substance	CS Lot #	Res. Cl. Present?	Corrective Substance	CS Lot #
7944103	243A	7	7-9	PC	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA
7944103	243B	6	7-9	PC	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA
7944104	243A	7	7-9	PC	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA
7944104	243B	7	7-9	PC	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA

Check Code Key

PK = Original container checked - pH is within the correct range. (No preservative was added)
PA = Original container checked - pH adjusted to correct range. (Preservative was added)
PV = Volatile container checked
PC = pH checked (unpreserved container)
SPK = Subsampled from an original container. Original container checked - pH is within correct range
SPA = Subsampled from an original container. Subsample container checked - pH adjusted to correct range.
SPC = Subsampled from an original container. pH checked (unpreserved container).
SUP = Subsampled from original container. Unable to be preserved due to the matrix of the sample.
UP = Unable to preserve due to matrix of the sample.
NA = Not applicable

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 · 717-656-2300 Fax: 717-656-2681 · www.lancasterlabs.com

10914 Dioxins/Furans in Water - SepF

Aqueous samples are extracted with methylene chloride in a separatory funnel. The extract is concentrated for cleanup.or instrumental analysis.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8290A, Polychlorinated Dibenzo-p-Dioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High Resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS)

13233 D/F in Solids 8290-Conf
12937 Dioxins/Furans in Solids-8290
12936 Dioxins/Furans in Water - 8290

The method provides procedures for the detection and quantitative measurement of polychlorinated dibenzo-p-dioxins (tetra- through octachlorinated homologues; PCDDs), and polychlorinated dibenzofurans (tetra- through octachlorinated homologues; PCDFs) in a variety of environmental matrices and at part-per-trillion (ppt) to part-per-quadrillion. The method requires the use of high-resolution gas chromatography and high-resolution mass spectrometry (HRGC/HRMS) on purified sample extracts.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8290A, Polychlorinated Dibenzo-p-Dioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High Resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS)

11030 Dioxins/Furans in Solids - Sox

The samples are extracted with toluene in a Soxhlet - Dean Stark extractor. The extract is concentrated for clean-up or instrumental analysis.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8290A, Polychlorinated Dibenzo-p-Dioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High Resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS)

00111 Moisture

A well-mixed sample is placed in a tared container and dried to a constant weight in an oven at 103-105C. The increase in weight is the total solids.

Reference: Standard Methods for the Examination of Water and Wastewater, 20th Edition, 1998, Method 2540 G-1997

Analysis Reports / Field Chain of Custody

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

AECOM
PO Box 203970
Austin TX 78720-1088

August 07, 2015

Project: City Of Galveston Incinerator

Submittal Date: 06/25/2015
Group Number: 1572229
SDG: CGI01
PO Number: 63188
State of Sample Origin: TX

Client Sample Description	Lancaster Labs (LL) #
INC-SB08-010 Grab Soil	7944097
INC-SB08-020 Grab Soil	7944098
INC-SB07-010 Grab Soil	7944099
INC-SB07-020 Grab Soil	7944100
INC-SB06-010 Grab Soil	7944101
INC-SB06-020 Grab Soil	7944102
INC-SB06-015 Grab Water	7944103
INC-MW07-010 Grab Water	7944104

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO	AECOM	Attn: Carol Lovett
ELECTRONIC COPY TO	Data Package Group	

Respectfully Submitted,

Angela M. Miller

Angela M. Miller
Specialist

(717) 556-7260

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB08-010 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944097
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 10:05 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

08010 SDG#: CGI01-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	16.6	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB08-010 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944097
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 10:05 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

08010 SDG#: CGI01-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		**ng/kg**		**ng/kg**	**ng/kg**	
12937	2378-TCDD	1746-01-6	10.9	J	11.0	1.19	1
12937	12378-PeCDD	40321-76-4	36.4	J	55.0	1.72	1
12937	123478-HxCDD	39227-28-6	31.0	JB	55.0	0.648	1
12937	123678-HxCDD	57653-85-7	98.4	BQ	55.0	0.697	1
12937	123789-HxCDD	19408-74-3	87.9	B	55.0	0.741	1
12937	1234678-HpCDD	35822-46-9	1,530	B	55.0	1.18	1
12937	OCDD	3268-87-9	6,040	B	110	0.988	1
13233	2378-TCDF-Conf	51207-31-9	70.5	BC	11.0	1.64	1
12937	12378-PeCDF	57117-41-6	41.0	JB	55.0	0.551	1
12937	23478-PeCDF	57117-31-4	62.8	B	55.0	0.534	1
12937	123478-HxCDF	70648-26-9	48.7	JB	55.0	0.801	1
12937	123678-HxCDF	57117-44-9	44.6	JB	55.0	0.744	1
12937	123789-HxCDF	72918-21-9	N.D.		55.0	1.14	1
12937	234678-HxCDF	60851-34-5	54.6	JB	55.0	0.802	1
12937	1234678-HpCDF	67562-39-4	310	B	55.0	0.252	1
12937	1234789-HpCDF	55673-89-7	18.2	J	55.0	0.416	1
12937	OCDF	39001-02-0	206	B	110	0.459	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	66	40 - 135
13C12-2378-TCDF-Conf	66	40 - 135
13C12-12378-PeCDD	69	40 - 135
13C12-123478-HxCDD	78	40 - 135
13C12-123678-HxCDD	77	40 - 135
13C12-123789-HxCDD	73	40 - 135
13C12-1234678-HpCDD	79	40 - 135
13C12-OCDD	85	40 - 135
13C12-12378-PeCDF	79	40 - 135
13C12-23478-PeCDF	74	40 - 135
13C12-123478-HxCDF	82	40 - 135
13C12-123678-HxCDF	90	40 - 135
13C12-234678-HxCDF	85	40 - 135
13C12-123789-HxCDF	74	40 - 135
13C12-1234678-HpCDF	98	40 - 135
13C12-1234789-HpCDF	76	40 - 135
13C12-OCDF	77	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB08-010 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944097
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 10:05 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

08010 SDG#: CGI01-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB08-010 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944097
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 10:05 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

08010 SDG#: CGI01-01

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13233	D/F in Solids 8290-Conf	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/08/2015 13:23	Joseph D Anderson	1
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/07/2015 06:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/01/2015 10:15	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15177820002B	06/26/2015 17:33	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB08-020 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944098
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 10:20 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

08020 SDG#: CGI01-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	18.5	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB08-020 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944098
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 10:20 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

08020 SDG#: CGI01-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		**ng/kg**		**ng/kg**	**ng/kg**	
12937	2378-TCDD	1746-01-6	8.25	JQ	11.8	0.872	1
12937	12378-PeCDD	40321-76-4	31.0	J	59.0	1.36	1
12937	123478-HxCDD	39227-28-6	31.4	JB	59.0	0.447	1
12937	123678-HxCDD	57653-85-7	62.3	B	59.0	0.478	1
12937	123789-HxCDD	19408-74-3	58.3	JB	59.0	0.501	1
12937	1234678-HpCDD	35822-46-9	883	B	59.0	0.863	1
12937	OCDD	3268-87-9	3,750	B	118	0.540	1
13233	2378-TCDF-Conf	51207-31-9	71.6	BCQ	11.8	3.68	1
12937	12378-PeCDF	57117-41-6	127	B	59.0	0.463	1
12937	23478-PeCDF	57117-31-4	250	B	59.0	0.449	1
12937	123478-HxCDF	70648-26-9	266	B	59.0	0.889	1
12937	123678-HxCDF	57117-44-9	268	B	59.0	0.800	1
12937	123789-HxCDF	72918-21-9	64.7	B	59.0	0.981	1
12937	234678-HxCDF	60851-34-5	293	B	59.0	0.714	1
12937	1234678-HpCDF	67562-39-4	824	B	59.0	0.294	1
12937	1234789-HpCDF	55673-89-7	82.6		59.0	0.494	1
12937	OCDF	39001-02-0	300	B	118	0.375	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	64	40 - 135
13C12-2378-TCDF-Conf	64	40 - 135
13C12-12378-PeCDD	71	40 - 135
13C12-123478-HxCDD	85	40 - 135
13C12-123678-HxCDD	82	40 - 135
13C12-123789-HxCDD	75	40 - 135
13C12-1234678-HpCDD	77	40 - 135
13C12-OCDD	81	40 - 135
13C12-12378-PeCDF	78	40 - 135
13C12-23478-PeCDF	74	40 - 135
13C12-123478-HxCDF	77	40 - 135
13C12-123678-HxCDF	84	40 - 135
13C12-234678-HxCDF	94	40 - 135
13C12-123789-HxCDF	80	40 - 135
13C12-1234678-HpCDF	97	40 - 135
13C12-1234789-HpCDF	75	40 - 135
13C12-OCDF	73	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB08-020 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944098
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 10:20 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

08020 SDG#: CGI01-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB08-020 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944098
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 10:20 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

08020 SDG#: CGI01-02

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13233	D/F in Solids 8290-Conf	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/08/2015 14:19	Joseph D Anderson	1
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/07/2015 07:03	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/01/2015 10:15	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15177820002B	06/26/2015 17:33	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB07-010 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944099
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 10:35 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

07010 SDG#: CGI01-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	15.5	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB07-010 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944099
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 10:35 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

07010 SDG#: CGI01-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		ng/kg		ng/kg	ng/kg	
12937	2378-TCDD	1746-01-6	N.D.		11.7	0.596	1
12937	12378-PeCDD	40321-76-4	3.02	J	58.6	0.680	1
12937	123478-HxCDD	39227-28-6	2.57	JBQ	58.6	0.617	1
12937	123678-HxCDD	57653-85-7	11.5	JBQ	58.6	0.642	1
12937	123789-HxCDD	19408-74-3	9.29	JB	58.6	0.683	1
12937	1234678-HpCDD	35822-46-9	170	B	58.6	0.562	1
12937	OCDD	3268-87-9	682	B	117	0.485	1
12937	2378-TCDF	51207-31-9	5.39	J	11.7	0.722	1
12937	12378-PeCDF	57117-41-6	6.32	JBQ	58.6	0.285	1
12937	23478-PeCDF	57117-31-4	8.03	JB	58.6	0.306	1
12937	123478-HxCDF	70648-26-9	5.24	JB	58.6	0.491	1
12937	123678-HxCDF	57117-44-9	5.28	JB	58.6	0.440	1
12937	123789-HxCDF	72918-21-9	N.D.		58.6	0.615	1
12937	234678-HxCDF	60851-34-5	8.16	JB	58.6	0.423	1
12937	1234678-HpCDF	67562-39-4	31.6	JB	58.6	0.193	1
12937	1234789-HpCDF	55673-89-7	1.91	J	58.6	0.366	1
12937	OCDF	39001-02-0	32.4	JBQ	117	0.349	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	40 - 135
13C12-12378-PeCDD	67	40 - 135
13C12-123478-HxCDD	78	40 - 135
13C12-123678-HxCDD	76	40 - 135
13C12-123789-HxCDD	70	40 - 135
13C12-1234678-HpCDD	72	40 - 135
13C12-OCDD	76	40 - 135
13C12-2378-TCDF	68	40 - 135
13C12-12378-PeCDF	76	40 - 135
13C12-23478-PeCDF	67	40 - 135
13C12-123478-HxCDF	76	40 - 135
13C12-123678-HxCDF	83	40 - 135
13C12-234678-HxCDF	86	40 - 135
13C12-123789-HxCDF	70	40 - 135
13C12-1234678-HpCDF	96	40 - 135
13C12-1234789-HpCDF	67	40 - 135
13C12-OCDF	66	40 - 135

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB07-010 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944099
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 10:35 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

07010 SDG#: CGI01-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB07-010 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944099
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 10:35 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

07010 SDG#: CGI01-03

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/07/2015 07:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/01/2015 10:15	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15177820002B	06/26/2015 17:33	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB07-020 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944100
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 10:55 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

07020 SDG#: CGI01-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	24.1	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB07-020 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944100
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 10:55 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

07020 SDG#: CGI01-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		**ng/kg**		**ng/kg**	**ng/kg**	
12937	2378-TCDD	1746-01-6	5.55	JQ	11.7	0.804	1
12937	12378-PeCDD	40321-76-4	16.3	JQ	58.3	1.05	1
12937	123478-HxCDD	39227-28-6	10.4	JB	58.3	0.394	1
12937	123678-HxCDD	57653-85-7	43.1	JB	58.3	0.415	1
12937	123789-HxCDD	19408-74-3	31.0	JB	58.3	0.427	1
12937	1234678-HpCDD	35822-46-9	489	B	58.3	0.662	1
12937	OCDD	3268-87-9	1,930	B	117	0.531	1
13233	2378-TCDF-Conf	51207-31-9	16.9	BCQ	11.7	1.56	1
12937	12378-PeCDF	57117-41-6	12.3	JB	58.3	0.548	1
12937	23478-PeCDF	57117-31-4	N.D.		58.3	0.515	1
12937	123478-HxCDF	70648-26-9	29.2	JB	58.3	0.664	1
12937	123678-HxCDF	57117-44-9	27.0	JB	58.3	0.624	1
12937	123789-HxCDF	72918-21-9	16.2	JBQ	58.3	0.765	1
12937	234678-HxCDF	60851-34-5	32.5	JB	58.3	0.522	1
12937	1234678-HpCDF	67562-39-4	98.0	B	58.3	0.264	1
12937	1234789-HpCDF	55673-89-7	8.64	JQ	58.3	0.392	1
12937	OCDF	39001-02-0	63.6	JB	117	0.347	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	65	40 - 135
13C12-2378-TCDF-Conf	65	40 - 135
13C12-12378-PeCDD	75	40 - 135
13C12-123478-HxCDD	85	40 - 135
13C12-123678-HxCDD	81	40 - 135
13C12-123789-HxCDD	76	40 - 135
13C12-1234678-HpCDD	82	40 - 135
13C12-OCDD	86	40 - 135
13C12-12378-PeCDF	82	40 - 135
13C12-23478-PeCDF	80	40 - 135
13C12-123478-HxCDF	78	40 - 135
13C12-123678-HxCDF	83	40 - 135
13C12-234678-HxCDF	95	40 - 135
13C12-123789-HxCDF	80	40 - 135
13C12-1234678-HpCDF	99	40 - 135
13C12-1234789-HpCDF	82	40 - 135
13C12-OCDF	80	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB07-020 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944100
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 10:55 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

07020 SDG#: CGI01-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB07-020 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944100
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 10:55 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

07020 SDG#: CGI01-04

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13233	D/F in Solids 8290-Conf	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/08/2015 16:09	Joseph D Anderson	1
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/07/2015 08:56	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/01/2015 10:15	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15177820002B	06/26/2015 17:33	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB06-010 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944101
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 11:10 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

06010 SDG#: CGI01-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	7.2	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB06-010 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944101
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 11:10 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

06010 SDG#: CGI01-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		**ng/kg**		**ng/kg**	**ng/kg**	
12937	2378-TCDD	1746-01-6	N.D.		10.3	0.694	1
12937	12378-PeCDD	40321-76-4	6.77	JQ	51.3	0.916	1
12937	123478-HxCDD	39227-28-6	9.21	JB	51.3	0.434	1
12937	123678-HxCDD	57653-85-7	26.6	JBQ	51.3	0.461	1
12937	123789-HxCDD	19408-74-3	20.3	JBQ	51.3	0.479	1
12937	1234678-HpCDD	35822-46-9	448	B	51.3	0.573	1
12937	OCDD	3268-87-9	2,300	B	103	0.519	1
13233	2378-TCDF-Conf	51207-31-9	12.7	BCQ	10.3	1.15	1
12937	12378-PeCDF	57117-41-6	14.8	JBQ	51.3	0.383	1
12937	23478-PeCDF	57117-31-4	21.7	JB	51.3	0.392	1
12937	123478-HxCDF	70648-26-9	16.2	JB	51.3	0.509	1
12937	123678-HxCDF	57117-44-9	16.7	JBQ	51.3	0.460	1
12937	123789-HxCDF	72918-21-9	N.D.		51.3	0.673	1
12937	234678-HxCDF	60851-34-5	24.7	JB	51.3	0.492	1
12937	1234678-HpCDF	67562-39-4	99.3	B	51.3	0.219	1
12937	1234789-HpCDF	55673-89-7	8.41	J	51.3	0.390	1
12937	OCDF	39001-02-0	116	B	103	0.316	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDF-Conf	59	40 - 135
13C12-2378-TCDD	60	40 - 135
13C12-12378-PeCDD	72	40 - 135
13C12-123478-HxCDD	78	40 - 135
13C12-123678-HxCDD	77	40 - 135
13C12-123789-HxCDD	72	40 - 135
13C12-1234678-HpCDD	81	40 - 135
13C12-OCDD	90	40 - 135
13C12-12378-PeCDF	79	40 - 135
13C12-23478-PeCDF	74	40 - 135
13C12-123478-HxCDF	79	40 - 135
13C12-123678-HxCDF	87	40 - 135
13C12-234678-HxCDF	81	40 - 135
13C12-123789-HxCDF	73	40 - 135
13C12-1234678-HpCDF	107	40 - 135
13C12-1234789-HpCDF	73	40 - 135
13C12-OCDF	74	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB06-010 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944101
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 11:10 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

06010 SDG#: CGI01-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB06-010 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944101
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 11:10 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

06010 SDG#: CGI01-05

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13233	D/F in Solids 8290-Conf	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/08/2015 17:04	Joseph D Anderson	1
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/07/2015 09:53	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/01/2015 10:15	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15177820002B	06/26/2015 17:33	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB06-020 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944102
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 11:20 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

02006 SDG#: CGI01-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	16.3	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB06-020 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944102
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 11:20 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

02006 SDG#: CGI01-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		**ng/kg**		**ng/kg**	**ng/kg**	
12937	2378-TCDD	1746-01-6	3.84	JQ	11.2	0.846	1
12937	12378-PeCDD	40321-76-4	12.7	JQ	55.8	1.20	1
12937	123478-HxCDD	39227-28-6	17.2	JBQ	55.8	0.577	1
12937	123678-HxCDD	57653-85-7	37.7	JB	55.8	0.610	1
12937	123789-HxCDD	19408-74-3	38.1	JB	55.8	0.642	1
12937	1234678-HpCDD	35822-46-9	772	B	55.8	0.964	1
12937	OCDD	3268-87-9	3,760	B	112	0.619	1
12937	2378-TCDF	51207-31-9	8.43	JQ	11.2	0.901	1
12937	12378-PeCDF	57117-41-6	6.76	JB	55.8	0.346	1
12937	23478-PeCDF	57117-31-4	11.8	JB	55.8	0.342	1
12937	123478-HxCDF	70648-26-9	11.4	JB	55.8	0.583	1
12937	123678-HxCDF	57117-44-9	10.6	JB	55.8	0.503	1
12937	123789-HxCDF	72918-21-9	3.99	JB	55.8	0.670	1
12937	234678-HxCDF	60851-34-5	14.1	JB	55.8	0.453	1
12937	1234678-HpCDF	67562-39-4	73.6	B	55.8	0.194	1
12937	1234789-HpCDF	55673-89-7	7.43	JQ	55.8	0.370	1
12937	OCDF	39001-02-0	91.9	JB	112	0.354	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	62	40 - 135
13C12-12378-PeCDD	71	40 - 135
13C12-123478-HxCDD	84	40 - 135
13C12-123678-HxCDD	82	40 - 135
13C12-123789-HxCDD	75	40 - 135
13C12-1234678-HpCDD	78	40 - 135
13C12-OCDD	86	40 - 135
13C12-2378-TCDF	73	40 - 135
13C12-12378-PeCDF	81	40 - 135
13C12-23478-PeCDF	74	40 - 135
13C12-123478-HxCDF	77	40 - 135
13C12-123678-HxCDF	85	40 - 135
13C12-234678-HxCDF	97	40 - 135
13C12-123789-HxCDF	79	40 - 135
13C12-1234678-HpCDF	108	40 - 135
13C12-1234789-HpCDF	72	40 - 135
13C12-OCDF	70	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB06-020 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944102
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 11:20 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

02006 SDG#: CGI01-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB06-020 Grab Soil
City Of Galveston Incinerator, TX

LL Sample # SW 7944102
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 11:20 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

02006 SDG#: CGI01-06

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/07/2015 10:50	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/01/2015 10:15	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15177820002B	06/26/2015 17:33	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB06-015 Grab Water
City Of Galveston Incinerator, TX

LL Sample # WW 7944103
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 11:35 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

06015 SDG#: CGI01-07

CAT No.	Analysis Name	CAS Number	Result		MRL*	EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		pg/l		pg/l	pg/l	
12936	2378-TCDD	1746-01-6	N.D.		2.11	0.646	1
12936	12378-PeCDD	40321-76-4	N.D.		10.5	0.471	1
12936	123478-HxCDD	39227-28-6	N.D.		10.5	0.279	1
12936	123678-HxCDD	57653-85-7	N.D.		10.5	0.309	1
12936	123789-HxCDD	19408-74-3	N.D.		10.5	0.340	1
12936	1234678-HpCDD	35822-46-9	0.626	JBQ	10.5	0.241	1
12936	OCDD	3268-87-9	1.61	JBQ	21.1	0.338	1
12936	2378-TCDF	51207-31-9	0.632	JQ	2.11	0.494	1
12936	12378-PeCDF	57117-41-6	0.511	JBQ	10.5	0.200	1
12936	23478-PeCDF	57117-31-4	N.D.		10.5	0.184	1
12936	123478-HxCDF	70648-26-9	N.D.		10.5	0.181	1
12936	123678-HxCDF	57117-44-9	0.322	JBQ	10.5	0.172	1
12936	123789-HxCDF	72918-21-9	0.598	JBQ	10.5	0.207	1
12936	234678-HxCDF	60851-34-5	N.D.		10.5	0.171	1
12936	1234678-HpCDF	67562-39-4	0.226	JBQ	10.5	0.0481	1
12936	1234789-HpCDF	55673-89-7	N.D.		10.5	0.0646	1
12936	OCDF	39001-02-0	1.67	JB	21.1	0.319	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	51	40 - 135
13C12-12378-PeCDD	64	40 - 135
13C12-123478-HxCDD	73	40 - 135
13C12-123678-HxCDD	69	40 - 135
13C12-123789-HxCDD	61	40 - 135
13C12-1234678-HpCDD	64	40 - 135
13C12-OCDD	64	40 - 135
13C12-2378-TCDF	57	40 - 135
13C12-12378-PeCDF	68	40 - 135
13C12-23478-PeCDF	68	40 - 135
13C12-123478-HxCDF	73	40 - 135
13C12-123678-HxCDF	73	40 - 135
13C12-234678-HxCDF	76	40 - 135
13C12-123789-HxCDF	74	40 - 135
13C12-1234678-HpCDF	74	40 - 135
13C12-1234789-HpCDF	70	40 - 135
13C12-OCDF	70	40 - 135

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB06-015 Grab Water
City Of Galveston Incinerator, TX

LL Sample # WW 7944103
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 11:35 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

06015 SDG#: CGI01-07

CAT No.	Analysis Name	CAS Number	Result	MRL*	EDL	Dilution Factor
S	*Saturation of detection signal*					

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12936	Dioxins/Furans in Water - 8290	SW-846 8290A Feb 2007 Rev 1	1	15182001	07/02/2015 22:02	Michael A Ziegler	1
10914	Dioxins/Furans in Water - SepF	SW-846 8290A Feb 2007 Rev 1	1	15182001	07/01/2015 08:20	Brett M Weidman	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: INC-MW07-010 Grab Water
City Of Galveston Incinerator, TX

LL Sample # WW 7944104
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 14:30 by LD

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

01007 SDG#: CGI01-08

CAT No.	Analysis Name	CAS Number	Result		MRL*	EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		pg/l		pg/l	pg/l	
12936	2378-TCDD	1746-01-6	N.D.		1.96	0.457	1
12936	12378-PeCDD	40321-76-4	N.D.		9.78	0.269	1
12936	123478-HxCDD	39227-28-6	N.D.		9.78	0.171	1
12936	123678-HxCDD	57653-85-7	N.D.		9.78	0.174	1
12936	123789-HxCDD	19408-74-3	N.D.		9.78	0.181	1
12936	1234678-HpCDD	35822-46-9	1.13	JBQ	9.78	0.154	1
12936	OCDD	3268-87-9	5.94	JB	19.6	0.198	1
12936	2378-TCDF	51207-31-9	N.D.		1.96	0.356	1
12936	12378-PeCDF	57117-41-6	0.385	JBQ	9.78	0.136	1
12936	23478-PeCDF	57117-31-4	0.355	JBQ	9.78	0.131	1
12936	123478-HxCDF	70648-26-9	0.239	JQ	9.78	0.152	1
12936	123678-HxCDF	57117-44-9	0.199	JBQ	9.78	0.128	1
12936	123789-HxCDF	72918-21-9	0.933	JBQ	9.78	0.210	1
12936	234678-HxCDF	60851-34-5	N.D.		9.78	0.141	1
12936	1234678-HpCDF	67562-39-4	0.307	JBQ	9.78	0.0355	1
12936	1234789-HpCDF	55673-89-7	0.206	JBQ	9.78	0.0872	1
12936	OCDF	39001-02-0	0.720	JBQ	19.6	0.319	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	47	40 - 135
13C12-12378-PeCDD	63	40 - 135
13C12-123478-HxCDD	69	40 - 135
13C12-123678-HxCDD	69	40 - 135
13C12-123789-HxCDD	64	40 - 135
13C12-1234678-HpCDD	70	40 - 135
13C12-OCDD	71	40 - 135
13C12-2378-TCDF	54	40 - 135
13C12-12378-PeCDF	69	40 - 135
13C12-23478-PeCDF	64	40 - 135
13C12-123478-HxCDF	67	40 - 135
13C12-123678-HxCDF	78	40 - 135
13C12-234678-HxCDF	71	40 - 135
13C12-123789-HxCDF	58	40 - 135
13C12-1234678-HpCDF	104	40 - 135
13C12-1234789-HpCDF	55	40 - 135
13C12-OCDF	50	40 - 135

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: INC-MW07-010 Grab Water
City Of Galveston Incinerator, TX

LL Sample # WW 7944104
LL Group # 1572229
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 14:30 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/25/2015 09:10
Reported: 08/07/2015 15:00

01007 SDG#: CGI01-08

CAT No.	Analysis Name	CAS Number	Result	MRL*	EDL	Dilution Factor
S	*Saturation of detection signal*					

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12936	Dioxins/Furans in Water - 8290	SW-846 8290A Feb 2007 Rev 1	1	15182001	07/02/2015 22:59	Michael A Ziegler	1
10914	Dioxins/Furans in Water - SepF	SW-846 8290A Feb 2007 Rev 1	1	15182001	07/01/2015 08:20	Brett M Weidman	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: AECOM Group Number: 1572229
Reported: 08/07/2015 15:00

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ**	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 15177820002B	Sample number(s): 7944097-7944102								
Moisture					100		99-101		

Analysis Name	Blank Result	Blank MRL**	Blank EDL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 15182001	Sample number(s): 7944103-7944104								
2378-TCDD	N.D.	2.00	0.482	pg/l	113		67-158		
12378-PeCDD	0.534 J	10.0	0.298	pg/l	106		70-142		
123478-HxCDD	0.711 J	10.0	0.183	pg/l	110		70-164		
123678-HxCDD	N.D.	10.0	0.194	pg/l	111		76-134		
123789-HxCDD	N.D.	10.0	0.205	pg/l	118		64-162		
1234678-HpCDD	0.424 J	10.0	0.174	pg/l	110		70-140		
OCDD	1.10 J	20.0	0.234	pg/l	108		78-144		
2378-TCDF	N.D.	2.00	0.335	pg/l	111		75-158		
12378-PeCDF	0.329 J	10.0	0.137	pg/l	112		80-134		
23478-PeCDF	0.344 J	10.0	0.120	pg/l	112		68-160		
123478-HxCDF	N.D.	10.0	0.131	pg/l	109		72-134		
123678-HxCDF	0.188 J	10.0	0.126	pg/l	110		84-130		
123789-HxCDF	1.16 J	10.0	0.170	pg/l	118		78-130		
234678-HxCDF	0.338 J	10.0	0.130	pg/l	109		70-156		
1234678-HpCDF	0.449 J	10.0	0.0696	pg/l	108		82-122		
1234789-HpCDF	0.144 J	10.0	0.0945	pg/l	107		78-138		
OCDF	0.371 J	20.0	0.281	pg/l	105		63-170		
Batch number: 15182002	Sample number(s): 7944097-7944102								
2378-TCDD	N.D.	1.00	0.0451	ng/kg	113		67-158		
12378-PeCDD	N.D.	5.00	0.0276	ng/kg	104		70-142		
123478-HxCDD	0.0310 J	5.00	0.0188	ng/kg	112		70-164		
123678-HxCDD	0.0264 J	5.00	0.0198	ng/kg	111		76-134		
123789-HxCDD	0.0809 J	5.00	0.0204	ng/kg	115		64-162		
1234678-HpCDD	0.0780 J	5.00	0.0148	ng/kg	108		70-140		
OCDD	0.0963 J	10.0	0.0223	ng/kg	106		78-144		
2378-TCDF	N.D.	1.00	0.0338	ng/kg	115		75-158		
2378-TCDF-Conf	0.320 J	1.00	0.106	ng/kg	115		75-158		
12378-PeCDF	0.0624 J	5.00	0.0139	ng/kg	112		80-134		
23478-PeCDF	0.0272 J	5.00	0.0147	ng/kg	107		68-160		
123478-HxCDF	0.0396 J	5.00	0.0165	ng/kg	106		72-134		
123678-HxCDF	0.0302 J	5.00	0.0147	ng/kg	107		84-130		
123789-HxCDF	0.142 J	5.00	0.0191	ng/kg	116		78-130		
234678-HxCDF	0.0465 J	5.00	0.0159	ng/kg	106		70-156		
1234678-HpCDF	0.0489 J	5.00	0.00640	ng/kg	102		82-122		
1234789-HpCDF	N.D.	5.00	0.0127	ng/kg	107		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: AECOM Group Number: 1572229
Reported: 08/07/2015 15:00

Analysis Name	Blank Result	Blank MRL**	Blank EDL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.0890 J	10.0	0.0363	ng/kg	105		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 15177820002B	Sample number(s): 7944097-7944102 BKG: P932834								
Moisture						51.8	59.1	13*	5
Batch number: 15182001	Sample number(s): 7944103-7944104 UNSPK: P946014								
2378-TCDD	111	118	67-158	4	25				
12378-PeCDD	107	107	70-142	2	25				
123478-HxCDD	109	111	70-164	0	25				
123678-HxCDD	112	111	76-134	2	25				
123789-HxCDD	113	116	64-162	1	25				
1234678-HpCDD	107	108	70-140	0	25				
OCDD	108	107	78-144	3	25				
2378-TCDF	111	115	75-158	3	25				
12378-PeCDF	111	110	80-134	2	25				
23478-PeCDF	109	110	68-160	0	25				
123478-HxCDF	107	107	72-134	2	25				
123678-HxCDF	110	109	84-130	2	25				
123789-HxCDF	119	118	78-130	2	25				
234678-HxCDF	109	105	70-156	5	25				
1234678-HpCDF	104	106	82-122	0	25				
1234789-HpCDF	105	106	78-138	1	25				
OCDF	106	106	63-170	2	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Dioxins/Furans in Water - 8290
Batch number: 15182001

	13C12-2378-TCDD	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD
7944103	51	64	73	69	61	64
7944104	47	63	69	69	64	70
Blank	60	75	77	78	74	75
MS	55	67	73	73	69	76
MSD	54	68	79	76	70	76
OPR	54	70	72	73	60	69
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF
7944103	64	57	68	68	73	73
7944104	71	54	69	64	67	78

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: AECOM
Reported: 08/07/2015 15:00

Group Number: 1572229

Surrogate Quality Control

Blank	68	70	80	82	84	88
MS	82	62	74	71	74	80
MSD	81	60	75	71	77	83
OPR	68	60	76	72	87	90
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

	13C12-234678-HxCDF	13C12-123789-HxCDF	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF
7944103	76	74	74	70	70
7944104	71	58	104	55	50
Blank	85	82	88	76	69
MS	82	77	99	73	73
MSD	87	79	101	73	70
OPR	72	67	95	83	83
Limits:	40-135	40-135	40-135	40-135	40-135

Analysis Name: Dioxins/Furans in Solids-8290
Batch number: 15182002

	13C12-2378-TCDD	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD
7944097	66	69	78	77	73	79
7944098	64	71	85	82	75	77
7944099	59	67	78	76	70	72
7944100	65	75	85	81	76	82
7944101	60	72	78	77	72	81
7944102	62	71	84	82	75	78
Blank	50	63	69	67	62	71
OPR	52	64	73	72	68	73
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF
7944097	85		79	74	82	90
7944098	81		78	74	77	84
7944099	76	68	76	67	76	83
7944100	86		82	80	78	83
7944101	90		79	74	79	87
7944102	86	73	81	74	77	85
Blank	78	55	69	62	63	74
OPR	79	54	68	61	68	81
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

	13C12-234678-HxCDF	13C12-123789-HxCDF	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-2378-TCDF-Conf
7944097	85	74	98	76	77	66
7944098	94	80	97	75	73	64
7944099	86	70	96	67	66	
7944100	95	80	99	82	80	65
7944101	81	73	107	73	74	59
7944102	97	79	108	72	70	
Blank	66	69	99	61	60	49
OPR	71	58	105	58	58	54
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

378737

eurofins

Lancaster Laboratories Environmental

Acct. # 20742 For Eurofins Lancaster Laboratories Environmental use only Group # ~~774409~~ 1572229 Sample # 774097-104

th 6/25/15 (3)

Instructions on reverse side correspond with circled numbers.

(1) Client Information

Client: URS/AECOM	Acct. #:
Project Name/#: City of Galveston Incinerator	PWSID #:
Project Manager: Carol Lovett	P.O. #:
Sampler: Lisa DeGrazia	Quote #:
Name of state where samples were collected: Texas	

(2) Sample Identification	Collected Date	Collected Time	(3) Grab	Composite	(4) Matrix: Soil ☒	Sediment ☐	Water: Ground ☒	Potable ☐	Surface ☐	NPDES ☐	Other:	Total # of Containers	(5) Analysis Requested / Preservation Codes: SW8290A/6M	SW8290A	(6) Remarks
INC-SB08-010	6/24/15	1005	X		X							1	1		
INC-SB08-020	6/24/15	1020	X		X							1	1		
INC-SB07-010	6/24/15	1035	X		X							1	1		
INC-SB07-020	6/24/15	1055	X		X							1	1		
INC-SB06-010	6/24/15	1110	X		X							1	1		
INC-SB06-020	6/24/15	1120	X		X							1	1		
~~INC-SB06-015~~	~~6/24/15~~	~~1135~~	~~X~~		~~X~~							~~1~~	~~1~~		
INC-SB06-015	6/24/15	1135	X				X					2		2	
INC-MW07-010	6/24/15	1430	X				X					2		2	

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

(7) Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: _____

E-mail address: CAROL.LOVETT@AECOM.COM

(8) Data Package Options (circle if required)
Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
NYSDEC Category A or B MA MCP CT RCP

(9)

Relinquished by	Date	Time	Received by	Date	Time
[signature]	6/24/15	1600			
			[signature]	6.26.15	9:10

EDD Required? Yes No
If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx X Other Courier

Temperature upon receipt 0.6 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300
The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 0315

eurofins | Lancaster Laboratories Environmental	Document Title: TRRP-13 Laboratory Review Checklist: COC/Sample Identification		
	Eurofins Document Reference: 1-P-QM-FOR-9008052	Revision: 5	Historical Reference: Form 3647
	Effective date: Apr 9, 2014	Status: Effective	

TRRP-13 Laboratory Review Checklist: COC/Sample Identification

Project Name: City Of Galveston Incinerator

ELLE Sample #(s): 7944097-104

SDG #: CGI01

Reviewer Name: Christine Knoedler

LRC Date: 06/25/15

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
R1	**OI**	**CHAIN-OF-CUSTODY (COC)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	x				
		2) Were all departures from standard conditions described in an exception report?			x		
R2	**OI**	**SAMPLE IDENTIFICATION**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	x				

[1]Items identified by the letter "R" must be included in the laboratory data package.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 81477

Group Number(s): 1572229

Client: URS

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	06/25/2015 9:10
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	TX		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Timothy Cubberley (6520) at 13:25 on 06/25/2015

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	0.6	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

TRRP-13 Laboratory Review Checklist: COC/Sample Identification

Project Name: City Of Galveston Incinerator

ELLE Sample #(s): 7944097-104

SDG #: CGI01

Reviewer Name: Christine Knoedler

LRC Date: 06/25/15

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
R1	OI	**CHAIN-OF-CUSTODY (COC)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	x				
		2) Were all departures from standard conditions described in an exception report?			x		
R2	OI	**SAMPLE IDENTIFICATION**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	x				

[1]Items identified by the letter "R" must be included in the laboratory data package.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

Dioxins/Furans by HRMS Data

eurofins | Lancaster Laboratories Environmental

FORM 01A
CDD/CDF SAMPLE DATA SUMMARY
HIGH RESOLUTION

SDG No.: CGI01

Matrix: WATER
Sample (vol): 1000 (ml)
Water Sample Prep: SEPF
Concentration Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL)
GC Column: DB5MS

Instrument ID: DF17280
% Solid/Lipids: N/A
ID: 0.25 (mm)

Lab Sample ID: BLK182001
Lab File ID: 15JUL02-06
Date Received: N/A
Date Extracted: 07/01/2015 08:20
Date Analyzed: 07/02/2015 21:05
Dilution Factor: 1.0

Concentration Units: ng/kg

Analyte	Selected Ions	Peak RT	Ion Ratio	Concentration	Qual.	EDL
2378-TCDF	304/306	28.48	0.55 *		U	0.334601
2378-TCDD	320/322	29.60	0.89		U	0.482377
12378-PeCDF	340/342	34.73	2.22 *	0.329238	JQ	0.137362
23478-PeCDF	340/342	36.00	1.33	0.343803	J	0.119837
12378-PeCDD	356/358	36.45	1.49	0.53358	J	0.298312
123478-HxCDF	374/376	39.86	0.75 *		U	0.130801
123678-HxCDF	374/376	39.97	17.43 *	0.188058	JQ	0.126001
234678-HxCDF	374/376	40.73	1.98 *	0.337857	JQ	0.130345
123478-HxCDD	390/392	40.95	0.58 *	0.711295	JQ	0.183286
123678-HxCDD	390/392	41.08	0.63 *		U	0.194456
123789-HxCDD	390/392	41.40	1.95 *		U	0.205389
123789-HxCDF	374/376	41.77	1.96 *	1.163454	JQ	0.169581
1234678-HpCDF	408/410	43.56	0.74 *	0.448623	JQ	0.069594
1234678-HpCDD	424/426	44.77	0.41 *	0.424459	JQ	0.174147
1234789-HpCDF	408/410	45.32	0.52 *	0.144327	JQ	0.09448
OCDD	458/460	47.86	0.66 *	1.098419	JQ	0.233956
OCDF	442/444	48.05	0.61 *	0.371034	JQ	0.280602

Labeled Compounds	Selected Ions	Peak RT	Ion Ratio	Ion Ratio Limits	% REC	Recovery Limits
13C12-1278-TCDD (CRS)	332/334	30.01	0.83	0.65 - 0.90	59	35 - 197
13C12-2378-TCDF	316/318	28.46	0.81	0.65 - 0.90	70	40 - 135
13C12-2378-TCDD	332/334	29.56	0.82	0.65 - 0.90	60	40 - 135
13C12-12378-PeCDF	352/354	34.68	1.58	1.32 - 1.79	80	40 - 135
13C12-23478-PeCDF	352/354	36.00	1.60	1.32 - 1.79	82	40 - 135
13C12-12378-PeCDD	368/370	36.41	1.61	1.32 - 1.79	75	40 - 135
13C12-123478-HxCDF	384/386	39.84	0.54	0.43 - 0.60	84	40 - 135
13C12-123678-HxCDF	384/386	39.99	0.54	0.43 - 0.60	88	40 - 135
13C12-234678-HxCDF	384/386	40.71	0.53	0.43 - 0.60	85	40 - 135
13C12-123478-HxCDD	402/404	40.92	1.27	1.05 - 1.44	77	40 - 135
13C12-123678-HxCDD	402/404	41.03	1.28	1.05 - 1.44	78	40 - 135
13C12-123789-HxCDD	402/404	41.35	1.27	1.05 - 1.44	74	40 - 135
13C12-123789-HxCDF	384/386	41.74	0.55	0.43 - 0.60	82	40 - 135
13C12-1234678-HpCDF	418/420	43.54	0.46	0.37 - 0.52	88	40 - 135
13C12-1234678-HpCDD	436/438	44.76	1.11	0.88 - 1.21	75	40 - 135
13C12-1234789-HpCDF	418/420	45.32	0.47	0.37 - 0.52	76	40 - 135
13C12-OCDD	470/472	47.86	0.90	0.76 - 1.03	68	40 - 135

Abbreviations:
B = Detected in Method Blank
U = Undetected
J = Estimated concentration between EDL and LOQ
C = Concentration confirmed on second column
Q = Estimated Maximum Possible Concentration
E = Exceeds calibration range
F = Interference is present
N = See comment in Case Narrative
S = The detector is saturated
* = Outside QC Limits

eurofins | Lancaster Laboratories Environmental

FORM 01A
CDD/CDF SAMPLE DATA SUMMARY
HIGH RESOLUTION

SDG No.: CGI01

Matrix: WATER
Sample (vol): 1000 (ml)
Water Sample Prep: SEPF
Concentration Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL)
GC Column: DB5MS

Instrument ID: DF17280
% Solid/Lipids: N/A
ID: 0.25 (mm)

Lab Sample ID: BLK182001
Lab File ID: 15JUL02-06
Date Received: N/A
Date Extracted: 07/01/2015 08:20
Date Analyzed: 07/02/2015 21:05
Dilution Factor: 1.0

Concentration Units: ng/kg

Labeled Compounds	Selected Ions	Peak RT	Ion Ratio	Ion Ratio Limits	% REC	Recovery Limits
13C12-OCDF	454/456	48.03	0.92	0.76 - 1.03	69	40 - 135

Abbreviations:
B = Detected in Method Blank
U = Undetected
J = Estimated concentration between EDL and LOQ
C = Concentration confirmed on second column
Q = Estimated Maximum Possible Concentration
E = Exceeds calibration range
F = Interference is present
N = See comment in Case Narrative
S = The detector is saturated
* = Outside QC Limits

eurofins | Lancaster Laboratories Environmental

FORM 01A
CDD/CDF SAMPLE DATA SUMMARY
HIGH RESOLUTION

SDG No.: CGI01

Matrix: SOIL
Sample (wt): 10.0 (g)
Water Sample Prep: N/A
Concentration Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL)
GC Column: DB5MS

Instrument ID: DF17280
% Solid/Lipids: 100.0
ID: 0.25 (mm)

Lab Sample ID: BLK182002
Lab File ID: 15JUL06-07
Date Received: N/A
Date Extracted: 07/01/2015 10:15
Date Analyzed: 07/06/2015 16:35
Dilution Factor: 1.0

Concentration Units: ng/kg

Analyte	Selected Ions	Peak RT	Ion Ratio	Concentration	Qual.	EDL
2378-TCDF	304/306	28.43	0.12 *		U	0.0338
2378-TCDD	320/322	29.52	1.91 *		U	0.0451
12378-PeCDF	340/342	34.70	1.19 *	0.0624	JQ	0.0139
23478-PeCDF	340/342	35.99	0.66 *	0.0272	JQ	0.0147
12378-PeCDD	356/358	36.37	16.51 *		U	0.0276
123478-HxCDF	374/376	39.83	1.03 *	0.0396	JQ	0.0165
123678-HxCDF	374/376	40.00	3.52 *	0.0302	JQ	0.0147
234678-HxCDF	374/376	40.72	1.44 *	0.0465	JQ	0.0159
123478-HxCDD	390/392	40.92	1.24	0.0310	J	0.0188
123678-HxCDD	390/392	41.02	0.30 *	0.0264	JQ	0.0198
123789-HxCDD	390/392	41.36	2.31 *	0.0809	JQ	0.0204
123789-HxCDF	374/376	41.76	1.14	0.142	J	0.0191
1234678-HpCDF	408/410	43.54	0.32 *	0.0489	JQ	0.00640
1234678-HpCDD	424/426	44.73	1.30 *	0.0780	JQ	0.0148
1234789-HpCDF	408/410	45.32	0.01 *		U	0.0127
OCDD	458/460	47.85	0.97	0.0963	J	0.0223
OCDF	442/444	47.98	2.04 *	0.0890	JQ	0.0363

Labeled Compounds	Selected Ions	Peak RT	Ion Ratio	Ion Ratio Limits	% REC	Recovery Limits
13C12-1278-TCDD (CRS)	332/334	29.98	0.80	0.65 - 0.90	61	35 - 197
13C12-2378-TCDF	316/318	28.43	0.79	0.65 - 0.90	55	40 - 135
13C12-2378-TCDD	332/334	29.53	0.79	0.65 - 0.90	50	40 - 135
13C12-12378-PeCDF	352/354	34.65	1.61	1.32 - 1.79	69	40 - 135
13C12-23478-PeCDF	352/354	35.97	1.61	1.32 - 1.79	62	40 - 135
13C12-12378-PeCDD	368/370	36.40	1.61	1.32 - 1.79	63	40 - 135
13C12-123478-HxCDF	384/386	39.81	0.53	0.43 - 0.60	63	40 - 135
13C12-123678-HxCDF	384/386	39.96	0.54	0.43 - 0.60	74	40 - 135
13C12-234678-HxCDF	384/386	40.69	0.54	0.43 - 0.60	66	40 - 135
13C12-123478-HxCDD	402/404	40.89	1.27	1.05 - 1.44	69	40 - 135
13C12-123678-HxCDD	402/404	41.00	1.31	1.05 - 1.44	67	40 - 135
13C12-123789-HxCDD	402/404	41.34	1.27	1.05 - 1.44	62	40 - 135
13C12-123789-HxCDF	384/386	41.73	0.55	0.43 - 0.60	69	40 - 135
13C12-1234678-HpCDF	418/420	43.51	0.45	0.37 - 0.52	99	40 - 135
13C12-1234678-HpCDD	436/438	44.73	1.06	0.88 - 1.21	71	40 - 135
13C12-1234789-HpCDF	418/420	45.29	0.47	0.37 - 0.52	61	40 - 135
13C12-OCDD	470/472	47.83	0.90	0.76 - 1.03	78	40 - 135

Abbreviations:
B = Detected in Method Blank
U = Undetected
J = Estimated concentration between EDL and LOQ
C = Concentration confirmed on second column
Q = Estimated Maximum Possible Concentration
E = Exceeds calibration range
F = Interference is present
N = See comment in Case Narrative
S = The detector is saturated
* = Outside QC Limits

eurofins | Lancaster Laboratories Environmental

FORM 01A
CDD/CDF SAMPLE DATA SUMMARY
HIGH RESOLUTION

SDG No.: CGI01

Matrix: SOIL
Sample (wt): 10.0 (g)
Water Sample Prep: N/A
Concentration Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL)
GC Column: DB5MS

Instrument ID: DF17280
% Solid/Lipids: 100.0
ID: 0.25 (mm)

Lab Sample ID: BLK182002
Lab File ID: 15JUL06-07
Date Received: N/A
Date Extracted: 07/01/2015 10:15
Date Analyzed: 07/06/2015 16:35
Dilution Factor: 1.0

Concentration Units: ng/kg

Labeled Compounds	Selected Ions	Peak RT	Ion Ratio	Ion Ratio Limits	% REC	Recovery Limits
13C12-OCDF	454/456	48.00	0.91	0.76 - 1.03	60	40 - 135

Abbreviations:
B = Detected in Method Blank
U = Undetected
J = Estimated concentration between EDL and LOQ
C = Concentration confirmed on second column
Q = Estimated Maximum Possible Concentration
E = Exceeds calibration range
F = Interference is present
N = See comment in Case Narrative
S = The detector is saturated
* = Outside QC Limits

eurofins | Lancaster Laboratories Environmental

FORM 01C
CDD/CDF SECOND COLUMN CONFIRMATION
HIGH RESOLUTION

SDG No.: CGI01

Matrix: SOIL
Sample (wt): 10.0 (g)
Water Sample Prep: N/A
Concentration Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL)
GC Column: SP2331

Instrument ID: DF17611
% Solid/Lipids: 100.0
ID: 0.25 (mm)

Lab Sample ID: BLK182002
Lab File ID: 15JUL07-06
Date Received: N/A
Date Extracted: 07/01/2015 10:15
Date Analyzed: 07/08/2015 12:28
Dilution Factor: 1.0

Concentration Units: ng/kg

Analyte	Selected Ions	Peak RT	Ion Ratio	Concentration	Qual.	EDL
2378-TCDF	304/306	29.54	0.38 *	0.320	JQ	0.106

Labeled Compounds	Selected Ions	Peak RT	Ion Ratio	Ion Ratio Limits	% REC	Recovery Limits
13C12-2378-TCDF	316/318	29.52	0.78	0.65 - 0.89	49	40 - 135

Abbreviations:
B = Detected in Method Blank
U = Undetected
J = Estimated concentration between EDL and LOQ
C = Concentration confirmed on second column
Q = Estimated Maximum Possible Concentration
E = Exceeds calibration range
F = Interference is present
N = See comment in Case Narrative
S = The detector is saturated
* = Outside QC Limits

eurofins | Lancaster Laboratories Environmental

FORM 03A
CDD/CDF OPR SUMMARY
HIGH RESOLUTION

SDG No.: CGI01

Matrix: WATER
Sample vol: 1000 (ml)
Water Sample PREP: SEPF
Concentrated Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL) %SOLID/LIPIDS: N/A
GC Column: DB5MS ID: 0.25 (mm)
Method Reference: SW-846 8290A Feb 2007 Rev 1

Instrument ID: DF17280
Lab Sample ID: OPR182001
Lab File ID: 15JUL02-04
Date Received: N/A
Date Extracted: 07/01/2015 08:20
Date Analyzed: 07/02/2015 19:12
Dilution Factor: 1.0

Concentration Units: ng/kg

Spike Analyte	Spike Added	Amount Recovered	Percent Recovery	QC Limits
2378-TCDF	200	221.245103	111	75 - 158
2378-TCDD	200	226.762091	113	67 - 158
12378-PeCDF	1000	1123.567597	112	80 - 134
23478-PeCDF	1000	1115.130421	112	68 - 160
12378-PeCDD	1000	1055.042395	106	70 - 142
123478-HxCDF	1000	1087.147067	109	72 - 134
123678-HxCDF	1000	1101.333438	110	84 - 130
234678-HxCDF	1000	1090.541725	109	70 - 156
123478-HxCDD	1000	1101.333259	110	70 - 164
123678-HxCDD	1000	1112.404296	111	76 - 134
123789-HxCDD	1000	1182.736492	118	64 - 162
123789-HxCDF	1000	1177.682037	118	78 - 130
1234678-HpCDF	1000	1075.2357	108	82 - 122
1234678-HpCDD	1000	1101.529265	110	70 - 140
1234789-HpCDF	1000	1066.321399	107	78 - 138
OCDD	2000	2165.596588	108	78 - 144
OCDF	2000	2106.620428	105	63 - 170

* Outside Quality Control (QC) limits.

eurofins | Lancaster Laboratories Environmental

FORM 03A
CDD/CDF OPR SUMMARY
HIGH RESOLUTION

SDG No.: CGI01

Matrix: SOIL
Sample wt: 10.0 (g)
Water Sample PREP: N/A
Concentrated Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL) %SOLID/LIPIDS: 100.0
GC Column: DB5MS ID: 0.25 (mm)
Method Reference: SW-846 8290A Feb 2007 Rev 1

Instrument ID: DF17280
Lab Sample ID: OPR182002
Lab File ID: 15JUL06-04
Date Received: N/A
Date Extracted: 07/01/2015 10:15
Date Analyzed: 07/06/2015 13:45
Dilution Factor: 1.0

Concentration Units: ng/kg

Spike Analyte	Spike Added	Amount Recovered	Percent Recovery	QC Limits
2378-TCDF	20.0	23.1	115	75 - 158
2378-TCDD	20.0	22.7	113	67 - 158
12378-PeCDF	100	112	112	80 - 134
23478-PeCDF	100	107	107	68 - 160
12378-PeCDD	100	104	104	70 - 142
123478-HxCDF	100	106	106	72 - 134
123678-HxCDF	100	107	107	84 - 130
234678-HxCDF	100	106	106	70 - 156
123478-HxCDD	100	112	112	70 - 164
123678-HxCDD	100	111	111	76 - 134
123789-HxCDD	100	115	115	64 - 162
123789-HxCDF	100	116	116	78 - 130
1234678-HpCDF	100	102	102	82 - 122
1234678-HpCDD	100	108	108	70 - 140
1234789-HpCDF	100	107	107	78 - 138
OCDD	200	213	106	78 - 144
OCDF	200	210	105	63 - 170

* Outside Quality Control (QC) limits.

Moisture Data

eurofins | Lancaster Laboratories Environmental

CLIENT: AECOM
SDG: CGI01

MOISTURE

SAMPLE NUMBERS:

Sample #	Sample Code
7944097	08010
7944098	08020
7944099	07010
7944100	07020
7944101	06010
7944102	02006

COMMENTS:

Method defined actions are taken for any failed matrix QC.

Laboratory Compliance Quality Control

Analysis Name	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 15177820002B	Sample number(s): 7944097-7944102				
Moisture	100		99-101		

Sample Matrix Quality Control

Analysis Name	BKG Conc	DUP Conc	RPD	RPD Max
Batch number: 15177820002B	Sample number(s): 7944097-7944102			
Moisture	51.8	59.1	13*	5

* - Outside of specification
(1) - The result for one or both determinations was less than five times the LOQ.

Moisture Data Report

Batch #: 15177820002

Sample ID	Batch ID	Analysis#	Tare Wt	Sample Wt	Dry Wt	%Moisture	Analysis Date (Emp#)	Verified Date (Emp#)
7944097	B	00111	1.1005	7.9946	7.7695	16.58	6/26/15 (1201/SWF)	6/28/15 (236/CW)
7944098	B	00111	1.0775	7.0584	6.8275	18.54	6/26/15 (1201/SWF)	6/28/15 (236/CW)
7944099	B	00111	1.1040	6.8487	6.8889	15.53	6/26/15 (1201/SWF)	6/28/15 (236/CW)
7944100	B	00111	1.0994	8.0368	7.1958	24.14	6/26/15 (1201/SWF)	6/28/15 (236/CW)
7944101	B	00111	1.0916	6.8619	7.4589	7.21	6/26/15 (1201/SWF)	6/28/15 (236/CW)
7944102	B	00111	1.0725	8.3169	8.0313	16.33	6/26/15 (1201/SWF)	6/28/15 (236/CW)
P932834BKG	B	00111	1.1015	5.4765	3.7439	51.75	6/26/15 (1201/SWF)	6/28/15 (236/CW)
P932834DUP	B	00111	1.1112	5.0497	3.1780	59.07	6/26/15 (1201/SWF)	6/28/15 (236/CW)
LCS 89.5% Std.		00111	1.0760	5.0292	1.6076	89.43	6/26/15 (1201/SWF)	6/28/15 (236/CW)

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 · 717-656-2300 · Fax: 717-656-2681 · www.LancasterLabs.com

TRRP-13 Data Package

Prepared for:

AECOM
PO Box 203970
Austin TX 78720-1088

Project: City Of Galveston Incinerator
Groundwater Samples
Collected on 06/24/15

SDG# CGI02

GROUP	SAMPLE NUMBERS
1572623	7946013-7946016

PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521
TX Cert. # T104704194-13-10
AZ Cert. # AZ0780

Through our technical processes and second person review of data, we have established that our data/deliverables are in compliance with the methods and project requirements unless otherwise noted or previously resolved with the client.

Authorized by: Dana M Kauffman **Date: 08/11/2015**

Dana M. Kauffman
Manager

Any questions or concerns you might have regarding this data package should be directed to your client representative, Angela Miller at (717) 556-7260.

2425 New Holland Pike, Lancaster, PA 17601 · 717-656-2300 · Fax: 717-656-2681 · www.LancasterLabs.com

Table of Contents for SDG# CGI02

1. Sample Reference List 3
2. TRRP-13 Signature Pages and Laboratory Review Checklists 4
3. Preservation Data 9
4. Methodology Summary/Reference 10
5. Analysis Reports / Field Chain of Custody 11
6. Sample Receipt Documentation Log 26
7. Dioxins/Furans by HRMS Data 30

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Reference List for SDG Number CGI02
with a Data Package Type of TRRP-13

30553 - AECOM

Project: City Of Galveston Incinerator

Lab Sample Number	Lab Sample Code	Client Sample Description
7946013	GALV1	INC-MW01-011 Grab Groundwater
7946014	GALV3	INC-MW03-013 Grab Groundwater
7946015	GALV3	INC-MW03-013MS Grab Groundwater
7946016	GALV3	INC-MW03-013MSD Grab Groundwater

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

TRRP-13 Laboratory Data Package Signature Page for Field COC, Sample Identification, and Analysis Reports	SDG # : CGI02
LLI Sample #(s): 7946013-7946016	Project Name: City Of Galveston Incinerator

This section of the data package consists of:

Signature Page (this page)

Laboratory Review Check List (LRC) including:

a) COC/Sample Identification, and

b) Exception Report (for every "No" or "Not Reviewed (NR)" item in laboratory review checklist).

R1 Field Chain-of-Custody Documentation;

R2 Sample Identification Cross-reference;

R3 Analysis Reports for each environmental sample that includes:

a) Items consistent with NELAC 5.13 or ISO/IEC 71025 Section 5.10,

b) Dilution factors,

c) Preparation methods, and

d) If required for the project, tentatively identified compounds (TICs).

Release Statement:

I am responsible for the release of this section of the data package. This section of the laboratory data package has been reviewed and is complete. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies, observed by this laboratory as having the potential to affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

Brandy Barclay
Name (printed)

Senior Administrator
Official Title (printed)

Brandy Barclay
Signature

8-11-15
Date

3681.04

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Data Package Signature Page	SDG #: CGI02
Department or Fraction: Dioxins/Furans HRMS	Project Name: City Of Galveston Incinerator
LLI Sample #(s): 7946013-7946016	Batch #(s): 15182001

This Data Package consists of:

Signature Page (this page)
Quality Control Reference List
Laboratory Review Check List (LRC) including:
a) Reportable Data,
b) Supporting Data, and
c) Exception Report (for every "No" or "Not Reviewed (NR)" item in laboratory review checklist).

R4 Surrogate Summary Forms including:
a) Calculated recovery (%R), and
b) Surrogate QC limits.

R5 Summary Forms for Blank Samples;

R6 Summary Forms for Laboratory Control Samples (LCSs) including:
a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c) LCS QC limits.

R7 Summary Forms for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
a) MS/MSD spiking amounts,
b) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
c) Calculated %Rs and relative percent differences (RPDs), and
d) MS/MSD QC limits

R8 Laboratory Analytical Duplicate (if applicable) Recovery and Precision:
a) The amount of analyte measured in the duplicate,
b) The calculated RPD, and
c) The laboratory's QC limits for analytical duplicates.

R9 List of Method Quantitation Limits (MQLs) and detectability check samples (DCS) results for each analyte for each method and matrix.

R10 Other problems or anomalies

Release Statement:

I am responsible for the release of this section of the laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for the methods, analytes, and matrices reported in this section of the data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory for this section of the data package have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Jessica R. Baron	Jessica Baron	Specialist	08/11/2015
Name (printed)	Signature	Official Title (printed)	Date

Lancaster Laboratories Environmental

Quality Control Reference List
Specialty Services Group

CLIENT: AECOM
SDG: CGI02

Fraction: Dioxins/Furans by HRMS

Analysis	Batch Number	Sample Number	Analysis Date
Dioxins/Furans in Water - 8290	15182001	BLK182001	07/02/2015 21:05:00
		OPR182001	07/02/2015 19:12:00
		7946013	07/02/2015 23:56:00
		7946014 UNSPK	07/03/2015 00:53:00
		7946015 MS	07/03/2015 01:50:00
		7946016 MSD	07/03/2015 02:46:00

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Review Checklist: Reportable Data	SDG #: CGI02
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	LLI Sample #(s): 7946013-7946016
LRC Date: 08/11/2015	Batch #(s): 15182001

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
R2	**OI**	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	**OI**	**ANALYSIS REPORTS**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results <MQL, were all other raw values bracketed by calibration standards?			X		
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TIC's reported?			X		
R4	**O**	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	**OI**	**SUMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations <MQL?	X				
R6	**OI**	**LABORATORY CONTROL SAMPLES (LCS)**					
		1) Were all Chemicals of Concern (COC) included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCS's analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COC's at the MDL used to calculate the SDL's?	X				
		6) Was the LCSD RPD within QC limits?			X		
R7	**OI**	**MATRIX SPIKE (MS) AND MATRIX DUPLICATE (MSD) DATA**					
		1) Were the project/method-specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	**OI**	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	**OI**	**METHOD QUANTITATION LIMITS (MQLS)**					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	**OI**	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				

[1]Items identified by the letter "R" must be included in the laboratory data package.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Review Checklist: Supporting Data	SDG #: CGI02
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	LLI Sample #(s): 7946013-7946016
LRC Date: 08/11/2015	Batch #(s): 15182001

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
S1	**OI**	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factor (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	**OI**	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICV AND CCV)**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB<MDL?			X		
S3	**O**	**MASS SPECTRAL TUNING**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Was ion abundance data within the method-required QC limits?	X				
S4	**OI**	**INTERNAL STANDARDS (IS)**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	**OI**	**RAW DATA (NELAC Section 5.5.10)**					
		1) Were the raw data (e.g., chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	**O**	**DUAL COLUMN CONFIRMATION**					
		Did dual column confirmation results meet the method-required QC?	X				
S7	**O**	**TENTATIVELY IDENTIFIED COMPOUNDS (TICS)**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS**					
		Were percent recoveries within method QC limits?			X		
S9	**I**	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND MSA**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	**OI**	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?			X		
S11	**OI**	**PROFICIENCY TEST REPORTS**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	**OI**	**STANDARDS DOCUMENTATION**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	**OI**	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		Are the procedures for compound/analyte identification documented?	X				
S14	**OI**	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	**OI**	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated where applicable?	X				
S16	**OI**	**LABORATORY STANDARD OPERATING PROCEDURES (SOPS)**					
		Are laboratory SOPs current and on file for each method performed?	X				

[1]Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

eurofins | Lancaster Laboratories Environmental

Sample pH Log

SDG: CGI02

LLI Sample Number	Bottle Code	Actual pH	Exp. pH	pH Check Code	Adj. pH	Adjusted Date	Adjusted Time	Preservative Added	Preservative Lot #	LLI Supplied Bottle?	Sulfide Present?	Corrective Substance	CS Lot #	Res. Cl. Present?	Corrective Substance	CS Lot #
7946013	243A	7	7-9	PC	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA
7946013	243B	7	7-9	PC	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA
7946014	243A	8	7-9	PC	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA
7946014	243B	8	7-9	PC	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA
7946015	243A	8	7-9	PC	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA
7946015	243B	7	7-9	PC	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA
7946016	243A	8	7-9	PC	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA
7946016	243B	8	7-9	PC	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA

Check Code Key
PK = Original container checked - pH is within the correct range. (No preservative was added)
PA = Original container checked - pH adjusted to correct range. (Preservative was added)
PV = Volatile container checked
PC = pH checked (unpreserved container)
SPK = Subsampled from an original container. Original container checked - pH is within correct range
SPA = Subsampled from an original container. Subsample container checked - pH adjusted to correct range.
SPC = Subsampled from an original container. pH checked (unpreserved container).
SUP = Subsampled from original container. Unable to be preserved due to the matrix of the sample.
UP = Unable to preserve due to matrix of the sample.
NA = Not applicable

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 · 717-656-2300 Fax: 717-656-2681 · www.lancasterlabs.com

10914 Dioxins/Furans in Water - SepF

Aqueous samples are extracted with methylene chloride in a separatory funnel. The extract is concentrated for cleanup.or instrumental analysis.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8290A, Polychlorinated Dibenzo-p-Dioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High Resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS)

12936 Dioxins/Furans in Water - 8290

The method provides procedures for the detection and quantitative measurement of polychlorinated dibenzo-p-dioxins (tetra- through octachlorinated homologues; PCDDs), and polychlorinated dibenzofurans (tetra- through octachlorinated homologues; PCDFs) in a variety of environmental matrices and at part-per-trillion (ppt) to part-per-quadrillion. The method requires the use of high-resolution gas chromatography and high-resolution mass spectrometry (HRGC/HRMS) on purified sample extracts.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8290A, Polychlorinated Dibenzo-p-Dioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High Resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS)

Analysis Reports / Field Chain of Custody

ANALYTICAL RESULTS

Prepared by:	Prepared for:
Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601	AECOM PO Box 203970 Austin TX 78720-1088

August 07, 2015

Project: City Of Galveston Incinerator

Submittal Date: 06/26/2015
Group Number: 1572623
SDG: CGI02
PO Number: 63188
State of Sample Origin: TX

Client Sample Description	Lancaster Labs (LL) #
INC-MW01-011 Grab Groundwater	7946013
INC-MW03-013 Grab Groundwater	7946014
INC-MW03-013MS Grab Groundwater	7946015
INC-MW03-013MSD Grab Groundwater	7946016

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO	AECOM	Attn: Carol Lovett
ELECTRONIC COPY TO	Data Package Group	

Respectfully Submitted,

Angela M. Miller

Angela M. Miller
Specialist

(717) 556-7260

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-MW01-011 Grab Groundwater
Galveston, TX

LL Sample # WW 7946013
LL Group # 1572623
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 16:20 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/26/2015 09:00
Reported: 08/07/2015 15:00

GALV1 SDG#: CGI02-01

CAT No.	Analysis Name	CAS Number	Result		MRL*	EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		pg/l		pg/l	pg/l	
12936	2378-TCDD	1746-01-6	N.D.		1.95	0.370	1
12936	12378-PeCDD	40321-76-4	0.258	JBQ	9.76	0.249	1
12936	123478-HxCDD	39227-28-6	N.D.		9.76	0.170	1
12936	123678-HxCDD	57653-85-7	N.D.		9.76	0.175	1
12936	123789-HxCDD	19408-74-3	N.D.		9.76	0.177	1
12936	1234678-HpCDD	35822-46-9	0.306	JBQ	9.76	0.158	1
12936	OCDD	3268-87-9	4.55	JB	19.5	0.165	1
12936	2378-TCDF	51207-31-9	N.D.		1.95	0.255	1
12936	12378-PeCDF	57117-41-6	0.699	JBQ	9.76	0.110	1
12936	23478-PeCDF	57117-31-4	0.269	JBQ	9.76	0.104	1
12936	123478-HxCDF	70648-26-9	0.301	J	9.76	0.123	1
12936	123678-HxCDF	57117-44-9	0.212	JBQ	9.76	0.118	1
12936	123789-HxCDF	72918-21-9	0.361	JBQ	9.76	0.151	1
12936	234678-HxCDF	60851-34-5	0.237	JBQ	9.76	0.108	1
12936	1234678-HpCDF	67562-39-4	0.261	JBQ	9.76	0.0682	1
12936	1234789-HpCDF	55673-89-7	N.D.		9.76	0.105	1
12936	OCDF	39001-02-0	0.579	JBQ	19.5	0.200	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	54	40 - 135
13C12-12378-PeCDD	66	40 - 135
13C12-123478-HxCDD	77	40 - 135
13C12-123678-HxCDD	77	40 - 135
13C12-123789-HxCDD	71	40 - 135
13C12-1234678-HpCDD	77	40 - 135
13C12-OCDD	82	40 - 135
13C12-2378-TCDF	63	40 - 135
13C12-12378-PeCDF	72	40 - 135
13C12-23478-PeCDF	71	40 - 135
13C12-123478-HxCDF	79	40 - 135
13C12-123678-HxCDF	85	40 - 135
13C12-234678-HxCDF	90	40 - 135
13C12-123789-HxCDF	79	40 - 135
13C12-1234678-HpCDF	98	40 - 135
13C12-1234789-HpCDF	79	40 - 135
13C12-OCDF	78	40 - 135

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-MW01-011 Grab Groundwater
Galveston, TX

LL Sample # WW 7946013
LL Group # 1572623
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 16:20 by LD

Submitted: 06/26/2015 09:00
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

GALV1 SDG#: CGI02-01

CAT No.	Analysis Name	CAS Number	Result	MRL*	EDL	Dilution Factor
S	*Saturation of detection signal*					

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.4-10.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12936	Dioxins/Furans in Water - 8290	SW-846 8290A Feb 2007 Rev 1	1	15182001	07/02/2015 23:56	Michael A Ziegler	1
10914	Dioxins/Furans in Water - SepF	SW-846 8290A Feb 2007 Rev 1	1	15182001	07/01/2015 08:20	Brett M Weidman	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-MW03-013 Grab Groundwater
Galveston, TX

LL Sample # WW 7946014
LL Group # 1572623
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 18:10 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/26/2015 09:00
Reported: 08/07/2015 15:00

GALV3 SDG#: CGI02-02BKG

CAT No.	Analysis Name	CAS Number	Result		MRL*	EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		pg/l		pg/l	pg/l	
12936	2378-TCDD	1746-01-6	N.D.		1.94	0.489	1
12936	12378-PeCDD	40321-76-4	0.692	JBQ	9.70	0.320	1
12936	123478-HxCDD	39227-28-6	N.D.		9.70	0.201	1
12936	123678-HxCDD	57653-85-7	N.D.		9.70	0.210	1
12936	123789-HxCDD	19408-74-3	N.D.		9.70	0.216	1
12936	1234678-HpCDD	35822-46-9	0.745	JB	9.70	0.200	1
12936	OCDD	3268-87-9	1.83	JBQ	19.4	0.238	1
12936	2378-TCDF	51207-31-9	N.D.		1.94	0.360	1
12936	12378-PeCDF	57117-41-6	0.573	JBQ	9.70	0.148	1
12936	23478-PeCDF	57117-31-4	0.321	JBQ	9.70	0.142	1
12936	123478-HxCDF	70648-26-9	N.D.		9.70	0.150	1
12936	123678-HxCDF	57117-44-9	0.177	JBQ	9.70	0.146	1
12936	123789-HxCDF	72918-21-9	0.746	JBQ	9.70	0.183	1
12936	234678-HxCDF	60851-34-5	0.224	JBQ	9.70	0.127	1
12936	1234678-HpCDF	67562-39-4	0.216	JBQ	9.70	0.0622	1
12936	1234789-HpCDF	55673-89-7	N.D.		9.70	0.0981	1
12936	OCDF	39001-02-0	N.D.		19.4	0.278	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	57	40 - 135
13C12-12378-PeCDD	72	40 - 135
13C12-123478-HxCDD	86	40 - 135
13C12-123678-HxCDD	82	40 - 135
13C12-123789-HxCDD	78	40 - 135
13C12-1234678-HpCDD	80	40 - 135
13C12-OCDD	83	40 - 135
13C12-2378-TCDF	66	40 - 135
13C12-12378-PeCDF	79	40 - 135
13C12-23478-PeCDF	78	40 - 135
13C12-123478-HxCDF	84	40 - 135
13C12-123678-HxCDF	90	40 - 135
13C12-234678-HxCDF	98	40 - 135
13C12-123789-HxCDF	84	40 - 135
13C12-1234678-HpCDF	103	40 - 135
13C12-1234789-HpCDF	82	40 - 135
13C12-OCDF	78	40 - 135

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: INC-MW03-013 Grab Groundwater
Galveston, TX

LL Sample # WW 7946014
LL Group # 1572623
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 18:10 by LD

Submitted: 06/26/2015 09:00
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

GALV3 SDG#: CGI02-02BKG

CAT No.	Analysis Name	CAS Number	Result	MRL*	EDL	Dilution Factor
S	*Saturation of detection signal*					

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.4-10.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12936	Dioxins/Furans in Water - 8290	SW-846 8290A Feb 2007 Rev 1	1	15182001	07/03/2015 00:53	Michael A Ziegler	1
10914	Dioxins/Furans in Water - SepF	SW-846 8290A Feb 2007 Rev 1	1	15182001	07/01/2015 08:20	Brett M Weidman	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-MW03-013MS Grab Groundwater
Galveston, TX

LL Sample # WW 7946015
LL Group # 1572623
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 18:10 by LD

Submitted: 06/26/2015 09:00
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

GALV3 SDG#: CGI02-02MS

CAT No.	Analysis Name	CAS Number	Result		MRL*	EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		pg/l		pg/l	pg/l	
12936	2378-TCDD	1746-01-6	222		2.01	0.634	1
12936	12378-PeCDD	40321-76-4	1,080	B	10.1	0.616	1
12936	123478-HxCDD	39227-28-6	1,100	B	10.1	0.466	1
12936	123678-HxCDD	57653-85-7	1,120		10.1	0.488	1
12936	123789-HxCDD	19408-74-3	1,140		10.1	0.528	1
12936	1234678-HpCDD	35822-46-9	1,070	B	10.1	0.605	1
12936	OCDD	3268-87-9	2,170	B	20.1	0.536	1
12936	2378-TCDF	51207-31-9	222		2.01	0.572	1
12936	12378-PeCDF	57117-41-6	1,110	B	10.1	0.282	1
12936	23478-PeCDF	57117-31-4	1,100	B	10.1	0.265	1
12936	123478-HxCDF	70648-26-9	1,080		10.1	0.634	1
12936	123678-HxCDF	57117-44-9	1,100	B	10.1	0.572	1
12936	123789-HxCDF	72918-21-9	1,200	B	10.1	0.759	1
12936	234678-HxCDF	60851-34-5	1,100	B	10.1	0.549	1
12936	1234678-HpCDF	67562-39-4	1,050	B	10.1	0.446	1
12936	1234789-HpCDF	55673-89-7	1,060	B	10.1	0.732	1
12936	OCDF	39001-02-0	2,140	B	20.1	0.622	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	55	40 - 135
13C12-12378-PeCDD	67	40 - 135
13C12-123478-HxCDD	73	40 - 135
13C12-123678-HxCDD	73	40 - 135
13C12-123789-HxCDD	69	40 - 135
13C12-1234678-HpCDD	76	40 - 135
13C12-OCDD	82	40 - 135
13C12-2378-TCDF	62	40 - 135
13C12-12378-PeCDF	74	40 - 135
13C12-23478-PeCDF	71	40 - 135
13C12-123478-HxCDF	74	40 - 135
13C12-123678-HxCDF	80	40 - 135
13C12-234678-HxCDF	82	40 - 135
13C12-123789-HxCDF	77	40 - 135
13C12-1234678-HpCDF	99	40 - 135
13C12-1234789-HpCDF	73	40 - 135
13C12-OCDF	73	40 - 135

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: INC-MW03-013MS Grab Groundwater
Galveston, TX

LL Sample # WW 7946015
LL Group # 1572623
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 18:10 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/26/2015 09:00
Reported: 08/07/2015 15:00

GALV3 SDG#: CGI02-02MS

CAT No.	Analysis Name	CAS Number	Result	MRL*	EDL	Dilution Factor
S	*Saturation of detection signal*					

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.4-10.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12936	Dioxins/Furans in Water - 8290	SW-846 8290A Feb 2007 Rev 1	1	15182001	07/03/2015 01:50	Michael A Ziegler	1
10914	Dioxins/Furans in Water - SepF	SW-846 8290A Feb 2007 Rev 1	1	15182001	07/01/2015 08:20	Brett M Weidman	1

*=This limit was used in the evaluation of the final result

Sample Description: INC-MW03-013MSD Grab Groundwater
Galveston, TX

LL Sample # WW 7946016
LL Group # 1572623
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 18:10 by LD

Submitted: 06/26/2015 09:00
Reported: 08/07/2015 15:00

AECOM
PO Box 203970
Austin TX 78720-1088

GALV3 SDG#: CGI02-02MSD

CAT No.	Analysis Name	CAS Number	Result		MRL*	EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		pg/l		pg/l	pg/l	
12936	2378-TCDD	1746-01-6	233		1.98	0.657	1
12936	12378-PeCDD	40321-76-4	1,060	B	9.90	0.739	1
12936	123478-HxCDD	39227-28-6	1,100	B	9.90	0.590	1
12936	123678-HxCDD	57653-85-7	1,100		9.90	0.629	1
12936	123789-HxCDD	19408-74-3	1,150		9.90	0.634	1
12936	1234678-HpCDD	35822-46-9	1,070	B	9.90	0.743	1
12936	OCDD	3268-87-9	2,120	B	19.8	0.556	1
12936	2378-TCDF	51207-31-9	229		1.98	0.579	1
12936	12378-PeCDF	57117-41-6	1,090	B	9.90	0.321	1
12936	23478-PeCDF	57117-31-4	1,090	B	9.90	0.318	1
12936	123478-HxCDF	70648-26-9	1,060		9.90	0.707	1
12936	123678-HxCDF	57117-44-9	1,080	B	9.90	0.637	1
12936	123789-HxCDF	72918-21-9	1,170	B	9.90	0.768	1
12936	234678-HxCDF	60851-34-5	1,040	B	9.90	0.591	1
12936	1234678-HpCDF	67562-39-4	1,050	B	9.90	0.430	1
12936	1234789-HpCDF	55673-89-7	1,050	B	9.90	0.788	1
12936	OCDF	39001-02-0	2,100	B	19.8	0.531	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	54	40 - 135
13C12-12378-PeCDD	68	40 - 135
13C12-123478-HxCDD	79	40 - 135
13C12-123678-HxCDD	76	40 - 135
13C12-123789-HxCDD	70	40 - 135
13C12-1234678-HpCDD	76	40 - 135
13C12-OCDD	81	40 - 135
13C12-2378-TCDF	60	40 - 135
13C12-12378-PeCDF	75	40 - 135
13C12-23478-PeCDF	71	40 - 135
13C12-123478-HxCDF	77	40 - 135
13C12-123678-HxCDF	83	40 - 135
13C12-234678-HxCDF	87	40 - 135
13C12-123789-HxCDF	79	40 - 135
13C12-1234678-HpCDF	101	40 - 135
13C12-1234789-HpCDF	73	40 - 135
13C12-OCDF	70	40 - 135

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: INC-MW03-013MSD Grab Groundwater Galveston, TX

LL Sample # WW 7946016
LL Group # 1572623
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 18:10 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/26/2015 09:00
Reported: 08/07/2015 15:00

GALV3 SDG#: CGI02-02MSD

CAT No.	Analysis Name	CAS Number	Result	MRL*	EDL	Dilution Factor
S	*Saturation of detection signal*					

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.4-10.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12936	Dioxins/Furans in Water - 8290	SW-846 8290A Feb 2007 Rev 1	1	15182001	07/03/2015 02:46	Michael A Ziegler	1
10914	Dioxins/Furans in Water - SepF	SW-846 8290A Feb 2007 Rev 1	1	15182001	07/01/2015 08:20	Brett M Weidman	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: AECOM Group Number: 1572623
Reported: 08/07/2015 15:00

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MRL**	Blank EDL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 15182001	Sample number(s): 7946013-7946016									
2378-TCDD	N.D.		2.00	0.482	pg/l	113		67-158		
12378-PeCDD	0.534	J	10.0	0.298	pg/l	106		70-142		
123478-HxCDD	0.711	J	10.0	0.183	pg/l	110		70-164		
123678-HxCDD	N.D.		10.0	0.194	pg/l	111		76-134		
123789-HxCDD	N.D.		10.0	0.205	pg/l	118		64-162		
1234678-HpCDD	0.424	J	10.0	0.174	pg/l	110		70-140		
OCDD	1.10	J	20.0	0.234	pg/l	108		78-144		
2378-TCDF	N.D.		2.00	0.335	pg/l	111		75-158		
12378-PeCDF	0.329	J	10.0	0.137	pg/l	112		80-134		
23478-PeCDF	0.344	J	10.0	0.120	pg/l	112		68-160		
123478-HxCDF	N.D.		10.0	0.131	pg/l	109		72-134		
123678-HxCDF	0.188	J	10.0	0.126	pg/l	110		84-130		
123789-HxCDF	1.16	J	10.0	0.170	pg/l	118		78-130		
234678-HxCDF	0.338	J	10.0	0.130	pg/l	109		70-156		
1234678-HpCDF	0.449	J	10.0	0.0696	pg/l	108		82-122		
1234789-HpCDF	0.144	J	10.0	0.0945	pg/l	107		78-138		
OCDF	0.371	J	20.0	0.281	pg/l	105		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 15182001	Sample number(s): 7946013-7946016 UNSPK: 7946014								
2378-TCDD	111	118	67-158	4	25				
12378-PeCDD	107	107	70-142	2	25				
123478-HxCDD	109	111	70-164	0	25				
123678-HxCDD	112	111	76-134	2	25				
123789-HxCDD	113	116	64-162	1	25				
1234678-HpCDD	107	108	70-140	0	25				
OCDD	108	107	78-144	3	25				
2378-TCDF	111	115	75-158	3	25				
12378-PeCDF	111	110	80-134	2	25				
23478-PeCDF	109	110	68-160	0	25				
123478-HxCDF	107	107	72-134	2	25				
123678-HxCDF	110	109	84-130	2	25				
123789-HxCDF	119	118	78-130	2	25				
234678-HxCDF	109	105	70-156	5	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: AECOM Group Number: 1572623
Reported: 08/07/2015 15:00

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1234678-HpCDF	104	106	82-122	0	25				
1234789-HpCDF	105	106	78-138	1	25				
OCDF	106	106	63-170	2	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Dioxins/Furans in Water - 8290
Batch number: 15182001

	13C12-2378-TCDD	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD
7946013	54	66	77	77	71	77
7946014	57	72	86	82	78	80
7946015	55	67	73	73	69	76
7946016	54	68	79	76	70	76
Blank	60	75	77	78	74	75
MS	55	67	73	73	69	76
MSD	54	68	79	76	70	76
OPR	54	70	72	73	60	69
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF
7946013	82	63	72	71	79	85
7946014	83	66	79	78	84	90
7946015	82	62	74	71	74	80
7946016	81	60	75	71	77	83
Blank	68	70	80	82	84	88
MS	82	62	74	71	74	80
MSD	81	60	75	71	77	83
OPR	68	60	76	72	87	90
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

	13C12-234678-HxCDF	13C12-123789-HxCDF	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF
7946013	90	79	98	79	78
7946014	98	84	103	82	78
7946015	82	77	99	73	73
7946016	87	79	101	73	70
Blank	85	82	88	76	69
MS	82	77	99	73	73
MSD	87	79	101	73	70
OPR	72	67	95	83	83
Limits:	40-135	40-135	40-135	40-135	40-135

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the MRL.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

378738

eurofins

Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only
Acct. # 20742 Group # 1572623 Sample # 7946013-16
Instructions on reverse side correspond with circled numbers.

1 Client Information

Client: URS/AECOM
Acct. #:
Project Name/#: City of Galveston Incinerator
PWSID #:
Project Manager: Carol Lovett
P.O. #:
Sampler: Lisa DeGrazia
Quote #:
Name of state where samples were collected: Texas

4 Matrix: Sediment ☐ Soil ☐ Ground ☒ Potable ☐ Surface ☐ NPDES ☐ Water Other: ____

5 Analysis Requested — Preservation Codes

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Sediment	Ground	Surface	Potable	NPDES	Other	Total # of Containers	5382904										6 Remarks
INC-MW01-011	6/24/15	1620	X			X					2	2										
INC-MW03-013	6/24/15	1810	X			X					6	6										MS/MSD

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: ____

E-mail address: CAROL.LOVETT@AECOM.COM

8 Data Package Options (circle if required)
Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
NYSDEC Category A or B MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	6/25/15	0900			
			[signature]	6/26/15	900

EDD Required? Yes No
If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 8.5 °C

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 82078

Group Number(s): 1572623

Client: URS

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	06/26/2015 9:00
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	TX		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Brandy Barclay (2299) at 11:41 on 06/26/2015

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?	Samples Collected Same Day as Receipt?
1	DT146	8.3	DT	Wet	Y	Loose	Y	N

Elevated Temperature Details

All Temperatures in °C

Cooler #	Thermometer ID	Top Left Temp	Top Right Temp	Bottom Left Temp	Bottom Right Temp	Center Temp	Factors Contributing to Elevated Temp	Comments
1	8013596-IR	7.4	10.5	7.5	8.8	8.5	very little ice in cooler	

2425 New Holland Pike
Lancaster, PA 17601-5994
T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

TRRP-13 Laboratory Review Checklist: COC/Sample Identification

Project Name: City of Galveston Incinerator

ELLE Sample #(s): 7946013-16

SDG #: CGI02

Reviewer Name: Katherine Metzger

LRC Date: 6/26/15

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
R1	**OI**	**CHAIN-OF-CUSTODY (COC)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			
		2) Were all departures from standard conditions described in an exception report?	X				
R2	**OI**	**SAMPLE IDENTIFICATION**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				

[1]Items identified by the letter "R" must be included in the laboratory data package.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

eurofins | Lancaster Laboratories Environmental	Document Title: TRRP-13 Laboratory Review Checklist: Exception Reports		
	Eurofins Document Reference: 1-P-QM-FOR-9008051	Revision: 4	Historical Reference: Form 3646
	Effective date: Apr 9, 2014	Status: Effective	

TRRP-13 Laboratory Review Checklist: Exception Reports	SDG #: CGI02
Department or Fraction:	Project Name: City of Galveston Incinerator
Reviewer Name: Katherine Metzger	ELLE Sample #(s): 7946013-16
LRC Date: 6/26/15	Batch #(s):

ER # [1]	DESCRIPTION
	all samples high temp upon receipt

[1]ER#=Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC).

Issued by Dept. 4038 Management

Angela Miller

From: Bisson, Debra <debra.bisson@aecom.com>
Sent: Friday, June 26, 2015 4:28 PM
To: Angela Miller
Cc: Lovett, Carol
Subject: Re: High Temp-Galveston project

Talked with Carol and we both agree that you should go ahead and have the sample analyzed. Dioxins are very stable and the sample is just marginally outside of the temp range.

Sent from my iPhone

> On Jun 26, 2015, at 2:59 PM, Angela Miller <AngelaMiller@eurofinsUS.com> wrote:
>
> Debra,
>
> Can you please assist with the below?
>
> Thank you,
> Angela
>
> Angela Miller
> Specialist
>
> Eurofins Lancaster Laboratories Environmental, LLC
> 2425 New Holland Pike
> Lancaster, PA 17601
> USA
> Phone: +1 717-556-7260
>
> www.LancasterLabsEnv.com
>
> Look for Eurofins Lancaster Laboratories Environmental at these upcoming conferences and industry events.
> For the July 4th holiday, the laboratory will be closed on July 3, 2015.
> Please contact us prior to submitting short holding time samples over the holiday so we can ensure personnel will be available. Staff will be present to receive morning shipments on July 3rd, but lab couriers will not be available for pickup or delivery. Commercial carriers will NOT be delivering on July 4th.
>
>
> -----Original Message-----
> From: Angela Miller
> Sent: Friday, June 26, 2015 3:56 PM
> To: 'carol.lovett@aecom.com'
> Subject: High Temp-Galveston project
>
> Carol,
>
> We received the samples listed on the attached COC and the temperature of the temperature blank bottle was 8.3°C. Please let me know if you would like for us to proceed with the testing.

Dioxins/Furans by HRMS Data

eurofins | Lancaster Laboratories Environmental

FORM 01A
CDD/CDF SAMPLE DATA SUMMARY
HIGH RESOLUTION

SDG No.: CGI02

Matrix: WATER
Sample (vol): 1000 (ml)
Water Sample Prep: SEPF
Concentration Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL)
GC Column: DB5MS

Instrument ID: DF17280
% Solid/Lipids: N/A
ID: 0.25 (mm)

Lab Sample ID: BLK182001
Lab File ID: 15JUL02-06
Date Received: N/A
Date Extracted: 07/01/2015 08:20
Date Analyzed: 07/02/2015 21:05
Dilution Factor: 1.0

Concentration Units: pg/l

Analyte	Selected Ions	Peak RT	Ion Ratio	Concentration	Qual.	EDL
2378-TCDF	304/306	28.48	0.55 *		U	0.335
2378-TCDD	320/322	29.60	0.89		U	0.482
12378-PeCDF	340/342	34.73	2.22 *	0.329	JQ	0.137
23478-PeCDF	340/342	36.00	1.33	0.344	J	0.120
12378-PeCDD	356/358	36.45	1.49	0.534	J	0.298
123478-HxCDF	374/376	39.86	0.75 *		U	0.131
123678-HxCDF	374/376	39.97	17.43 *	0.188	JQ	0.126
234678-HxCDF	374/376	40.73	1.98 *	0.338	JQ	0.130
123478-HxCDD	390/392	40.95	0.58 *	0.711	JQ	0.183
123678-HxCDD	390/392	41.08	0.63 *		U	0.194
123789-HxCDD	390/392	41.40	1.95 *		U	0.205
123789-HxCDF	374/376	41.77	1.96 *	1.16	JQ	0.170
1234678-HpCDF	408/410	43.56	0.74 *	0.449	JQ	0.0696
1234678-HpCDD	424/426	44.77	0.41 *	0.424	JQ	0.174
1234789-HpCDF	408/410	45.32	0.52 *	0.144	JQ	0.0945
OCDD	458/460	47.86	0.66 *	1.10	JQ	0.234
OCDF	442/444	48.05	0.61 *	0.371	JQ	0.281

Labeled Compounds	Selected Ions	Peak RT	Ion Ratio	Ion Ratio Limits	% REC	Recovery Limits
13C12-1278-TCDD (CRS)	332/334	30.01	0.83	0.65 - 0.90	59	35 - 197
13C12-2378-TCDF	316/318	28.46	0.81	0.65 - 0.90	70	40 - 135
13C12-2378-TCDD	332/334	29.56	0.82	0.65 - 0.90	60	40 - 135
13C12-12378-PeCDF	352/354	34.68	1.58	1.32 - 1.79	80	40 - 135
13C12-23478-PeCDF	352/354	36.00	1.60	1.32 - 1.79	82	40 - 135
13C12-12378-PeCDD	368/370	36.41	1.61	1.32 - 1.79	75	40 - 135
13C12-123478-HxCDF	384/386	39.84	0.54	0.43 - 0.60	84	40 - 135
13C12-123678-HxCDF	384/386	39.99	0.54	0.43 - 0.60	88	40 - 135
13C12-234678-HxCDF	384/386	40.71	0.53	0.43 - 0.60	85	40 - 135
13C12-123478-HxCDD	402/404	40.92	1.27	1.05 - 1.44	77	40 - 135
13C12-123678-HxCDD	402/404	41.03	1.28	1.05 - 1.44	78	40 - 135
13C12-123789-HxCDD	402/404	41.35	1.27	1.05 - 1.44	74	40 - 135
13C12-123789-HxCDF	384/386	41.74	0.55	0.43 - 0.60	82	40 - 135
13C12-1234678-HpCDF	418/420	43.54	0.46	0.37 - 0.52	88	40 - 135
13C12-1234678-HpCDD	436/438	44.76	1.11	0.88 - 1.21	75	40 - 135
13C12-1234789-HpCDF	418/420	45.32	0.47	0.37 - 0.52	76	40 - 135
13C12-OCDD	470/472	47.86	0.90	0.76 - 1.03	68	40 - 135

Abbreviations:
B = Detected in Method Blank
U = Undetected
J = Estimated concentration between EDL and LOQ
C = Concentration confirmed on second column
Q = Estimated Maximum Possible Concentration
E = Exceeds calibration range
F = Interference is present
N = See comment in Case Narrative
S = The detector is saturated
* = Outside QC Limits

eurofins | Lancaster Laboratories Environmental

FORM 01A
CDD/CDF SAMPLE DATA SUMMARY
HIGH RESOLUTION

SDG No.: CGI02

Matrix: WATER
Sample (vol): 1000 (ml)
Water Sample Prep: SEPF
Concentration Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL)
GC Column: DB5MS

Instrument ID: DF17280
% Solid/Lipids: N/A
ID: 0.25 (mm)

Lab Sample ID: BLK182001
Lab File ID: 15JUL02-06
Date Received: N/A
Date Extracted: 07/01/2015 08:20
Date Analyzed: 07/02/2015 21:05
Dilution Factor: 1.0

Concentration Units: pg/l

Labeled Compounds	Selected Ions	Peak RT	Ion Ratio	Ion Ratio Limits	% REC	Recovery Limits
13C12-OCDF	454/456	48.03	0.92	0.76 - 1.03	69	40 - 135

Abbreviations:
B = Detected in Method Blank
U = Undetected
J = Estimated concentration between EDL and LOQ
C = Concentration confirmed on second column
Q = Estimated Maximum Possible Concentration
E = Exceeds calibration range
F = Interference is present
N = See comment in Case Narrative
S = The detector is saturated
* = Outside QC Limits

eurofins | Lancaster Laboratories Environmental

FORM 03A
CDD/CDF OPR SUMMARY
HIGH RESOLUTION

SDG No.: CGI02

Matrix: WATER
Sample vol: 1000 (ml)
Water Sample PREP: SEPF
Concentrated Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL) %SOLID/LIPIDS: N/A
GC Column: DB5MS ID: 0.25 (mm)
Method Reference: SW-846 8290A Feb 2007 Rev 1

Instrument ID: DF17280
Lab Sample ID: OPR182001
Lab File ID: 15JUL02-04
Date Received: N/A
Date Extracted: 07/01/2015 08:20
Date Analyzed: 07/02/2015 19:12
Dilution Factor: 1.0

Concentration Units: pg/l

Spike Analyte	Spike Added	Amount Recovered	Percent Recovery	QC Limits
2378-TCDF	200	221	111	75 - 158
2378-TCDD	200	227	113	67 - 158
12378-PeCDF	1000	1120	112	80 - 134
23478-PeCDF	1000	1120	112	68 - 160
12378-PeCDD	1000	1060	106	70 - 142
123478-HxCDF	1000	1090	109	72 - 134
123678-HxCDF	1000	1100	110	84 - 130
234678-HxCDF	1000	1090	109	70 - 156
123478-HxCDD	1000	1100	110	70 - 164
123678-HxCDD	1000	1110	111	76 - 134
123789-HxCDD	1000	1180	118	64 - 162
123789-HxCDF	1000	1180	118	78 - 130
1234678-HpCDF	1000	1080	108	82 - 122
1234678-HpCDD	1000	1100	110	70 - 140
1234789-HpCDF	1000	1070	107	78 - 138
OCDD	2000	2170	108	78 - 144
OCDF	2000	2110	105	63 - 170

* Outside Quality Control (QC) limits.

eurofins | Lancaster Laboratories Environmental

FORM 03B
CDD/CDF MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY
HIGH RESOLUTION

SDG No.: CGI02

Matrix: WATER
Sample vol: 1030 (ml)
Water Sample PREP: SEPF
Concentrated Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL) %SOLID/LIPIDS: N/A
GC Column: DB5MS ID: 0.25 (mm)
Method Reference: SW-846 8290A Feb 2007 Rev 1

Instrument ID: DF17280
Lab Sample ID: 7946014
Lab File ID: 15JUL02-10
Date Received: 06/26/2015 09:00
Date Extracted: 07/01/2015 08:20
Date Analyzed: 07/03/2015 00:53
Dilution Factor: 1.0

MS Lab File ID: 15JUL02-11 MS Lab Sample ID: 7946015MS
MSD Lab File ID: 15JUL02-12 MSD Lab Sample ID: 7946016MSD

Concentration Units: pg/l

Spike Analyte	Spike Amount	Bkg Amount	MS Amount	MS %REC	MSD Amount	MSD %REC	%REC Limits	RPD	RPD Limit
2378-TCDF	201	0	222	111	229	115	75 - 158	3	25
2378-TCDD	201	0	222	111	233	118	67 - 158	4	25
12378-PeCDF	1010	0.573	1110	111	1090	110	80 - 134	2	25
23478-PeCDF	1010	0.321	1100	109	1090	110	68 - 160	0	25
12378-PeCDD	1010	0.692	1080	107	1060	107	70 - 142	2	25
123478-HxCDF	1010	0	1080	107	1060	107	72 - 134	2	25
123678-HxCDF	1010	0.177	1100	110	1080	109	84 - 130	2	25
234678-HxCDF	1010	0.224	1100	109	1040	105	70 - 156	5	25
123478-HxCDD	1010	0	1100	109	1100	111	70 - 164	0	25
123678-HxCDD	1010	0	1120	112	1100	111	76 - 134	2	25
123789-HxCDD	1010	0	1140	113	1150	116	64 - 162	1	25
123789-HxCDF	1010	0.746	1200	119	1170	118	78 - 130	2	25
1234678-HpCDF	1010	0.216	1050	104	1050	106	82 - 122	0	25
1234678-HpCDD	1010	0.745	1070	107	1070	108	70 - 140	0	25
1234789-HpCDF	1010	0	1060	105	1050	106	78 - 138	1	25
OCDD	2010	1.83	2170	108	2120	107	78 - 144	3	25
OCDF	2010	0	2140	106	2100	106	63 - 170	2	25

* Outside Quality Control (QC) limits.

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 · 717-656-2300 · Fax: 717-656-2681 · www.LancasterLabs.com

TRRP-13 Data Package

Prepared for:

AECOM
PO Box 203970
Austin TX 78720-1088

Project: City Of Galveston Incinerator
Groundwater and Soil Samples
Collected on 06/24/15-06/25/15

SDG# CGI03

GROUP	SAMPLE NUMBERS
1572798	7947194-7947213

PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521
TX Cert. # T104704194-13-10
AZ Cert. # AZ0780

Through our technical processes and second person review of data, we have established that our data/deliverables are in compliance with the methods and project requirements unless otherwise noted or previously resolved with the client.

Authorized by: Dana M Kauffman **Date: 08/11/2015**

Dana M. Kauffman
Manager

Any questions or concerns you might have regarding this data package should be directed to your client representative, Angela Miller at (717) 556-7260.

2425 New Holland Pike, Lancaster, PA 17601 · 717-656-2300 · Fax: 717-656-2681 · www.LancasterLabs.com

Table of Contents for SDG# CGI03

1. Sample Reference List 3
2. TRRP-13 Signature Pages and Laboratory Review Checklists 4
3. Preservation Data 10
4. Methodology Summary/Reference 11
5. Analysis Reports / Field Chain of Custody 12
6. Sample Receipt Documentation Log 99
7. Dioxins/Furans by HRMS Data 102
8. Moisture Data 115

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Reference List for SDG Number CGI03
with a Data Package Type of TRRP-13

30553 - AECOM

Project: City Of Galveston Incinerator

Lab Sample Number	Lab Sample Code	Client Sample Description
7947194	M1010	INC-MW01-010 Grab Groundwater
7947195	B5010	INC-SB05-010 Grab Soil
7947196	B5020	INC-SB05-020 Grab Soil
7947197	B5021	INC-SB05-021 Grab Soil
7947198	B1010	INC-SB01-010 Grab Soil
7947199	B1-11	INC-SB01-011 Grab Soil
7947200	B1-20	INC-SB01-020 Grab Soil
7947201	-B410	INC-SB04-010 Grab Soil
7947202	-B420	INC-SB04-020 Grab Soil
7947203	-B210	INC-SB02-010 Grab Soil
7947204	-B220	INC-SB02-020 Grab Soil
7947205	-B213	INC-SB03-013 Grab Soil
7947206	-B213	INC-SB03-013MS Grab Soil
7947207	-B213	INC-SB03-013MSD Grab Soil
7947208	B-220	INC-SB03-020 Grab Soil
7947209	1010B	INC-SB10-010 Grab Soil
7947210	1020B	INC-SB10-020 Grab Soil
7947211	B910-	INC-SB09-010 Grab Soil
7947212	B920-	INC-SB09-020 Grab Soil
7947213	B915-	INC-SB09-015 Grab Groundwater

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

TRRP-13 Laboratory Data Package Signature Page for Field COC, Sample Identification, and Analysis Reports	SDG # : CGI03
LLI Sample #(s): 7947194-7947213	Project Name: City Of Galveston Incinerator

This section of the data package consists of:

Signature Page (this page)

Laboratory Review Check List (LRC) including:

a) COC/Sample Identification, and

b) Exception Report (for every "No" or "Not Reviewed (NR)" item in laboratory review checklist).

R1 Field Chain-of-Custody Documentation;

R2 Sample Identification Cross-reference;

R3 Analysis Reports for each environmental sample that includes:

a) Items consistent with NELAC 5.13 or ISO/IEC 71025 Section 5.10,

b) Dilution factors,

c) Preparation methods, and

d) If required for the project, tentatively identified compounds (TICs).

Release Statement:

I am responsible for the release of this section of the data package. This section of the laboratory data package has been reviewed and is complete. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies, observed by this laboratory as having the potential to affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

Brandy Barclay
Name (printed)

Senior Administrator
Official Title (printed)

Brandy Barclay
Signature

8-11-15
Date

3681.04

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Data Package Signature Page	SDG #: CGI03
Department or Fraction: Dioxins/Furans HRMS	Project Name: City Of Galveston Incinerator
LLI Sample #(s): 7947194-7947213	Batch #(s): 15182001, 15182002, 15183004

This Data Package consists of:

Signature Page (this page)
Quality Control Reference List
Laboratory Review Check List (LRC) including:
a) Reportable Data,
b) Supporting Data, and
c) Exception Report (for every "No" or "Not Reviewed (NR)" item in laboratory review checklist).

R4 Surrogate Summary Forms including:
a) Calculated recovery (%R), and
b) Surrogate QC limits.

R5 Summary Forms for Blank Samples;

R6 Summary Forms for Laboratory Control Samples (LCSs) including:
a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c) LCS QC limits.

R7 Summary Forms for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
a) MS/MSD spiking amounts,
b) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
c) Calculated %Rs and relative percent differences (RPDs), and
d) MS/MSD QC limits

R8 Laboratory Analytical Duplicate (if applicable) Recovery and Precision:
a) The amount of analyte measured in the duplicate,
b) The calculated RPD, and
c) The laboratory's QC limits for analytical duplicates.

R9 List of Method Quantitation Limits (MQLs) and detectability check samples (DCS) results for each analyte for each method and matrix.

R10 Other problems or anomalies

Release Statement:

I am responsible for the release of this section of the laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for the methods, analytes, and matrices reported in this section of the data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory for this section of the data package have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Jessica R. Baron	Jessica R Baron	Specialist	08/11/2015
Name (printed)	Signature	Official Title (printed)	Date

eurofins | Lancaster Laboratories Environmental

Quality Control Reference List
Specialty Services Group

CLIENT: AECOM
SDG: CGI03

Fraction: Dioxins/Furans by HRMS

Analysis	Batch Number	Sample Number	Analysis Date
D/F in Solids 8290-Conf	15182002	BLK182002	07/08/2015 12:28:00
		7947196	07/08/2015 22:43:00
		7947200	07/09/2015 00:33:00
D/F in Solids 8290-Conf	15183004	BLK183004	07/09/2015 01:29:00
		7947210	07/09/2015 06:04:00
		7947211	07/09/2015 17:15:00
		7947212	07/09/2015 18:10:00
Dioxins/Furans in Solids-8290	15182002	BLK182002	07/06/2015 16:35:00
		OPR182002	07/06/2015 13:45:00
		7947195	07/07/2015 11:47:00
		7947196	07/07/2015 15:49:00
		7947197	07/07/2015 16:46:00
		7947198	07/07/2015 17:43:00
		7947199	07/07/2015 18:40:00
		7947200	07/07/2015 19:36:00
Dioxins/Furans in Solids-8290	15183004	BLK183004	07/06/2015 16:33:00
		OPR183004	07/06/2015 14:40:00
		7947201	07/06/2015 17:30:00
		7947202	07/06/2015 18:26:00
		7947203	07/06/2015 19:23:00
		7947204	07/06/2015 20:20:00
		7947205 UNSPK	07/08/2015 11:58:00
		7947206 MS	07/06/2015 22:13:00
		7947207 MSD	07/06/2015 23:09:00
		7947208	07/07/2015 00:06:00
		7947209	07/07/2015 04:08:00
		7947210	07/07/2015 05:05:00
		7947211	07/07/2015 06:01:00
		7947212	07/07/2015 06:58:00
Dioxins/Furans in Water - 8290	15182001	BLK182001	07/02/2015 21:05:00
		OPR182001	07/02/2015 19:12:00
		7947194	07/06/2015 19:26:00
		7947213	07/03/2015 04:40:00

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Review Checklist: Reportable Data	SDG #: CGI03
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	LLI Sample #(s): 7947194-7947213
LRC Date: 08/11/2015	Batch #(s): 15182001, 15182002, 15183004

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
R2	**OI**	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	**OI**	**ANALYSIS REPORTS**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results <MQL, were all other raw values bracketed by calibration standards?			X		
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TIC's reported?			X		
R4	**O**	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	**OI**	**SUMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations <MQL?	X				
R6	**OI**	**LABORATORY CONTROL SAMPLES (LCS)**					
		1) Were all Chemicals of Concern (COC) included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCS's analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COC's at the MDL used to calculate the SDL's?	X				
		6) Was the LCSD RPD within QC limits?			X		
R7	**OI**	**MATRIX SPIKE (MS) AND MATRIX DUPLICATE (MSD) DATA**					
		1) Were the project/method-specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	**OI**	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	**OI**	**METHOD QUANTITATION LIMITS (MQLS)**					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	**OI**	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?		X			1, 2
		2) Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				

[1]Items identified by the letter "R" must be included in the laboratory data package.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Review Checklist: Supporting Data	SDG #: CGI03
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	LLI Sample #(s): 7947194-7947213
LRC Date: 08/11/2015	Batch #(s): 15182001, 15182002, 15183004

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
S1	**OI**	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factor (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	**OI**	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICV AND CCV)**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB<MDL?			X		
S3	**O**	**MASS SPECTRAL TUNING**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Was ion abundance data within the method-required QC limits?	X				
S4	**OI**	**INTERNAL STANDARDS (IS)**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	**OI**	**RAW DATA (NELAC Section 5.5.10)**					
		1) Were the raw data (e.g., chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	**O**	**DUAL COLUMN CONFIRMATION**					
		Did dual column confirmation results meet the method-required QC?	X				
S7	**O**	**TENTATIVELY IDENTIFIED COMPOUNDS (TICS)**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS**					
		Were percent recoveries within method QC limits?			X		
S9	**I**	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND MSA**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	**OI**	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?			X		
S11	**OI**	**PROFICIENCY TEST REPORTS**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	**OI**	**STANDARDS DOCUMENTATION**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	**OI**	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		Are the procedures for compound/analyte identification documented?	X				
S14	**OI**	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	**OI**	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated where applicable?	X				
S16	**OI**	**LABORATORY STANDARD OPERATING PROCEDURES (SOPS)**					
		Are laboratory SOPs current and on file for each method performed?	X				

[1]Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

TRRP-13 Laboratory Review Checklist: Exception Reports	SDG #: CGI03
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	ELLE Sample #(s): 7947194-7947213
LRC Date: 08/11/2015	Batch #(s): 15182001, 15182002, 15183004

ER # [1]	DESCRIPTION
1	R10 1) (Sample number(s): 7947195-7947212: Analysis: 12937) Reporting limits were raised due to interference from the sample matrix.
2	R10 1) Confirmation analysis for 2378-TCDF was performed on samples 7947196, 7947200, 7947210-7947212.

[1]ER#=Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC).

Issued by Dept. 4038 Management

eurofins | Lancaster Laboratories Environmental

Sample pH Log

SDG: CGI03

LLI Sample Number	Bottle Code	Actual pH	Exp. pH	pH Check Code	Adj. pH	Adjusted Date	Adjusted Time	Preservative Added	Preservative Lot #	LLI Supplied Bottle?	Sulfide Present?	Corrective Substance	CS Lot #	Res. Cl. Present?	Corrective Substance	CS Lot #
7947194	243B	7	7-9	PC	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA
7947213	243B	7	7-9	PC	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA

Check Code Key
PK = Original container checked - pH is within the correct range. (No preservative was added)
PA = Original container checked - pH adjusted to correct range. (Preservative was added)
PV = Volatile container checked
PC = pH checked (unpreserved container)
SPK = Subsampled from an original container. Original container checked - pH is within correct range
SPA = Subsampled from an original container. Subsample container checked - pH adjusted to correct range.
SPC = Subsampled from an original container. pH checked (unpreserved container).
SUP = Subsampled from original container. Unable to be preserved due to the matrix of the sample.
UP = Unable to preserve due to matrix of the sample.
NA = Not applicable

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 · 717-656-2300 Fax: 717-656-2681 · www.lancasterlabs.com

10914 Dioxins/Furans in Water - SepF

Aqueous samples are extracted with methylene chloride in a separatory funnel. The extract is concentrated for cleanup.or instrumental analysis.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8290A, Polychlorinated Dibenzo-p-Dioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High Resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS)

13233 D/F in Solids 8290-Conf
12937 Dioxins/Furans in Solids-8290
12936 Dioxins/Furans in Water - 8290

The method provides procedures for the detection and quantitative measurement of polychlorinated dibenzo-p-dioxins (tetra- through octachlorinated homologues; PCDDs), and polychlorinated dibenzofurans (tetra- through octachlorinated homologues; PCDFs) in a variety of environmental matrices and at part-per-trillion (ppt) to part-per-quadrillion. The method requires the use of high-resolution gas chromatography and high-resolution mass spectrometry (HRGC/HRMS) on purified sample extracts.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8290A, Polychlorinated Dibenzo-p-Dioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High Resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS)

11030 Dioxins/Furans in Solids - Sox

The samples are extracted with toluene in a Soxhlet - Dean Stark extractor. The extract is concentrated for clean-up or instrumental analysis.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8290A, Polychlorinated Dibenzo-p-Dioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High Resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS)

00111 Moisture
00118 Moisture
00121 Moisture Duplicate

A well-mixed sample is placed in a tared container and dried to a constant weight in an oven at 103-105C. The increase in weight is the total solids.

Reference: Standard Methods for the Examination of Water and Wastewater, 20th Edition, 1998, Method 2540 G-1997

Analysis Reports / Field Chain of Custody

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

AECOM
PO Box 203970
Austin TX 78720-1088

August 07, 2015

Project: City Of Galveston Incinerator

Submittal Date: 06/27/2015
Group Number: 1572798
SDG: CGI03
PO Number: 63188
State of Sample Origin: TX

Client Sample Description	Lancaster Labs (LL) #
INC-MW01-010 Grab Groundwater	7947194
INC-SB05-010 Grab Soil	7947195
INC-SB05-020 Grab Soil	7947196
INC-SB05-021 Grab Soil	7947197
INC-SB01-010 Grab Soil	7947198
INC-SB01-011 Grab Soil	7947199
INC-SB01-020 Grab Soil	7947200
INC-SB04-010 Grab Soil	7947201
INC-SB04-020 Grab Soil	7947202
INC-SB02-010 Grab Soil	7947203
INC-SB02-020 Grab Soil	7947204
INC-SB03-013 Grab Soil	7947205
INC-SB03-013MS Grab Soil	7947206
INC-SB03-013MSD Grab Soil	7947207
INC-SB03-020 Grab Soil	7947208
INC-SB10-010 Grab Soil	7947209
INC-SB10-020 Grab Soil	7947210
INC-SB09-010 Grab Soil	7947211
INC-SB09-020 Grab Soil	7947212
INC-SB09-015 Grab Groundwater	7947213

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO	AECOM	Attn: Carol Lovett
ELECTRONIC COPY TO	Data Package Group	

Respectfully Submitted,

Angela M. Miller
Specialist

(717) 556-7260

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-MW01-010 Grab Groundwater
Galveston, TX

LL Sample # WW 7947194
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 16:20 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

M1010 SDG#: CGI03-01

CAT No.	Analysis Name	CAS Number	Result	MRL*	EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		pg/l	pg/l	pg/l	
12936	2378-TCDD	1746-01-6	N.D.	1.90	0.148	1
12936	12378-PeCDD	40321-76-4	N.D.	9.52	0.147	1
12936	123478-HxCDD	39227-28-6	0.118 JBQ	9.52	0.0774	1
12936	123678-HxCDD	57653-85-7	N.D.	9.52	0.0806	1
12936	123789-HxCDD	19408-74-3	N.D.	9.52	0.0890	1
12936	1234678-HpCDD	35822-46-9	0.806 JB	9.52	0.0935	1
12936	OCDD	3268-87-9	5.18 JB	19.0	0.0971	1
12936	2378-TCDF	51207-31-9	N.D.	1.90	0.127	1
12936	12378-PeCDF	57117-41-6	0.500 JB	9.52	0.0534	1
12936	23478-PeCDF	57117-31-4	0.236 JBQ	9.52	0.0482	1
12936	123478-HxCDF	70648-26-9	0.0886 JQ	9.52	0.0550	1
12936	123678-HxCDF	57117-44-9	0.0762 JBQ	9.52	0.0517	1
12936	123789-HxCDF	72918-21-9	0.562 JBQ	9.52	0.0630	1
12936	234678-HxCDF	60851-34-5	0.0613 JBQ	9.52	0.0524	1
12936	1234678-HpCDF	67562-39-4	0.164 JBQ	9.52	0.0323	1
12936	1234789-HpCDF	55673-89-7	N.D.	9.52	0.0457	1
12936	OCDF	39001-02-0	0.393 JBQ	19.0	0.0963	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	40 - 135
13C12-12378-PeCDD	74	40 - 135
13C12-123478-HxCDD	80	40 - 135
13C12-123678-HxCDD	81	40 - 135
13C12-123789-HxCDD	75	40 - 135
13C12-1234678-HpCDD	78	40 - 135
13C12-OCDD	77	40 - 135
13C12-2378-TCDF	69	40 - 135
13C12-12378-PeCDF	78	40 - 135
13C12-23478-PeCDF	77	40 - 135
13C12-123478-HxCDF	84	40 - 135
13C12-123678-HxCDF	87	40 - 135
13C12-234678-HxCDF	87	40 - 135
13C12-123789-HxCDF	90	40 - 135
13C12-1234678-HpCDF	96	40 - 135
13C12-1234789-HpCDF	79	40 - 135
13C12-OCDF	75	40 - 135

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-MW01-010 Grab Groundwater
Galveston, TX

LL Sample # WW 7947194
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/24/2015 16:20 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

M1010 SDG#: CGI03-01

CAT No.	Analysis Name	CAS Number	Result	MRL*	EDL	Dilution Factor
S	*Saturation of detection signal*					

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12936	Dioxins/Furans in Water - 8290	SW-846 8290A Feb 2007 Rev 1	1	15182001	07/06/2015 19:26	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	SW-846 8290A Feb 2007 Rev 1	1	15182001	07/01/2015 08:20	Brett M Weidman	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB05-010 Grab Soil
Galveston, TX

LL Sample # SW 7947195
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:35 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B5010 SDG#: CGI03-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	7.9	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB05-010 Grab Soil
Galveston, TX

LL Sample # SW 7947195
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:35 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B5010 SDG#: CGI03-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		ng/kg		ng/kg	ng/kg	
12937	2378-TCDD	1746-01-6	N.D.		10.5	0.534	1
12937	12378-PeCDD	40321-76-4	2.30	JQ	52.7	0.619	1
12937	123478-HxCDD	39227-28-6	3.15	JBQ	52.7	0.513	1
12937	123678-HxCDD	57653-85-7	7.78	JB	52.7	0.529	1
12937	123789-HxCDD	19408-74-3	7.66	JB	52.7	0.565	1
12937	1234678-HpCDD	35822-46-9	142	B	52.7	0.558	1
12937	OCDD	3268-87-9	821	B	105	0.498	1
12937	2378-TCDF	51207-31-9	5.99	J	10.5	0.727	1
12937	12378-PeCDF	57117-41-6	6.18	JB	52.7	0.293	1
12937	23478-PeCDF	57117-31-4	6.53	JBQ	52.7	0.309	1
12937	123478-HxCDF	70648-26-9	6.77	JB	52.7	0.455	1
12937	123678-HxCDF	57117-44-9	6.49	JBQ	52.7	0.409	1
12937	123789-HxCDF	72918-21-9	1.90	JBQ	52.7	0.590	1
12937	234678-HxCDF	60851-34-5	8.70	JBQ	52.7	0.364	1
12937	1234678-HpCDF	67562-39-4	39.0	JB	52.7	0.246	1
12937	1234789-HpCDF	55673-89-7	3.61	JQ	52.7	0.428	1
12937	OCDF	39001-02-0	46.5	JB	105	0.292	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	62	40 - 135
13C12-12378-PeCDD	68	40 - 135
13C12-123478-HxCDD	87	40 - 135
13C12-123678-HxCDD	86	40 - 135
13C12-123789-HxCDD	77	40 - 135
13C12-1234678-HpCDD	80	40 - 135
13C12-OCDD	95	40 - 135
13C12-2378-TCDF	72	40 - 135
13C12-12378-PeCDF	78	40 - 135
13C12-23478-PeCDF	71	40 - 135
13C12-123478-HxCDF	80	40 - 135
13C12-123678-HxCDF	89	40 - 135
13C12-234678-HxCDF	99	40 - 135
13C12-123789-HxCDF	73	40 - 135
13C12-1234678-HpCDF	109	40 - 135
13C12-1234789-HpCDF	73	40 - 135
13C12-OCDF	78	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB05-010 Grab Soil
Galveston, TX

LL Sample # SW 7947195
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:35 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B5010 SDG#: CGI03-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB05-010 Grab Soil
Galveston, TX

LL Sample # SW 7947195
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:35 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

B5010 SDG#: CGI03-02

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/07/2015 11:47	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/01/2015 10:15	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15180820005B	06/29/2015 23:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB05-020 Grab Soil
Galveston, TX

LL Sample # SW 7947196
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:40 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B5020 SDG#: CGI03-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	22.6	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB05-020 Grab Soil
Galveston, TX

LL Sample # SW 7947196
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:40 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B5020 SDG#: CGI03-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		ng/kg		ng/kg	ng/kg	
12937	2378-TCDD	1746-01-6	1.31	JQ	12.2	0.976	1
12937	12378-PeCDD	40321-76-4	7.03	J	60.9	1.27	1
12937	123478-HxCDD	39227-28-6	4.83	JBQ	60.9	0.841	1
12937	123678-HxCDD	57653-85-7	23.0	JB	60.9	0.837	1
12937	123789-HxCDD	19408-74-3	18.2	JB	60.9	0.914	1
12937	1234678-HpCDD	35822-46-9	242	B	60.9	0.739	1
12937	OCDD	3268-87-9	1,170	B	122	0.805	1
13233	2378-TCDF-Conf	51207-31-9	11.4	JBC	12.2	1.49	1
12937	12378-PeCDF	57117-41-6	6.89	JBQ	60.9	0.415	1
12937	23478-PeCDF	57117-31-4	9.81	JB	60.9	0.425	1
12937	123478-HxCDF	70648-26-9	7.20	JB	60.9	0.647	1
12937	123678-HxCDF	57117-44-9	7.60	JB	60.9	0.551	1
12937	123789-HxCDF	72918-21-9	4.81	JBQ	60.9	0.976	1
12937	234678-HxCDF	60851-34-5	7.44	JB	60.9	0.633	1
12937	1234678-HpCDF	67562-39-4	48.7	JB	60.9	0.257	1
12937	1234789-HpCDF	55673-89-7	5.57	JQ	60.9	0.543	1
12937	OCDF	39001-02-0	58.3	JB	122	0.500	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDF-Conf	45	40 - 135
13C12-2378-TCDD	46	40 - 135
13C12-12378-PeCDD	54	40 - 135
13C12-123478-HxCDD	60	40 - 135
13C12-123678-HxCDD	62	40 - 135
13C12-123789-HxCDD	56	40 - 135
13C12-1234678-HpCDD	61	40 - 135
13C12-OCDD	61	40 - 135
13C12-12378-PeCDF	62	40 - 135
13C12-23478-PeCDF	55	40 - 135
13C12-123478-HxCDF	62	40 - 135
13C12-123678-HxCDF	71	40 - 135
13C12-234678-HxCDF	62	40 - 135
13C12-123789-HxCDF	51	40 - 135
13C12-1234678-HpCDF	86	40 - 135
13C12-1234789-HpCDF	50	40 - 135
13C12-OCDF	47	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB05-020 Grab Soil
Galveston, TX

LL Sample # SW 7947196
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:40 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B5020 SDG#: CGI03-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB05-020 Grab Soil
Galveston, TX

LL Sample # SW 7947196
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:40 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

B5020 SDG#: CGI03-03

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13233	D/F in Solids 8290-Conf	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/08/2015 22:43	Joseph D Anderson	1
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/07/2015 15:49	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/01/2015 10:15	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15180820005B	06/29/2015 23:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB05-021 Grab Soil
Galveston, TX

LL Sample # SW 7947197
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:40 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B5021 SDG#: CGI03-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	18.1	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB05-021 Grab Soil
Galveston, TX

LL Sample # SW 7947197
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:40 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B5021 SDG#: CGI03-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		ng/kg		ng/kg	ng/kg	
12937	2378-TCDD	1746-01-6	1.63	JQ	11.9	0.746	1
12937	12378-PeCDD	40321-76-4	8.42	J	59.3	0.895	1
12937	123478-HxCDD	39227-28-6	4.21	JB	59.3	0.606	1
12937	123678-HxCDD	57653-85-7	19.6	JB	59.3	0.615	1
12937	123789-HxCDD	19408-74-3	15.4	JB	59.3	0.636	1
12937	1234678-HpCDD	35822-46-9	249	B	59.3	0.532	1
12937	OCDD	3268-87-9	1,040	B	119	0.479	1
12937	2378-TCDF	51207-31-9	7.08	J	11.9	0.705	1
12937	12378-PeCDF	57117-41-6	3.64	JB	59.3	0.253	1
12937	23478-PeCDF	57117-31-4	5.60	JB	59.3	0.263	1
12937	123478-HxCDF	70648-26-9	4.67	JB	59.3	0.404	1
12937	123678-HxCDF	57117-44-9	4.04	JBQ	59.3	0.336	1
12937	123789-HxCDF	72918-21-9	2.90	JB	59.3	0.547	1
12937	234678-HxCDF	60851-34-5	6.69	JB	59.3	0.360	1
12937	1234678-HpCDF	67562-39-4	31.9	JB	59.3	0.135	1
12937	1234789-HpCDF	55673-89-7	2.15	J	59.3	0.316	1
12937	OCDF	39001-02-0	31.5	JB	119	0.379	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	56	40 - 135
13C12-12378-PeCDD	69	40 - 135
13C12-123478-HxCDD	78	40 - 135
13C12-123678-HxCDD	77	40 - 135
13C12-123789-HxCDD	71	40 - 135
13C12-1234678-HpCDD	72	40 - 135
13C12-OCDD	73	40 - 135
13C12-2378-TCDF	61	40 - 135
13C12-12378-PeCDF	74	40 - 135
13C12-23478-PeCDF	69	40 - 135
13C12-123478-HxCDF	71	40 - 135
13C12-123678-HxCDF	84	40 - 135
13C12-234678-HxCDF	78	40 - 135
13C12-123789-HxCDF	61	40 - 135
13C12-1234678-HpCDF	104	40 - 135
13C12-1234789-HpCDF	57	40 - 135
13C12-OCDF	53	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB05-021 Grab Soil
Galveston, TX

LL Sample # SW 7947197
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:40 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B5021 SDG#: CGI03-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB05-021 Grab Soil
Galveston, TX

LL Sample # SW 7947197
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:40 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

B5021 SDG#: CGI03-04

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/07/2015 16:46	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/01/2015 10:15	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15180820005B	06/29/2015 23:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB01-010 Grab Soil
Galveston, TX

LL Sample # SW 7947198
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:55 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B1010 SDG#: CGI03-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	18.1	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB01-010 Grab Soil
Galveston, TX

LL Sample # SW 7947198
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:55 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B1010 SDG#: CGI03-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		ng/kg		ng/kg	ng/kg	
12937	2378-TCDD	1746-01-6	0.676	JQ	12.0	0.554	1
12937	12378-PeCDD	40321-76-4	2.61	JQ	59.9	0.699	1
12937	123478-HxCDD	39227-28-6	0.692	JB	59.9	0.538	1
12937	123678-HxCDD	57653-85-7	8.81	JB	59.9	0.579	1
12937	123789-HxCDD	19408-74-3	6.60	JBQ	59.9	0.623	1
12937	1234678-HpCDD	35822-46-9	99.8	BQ	59.9	0.586	1
12937	OCDD	3268-87-9	561	B	120	0.575	1
12937	2378-TCDF	51207-31-9	N.D.		12.0	0.564	1
12937	12378-PeCDF	57117-41-6	2.40	JB	59.9	0.314	1
12937	23478-PeCDF	57117-31-4	5.02	JB	59.9	0.291	1
12937	123478-HxCDF	70648-26-9	2.10	JBQ	59.9	0.414	1
12937	123678-HxCDF	57117-44-9	2.92	JBQ	59.9	0.392	1
12937	123789-HxCDF	72918-21-9	0.826	JBQ	59.9	0.451	1
12937	234678-HxCDF	60851-34-5	3.54	JBQ	59.9	0.335	1
12937	1234678-HpCDF	67562-39-4	16.6	JB	59.9	0.211	1
12937	1234789-HpCDF	55673-89-7	1.17	JQ	59.9	0.299	1
12937	OCDF	39001-02-0	13.4	JB	120	0.370	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	63	40 - 135
13C12-12378-PeCDD	66	40 - 135
13C12-123478-HxCDD	81	40 - 135
13C12-123678-HxCDD	79	40 - 135
13C12-123789-HxCDD	72	40 - 135
13C12-1234678-HpCDD	77	40 - 135
13C12-OCDD	85	40 - 135
13C12-2378-TCDF	75	40 - 135
13C12-12378-PeCDF	74	40 - 135
13C12-23478-PeCDF	72	40 - 135
13C12-123478-HxCDF	80	40 - 135
13C12-123678-HxCDF	82	40 - 135
13C12-234678-HxCDF	96	40 - 135
13C12-123789-HxCDF	88	40 - 135
13C12-1234678-HpCDF	96	40 - 135
13C12-1234789-HpCDF	82	40 - 135
13C12-OCDF	84	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB01-010 Grab Soil
Galveston, TX

LL Sample # SW 7947198
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:55 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B1010 SDG#: CGI03-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB01-010 Grab Soil
Galveston, TX

LL Sample # SW 7947198
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:55 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

B1010 SDG#: CGI03-05

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/07/2015 17:43	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/01/2015 10:15	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15180820005B	06/29/2015 23:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB01-011 Grab Soil
Galveston, TX

LL Sample # SW 7947199
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:55 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B1-11 SDG#: CGI03-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	24.3	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB01-011 Grab Soil
Galveston, TX

LL Sample # SW 7947199
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:55 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B1-11 SDG#: CGI03-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		ng/kg		ng/kg	ng/kg	
12937	2378-TCDD	1746-01-6	N.D.		12.5	0.458	1
12937	12378-PeCDD	40321-76-4	1.50	JQ	62.3	0.620	1
12937	123478-HxCDD	39227-28-6	1.16	JB	62.3	0.411	1
12937	123678-HxCDD	57653-85-7	11.9	JB	62.3	0.441	1
12937	123789-HxCDD	19408-74-3	8.24	JB	62.3	0.482	1
12937	1234678-HpCDD	35822-46-9	137	B	62.3	0.476	1
12937	OCDD	3268-87-9	765	B	125	0.426	1
12937	2378-TCDF	51207-31-9	0.773	JQ	12.5	0.489	1
12937	12378-PeCDF	57117-41-6	1.52	JBQ	62.3	0.239	1
12937	23478-PeCDF	57117-31-4	1.84	JBQ	62.3	0.228	1
12937	123478-HxCDF	70648-26-9	2.02	JB	62.3	0.322	1
12937	123678-HxCDF	57117-44-9	1.71	JBQ	62.3	0.312	1
12937	123789-HxCDF	72918-21-9	1.97	JBQ	62.3	0.440	1
12937	234678-HxCDF	60851-34-5	3.33	JB	62.3	0.313	1
12937	1234678-HpCDF	67562-39-4	19.7	JB	62.3	0.143	1
12937	1234789-HpCDF	55673-89-7	0.942	J	62.3	0.194	1
12937	OCDF	39001-02-0	20.6	JB	125	0.242	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	68	40 - 135
13C12-12378-PeCDD	72	40 - 135
13C12-123478-HxCDD	79	40 - 135
13C12-123678-HxCDD	78	40 - 135
13C12-123789-HxCDD	73	40 - 135
13C12-1234678-HpCDD	81	40 - 135
13C12-OCDD	90	40 - 135
13C12-2378-TCDF	80	40 - 135
13C12-12378-PeCDF	82	40 - 135
13C12-23478-PeCDF	80	40 - 135
13C12-123478-HxCDF	86	40 - 135
13C12-123678-HxCDF	87	40 - 135
13C12-234678-HxCDF	88	40 - 135
13C12-123789-HxCDF	81	40 - 135
13C12-1234678-HpCDF	96	40 - 135
13C12-1234789-HpCDF	87	40 - 135
13C12-OCDF	93	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB01-011 Grab Soil
Galveston, TX

LL Sample # SW 7947199
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:55 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B1-11 SDG#: CGI03-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB01-011 Grab Soil
Galveston, TX

LL Sample # SW 7947199
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 12:55 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

B1-11 SDG#: CGI03-06

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/07/2015 18:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/01/2015 10:15	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15180820005B	06/29/2015 23:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB01-020 Grab Soil
Galveston, TX

LL Sample # SW 7947200
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 13:10 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B1-20 SDG#: CGI03-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	14.9	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB01-020 Grab Soil
Galveston, TX

LL Sample # SW 7947200
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 13:10 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B1-20 SDG#: CGI03-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		**ng/kg**		**ng/kg**	**ng/kg**	
12937	2378-TCDD	1746-01-6	2.55	JQ	9.87	0.609	1
12937	12378-PeCDD	40321-76-4	9.00	J	49.4	0.880	1
12937	123478-HxCDD	39227-28-6	6.03	JBQ	49.4	0.420	1
12937	123678-HxCDD	57653-85-7	41.6	JB	49.4	0.442	1
12937	123789-HxCDD	19408-74-3	25.9	JBQ	49.4	0.449	1
12937	1234678-HpCDD	35822-46-9	283	B	49.4	0.551	1
12937	OCDD	3268-87-9	732	B	98.7	0.347	1
13233	2378-TCDF-Conf	51207-31-9	23.0	BC	9.87	1.23	1
12937	12378-PeCDF	57117-41-6	16.7	JB	49.4	0.315	1
12937	23478-PeCDF	57117-31-4	21.7	JB	49.4	0.333	1
12937	123478-HxCDF	70648-26-9	18.3	JB	49.4	0.528	1
12937	123678-HxCDF	57117-44-9	14.1	JB	49.4	0.433	1
12937	123789-HxCDF	72918-21-9	N.D.		49.4	0.704	1
12937	234678-HxCDF	60851-34-5	18.8	JB	49.4	0.471	1
12937	1234678-HpCDF	67562-39-4	50.5	B	49.4	0.141	1
12937	1234789-HpCDF	55673-89-7	7.06	J	49.4	0.343	1
12937	OCDF	39001-02-0	31.3	JB	98.7	0.307	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	51	40 - 135
13C12-2378-TCDF-Conf	66	40 - 135
13C12-12378-PeCDD	66	40 - 135
13C12-123478-HxCDD	71	40 - 135
13C12-123678-HxCDD	70	40 - 135
13C12-123789-HxCDD	66	40 - 135
13C12-1234678-HpCDD	71	40 - 135
13C12-OCDD	72	40 - 135
13C12-12378-PeCDF	74	40 - 135
13C12-23478-PeCDF	64	40 - 135
13C12-123478-HxCDF	67	40 - 135
13C12-123678-HxCDF	81	40 - 135
13C12-234678-HxCDF	74	40 - 135
13C12-123789-HxCDF	59	40 - 135
13C12-1234678-HpCDF	104	40 - 135
13C12-1234789-HpCDF	55	40 - 135
13C12-OCDF	50	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB01-020 Grab Soil
Galveston, TX

LL Sample # SW 7947200
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 13:10 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B1-20 SDG#: CGI03-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB01-020 Grab Soil
Galveston, TX

LL Sample # SW 7947200
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 13:10 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

B1-20 SDG#: CGI03-07

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13233	D/F in Solids 8290-Conf	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/09/2015 00:33	Joseph D Anderson	1
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/07/2015 19:36	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15182002	07/01/2015 10:15	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15180820005B	06/29/2015 23:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB04-010 Grab Soil
Galveston, TX

LL Sample # SW 7947201
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 13:35 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

-B410 SDG#: CGI03-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	23.2	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB04-010 Grab Soil
Galveston, TX

LL Sample # SW 7947201
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 13:35 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

-B410 SDG#: CGI03-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		ng/kg		ng/kg	ng/kg	
12937	2378-TCDD	1746-01-6	0.904	JBQ	11.8	0.563	1
12937	12378-PeCDD	40321-76-4	1.30	JBQ	59.2	0.660	1
12937	123478-HxCDD	39227-28-6	1.32	JBQ	59.2	0.487	1
12937	123678-HxCDD	57653-85-7	5.59	JB	59.2	0.487	1
12937	123789-HxCDD	19408-74-3	2.71	JBQ	59.2	0.531	1
12937	1234678-HpCDD	35822-46-9	51.1	JB	59.2	0.647	1
12937	OCDD	3268-87-9	287		118	0.492	1
12937	2378-TCDF	51207-31-9	0.901	JBQ	11.8	0.697	1
12937	12378-PeCDF	57117-41-6	1.65	JB	59.2	0.372	1
12937	23478-PeCDF	57117-31-4	1.54	JQ	59.2	0.373	1
12937	123478-HxCDF	70648-26-9	1.45	JBQ	59.2	0.515	1
12937	123678-HxCDF	57117-44-9	3.19	JBQ	59.2	0.446	1
12937	123789-HxCDF	72918-21-9	N.D.		59.2	0.683	1
12937	234678-HxCDF	60851-34-5	6.31	JBQ	59.2	0.502	1
12937	1234678-HpCDF	67562-39-4	18.1	JB	59.2	0.240	1
12937	1234789-HpCDF	55673-89-7	0.768	JBQ	59.2	0.497	1
12937	OCDF	39001-02-0	17.7	JB	118	0.591	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	59	40 - 135
13C12-12378-PeCDD	58	40 - 135
13C12-123478-HxCDD	78	40 - 135
13C12-123678-HxCDD	79	40 - 135
13C12-123789-HxCDD	73	40 - 135
13C12-1234678-HpCDD	69	40 - 135
13C12-OCDD	63	40 - 135
13C12-2378-TCDF	59	40 - 135
13C12-12378-PeCDF	60	40 - 135
13C12-23478-PeCDF	56	40 - 135
13C12-123478-HxCDF	80	40 - 135
13C12-123678-HxCDF	90	40 - 135
13C12-234678-HxCDF	80	40 - 135
13C12-123789-HxCDF	68	40 - 135
13C12-1234678-HpCDF	95	40 - 135
13C12-1234789-HpCDF	61	40 - 135
13C12-OCDF	57	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB04-010 Grab Soil
Galveston, TX

LL Sample # SW 7947201
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 13:35 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

-B410 SDG#: CGI03-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB04-010 Grab Soil
Galveston, TX

LL Sample # SW 7947201
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 13:35 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

-B410 SDG#: CGI03-08

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/06/2015 17:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/03/2015 10:00	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15180820005B	06/29/2015 23:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB04-020 Grab Soil
Galveston, TX

LL Sample # SW 7947202
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 13:50 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

-B420 SDG#: CGI03-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	10.6	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB04-020 Grab Soil
Galveston, TX

LL Sample # SW 7947202
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 13:50 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

-B420 SDG#: CGI03-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		**ng/kg**		**ng/kg**	**ng/kg**	
12937	2378-TCDD	1746-01-6	0.399	JBQ	10.5	0.296	1
12937	12378-PeCDD	40321-76-4	N.D.		52.3	0.271	1
12937	123478-HxCDD	39227-28-6	N.D.		52.3	0.174	1
12937	123678-HxCDD	57653-85-7	N.D.		52.3	0.183	1
12937	123789-HxCDD	19408-74-3	0.201	JBQ	52.3	0.192	1
12937	1234678-HpCDD	35822-46-9	1.75	JBQ	52.3	0.238	1
12937	OCDD	3268-87-9	31.8	J	105	0.323	1
12937	2378-TCDF	51207-31-9	N.D.		10.5	0.314	1
12937	12378-PeCDF	57117-41-6	0.733	JBQ	52.3	0.150	1
12937	23478-PeCDF	57117-31-4	0.456	JQ	52.3	0.164	1
12937	123478-HxCDF	70648-26-9	0.508	JBQ	52.3	0.178	1
12937	123678-HxCDF	57117-44-9	N.D.		52.3	0.146	1
12937	123789-HxCDF	72918-21-9	1.06	JB	52.3	0.190	1
12937	234678-HxCDF	60851-34-5	0.239	JBQ	52.3	0.167	1
12937	1234678-HpCDF	67562-39-4	0.440	JBQ	52.3	0.0594	1
12937	1234789-HpCDF	55673-89-7	0.301	JBQ	52.3	0.157	1
12937	OCDF	39001-02-0	0.782	JBQ	105	0.290	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	58	40 - 135
13C12-12378-PeCDD	62	40 - 135
13C12-123478-HxCDD	76	40 - 135
13C12-123678-HxCDD	77	40 - 135
13C12-123789-HxCDD	72	40 - 135
13C12-1234678-HpCDD	73	40 - 135
13C12-OCDD	61	40 - 135
13C12-2378-TCDF	57	40 - 135
13C12-12378-PeCDF	63	40 - 135
13C12-23478-PeCDF	55	40 - 135
13C12-123478-HxCDF	73	40 - 135
13C12-123678-HxCDF	86	40 - 135
13C12-234678-HxCDF	73	40 - 135
13C12-123789-HxCDF	76	40 - 135
13C12-1234678-HpCDF	114	40 - 135
13C12-1234789-HpCDF	57	40 - 135
13C12-OCDF	48	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB04-020 Grab Soil
Galveston, TX

LL Sample # SW 7947202
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 13:50 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

-B420 SDG#: CGI03-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB04-020 Grab Soil
Galveston, TX

LL Sample # SW 7947202
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 13:50 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

-B420 SDG#: CGI03-09

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/06/2015 18:26	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/03/2015 10:00	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15180820005B	06/29/2015 23:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB02-010 Grab Soil
Galveston, TX

LL Sample # SW 7947203
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:00 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

-B210 SDG#: CGI03-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	11.0	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB02-010 Grab Soil
Galveston, TX

LL Sample # SW 7947203
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:00 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

-B210 SDG#: CGI03-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		ng/kg		ng/kg	ng/kg	
12937	2378-TCDD	1746-01-6	1.61	JBQ	11.2	0.479	1
12937	12378-PeCDD	40321-76-4	5.26	JB	56.2	0.780	1
12937	123478-HxCDD	39227-28-6	1.37	JB	56.2	0.535	1
12937	123678-HxCDD	57653-85-7	13.8	JB	56.2	0.555	1
12937	123789-HxCDD	19408-74-3	9.92	JB	56.2	0.572	1
12937	1234678-HpCDD	35822-46-9	258	B	56.2	0.656	1
12937	OCDD	3268-87-9	1,440		112	0.703	1
12937	2378-TCDF	51207-31-9	6.94	JB	11.2	0.877	1
12937	12378-PeCDF	57117-41-6	4.64	JBQ	56.2	0.346	1
12937	23478-PeCDF	57117-31-4	N.D.		56.2	0.370	1
12937	123478-HxCDF	70648-26-9	5.64	JB	56.2	0.523	1
12937	123678-HxCDF	57117-44-9	6.57	JBQ	56.2	0.473	1
12937	123789-HxCDF	72918-21-9	3.33	JB	56.2	0.713	1
12937	234678-HxCDF	60851-34-5	10.3	JB	56.2	0.534	1
12937	1234678-HpCDF	67562-39-4	53.8	JB	56.2	0.192	1
12937	1234789-HpCDF	55673-89-7	2.38	JBQ	56.2	0.417	1
12937	OCDF	39001-02-0	56.4	JB	112	0.497	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	40 - 135
13C12-12378-PeCDD	75	40 - 135
13C12-123478-HxCDD	90	40 - 135
13C12-123678-HxCDD	92	40 - 135
13C12-123789-HxCDD	86	40 - 135
13C12-1234678-HpCDD	89	40 - 135
13C12-OCDD	82	40 - 135
13C12-2378-TCDF	75	40 - 135
13C12-12378-PeCDF	77	40 - 135
13C12-23478-PeCDF	69	40 - 135
13C12-123478-HxCDF	97	40 - 135
13C12-123678-HxCDF	107	40 - 135
13C12-234678-HxCDF	92	40 - 135
13C12-123789-HxCDF	80	40 - 135
13C12-1234678-HpCDF	127	40 - 135
13C12-1234789-HpCDF	78	40 - 135
13C12-OCDF	73	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB02-010 Grab Soil
Galveston, TX

LL Sample # SW 7947203
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:00 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

-B210 SDG#: CGI03-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB02-010 Grab Soil
Galveston, TX

LL Sample # SW 7947203
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:00 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

-B210 SDG#: CGI03-10

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/06/2015 19:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/03/2015 10:00	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15180820005B	06/29/2015 23:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB02-020 Grab Soil
Galveston, TX

LL Sample # SW 7947204
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:10 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

-B220 SDG#: CGI03-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	18.0	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB02-020 Grab Soil
Galveston, TX

LL Sample # SW 7947204
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:10 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

-B220 SDG#: CGI03-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		ng/kg		ng/kg	ng/kg	
12937	2378-TCDD	1746-01-6	1.84	JBQ	11.5	0.576	1
12937	12378-PeCDD	40321-76-4	8.06	JB	57.5	0.763	1
12937	123478-HxCDD	39227-28-6	4.78	JBQ	57.5	0.550	1
12937	123678-HxCDD	57653-85-7	18.6	JB	57.5	0.578	1
12937	123789-HxCDD	19408-74-3	14.0	JB	57.5	0.621	1
12937	1234678-HpCDD	35822-46-9	348	B	57.5	0.719	1
12937	OCDD	3268-87-9	2,040		115	0.706	1
12937	2378-TCDF	51207-31-9	11.3	JB	11.5	0.900	1
12937	12378-PeCDF	57117-41-6	8.96	JB	57.5	0.359	1
12937	23478-PeCDF	57117-31-4	15.2	J	57.5	0.382	1
12937	123478-HxCDF	70648-26-9	13.5	JB	57.5	0.612	1
12937	123678-HxCDF	57117-44-9	11.3	JB	57.5	0.504	1
12937	123789-HxCDF	72918-21-9	4.75	JBQ	57.5	0.781	1
12937	234678-HxCDF	60851-34-5	14.2	JB	57.5	0.570	1
12937	1234678-HpCDF	67562-39-4	92.6	B	57.5	0.196	1
12937	1234789-HpCDF	55673-89-7	6.56	JBQ	57.5	0.462	1
12937	OCDF	39001-02-0	118	B	115	0.421	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	71	40 - 135
13C12-12378-PeCDD	69	40 - 135
13C12-123478-HxCDD	87	40 - 135
13C12-123678-HxCDD	91	40 - 135
13C12-123789-HxCDD	83	40 - 135
13C12-1234678-HpCDD	87	40 - 135
13C12-OCDD	83	40 - 135
13C12-2378-TCDF	73	40 - 135
13C12-12378-PeCDF	72	40 - 135
13C12-23478-PeCDF	65	40 - 135
13C12-123478-HxCDF	90	40 - 135
13C12-123678-HxCDF	102	40 - 135
13C12-234678-HxCDF	90	40 - 135
13C12-123789-HxCDF	76	40 - 135
13C12-1234678-HpCDF	134	40 - 135
13C12-1234789-HpCDF	76	40 - 135
13C12-OCDF	71	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB02-020 Grab Soil
Galveston, TX

LL Sample # SW 7947204
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:10 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

-B220 SDG#: CGI03-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB02-020 Grab Soil
Galveston, TX

LL Sample # SW 7947204
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:10 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

-B220 SDG#: CGI03-11

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/06/2015 20:20	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/03/2015 10:00	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15180820005B	06/29/2015 23:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB03-013 Grab Soil
Galveston, TX

LL Sample # SW 7947205
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:25 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

-B213 SDG#: CGI03-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	20.6	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB03-013 Grab Soil
Galveston, TX

LL Sample # SW 7947205
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:25 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

-B213 SDG#: CGI03-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		ng/kg		ng/kg	ng/kg	
12937	2378-TCDD	1746-01-6	1.47	JBQ	12.0	0.451	1
12937	12378-PeCDD	40321-76-4	6.16	JB	60.0	0.694	1
12937	123478-HxCDD	39227-28-6	4.84	JBQ	60.0	0.378	1
12937	123678-HxCDD	57653-85-7	12.5	JB	60.0	0.406	1
12937	123789-HxCDD	19408-74-3	9.35	JB	60.0	0.443	1
12937	1234678-HpCDD	35822-46-9	189	B	60.0	0.529	1
12937	OCDD	3268-87-9	1,020		120	0.457	1
12937	2378-TCDF	51207-31-9	6.17	JB	12.0	0.633	1
12937	12378-PeCDF	57117-41-6	6.95	JB	60.0	0.279	1
12937	23478-PeCDF	57117-31-4	10.4	J	60.0	0.288	1
12937	123478-HxCDF	70648-26-9	8.01	JB	60.0	0.347	1
12937	123678-HxCDF	57117-44-9	8.32	JB	60.0	0.304	1
12937	123789-HxCDF	72918-21-9	2.79	JBQ	60.0	0.425	1
12937	234678-HxCDF	60851-34-5	9.19	JB	60.0	0.351	1
12937	1234678-HpCDF	67562-39-4	58.2	JB	60.0	0.195	1
12937	1234789-HpCDF	55673-89-7	4.49	JB	60.0	0.370	1
12937	OCDF	39001-02-0	65.4	JB	120	0.200	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	40 - 135
13C12-12378-PeCDD	84	40 - 135
13C12-123478-HxCDD	92	40 - 135
13C12-123678-HxCDD	90	40 - 135
13C12-123789-HxCDD	81	40 - 135
13C12-1234678-HpCDD	85	40 - 135
13C12-OCDD	84	40 - 135
13C12-2378-TCDF	81	40 - 135
13C12-12378-PeCDF	93	40 - 135
13C12-23478-PeCDF	82	40 - 135
13C12-123478-HxCDF	88	40 - 135
13C12-123678-HxCDF	99	40 - 135
13C12-234678-HxCDF	88	40 - 135
13C12-123789-HxCDF	86	40 - 135
13C12-1234678-HpCDF	116	40 - 135
13C12-1234789-HpCDF	76	40 - 135
13C12-OCDF	69	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB03-013 Grab Soil
Galveston, TX

LL Sample # SW 7947205
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:25 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

-B213 SDG#: CGI03-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB03-013 Grab Soil
Galveston, TX

LL Sample # SW 7947205
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:25 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

-B213 SDG#: CGI03-12BKG

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/08/2015 11:58	Michael A Ziegler	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/03/2015 10:00	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15180820005B	06/29/2015 23:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: INC-SB03-013MS Grab Soil
Galveston, TX

LL Sample # SW 7947206
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:25 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

-B213 SDG#: CGI03-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry		**SM 2540 G-1997**	%	%	%	
00118	Moisture	n.a.	20.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB03-013MS Grab Soil
Galveston, TX

LL Sample # SW 7947206
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:25 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

-B213 SDG#: CGI03-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		ng/kg		ng/kg	ng/kg	
12937	2378-TCDD	1746-01-6	208	B	11.3	0.578	1
12937	12378-PeCDD	40321-76-4	1,070	B	56.7	0.846	1
12937	123478-HxCDD	39227-28-6	1,110	B	56.7	0.821	1
12937	123678-HxCDD	57653-85-7	1,150	B	56.7	0.846	1
12937	123789-HxCDD	19408-74-3	1,160	B	56.7	0.946	1
12937	1234678-HpCDD	35822-46-9	1,270	B	56.7	0.764	1
12937	OCDD	3268-87-9	2,950		113	0.982	1
12937	2378-TCDF	51207-31-9	221	B	11.3	0.785	1
12937	12378-PeCDF	57117-41-6	1,170	B	56.7	0.411	1
12937	23478-PeCDF	57117-31-4	1,140		56.7	0.443	1
12937	123478-HxCDF	70648-26-9	1,230	B	56.7	1.02	1
12937	123678-HxCDF	57117-44-9	1,230	B	56.7	0.944	1
12937	123789-HxCDF	72918-21-9	1,260	B	56.7	1.19	1
12937	234678-HxCDF	60851-34-5	1,240	B	56.7	1.04	1
12937	1234678-HpCDF	67562-39-4	1,210	B	56.7	0.533	1
12937	1234789-HpCDF	55673-89-7	1,170	B	56.7	1.14	1
12937	OCDF	39001-02-0	2,380	B	113	0.793	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	57	40 - 135
13C12-12378-PeCDD	58	40 - 135
13C12-123478-HxCDD	75	40 - 135
13C12-123678-HxCDD	73	40 - 135
13C12-123789-HxCDD	66	40 - 135
13C12-1234678-HpCDD	78	40 - 135
13C12-OCDD	65	40 - 135
13C12-2378-TCDF	56	40 - 135
13C12-12378-PeCDF	61	40 - 135
13C12-23478-PeCDF	54	40 - 135
13C12-123478-HxCDF	79	40 - 135
13C12-123678-HxCDF	84	40 - 135
13C12-234678-HxCDF	77	40 - 135
13C12-123789-HxCDF	74	40 - 135
13C12-1234678-HpCDF	119	40 - 135
13C12-1234789-HpCDF	68	40 - 135
13C12-OCDF	59	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB03-013MS Grab Soil
Galveston, TX

LL Sample # SW 7947206
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:25 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

-B213 SDG#: CGI03-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB03-013MS Grab Soil
Galveston, TX

LL Sample # SW 7947206
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:25 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

-B213 SDG#: CGI03-12MS

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/06/2015 22:13	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/03/2015 10:00	Ginelle L McQuaid	1
00118	Moisture	SM 2540 G-1997	1	15180820005B	06/29/2015 23:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB03-013MSD Grab Soil
Galveston, TX

LL Sample # SW 7947207
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:25 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

-B213 SDG#: CGI03-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00118	Moisture	n.a.	20.6	0.50	0.50	1
00121	Moisture Duplicate	n.a.	16.8	0.50	0.50	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB03-013MSD Grab Soil
Galveston, TX

LL Sample # SW 7947207
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:25 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

-B213 SDG#: CGI03-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		ng/kg		ng/kg	ng/kg	
12937	2378-TCDD	1746-01-6	235	B	12.5	0.632	1
12937	12378-PeCDD	40321-76-4	1,190	B	62.3	0.914	1
12937	123478-HxCDD	39227-28-6	1,220	B	62.3	0.829	1
12937	123678-HxCDD	57653-85-7	1,280	B	62.3	0.891	1
12937	123789-HxCDD	19408-74-3	1,260	B	62.3	0.892	1
12937	1234678-HpCDD	35822-46-9	1,440	B	62.3	0.911	1
12937	OCDD	3268-87-9	3,670		125	1.09	1
12937	2378-TCDF	51207-31-9	253	B	12.5	0.997	1
12937	12378-PeCDF	57117-41-6	1,300	B	62.3	0.445	1
12937	23478-PeCDF	57117-31-4	1,300		62.3	0.449	1
12937	123478-HxCDF	70648-26-9	1,360	B	62.3	1.34	1
12937	123678-HxCDF	57117-44-9	1,350	B	62.3	1.17	1
12937	123789-HxCDF	72918-21-9	1,370	B	62.3	1.78	1
12937	234678-HxCDF	60851-34-5	1,350	B	62.3	1.36	1
12937	1234678-HpCDF	67562-39-4	1,430	B	62.3	0.547	1
12937	1234789-HpCDF	55673-89-7	1,340	B	62.3	1.25	1
12937	OCDF	39001-02-0	2,750	B	125	0.895	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	60	40 - 135
13C12-12378-PeCDD	61	40 - 135
13C12-123478-HxCDD	78	40 - 135
13C12-123678-HxCDD	80	40 - 135
13C12-123789-HxCDD	76	40 - 135
13C12-1234678-HpCDD	81	40 - 135
13C12-OCDD	72	40 - 135
13C12-2378-TCDF	58	40 - 135
13C12-12378-PeCDF	63	40 - 135
13C12-23478-PeCDF	57	40 - 135
13C12-123478-HxCDF	81	40 - 135
13C12-123678-HxCDF	94	40 - 135
13C12-234678-HxCDF	80	40 - 135
13C12-123789-HxCDF	68	40 - 135
13C12-1234678-HpCDF	126	40 - 135
13C12-1234789-HpCDF	70	40 - 135
13C12-OCDF	62	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB03-013MSD Grab Soil
Galveston, TX

LL Sample # SW 7947207
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:25 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

-B213 SDG#: CGI03-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB03-013MSD Grab Soil
Galveston, TX

LL Sample # SW 7947207
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:25 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

-B213 SDG#: CGI03-12MSD

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/06/2015 23:09	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/03/2015 10:00	Ginelle L McQuaid	1
00118	Moisture	SM 2540 G-1997	1	15180820005B	06/29/2015 23:19	Scott W Freisher	1
00121	Moisture Duplicate	SM 2540 G-1997	1	15180820005B	06/29/2015 23:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB03-020 Grab Soil
Galveston, TX

LL Sample # SW 7947208
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:35 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B-220 SDG#: CGI03-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	16.0	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB03-020 Grab Soil
Galveston, TX

LL Sample # SW 7947208
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:35 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

B-220 SDG#: CGI03-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		ng/kg		ng/kg	ng/kg	
12937	2378-TCDD	1746-01-6	1.45	JBQ	11.8	0.376	1
12937	12378-PeCDD	40321-76-4	7.51	JB	58.9	0.451	1
12937	123478-HxCDD	39227-28-6	6.42	JBQ	58.9	0.439	1
12937	123678-HxCDD	57653-85-7	12.1	JB	58.9	0.442	1
12937	123789-HxCDD	19408-74-3	10.4	JB	58.9	0.476	1
12937	1234678-HpCDD	35822-46-9	144	B	58.9	0.486	1
12937	OCDD	3268-87-9	909		118	0.549	1
12937	2378-TCDF	51207-31-9	2.40	JB	11.8	0.406	1
12937	12378-PeCDF	57117-41-6	6.80	JB	58.9	0.238	1
12937	23478-PeCDF	57117-31-4	6.72	JQ	58.9	0.251	1
12937	123478-HxCDF	70648-26-9	5.63	JB	58.9	0.376	1
12937	123678-HxCDF	57117-44-9	6.15	JB	58.9	0.319	1
12937	123789-HxCDF	72918-21-9	7.59	JB	58.9	0.514	1
12937	234678-HxCDF	60851-34-5	7.81	JB	58.9	0.357	1
12937	1234678-HpCDF	67562-39-4	31.8	JB	58.9	0.151	1
12937	1234789-HpCDF	55673-89-7	7.76	JB	58.9	0.384	1
12937	OCDF	39001-02-0	46.9	JB	118	0.407	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	56	40 - 135
13C12-12378-PeCDD	58	40 - 135
13C12-123478-HxCDD	77	40 - 135
13C12-123678-HxCDD	77	40 - 135
13C12-123789-HxCDD	72	40 - 135
13C12-1234678-HpCDD	74	40 - 135
13C12-OCDD	67	40 - 135
13C12-2378-TCDF	55	40 - 135
13C12-12378-PeCDF	60	40 - 135
13C12-23478-PeCDF	53	40 - 135
13C12-123478-HxCDF	76	40 - 135
13C12-123678-HxCDF	89	40 - 135
13C12-234678-HxCDF	77	40 - 135
13C12-123789-HxCDF	63	40 - 135
13C12-1234678-HpCDF	119	40 - 135
13C12-1234789-HpCDF	61	40 - 135
13C12-OCDF	53	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB03-020 Grab Soil
Galveston, TX

LL Sample # SW 7947208
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:35 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B-220 SDG#: CGI03-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB03-020 Grab Soil
Galveston, TX

LL Sample # SW 7947208
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 14:35 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

B-220 SDG#: CGI03-13

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/07/2015 00:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/03/2015 10:00	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15180820005B	06/29/2015 23:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB10-010 Grab Soil
Galveston, TX

LL Sample # SW 7947209
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 15:40 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

1010B SDG#: CGI03-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	5.4	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB10-010 Grab Soil
Galveston, TX

LL Sample # SW 7947209
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 15:40 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

1010B SDG#: CGI03-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		ng/kg		ng/kg	ng/kg	
12937	2378-TCDD	1746-01-6	1.05	JBQ	9.88	0.447	1
12937	12378-PeCDD	40321-76-4	2.34	JBQ	49.4	0.649	1
12937	123478-HxCDD	39227-28-6	1.77	JBQ	49.4	0.507	1
12937	123678-HxCDD	57653-85-7	5.13	JBQ	49.4	0.532	1
12937	123789-HxCDD	19408-74-3	3.60	JB	49.4	0.555	1
12937	1234678-HpCDD	35822-46-9	71.7	B	49.4	0.567	1
12937	OCDD	3268-87-9	367		98.8	0.593	1
12937	2378-TCDF	51207-31-9	1.30	JBQ	9.88	0.482	1
12937	12378-PeCDF	57117-41-6	6.73	JBQ	49.4	0.249	1
12937	23478-PeCDF	57117-31-4	1.07	JQ	49.4	0.260	1
12937	123478-HxCDF	70648-26-9	2.19	JBQ	49.4	0.479	1
12937	123678-HxCDF	57117-44-9	2.64	JBQ	49.4	0.390	1
12937	123789-HxCDF	72918-21-9	2.37	JBQ	49.4	0.580	1
12937	234678-HxCDF	60851-34-5	3.87	JB	49.4	0.484	1
12937	1234678-HpCDF	67562-39-4	94.8	B	49.4	0.248	1
12937	1234789-HpCDF	55673-89-7	3.70	JB	49.4	0.595	1
12937	OCDF	39001-02-0	408	B	98.8	0.753	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	58	40 - 135
13C12-12378-PeCDD	59	40 - 135
13C12-123478-HxCDD	75	40 - 135
13C12-123678-HxCDD	77	40 - 135
13C12-123789-HxCDD	72	40 - 135
13C12-1234678-HpCDD	81	40 - 135
13C12-OCDD	70	40 - 135
13C12-2378-TCDF	56	40 - 135
13C12-12378-PeCDF	62	40 - 135
13C12-23478-PeCDF	54	40 - 135
13C12-123478-HxCDF	73	40 - 135
13C12-123678-HxCDF	88	40 - 135
13C12-234678-HxCDF	74	40 - 135
13C12-123789-HxCDF	70	40 - 135
13C12-1234678-HpCDF	115	40 - 135
13C12-1234789-HpCDF	61	40 - 135
13C12-OCDF	54	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB10-010 Grab Soil
Galveston, TX

LL Sample # SW 7947209
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 15:40 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

1010B SDG#: CGI03-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB10-010 Grab Soil
Galveston, TX

LL Sample # SW 7947209
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 15:40 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

1010B SDG#: CGI03-14

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/07/2015 04:08	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/03/2015 10:00	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15180820005B	06/29/2015 23:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB10-020 Grab Soil
Galveston, TX

LL Sample # SW 7947210
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 15:55 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

1020B SDG#: CGI03-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	19.2	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB10-020 Grab Soil
Galveston, TX

LL Sample # SW 7947210
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 15:55 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

1020B SDG#: CGI03-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		**ng/kg**		**ng/kg**	**ng/kg**	
12937	2378-TCDD	1746-01-6	7.99	JBQ	12.3	0.816	1
12937	12378-PeCDD	40321-76-4	15.0	JB	61.3	1.36	1
12937	123478-HxCDD	39227-28-6	13.8	JB	61.3	0.824	1
12937	123678-HxCDD	57653-85-7	52.0	JB	61.3	0.809	1
12937	123789-HxCDD	19408-74-3	42.6	JB	61.3	0.903	1
12937	1234678-HpCDD	35822-46-9	1,030	B	61.3	1.29	1
12937	OCDD	3268-87-9	4,880		123	1.50	1
13233	2378-TCDF-Conf	51207-31-9	41.2	C	12.3	1.14	1
12937	12378-PeCDF	57117-41-6	22.2	JB	61.3	0.588	1
12937	23478-PeCDF	57117-31-4	35.9	J	61.3	0.565	1
12937	123478-HxCDF	70648-26-9	29.1	JB	61.3	0.865	1
12937	123678-HxCDF	57117-44-9	28.5	JB	61.3	0.805	1
12937	123789-HxCDF	72918-21-9	11.3	JBQ	61.3	1.14	1
12937	234678-HxCDF	60851-34-5	32.9	JB	61.3	0.890	1
12937	1234678-HpCDF	67562-39-4	148	B	61.3	0.337	1
12937	1234789-HpCDF	55673-89-7	10.9	JB	61.3	0.639	1
12937	OCDF	39001-02-0	193	B	123	0.579	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	62	40 - 135
13C12-2378-TCDF-Conf	68	40 - 135
13C12-12378-PeCDD	55	40 - 135
13C12-123478-HxCDD	76	40 - 135
13C12-123678-HxCDD	78	40 - 135
13C12-123789-HxCDD	73	40 - 135
13C12-1234678-HpCDD	78	40 - 135
13C12-OCDD	72	40 - 135
13C12-12378-PeCDF	57	40 - 135
13C12-23478-PeCDF	54	40 - 135
13C12-123478-HxCDF	84	40 - 135
13C12-123678-HxCDF	93	40 - 135
13C12-234678-HxCDF	84	40 - 135
13C12-123789-HxCDF	72	40 - 135
13C12-1234678-HpCDF	109	40 - 135
13C12-1234789-HpCDF	71	40 - 135
13C12-OCDF	65	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB10-020 Grab Soil
Galveston, TX

LL Sample # SW 7947210
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 15:55 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

1020B SDG#: CGI03-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB10-020 Grab Soil
Galveston, TX

LL Sample # SW 7947210
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 15:55 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

1020B SDG#: CGI03-15

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13233	D/F in Solids 8290-Conf	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/09/2015 06:04	Joseph D Anderson	1
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/07/2015 05:05	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/03/2015 10:00	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15180820005B	06/29/2015 23:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB09-010 Grab Soil
Galveston, TX

LL Sample # SW 7947211
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 16:10 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B910- SDG#: CGI03-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	14.1	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB09-010 Grab Soil
Galveston, TX

LL Sample # SW 7947211
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 16:10 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B910- SDG#: CGI03-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		ng/kg		ng/kg	ng/kg	
12937	2378-TCDD	1746-01-6	N.D.		11.1	0.505	1
12937	12378-PeCDD	40321-76-4	N.D.		55.4	1.20	1
12937	123478-HxCDD	39227-28-6	41.1	JB	55.4	0.720	1
12937	123678-HxCDD	57653-85-7	114	B	55.4	0.791	1
12937	123789-HxCDD	19408-74-3	104	B	55.4	0.771	1
12937	1234678-HpCDD	35822-46-9	2,560	B	55.4	1.27	1
12937	OCDD	3268-87-9	14,300		111	1.42	1
13233	2378-TCDF-Conf	51207-31-9	19.9	C	11.1	0.698	1
12937	12378-PeCDF	57117-41-6	23.4	JB	55.4	0.459	1
12937	23478-PeCDF	57117-31-4	26.6	J	55.4	0.430	1
12937	123478-HxCDF	70648-26-9	45.4	JB	55.4	0.761	1
12937	123678-HxCDF	57117-44-9	48.7	JB	55.4	0.723	1
12937	123789-HxCDF	72918-21-9	13.2	JBQ	55.4	0.950	1
12937	234678-HxCDF	60851-34-5	55.1	JB	55.4	0.763	1
12937	1234678-HpCDF	67562-39-4	2,620	B	55.4	0.786	1
12937	1234789-HpCDF	55673-89-7	72.6	B	55.4	1.29	1
12937	OCDF	39001-02-0	16,000	B	111	1.22	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	66	40 - 135
13C12-2378-TCDF-Conf	73	40 - 135
13C12-12378-PeCDD	62	40 - 135
13C12-123478-HxCDD	75	40 - 135
13C12-123678-HxCDD	76	40 - 135
13C12-123789-HxCDD	73	40 - 135
13C12-1234678-HpCDD	76	40 - 135
13C12-OCDD	75	40 - 135
13C12-12378-PeCDF	63	40 - 135
13C12-23478-PeCDF	63	40 - 135
13C12-123478-HxCDF	84	40 - 135
13C12-123678-HxCDF	87	40 - 135
13C12-234678-HxCDF	82	40 - 135
13C12-123789-HxCDF	77	40 - 135
13C12-1234678-HpCDF	97	40 - 135
13C12-1234789-HpCDF	77	40 - 135
13C12-OCDF	81	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB09-010 Grab Soil
Galveston, TX

LL Sample # SW 7947211
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 16:10 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B910- SDG#: CGI03-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB09-010 Grab Soil
Galveston, TX

LL Sample # SW 7947211
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 16:10 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

B910- SDG#: CGI03-16

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13233	D/F in Solids 8290-Conf	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/09/2015 17:15	Joseph D Anderson	1
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/07/2015 06:01	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/03/2015 10:00	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15180820005B	06/29/2015 23:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB09-020 Grab Soil
Galveston, TX

LL Sample # SW 7947212
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 16:25 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B920- SDG#: CGI03-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	21.9	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

eurofins | Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: INC-SB09-020 Grab Soil
Galveston, TX

LL Sample # SW 7947212
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 16:25 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B920- SDG#: CGI03-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		ng/kg		ng/kg	ng/kg	
12937	2378-TCDD	1746-01-6	14.8	B	12.7	1.00	1
12937	12378-PeCDD	40321-76-4	50.5	JBQ	63.4	1.53	1
12937	123478-HxCDD	39227-28-6	48.8	JB	63.4	0.901	1
12937	123678-HxCDD	57653-85-7	139	B	63.4	0.953	1
12937	123789-HxCDD	19408-74-3	118	B	63.4	0.999	1
12937	1234678-HpCDD	35822-46-9	2,310	B	63.4	1.54	1
12937	OCDD	3268-87-9	8,400		127	1.38	1
13233	2378-TCDF-Conf	51207-31-9	143	C	12.7	1.53	1
12937	12378-PeCDF	57117-41-6	96.3	B	63.4	0.583	1
12937	23478-PeCDF	57117-31-4	204		63.4	0.605	1
12937	123478-HxCDF	70648-26-9	137	B	63.4	1.07	1
12937	123678-HxCDF	57117-44-9	127	B	63.4	0.932	1
12937	123789-HxCDF	72918-21-9	40.2	JB	63.4	1.36	1
12937	234678-HxCDF	60851-34-5	207	B	63.4	1.02	1
12937	1234678-HpCDF	67562-39-4	443	B	63.4	0.322	1
12937	1234789-HpCDF	55673-89-7	37.1	JB	63.4	0.676	1
12937	OCDF	39001-02-0	522	B	127	0.496	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	68	40 - 135
13C12-2378-TCDF-Conf	78	40 - 135
13C12-12378-PeCDD	64	40 - 135
13C12-123478-HxCDD	78	40 - 135
13C12-123678-HxCDD	80	40 - 135
13C12-123789-HxCDD	74	40 - 135
13C12-1234678-HpCDD	80	40 - 135
13C12-OCDD	78	40 - 135
13C12-12378-PeCDF	69	40 - 135
13C12-23478-PeCDF	62	40 - 135
13C12-123478-HxCDF	86	40 - 135
13C12-123678-HxCDF	93	40 - 135
13C12-234678-HxCDF	84	40 - 135
13C12-123789-HxCDF	74	40 - 135
13C12-1234678-HpCDF	121	40 - 135
13C12-1234789-HpCDF	73	40 - 135
13C12-OCDF	68	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB09-020 Grab Soil
Galveston, TX

LL Sample # SW 7947212
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 16:25 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B920- SDG#: CGI03-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB09-020 Grab Soil
Galveston, TX

LL Sample # SW 7947212
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 16:25 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

B920- SDG#: CGI03-17

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13233	D/F in Solids 8290-Conf	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/09/2015 18:10	Joseph D Anderson	1
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/07/2015 06:58	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/03/2015 10:00	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15180820005B	06/29/2015 23:19	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB09-015 Grab Groundwater
Galveston, TX

LL Sample # WW 7947213
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 16:30 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

B915- SDG#: CGI03-18

CAT No.	Analysis Name	CAS Number	Result		MRL*	EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		pg/l		pg/l	pg/l	
12936	2378-TCDD	1746-01-6	N.D.		1.94	0.576	1
12936	12378-PeCDD	40321-76-4	N.D.		9.68	0.353	1
12936	123478-HxCDD	39227-28-6	0.705	JBQ	9.68	0.222	1
12936	123678-HxCDD	57653-85-7	0.366	JQ	9.68	0.226	1
12936	123789-HxCDD	19408-74-3	0.519	JQ	9.68	0.247	1
12936	1234678-HpCDD	35822-46-9	1.34	JBQ	9.68	0.196	1
12936	OCDD	3268-87-9	11.2	JB	19.4	0.255	1
12936	2378-TCDF	51207-31-9	N.D.		1.94	0.342	1
12936	12378-PeCDF	57117-41-6	N.D.		9.68	0.150	1
12936	23478-PeCDF	57117-31-4	0.489	JBQ	9.68	0.134	1
12936	123478-HxCDF	70648-26-9	0.435	JQ	9.68	0.175	1
12936	123678-HxCDF	57117-44-9	0.439	JBQ	9.68	0.166	1
12936	123789-HxCDF	72918-21-9	1.12	JB	9.68	0.197	1
12936	234678-HxCDF	60851-34-5	0.588	JBQ	9.68	0.155	1
12936	1234678-HpCDF	67562-39-4	0.335	JBQ	9.68	0.0796	1
12936	1234789-HpCDF	55673-89-7	0.423	JBQ	9.68	0.0950	1
12936	OCDF	39001-02-0	1.70	JBQ	19.4	0.287	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	53	40 - 135
13C12-12378-PeCDD	64	40 - 135
13C12-123478-HxCDD	75	40 - 135
13C12-123678-HxCDD	76	40 - 135
13C12-123789-HxCDD	69	40 - 135
13C12-1234678-HpCDD	74	40 - 135
13C12-OCDD	77	40 - 135
13C12-2378-TCDF	62	40 - 135
13C12-12378-PeCDF	68	40 - 135
13C12-23478-PeCDF	69	40 - 135
13C12-123478-HxCDF	79	40 - 135
13C12-123678-HxCDF	80	40 - 135
13C12-234678-HxCDF	87	40 - 135
13C12-123789-HxCDF	82	40 - 135
13C12-1234678-HpCDF	82	40 - 135
13C12-1234789-HpCDF	82	40 - 135
13C12-OCDF	85	40 - 135

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB09-015 Grab Groundwater
Galveston, TX

LL Sample # WW 7947213
LL Group # 1572798
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 16:30 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

B915- SDG#: CGI03-18

CAT No.	Analysis Name	CAS Number	Result	MRL*	EDL	Dilution Factor
S	*Saturation of detection signal*					

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12936	Dioxins/Furans in Water - 8290	SW-846 8290A Feb 2007 Rev 1	1	15182001	07/03/2015 04:40	Michael A Ziegler	1
10914	Dioxins/Furans in Water - SepF	SW-846 8290A Feb 2007 Rev 1	1	15182001	07/01/2015 08:20	Brett M Weidman	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: AECOM Group Number: 1572798
Reported: 08/07/2015 15:01

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ**	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 15180820005B	Sample number(s): 7947195-7947212								
Moisture					100		99-101		
Moisture					100		99-101		
Moisture Duplicate					100		99-101		

Analysis Name	Blank Result	Blank MRL**	Blank EDL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 15182001	Sample number(s): 7947194,7947213								
2378-TCDD	N.D.	2.00	0.482	pg/l	113		67-158		
12378-PeCDD	0.534 J	10.0	0.298	pg/l	106		70-142		
123478-HxCDD	0.711 J	10.0	0.183	pg/l	110		70-164		
123678-HxCDD	N.D.	10.0	0.194	pg/l	111		76-134		
123789-HxCDD	N.D.	10.0	0.205	pg/l	118		64-162		
1234678-HpCDD	0.424 J	10.0	0.174	pg/l	110		70-140		
OCDD	1.10 J	20.0	0.234	pg/l	108		78-144		
2378-TCDF	N.D.	2.00	0.335	pg/l	111		75-158		
12378-PeCDF	0.329 J	10.0	0.137	pg/l	112		80-134		
23478-PeCDF	0.344 J	10.0	0.120	pg/l	112		68-160		
123478-HxCDF	N.D.	10.0	0.131	pg/l	109		72-134		
123678-HxCDF	0.188 J	10.0	0.126	pg/l	110		84-130		
123789-HxCDF	1.16 J	10.0	0.170	pg/l	118		78-130		
234678-HxCDF	0.338 J	10.0	0.130	pg/l	109		70-156		
1234678-HpCDF	0.449 J	10.0	0.0696	pg/l	108		82-122		
1234789-HpCDF	0.144 J	10.0	0.0945	pg/l	107		78-138		
OCDF	0.371 J	20.0	0.281	pg/l	105		63-170		
Batch number: 15182002	Sample number(s): 7947195-7947200								
2378-TCDD	N.D.	1.00	0.0451	ng/kg	113		67-158		
12378-PeCDD	N.D.	5.00	0.0276	ng/kg	104		70-142		
123478-HxCDD	0.0310 J	5.00	0.0188	ng/kg	112		70-164		
123678-HxCDD	0.0264 J	5.00	0.0198	ng/kg	111		76-134		
123789-HxCDD	0.0809 J	5.00	0.0204	ng/kg	115		64-162		
1234678-HpCDD	0.0780 J	5.00	0.0148	ng/kg	108		70-140		
OCDD	0.0963 J	10.0	0.0223	ng/kg	106		78-144		
2378-TCDF	N.D.	1.00	0.0338	ng/kg	115		75-158		
2378-TCDF-Conf	0.320 J	1.00	0.106	ng/kg	115		75-158		
12378-PeCDF	0.0624 J	5.00	0.0139	ng/kg	112		80-134		
23478-PeCDF	0.0272 J	5.00	0.0147	ng/kg	107		68-160		
123478-HxCDF	0.0396 J	5.00	0.0165	ng/kg	106		72-134		
123678-HxCDF	0.0302 J	5.00	0.0147	ng/kg	107		84-130		
123789-HxCDF	0.142 J	5.00	0.0191	ng/kg	116		78-130		
234678-HxCDF	0.0465 J	5.00	0.0159	ng/kg	106		70-156		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: AECOM Group Number: 1572798
Reported: 08/07/2015 15:01

Analysis Name	Blank Result	Blank MRL**	Blank EDL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234678-HpCDF	0.0489 J	5.00	0.00640	ng/kg	102		82-122		
1234789-HpCDF	N.D.	5.00	0.0127	ng/kg	107		78-138		
OCDF	0.0890 J	10.0	0.0363	ng/kg	105		63-170		
Batch number: 15183004	Sample number(s): 7947201-7947212								
2378-TCDD	0.0306 J	1.00	0.0293	ng/kg	97		67-158		
12378-PeCDD	0.0431 J	5.00	0.0294	ng/kg	96		70-142		
123478-HxCDD	0.0784 J	5.00	0.0169	ng/kg	101		70-164		
123678-HxCDD	0.0777 J	5.00	0.0182	ng/kg	101		76-134		
123789-HxCDD	0.0806 J	5.00	0.0198	ng/kg	103		64-162		
1234678-HpCDD	0.0577 J	5.00	0.0172	ng/kg	95		70-140		
OCDD	N.D.	10.0	0.0180	ng/kg	97		78-144		
2378-TCDF	0.0439 J	1.00	0.0298	ng/kg	103		75-158		
2378-TCDF-Conf	N.D.	1.00	0.0358	ng/kg	103		75-158		
12378-PeCDF	0.0490 J	5.00	0.0176	ng/kg	101		80-134		
23478-PeCDF	N.D.	5.00	0.0178	ng/kg	101		68-160		
123478-HxCDF	0.0767 J	5.00	0.0194	ng/kg	107		72-134		
123678-HxCDF	0.0615 J	5.00	0.0159	ng/kg	108		84-130		
123789-HxCDF	0.221 J	5.00	0.0249	ng/kg	111		78-130		
234678-HxCDF	0.0502 J	5.00	0.0184	ng/kg	108		70-156		
1234678-HpCDF	0.0528 J	5.00	0.00653	ng/kg	102		82-122		
1234789-HpCDF	0.0992 J	5.00	0.0151	ng/kg	104		78-138		
OCDF	0.182 J	10.0	0.0362	ng/kg	104		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 15180820005B	Sample number(s): 7947195-7947212 BKG: 7947205								
Moisture						20.6	16.8	20*	5
Moisture						20.6	16.8	20*	5
Moisture Duplicate						20.6	16.8	20*	5
Batch number: 15182001	Sample number(s): 7947194,7947213 UNSPK: P946014								
2378-TCDD	111	118	67-158	4	25				
12378-PeCDD	107	107	70-142	2	25				
123478-HxCDD	109	111	70-164	0	25				
123678-HxCDD	112	111	76-134	2	25				
123789-HxCDD	113	116	64-162	1	25				
1234678-HpCDD	107	108	70-140	0	25				
OCDD	108	107	78-144	3	25				
2378-TCDF	111	115	75-158	3	25				
12378-PeCDF	111	110	80-134	2	25				
23478-PeCDF	109	110	68-160	0	25				
123478-HxCDF	107	107	72-134	2	25				
123678-HxCDF	110	109	84-130	2	25				
123789-HxCDF	119	118	78-130	2	25				
234678-HxCDF	109	105	70-156	5	25				
1234678-HpCDF	104	106	82-122	0	25				
1234789-HpCDF	105	106	78-138	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: AECOM Group Number: 1572798
Reported: 08/07/2015 15:01

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDF	106	106	63-170	2	25				
Batch number: 15183004	Sample number(s): 7947201-7947212 UNSPK: 7947205								
2378-TCDD	91	94	67-158	13	25				
12378-PeCDD	94	95	70-142	11	25				
123478-HxCDD	97	98	70-164	10	25				
123678-HxCDD	100	101	76-134	11	25				
123789-HxCDD	101	100	64-162	8	25				
1234678-HpCDD	95	100	70-140	12	25				
OCDD	85	106	78-144	22	25				
2378-TCDF	95	99	75-158	14	25				
2378-TCDF-Conf	95	99	75-158	14	20				
12378-PeCDF	103	104	80-134	10	25				
23478-PeCDF	100	103	68-160	13	25				
123478-HxCDF	108	109	72-134	10	25				
123678-HxCDF	107	108	84-130	10	25				
123789-HxCDF	111	109	78-130	8	25				
234678-HxCDF	109	107	70-156	8	25				
1234678-HpCDF	101	110	82-122	17	25				
1234789-HpCDF	103	107	78-138	13	25				
OCDF	102	108	63-170	14	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Dioxins/Furans in Water - 8290
Batch number: 15182001

	13C12-2378-TCDD	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD
7947194	60	74	80	81	75	78
7947213	53	64	75	76	69	74
Blank	60	75	77	78	74	75
MS	55	67	73	73	69	76
MSD	54	68	79	76	70	76
OPR	54	70	72	73	60	69
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF
7947194	77	69	78	77	84	87
7947213	77	62	68	69	79	80
Blank	68	70	80	82	84	88
MS	82	62	74	71	74	80
MSD	81	60	75	71	77	83
OPR	68	60	76	72	87	90
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

	13C12-234678-HxCDF	13C12-123789-HxCDF	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: AECOM
Reported: 08/07/2015 15:01

Group Number: 1572798

Surrogate Quality Control

7947194	87	90	96	79	75
7947213	87	82	82	82	85
Blank	85	82	88	76	69
MS	82	77	99	73	73
MSD	87	79	101	73	70
OPR	72	67	95	83	83
Limits:	40-135	40-135	40-135	40-135	40-135

Analysis Name: Dioxins/Furans in Solids-8290
Batch number: 15182002

	13C12-2378-TCDD	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD
7947195	62	68	87	86	77	80
7947196	46	54	60	62	56	61
7947197	56	69	78	77	71	72
7947198	63	66	81	79	72	77
7947199	68	72	79	78	73	81
7947200	51	66	71	70	66	71
Blank	50	63	69	67	62	71
OPR	52	64	73	72	68	73
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF
7947195	95	72	78	71	80	89
7947196	61		62	55	62	71
7947197	73	61	74	69	71	84
7947198	85	75	74	72	80	82
7947199	90	80	82	80	86	87
7947200	72		74	64	67	81
Blank	78	55	69	62	63	74
OPR	79	54	68	61	68	81
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

	13C12-234678-HxCDF	13C12-123789-HxCDF	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-2378-TCDF-Conf
7947195	99	73	109	73	78	
7947196	62	51	86	50	47	45
7947197	78	61	104	57	53	
7947198	96	88	96	82	84	
7947199	88	81	96	87	93	
7947200	74	59	104	55	50	66
Blank	66	69	99	61	60	49
OPR	71	58	105	58	58	54
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

Analysis Name: Dioxins/Furans in Solids-8290
Batch number: 15183004

	13C12-2378-TCDD	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD
7947201	59	58	78	79	73	69
7947202	58	62	76	77	72	73
7947203	78	75	90	92	86	89
7947204	71	69	87	91	83	87
7947205	72	84	92	90	81	85
7947206	57	58	75	73	66	78
7947207	60	61	78	80	76	81
7947208	56	58	77	77	72	74
7947209	58	59	75	77	72	81

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: AECOM
Reported: 08/07/2015 15:01

Group Number: 1572798

Surrogate Quality Control

7947210	62	55	76	78	73	78
7947211	66	62	75	76	73	76
7947212	68	64	78	80	74	80
Blank	55	54	79	77	72	71
MS	57	58	75	73	66	78
MSD	60	61	78	80	76	81
OPR	55	57	74	77	72	76
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF
7947201	63	59	60	56	80	90
7947202	61	57	63	55	73	86
7947203	82	75	77	69	97	107
7947204	83	73	72	65	90	102
7947205	84	81	93	82	88	99
7947206	65	56	61	54	79	84
7947207	72	58	63	57	81	94
7947208	67	55	60	53	76	89
7947209	70	56	62	54	73	88
7947210	72		57	54	84	93
7947211	75		63	63	84	87
7947212	78		69	62	86	93
Blank	62	51	56	49	72	83
MS	65	56	61	54	79	84
MSD	72	58	63	57	81	94
OPR	68	52	57	51	72	85
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

	13C12-234678-HxCDF	13C12-123789-HxCDF	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-2378-TCDF-Conf
7947201	80	68	95	61	57	
7947202	73	76	114	57	48	
7947203	92	80	127	78	73	
7947204	90	76	134	76	71	
7947205	88	86	116	76	69	
7947206	77	74	119	68	59	
7947207	80	68	126	70	62	
7947208	77	63	119	61	53	
7947209	74	70	115	61	54	
7947210	84	72	109	71	65	68
7947211	82	77	97	77	81	73
7947212	84	74	121	73	68	78
Blank	72	64	94	55	49	58
MS	77	74	119	68	59	56
MSD	80	68	126	70	62	58
OPR	72	57	97	60	53	52
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

378739

eurofins

Lancaster Laboratories Environmental

Acct. # 20742 For Eurofins Lancaster Laboratories Environmental use only Group # 1577798 Sample # 7947194-213

Instructions on reverse side correspond with circled numbers.

1 Client Information

Client: URS/AECOM

Acct. #:

Project Name/#: City of Galveston Incinerator

PWSID #:

Project Manager: Carol Lovett

P.O. #:

Sampler: Lisa Pedrazia

Quote #:

Name of state where samples were collected: Texas

4 Matrix: Sediment ☐ Soil ☒ Water: Ground ☒ Potable ☐ Surface ☐ NPDES ☐ Other: ____

5 Analysis Requested / Preservation Codes

For Lab Use Only
FSC:
SCR#:

Preservation Codes: H=HCl, T=Thiosulfate, N=HNO_3, B=NaOH, S=H_2SO_4, O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Sediment	Ground	Surface	Potable	NPDES	Other	Total # of Containers	SW8290A	SW8290A % M	Remarks
INC-MW01-010	6/24/15	1620	X			X					2	2		
INC-SB05-010	6/25/15	1235	X		X						1		1	
INC-SB05-020	6/25/15	1240	X		X						1		1	
INC-SB05-021	6/25/15	1240	X		X						1		1	
INC-SB01-010	6/25/15	1255	X		X						1		1	
INC-SB01-011	6/25/15	1255	X		X						1		1	
INC-SB01-020	6/25/15	1310	X		X						1		1	
INC-SB04-010	6/25/15	1335	X		X						1		1	
INC-SB04-020	6/25/15	1350	X		X						1		1	
INC-SB02-010	6/25/15	1400	X		X						1		1	

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: ____

E-mail address: CAROL.LOVETT@AECOM.COM

8 Data Package Options (circle if required)

Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

NYSDEC Category A or B MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	6/26/15	1500			
			[signature]	6.27.15	930

EDD Required? Yes No

If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 4.1 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 0315

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

Acct. # 20742 For Eurofins Lancaster Laboratories Environmental use only Group # 1572798 Sample # 7947194-213

Instructions on reverse side correspond with circled numbers.

378736

(1) Client Information

Client: UPS/AECOM

Acct. #:

Project Name/#: City of Galveston Incinerator

PWSID #:

Project Manager: Carol Lovett

P.O. #:

Sampler: Lisa DeGrazia

Quote #:

Name of state where samples were collected: Texas

(4) Matrix: Sediment ☐ Soil ☒ Water: Ground ☒ Surface ☐ Potable ☐ NPDES ☐ Other: ____

(5) Analysis Requested — Preservation Codes

For Lab Use Only
FSC:
SCR#: 172987

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

(2) Sample Identification	Collected Date	Collected Time	(3) Grab	Composite	Soil	Ground	Surface	Potable	NPDES	Other	Total # of Containers	SW8290A	SW8290A % M	(6) Remarks
INC-SB02-020	6/25/15	1410	X		X						1		1	
INC-SB03-013	6/25/15	1425	X		X						3		3	MS/MSD
INC-SB03-020	6/25/15	1435	X		X						1		1	
~~INC-SB24-010~~	~~6/25/15~~	~~1505~~	~~X~~		~~X~~									
INC-SB10-010	6/25/15	1540	X		X						1		1	
INC-SB10-020	6/25/15	1555	X		X						1		1	
INC-SB09-010	6/25/15	1610	X		X						1		1	
INC-SB09-020	6/25/15	1625	X		X						1		1	
~~INC-SB09-015~~	~~6/25/15~~	~~1630~~	~~X~~		~~X~~						~~1~~			
INC-SB09-015	6/25/15	1630				X					2	2		

(7) Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: ____

E-mail address: ____

(8) Data Package Options (circle if required)
Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
NYSDEC Category A or B MA MCP CT RCP

(9)

Relinquished by	Date	Time	Received by	Date	Time
[signature]	6/29/15	9:00	[signature]		
[signature]	6/26				
			[signature]	6.27.15	920

EDD Required? Yes No
If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 4.1 °C

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 82401

Group Number(s): 1572798

Client: URS

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	06/27/2015 9:30
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	TX		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	Yes		
Discrepancy in Container Qty on COC:	No		

Unpacked by Timothy Cubberley (6520) at 12:33 on 06/27/2015

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	4.1	DT	Wet	Y	Bagged	N

Extra Sample Details

Sample ID on Label	Number of Extra Containers	Date on Label	Comments
INC-SB24-020	1	6/25/2015 15:20	

General Comments: INC-SB24-010 was crossed out but we did receive it.

2425 New Holland Pike
Lancaster, PA 17601-2425
T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

A20742 G-1572798

eurofins Lancaster Laboratories Environmental	Document Title: TRRP-13 Laboratory Review Checklist: Exception Reports		
	Eurofins Document Reference: 1-P-QM-FOR-9008051	Revision: 4	Historical Reference: Form 3646
	Effective date: Apr 9, 2014	Status: Effective	

TRRP-13 Laboratory Review Checklist: Exception Reports	SDG #: CGI03
Department or Fraction: ALL	Project Name: City of Galveston Incinerator
Reviewer Name: Carolyn Cyms	ELLE Sample #(s): 7947194-213
LRC Date: 06/27/15	Batch #(s): NA

ER # [1]	DESCRIPTION
1	INC-SB24-020 – not listed on paperwork, but submitted.
2	INC-SB24-010 crossed off of paperwork, but submitted.

[1]ER#=Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC).

Issued by Dept. 4038 Management

A-20742 G-1572798

TRRP-13 Laboratory Review Checklist: COC/Sample Identification

Project Name: City of Galveston

ELLE Sample #(s): 7947194-213

SDG #: CGI03

Reviewer Name: Carolyn Cyms 964

LRC Date: 6/27/15

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
R1	**OI**	**CHAIN-OF-CUSTODY (COC)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			
		2) Were all departures from standard conditions described in an exception report?	X				
R2	**OI**	**SAMPLE IDENTIFICATION**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				

[1]Items identified by the letter "R" must be included in the laboratory data package.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

Dioxins/Furans by HRMS Data

eurofins | Lancaster Laboratories Environmental

FORM 01A
CDD/CDF SAMPLE DATA SUMMARY
HIGH RESOLUTION

SDG No.: CGI03

Matrix: WATER
Sample (vol): 1000 (ml)
Water Sample Prep: SEPF
Concentration Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL)
GC Column: DB5MS

Instrument ID: DF17280
% Solid/Lipids: N/A
ID: 0.25 (mm)

Lab Sample ID: BLK182001
Lab File ID: 15JUL02-06
Date Received: N/A
Date Extracted: 07/01/2015 08:20
Date Analyzed: 07/02/2015 21:05
Dilution Factor: 1.0

Concentration Units: ng/kg

Analyte	Selected Ions	Peak RT	Ion Ratio	Concentration	Qual.	EDL
2378-TCDF	304/306	28.48	0.55 *		U	0.334601
2378-TCDD	320/322	29.60	0.89		U	0.482377
12378-PeCDF	340/342	34.73	2.22 *	0.329238	JQ	0.137362
23478-PeCDF	340/342	36.00	1.33	0.343803	J	0.119837
12378-PeCDD	356/358	36.45	1.49	0.53358	J	0.298312
123478-HxCDF	374/376	39.86	0.75 *		U	0.130801
123678-HxCDF	374/376	39.97	17.43 *	0.188058	JQ	0.126001
234678-HxCDF	374/376	40.73	1.98 *	0.337857	JQ	0.130345
123478-HxCDD	390/392	40.95	0.58 *	0.711295	JQ	0.183286
123678-HxCDD	390/392	41.08	0.63 *		U	0.194456
123789-HxCDD	390/392	41.40	1.95 *		U	0.205389
123789-HxCDF	374/376	41.77	1.96 *	1.163454	JQ	0.169581
1234678-HpCDF	408/410	43.56	0.74 *	0.448623	JQ	0.069594
1234678-HpCDD	424/426	44.77	0.41 *	0.424459	JQ	0.174147
1234789-HpCDF	408/410	45.32	0.52 *	0.144327	JQ	0.09448
OCDD	458/460	47.86	0.66 *	1.098419	JQ	0.233956
OCDF	442/444	48.05	0.61 *	0.371034	JQ	0.280602

Labeled Compounds	Selected Ions	Peak RT	Ion Ratio	Ion Ratio Limits	% REC	Recovery Limits
13C12-1278-TCDD (CRS)	332/334	30.01	0.83	0.65 - 0.90	59	35 - 197
13C12-2378-TCDF	316/318	28.46	0.81	0.65 - 0.90	70	40 - 135
13C12-2378-TCDD	332/334	29.56	0.82	0.65 - 0.90	60	40 - 135
13C12-12378-PeCDF	352/354	34.68	1.58	1.32 - 1.79	80	40 - 135
13C12-23478-PeCDF	352/354	36.00	1.60	1.32 - 1.79	82	40 - 135
13C12-12378-PeCDD	368/370	36.41	1.61	1.32 - 1.79	75	40 - 135
13C12-123478-HxCDF	384/386	39.84	0.54	0.43 - 0.60	84	40 - 135
13C12-123678-HxCDF	384/386	39.99	0.54	0.43 - 0.60	88	40 - 135
13C12-234678-HxCDF	384/386	40.71	0.53	0.43 - 0.60	85	40 - 135
13C12-123478-HxCDD	402/404	40.92	1.27	1.05 - 1.44	77	40 - 135
13C12-123678-HxCDD	402/404	41.03	1.28	1.05 - 1.44	78	40 - 135
13C12-123789-HxCDD	402/404	41.35	1.27	1.05 - 1.44	74	40 - 135
13C12-123789-HxCDF	384/386	41.74	0.55	0.43 - 0.60	82	40 - 135
13C12-1234678-HpCDF	418/420	43.54	0.46	0.37 - 0.52	88	40 - 135
13C12-1234678-HpCDD	436/438	44.76	1.11	0.88 - 1.21	75	40 - 135
13C12-1234789-HpCDF	418/420	45.32	0.47	0.37 - 0.52	76	40 - 135
13C12-OCDD	470/472	47.86	0.90	0.76 - 1.03	68	40 - 135

Abbreviations:
B = Detected in Method Blank
U = Undetected
J = Estimated concentration between EDL and LOQ
C = Concentration confirmed on second column
Q = Estimated Maximum Possible Concentration
E = Exceeds calibration range
F = Interference is present
N = See comment in Case Narrative
S = The detector is saturated
* = Outside QC Limits

eurofins | Lancaster Laboratories Environmental

FORM 01A
CDD/CDF SAMPLE DATA SUMMARY
HIGH RESOLUTION

SDG No.: CGI03

Matrix: WATER
Sample (vol): 1000 (ml)
Water Sample Prep: SEPF
Concentration Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL)
GC Column: DB5MS

Instrument ID: DF17280
% Solid/Lipids: N/A
ID: 0.25 (mm)

Lab Sample ID: BLK182001
Lab File ID: 15JUL02-06
Date Received: N/A
Date Extracted: 07/01/2015 08:20
Date Analyzed: 07/02/2015 21:05
Dilution Factor: 1.0

Concentration Units: ng/kg

Labeled Compounds	Selected Ions	Peak RT	Ion Ratio	Ion Ratio Limits	% REC	Recovery Limits
13C12-OCDF	454/456	48.03	0.92	0.76 - 1.03	69	40 - 135

Abbreviations:
B = Detected in Method Blank
U = Undetected
J = Estimated concentration between EDL and LOQ
C = Concentration confirmed on second column
Q = Estimated Maximum Possible Concentration
E = Exceeds calibration range
F = Interference is present
N = See comment in Case Narrative
S = The detector is saturated
* = Outside QC Limits

eurofins | Lancaster Laboratories Environmental

FORM 01A
CDD/CDF SAMPLE DATA SUMMARY
HIGH RESOLUTION

SDG No.: CGI03

Matrix: SOIL
Sample (wt): 10.0 (g)
Water Sample Prep: N/A
Concentration Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL)
GC Column: DB5MS

Instrument ID: DF17280
% Solid/Lipids: 100.0
ID: 0.25 (mm)

Lab Sample ID: BLK182002
Lab File ID: 15JUL06-07
Date Received: N/A
Date Extracted: 07/01/2015 10:15
Date Analyzed: 07/06/2015 16:35
Dilution Factor: 1.0

Concentration Units: ng/kg

Analyte	Selected Ions	Peak RT	Ion Ratio	Concentration	Qual.	EDL
2378-TCDF	304/306	28.43	0.12 *		U	0.0338
2378-TCDD	320/322	29.52	1.91 *		U	0.0451
12378-PeCDF	340/342	34.70	1.19 *	0.0624	JQ	0.0139
23478-PeCDF	340/342	35.99	0.66 *	0.0272	JQ	0.0147
12378-PeCDD	356/358	36.37	16.51 *		U	0.0276
123478-HxCDF	374/376	39.83	1.03 *	0.0396	JQ	0.0165
123678-HxCDF	374/376	40.00	3.52 *	0.0302	JQ	0.0147
234678-HxCDF	374/376	40.72	1.44 *	0.0465	JQ	0.0159
123478-HxCDD	390/392	40.92	1.24	0.0310	J	0.0188
123678-HxCDD	390/392	41.02	0.30 *	0.0264	JQ	0.0198
123789-HxCDD	390/392	41.36	2.31 *	0.0809	JQ	0.0204
123789-HxCDF	374/376	41.76	1.14	0.142	J	0.0191
1234678-HpCDF	408/410	43.54	0.32 *	0.0489	JQ	0.00640
1234678-HpCDD	424/426	44.73	1.30 *	0.0780	JQ	0.0148
1234789-HpCDF	408/410	45.32	0.01 *		U	0.0127
OCDD	458/460	47.85	0.97	0.0963	J	0.0223
OCDF	442/444	47.98	2.04 *	0.0890	JQ	0.0363

Labeled Compounds	Selected Ions	Peak RT	Ion Ratio	Ion Ratio Limits	% REC	Recovery Limits
13C12-1278-TCDD (CRS)	332/334	29.98	0.80	0.65 - 0.90	61	35 - 197
13C12-2378-TCDF	316/318	28.43	0.79	0.65 - 0.90	55	40 - 135
13C12-2378-TCDD	332/334	29.53	0.79	0.65 - 0.90	50	40 - 135
13C12-12378-PeCDF	352/354	34.65	1.61	1.32 - 1.79	69	40 - 135
13C12-23478-PeCDF	352/354	35.97	1.61	1.32 - 1.79	62	40 - 135
13C12-12378-PeCDD	368/370	36.40	1.61	1.32 - 1.79	63	40 - 135
13C12-123478-HxCDF	384/386	39.81	0.53	0.43 - 0.60	63	40 - 135
13C12-123678-HxCDF	384/386	39.96	0.54	0.43 - 0.60	74	40 - 135
13C12-234678-HxCDF	384/386	40.69	0.54	0.43 - 0.60	66	40 - 135
13C12-123478-HxCDD	402/404	40.89	1.27	1.05 - 1.44	69	40 - 135
13C12-123678-HxCDD	402/404	41.00	1.31	1.05 - 1.44	67	40 - 135
13C12-123789-HxCDD	402/404	41.34	1.27	1.05 - 1.44	62	40 - 135
13C12-123789-HxCDF	384/386	41.73	0.55	0.43 - 0.60	69	40 - 135
13C12-1234678-HpCDF	418/420	43.51	0.45	0.37 - 0.52	99	40 - 135
13C12-1234678-HpCDD	436/438	44.73	1.06	0.88 - 1.21	71	40 - 135
13C12-1234789-HpCDF	418/420	45.29	0.47	0.37 - 0.52	61	40 - 135
13C12-OCDD	470/472	47.83	0.90	0.76 - 1.03	78	40 - 135

Abbreviations:
B = Detected in Method Blank
U = Undetected
J = Estimated concentration between EDL and LOQ
C = Concentration confirmed on second column
Q = Estimated Maximum Possible Concentration
E = Exceeds calibration range
F = Interference is present
N = See comment in Case Narrative
S = The detector is saturated
* = Outside QC Limits

eurofins | Lancaster Laboratories Environmental

FORM 01A
CDD/CDF SAMPLE DATA SUMMARY
HIGH RESOLUTION

SDG No.: CGI03

Matrix: SOIL
Sample (wt): 10.0 (g)
Water Sample Prep: N/A
Concentration Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL)
GC Column: DB5MS

Instrument ID: DF17280
% Solid/Lipids: 100.0
ID: 0.25 (mm)

Lab Sample ID: BLK182002
Lab File ID: 15JUL06-07
Date Received: N/A
Date Extracted: 07/01/2015 10:15
Date Analyzed: 07/06/2015 16:35
Dilution Factor: 1.0

Concentration Units: ng/kg

Labeled Compounds	Selected Ions	Peak RT	Ion Ratio	Ion Ratio Limits	% REC	Recovery Limits
13C12-OCDF	454/456	48.00	0.91	0.76 - 1.03	60	40 - 135

Abbreviations:
B = Detected in Method Blank
U = Undetected
J = Estimated concentration between EDL and LOQ
C = Concentration confirmed on second column
Q = Estimated Maximum Possible Concentration
E = Exceeds calibration range
F = Interference is present
N = See comment in Case Narrative
S = The detector is saturated
* = Outside QC Limits

eurofins | Lancaster Laboratories Environmental

FORM 01A
CDD/CDF SAMPLE DATA SUMMARY
HIGH RESOLUTION

SDG No.: CGI03

Matrix: SOIL
Sample (wt): 10.0 (g)
Water Sample Prep: N/A
Concentration Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL)
GC Column: DB5MS

Instrument ID: DF17611
% Solid/Lipids: 100.0
ID: 0.25 (mm)

Lab Sample ID: BLK183004
Lab File ID: 15JUL06-06
Date Received: N/A
Date Extracted: 07/03/2015 10:00
Date Analyzed: 07/06/2015 16:33
Dilution Factor: 1.0

Concentration Units: ng/kg

Analyte	Selected Ions	Peak RT	Ion Ratio	Concentration	Qual.	EDL
2378-TCDF	304/306	30.82	4.27 *	0.0439	JQ	0.0298
2378-TCDD	320/322	31.85	0.62 *	0.0306	JQ	0.0293
12378-PeCDF	340/342	36.39	1.91 *	0.0490	JQ	0.0176
23478-PeCDF	340/342	37.61	1.10 *		U	0.0178
12378-PeCDD	356/358	38.03	0.26 *	0.0431	JQ	0.0294
123478-HxCDF	374/376	41.26	0.38 *	0.0767	JQ	0.0194
123678-HxCDF	374/376	41.37	1.03 *	0.0615	JQ	0.0159
234678-HxCDF	374/376	42.06	1.55 *	0.0502	JQ	0.0184
123478-HxCDD	390/392	42.23	1.50 *	0.0784	JQ	0.0169
123678-HxCDD	390/392	42.37	1.58 *	0.0777	JQ	0.0182
123789-HxCDD	390/392	42.68	2.09 *	0.0806	JQ	0.0198
123789-HxCDF	374/376	43.09	1.11	0.221	J	0.0249
1234678-HpCDF	408/410	44.79	1.53 *	0.0528	JQ	0.00653
1234678-HpCDD	424/426	45.94	2.65 *	0.0577	JQ	0.0172
1234789-HpCDF	408/410	46.52	2.45 *	0.0992	JQ	0.0151
OCDD	458/460	48.94	2.83 *		U	0.0180
OCDF	442/444	49.17	1.38 *	0.182	JQ	0.0362

Labeled Compounds	Selected Ions	Peak RT	Ion Ratio	Ion Ratio Limits	% REC	Recovery Limits
13C12-1278-TCDD (CRS)	332/334	32.23	0.82	0.65 - 0.90	61	35 - 197
13C12-2378-TCDF	316/318	30.77	0.81	0.65 - 0.90	51	40 - 135
13C12-2378-TCDD	332/334	31.83	0.86	0.65 - 0.90	55	40 - 135
13C12-12378-PeCDF	352/354	36.39	1.56	1.32 - 1.79	56	40 - 135
13C12-23478-PeCDF	352/354	37.63	1.58	1.32 - 1.79	49	40 - 135
13C12-12378-PeCDD	368/370	38.01	1.61	1.32 - 1.79	54	40 - 135
13C12-123478-HxCDF	384/386	41.22	0.53	0.43 - 0.60	72	40 - 135
13C12-123678-HxCDF	384/386	41.37	0.54	0.43 - 0.60	83	40 - 135
13C12-234678-HxCDF	384/386	42.06	0.53	0.43 - 0.60	72	40 - 135
13C12-123478-HxCDD	402/404	42.25	1.28	1.05 - 1.44	79	40 - 135
13C12-123678-HxCDD	402/404	42.37	1.24	1.05 - 1.44	77	40 - 135
13C12-123789-HxCDD	402/404	42.68	1.31	1.05 - 1.44	72	40 - 135
13C12-123789-HxCDF	384/386	43.05	0.52	0.43 - 0.60	64	40 - 135
13C12-1234678-HpCDF	418/420	44.76	0.47	0.37 - 0.52	94	40 - 135
13C12-1234678-HpCDD	436/438	45.95	1.06	0.88 - 1.21	71	40 - 135
13C12-1234789-HpCDF	418/420	46.50	0.43	0.37 - 0.52	55	40 - 135
13C12-OCDD	470/472	48.97	0.90	0.76 - 1.03	62	40 - 135

Abbreviations:
B = Detected in Method Blank
U = Undetected
J = Estimated concentration between EDL and LOQ
C = Concentration confirmed on second column
Q = Estimated Maximum Possible Concentration
E = Exceeds calibration range
F = Interference is present
N = See comment in Case Narrative
S = The detector is saturated
* = Outside QC Limits

eurofins | Lancaster Laboratories Environmental

FORM 01A
CDD/CDF SAMPLE DATA SUMMARY
HIGH RESOLUTION

SDG No.: CGI03

Matrix: SOIL
Sample (wt): 10.0 (g)
Water Sample Prep: N/A
Concentration Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL)
GC Column: DB5MS

Instrument ID: DF17611
% Solid/Lipids: 100.0
ID: 0.25 (mm)

Lab Sample ID: BLK183004
Lab File ID: 15JUL06-06
Date Received: N/A
Date Extracted: 07/03/2015 10:00
Date Analyzed: 07/06/2015 16:33
Dilution Factor: 1.0

Concentration Units: ng/kg

Labeled Compounds	Selected Ions	Peak RT	Ion Ratio	Ion Ratio Limits	% REC	Recovery Limits
13C12-OCDF	454/456	49.14	0.91	0.76 - 1.03	49	40 - 135

Abbreviations:
B = Detected in Method Blank
U = Undetected
J = Estimated concentration between EDL and LOQ
C = Concentration confirmed on second column
Q = Estimated Maximum Possible Concentration
E = Exceeds calibration range
F = Interference is present
N = See comment in Case Narrative
S = The detector is saturated
* = Outside QC Limits

eurofins | Lancaster Laboratories Environmental

FORM 01C
CDD/CDF SECOND COLUMN CONFIRMATION
HIGH RESOLUTION

SDG No.: CGI03

Matrix: SOIL
Sample (wt): 10.0 (g)
Water Sample Prep: N/A
Concentration Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL)
GC Column: SP2331

Instrument ID: DF17611
% Solid/Lipids: 100.0
ID: 0.25 (mm)

Lab Sample ID: BLK182002
Lab File ID: 15JUL07-06
Date Received: N/A
Date Extracted: 07/01/2015 10:15
Date Analyzed: 07/08/2015 12:28
Dilution Factor: 1.0

Concentration Units: ng/kg

Analyte	Selected Ions	Peak RT	Ion Ratio	Concentration	Qual.	EDL
2378-TCDF	304/306	29.54	0.38 *	0.320	JQ	0.106

Labeled Compounds	Selected Ions	Peak RT	Ion Ratio	Ion Ratio Limits	% REC	Recovery Limits
13C12-2378-TCDF	316/318	29.52	0.78	0.65 - 0.89	49	40 - 135

Abbreviations:
B = Detected in Method Blank
U = Undetected
J = Estimated concentration between EDL and LOQ
C = Concentration confirmed on second column
Q = Estimated Maximum Possible Concentration
E = Exceeds calibration range
F = Interference is present
N = See comment in Case Narrative
S = The detector is saturated
* = Outside QC Limits

eurofins | Lancaster Laboratories Environmental

FORM 01C
CDD/CDF SECOND COLUMN CONFIRMATION
HIGH RESOLUTION

SDG No.: CGI03

Matrix: SOIL
Sample (wt): 10.0 (g)
Water Sample Prep: N/A
Concentration Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL)
GC Column: SP2331

Instrument ID: DF17611
% Solid/Lipids: 100.0
ID: 0.25 (mm)

Lab Sample ID: BLK183004
Lab File ID: 15JUL07-21
Date Received: N/A
Date Extracted: 07/03/2015 10:00
Date Analyzed: 07/09/2015 01:29
Dilution Factor: 1.0

Concentration Units: ng/kg

Analyte	Selected Ions	Peak RT	Ion Ratio	Concentration	Qual.	EDL
2378-TCDF	304/306	29.50	0.31 *		U	0.0358

Labeled Compounds	Selected Ions	Peak RT	Ion Ratio	Ion Ratio Limits	% REC	Recovery Limits
13C12-2378-TCDF	316/318	29.46	0.79	0.65 - 0.89	58	40 - 135

Abbreviations:
B = Detected in Method Blank
U = Undetected
J = Estimated concentration between EDL and LOQ
C = Concentration confirmed on second column
Q = Estimated Maximum Possible Concentration
E = Exceeds calibration range
F = Interference is present
N = See comment in Case Narrative
S = The detector is saturated
* = Outside QC Limits

eurofins | Lancaster Laboratories Environmental

FORM 03A
CDD/CDF OPR SUMMARY
HIGH RESOLUTION

SDG No.: CGI03

Matrix: WATER
Sample vol: 1000 (ml)
Water Sample PREP: SEPF
Concentrated Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL) %SOLID/LIPIDS: N/A
GC Column: DB5MS ID: 0.25 (mm)
Method Reference: SW-846 8290A Feb 2007 Rev 1

Instrument ID: DF17280
Lab Sample ID: OPR182001
Lab File ID: 15JUL02-04
Date Received: N/A
Date Extracted: 07/01/2015 08:20
Date Analyzed: 07/02/2015 19:12
Dilution Factor: 1.0

Concentration Units: ng/kg

Spike Analyte	Spike Added	Amount Recovered	Percent Recovery	QC Limits
2378-TCDF	200	221.245103	111	75 - 158
2378-TCDD	200	226.762091	113	67 - 158
12378-PeCDF	1000	1123.567597	112	80 - 134
23478-PeCDF	1000	1115.130421	112	68 - 160
12378-PeCDD	1000	1055.042395	106	70 - 142
123478-HxCDF	1000	1087.147067	109	72 - 134
123678-HxCDF	1000	1101.333438	110	84 - 130
234678-HxCDF	1000	1090.541725	109	70 - 156
123478-HxCDD	1000	1101.333259	110	70 - 164
123678-HxCDD	1000	1112.404296	111	76 - 134
123789-HxCDD	1000	1182.736492	118	64 - 162
123789-HxCDF	1000	1177.682037	118	78 - 130
1234678-HpCDF	1000	1075.2357	108	82 - 122
1234678-HpCDD	1000	1101.529265	110	70 - 140
1234789-HpCDF	1000	1066.321399	107	78 - 138
OCDD	2000	2165.596588	108	78 - 144
OCDF	2000	2106.620428	105	63 - 170

* Outside Quality Control (QC) limits.

eurofins | Lancaster Laboratories Environmental

FORM 03A
CDD/CDF OPR SUMMARY
HIGH RESOLUTION

SDG No.: CGI03

Matrix: SOIL
Sample wt: 10.0 (g)
Water Sample PREP: N/A
Concentrated Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL) %SOLID/LIPIDS: 100.0
GC Column: DB5MS ID: 0.25 (mm)
Method Reference: SW-846 8290A Feb 2007 Rev 1

Instrument ID: DF17280
Lab Sample ID: OPR182002
Lab File ID: 15JUL06-04
Date Received: N/A
Date Extracted: 07/01/2015 10:15
Date Analyzed: 07/06/2015 13:45
Dilution Factor: 1.0

Concentration Units: ng/kg

Spike Analyte	Spike Added	Amount Recovered	Percent Recovery	QC Limits
2378-TCDF	20.0	23.1	115	75 - 158
2378-TCDD	20.0	22.7	113	67 - 158
12378-PeCDF	100	112	112	80 - 134
23478-PeCDF	100	107	107	68 - 160
12378-PeCDD	100	104	104	70 - 142
123478-HxCDF	100	106	106	72 - 134
123678-HxCDF	100	107	107	84 - 130
234678-HxCDF	100	106	106	70 - 156
123478-HxCDD	100	112	112	70 - 164
123678-HxCDD	100	111	111	76 - 134
123789-HxCDD	100	115	115	64 - 162
123789-HxCDF	100	116	116	78 - 130
1234678-HpCDF	100	102	102	82 - 122
1234678-HpCDD	100	108	108	70 - 140
1234789-HpCDF	100	107	107	78 - 138
OCDD	200	213	106	78 - 144
OCDF	200	210	105	63 - 170

* Outside Quality Control (QC) limits.

eurofins | Lancaster Laboratories Environmental

FORM 03A
CDD/CDF OPR SUMMARY
HIGH RESOLUTION

SDG No.: CGI03

Matrix: SOIL
Sample wt: 10.0 (g)
Water Sample PREP: N/A
Concentrated Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL) %SOLID/LIPIDS: 100.0
GC Column: DB5MS ID: 0.25 (mm)
Method Reference: SW-846 8290A Feb 2007 Rev 1

Instrument ID: DF17611
Lab Sample ID: OPR183004
Lab File ID: 15JUL06-04
Date Received: N/A
Date Extracted: 07/03/2015 10:00
Date Analyzed: 07/06/2015 14:40
Dilution Factor: 1.0

Concentration Units: ng/kg

Spike Analyte	Spike Added	Amount Recovered	Percent Recovery	QC Limits
2378-TCDF	20.0	20.5	103	75 - 158
2378-TCDD	20.0	19.4	97	67 - 158
12378-PeCDF	100	101	101	80 - 134
23478-PeCDF	100	101	101	68 - 160
12378-PeCDD	100	95.5	96	70 - 142
123478-HxCDF	100	107	107	72 - 134
123678-HxCDF	100	108	108	84 - 130
234678-HxCDF	100	108	108	70 - 156
123478-HxCDD	100	101	101	70 - 164
123678-HxCDD	100	101	101	76 - 134
123789-HxCDD	100	103	103	64 - 162
123789-HxCDF	100	111	111	78 - 130
1234678-HpCDF	100	102	102	82 - 122
1234678-HpCDD	100	95.2	95	70 - 140
1234789-HpCDF	100	104	104	78 - 138
OCDD	200	194	97	78 - 144
OCDF	200	208	104	63 - 170

* Outside Quality Control (QC) limits.

eurofins | Lancaster Laboratories Environmental

FORM 03B
CDD/CDF MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY
HIGH RESOLUTION

SDG No.: CGI03

Matrix: SOIL
Sample wt: 1.05 (g)
Water Sample PREP: N/A
Concentrated Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL) %SOLID/LIPIDS: 79.4
GC Column: DB5MS ID: 0.25 (mm)
Method Reference: SW-846 8290A Feb 2007 Rev 1

Instrument ID: DF17280
Lab Sample ID: 7947205
Lab File ID: 15JUL07-13
Date Received: 06/27/2015 09:30
Date Extracted: 07/03/2015 10:00
Date Analyzed: 07/08/2015 11:58
Dilution Factor: 1.0

MS Lab File ID: 15JUL06-12 MS Lab Sample ID: 7947206MS
MSD Lab File ID: 15JUL06-13 MSD Lab Sample ID: 7947207MSD

Concentration Units: ng/kg

Spike Analyte	Spike Amount	Bkg Amount	MS Amount	MS %REC	MSD Amount	MSD %REC	%REC Limits	RPD	RPD Limit
2378-TCDF	227	6.17	221	95	253	99	75 - 158	14	25
2378-TCDD	227	1.47	208	91	235	94	67 - 158	13	25
12378-PeCDF	1130	6.95	1170	103	1300	104	80 - 134	10	25
23478-PeCDF	1130	10.4	1140	100	1300	103	68 - 160	13	25
12378-PeCDD	1130	6.16	1070	94	1190	95	70 - 142	11	25
123478-HxCDF	1130	8.01	1230	108	1360	109	72 - 134	10	25
123678-HxCDF	1130	8.32	1230	107	1350	108	84 - 130	10	25
234678-HxCDF	1130	9.19	1240	109	1350	107	70 - 156	8	25
123478-HxCDD	1130	4.84	1110	97	1220	98	70 - 164	10	25
123678-HxCDD	1130	12.5	1150	100	1280	101	76 - 134	11	25
123789-HxCDD	1130	9.35	1160	101	1260	100	64 - 162	8	25
123789-HxCDF	1130	2.79	1260	111	1370	109	78 - 130	8	25
1234678-HpCDF	1130	58.2	1210	101	1430	110	82 - 122	17	25
1234678-HpCDD	1130	189	1270	95	1440	100	70 - 140	12	25
1234789-HpCDF	1130	4.49	1170	103	1340	107	78 - 138	13	25
OCDD	2270	1020	2950	85	3670	106	78 - 144	22	25
OCDF	2270	65.4	2380	102	2750	108	63 - 170	14	25

* Outside Quality Control (QC) limits.

Moisture Data

eurofins | Lancaster Laboratories Environmental

CLIENT: **AECOM**
SDG: CGI03

MOISTURE

SAMPLE NUMBERS:

Sample #	Sample Code
7947195	B5010
7947196	B5020
7947197	B5021
7947198	B1010
7947199	B1-11
7947200	B1-20
7947201	-B410
7947202	-B420
7947203	-B210
7947204	-B220
7947205	-B213BKG
7947206	-B213MS
7947207	-B213MSD
7947208	B-220
7947209	1010B
7947210	1020B
7947211	B910-
7947212	B920-

COMMENTS:

Method defined actions are taken for any failed matrix QC.

Laboratory Compliance Quality Control

Analysis Name	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 15180820005B	Sample number(s):		7947195-7947212		
Moisture	100		99-101		
Moisture	100		99-101		
Moisture Duplicate	100		99-101		

Sample Matrix Quality Control

Analysis Name	BKG Conc	DUP Conc	RPD	RPD Max
Batch number: 15180820005B	Sample number(s):		7947195-7947212	
Moisture	20.6	16.8	20*	5
Moisture	20.6	16.8	20*	5
Moisture Duplicate	20.6	16.8	20*	5

* - Outside of specification

(1) - The result for one or both determinations was less than five times the LOQ.

Moisture Data Report

Batch #: **15180820005**

Sample ID	Batch ID	Analysis#	Tare Wt	Sample Wt	Dry Wt	%Moisture	Analysis Date (Emp#)	Verified Date (Emp#)
7947195	B	00111	1.0834	7.7610	8.2289	7.93	6/29/15 (1201/SWF)	6/30/15 (236/CW)
7947196	B	00111	1.0799	8.4016	7.5832	22.59	6/29/15 (1201/SWF)	6/30/15 (236/CW)
7947197	B	00111	1.0938	8.1276	7.7476	18.13	6/29/15 (1201/SWF)	6/30/15 (236/CW)
7947198	B	00111	1.0661	8.7176	8.2074	18.08	6/29/15 (1201/SWF)	6/30/15 (236/CW)
7947199	B	00111	1.0870	9.8992	8.5834	24.27	6/29/15 (1201/SWF)	6/30/15 (236/CW)
7947200	B	00111	1.0849	9.7139	9.3500	14.91	6/29/15 (1201/SWF)	6/30/15 (236/CW)
7947201	B	00111	1.0777	9.1349	8.0900	23.24	6/29/15 (1201/SWF)	6/30/15 (236/CW)
7947202	B	00111	1.0829	8.6461	8.8099	10.63	6/29/15 (1201/SWF)	6/30/15 (236/CW)
7947203	B	00111	1.0898	8.7560	8.8832	10.99	6/29/15 (1201/SWF)	6/30/15 (236/CW)
7947204	B	00111	1.0672	8.8774	8.3426	18.05	6/29/15 (1201/SWF)	6/30/15 (236/CW)
7947205BKG	B	00111	1.0666	9.8823	8.9138	20.59	6/29/15 (1201/SWF)	7/ 1/15 (236/CW)
7947206MS	B	00118				20.59	6/29/15 (1201/SWF)	7/ 1/15 (236/CW)
7947207MSD	B	00118				20.59	6/29/15 (1201/SWF)	7/ 1/15 (236/CW)
7947207MSD	B	00121	1.0572	9.8907	9.2845	16.82	6/29/15 (1201/SWF)	7/ 1/15 (236/CW)
7947208	B	00111	1.0872	7.4052	7.3059	16.02	6/29/15 (1201/SWF)	6/30/15 (236/CW)
7947209	B	00111	1.0856	6.9539	7.6641	5.40	6/29/15 (1201/SWF)	6/30/15 (236/CW)
7947210	B	00111	1.0750	7.2281	6.9140	19.22	6/29/15 (1201/SWF)	6/30/15 (236/CW)
7947211	B	00111	1.0659	7.7747	7.7462	14.08	6/29/15 (1201/SWF)	6/30/15 (236/CW)
7947212	B	00111	1.0731	8.1497	7.4368	21.91	6/29/15 (1201/SWF)	6/30/15 (236/CW)
LCS 89.5% Std.		00111	1.0850	5.0305	1.6165	89.43	6/29/15 (1201/SWF)	6/30/15 (236/CW)

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 · 717-656-2300 · Fax: 717-656-2681 · www.LancasterLabs.com

TRRP-13 Data Package

Prepared for:

AECOM
PO Box 203970
Austin TX 78720-1088

Project: City Of Galveston Incinerator
Soil Samples
Collected on 06/25/15

SDG# CGI04

GROUP	SAMPLE NUMBERS
1573041	7948391-7948392

PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521
TX Cert. # T104704194-13-10
AZ Cert. # AZ0780

Through our technical processes and second person review of data, we have established that our data/deliverables are in compliance with the methods and project requirements unless otherwise noted or previously resolved with the client.

Authorized by: Dana M Kauffman **Date: 08/11/2015**

Dana M. Kauffman
Manager

Any questions or concerns you might have regarding this data package should be directed to your client representative, Angela Miller at (717) 556-7260.

2425 New Holland Pike, Lancaster, PA 17601 · 717-656-2300 · Fax: 717-656-2681 · www.LancasterLabs.com

Table of Contents for SDG# CGI04

1. Sample Reference List 3
2. TRRP-13 Signature Pages and Laboratory Review Checklists 4
3. Methodology Summary/Reference 10
4. Analysis Reports / Field Chain of Custody 11
5. Sample Receipt Documentation Log 29
6. Dioxins/Furans by HRMS Data 31
7. Moisture Data 36

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Reference List for SDG Number CGI04
with a Data Package Type of TRRP-13

30553 - AECOM

Project: City Of Galveston Incinerator

Lab Sample Number	Lab Sample Code	Client Sample Description
7948391	SB241	INC-SB24-010 Grab Soil
7948392	SB242	INC-SB24-020 Grab Soil

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

TRRP-13 Laboratory Data Package Signature Page for Field COC, Sample Identification, and Analysis Reports	SDG # : CGI04
LLI Sample #(s): 7948391-7948392	Project Name: City Of Galveston Incinerator

This section of the data package consists of:

Signature Page (this page)

Laboratory Review Check List (LRC) including:

a) COC/Sample Identification, and

b) Exception Report (for every "No" or "Not Reviewed (NR)" item in laboratory review checklist).

R1 Field Chain-of-Custody Documentation;

R2 Sample Identification Cross-reference;

R3 Analysis Reports for each environmental sample that includes:

a) Items consistent with NELAC 5.13 or ISO/IEC 71025 Section 5.10,

b) Dilution factors,

c) Preparation methods, and

d) If required for the project, tentatively identified compounds (TICs).

Release Statement:

I am responsible for the release of this section of the data package. This section of the laboratory data package has been reviewed and is complete. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies, observed by this laboratory as having the potential to affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

Brandy Barclay
Name (printed)

Senior Administrator
Official Title (printed)

Brandy Barclay
Signature

8.11.15
Date

3681.04

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Data Package Signature Page	SDG #: CGI04
Department or Fraction: Dioxins/Furans HRMS	Project Name: City Of Galveston Incinerator
LLI Sample #(s): 7948391-7948392	Batch #(s): 15183004

This Data Package consists of:

Signature Page (this page)
Quality Control Reference List
Laboratory Review Check List (LRC) including:
a) Reportable Data,
b) Supporting Data, and
c) Exception Report (for every "No" or "Not Reviewed (NR)" item in laboratory review checklist).

R4 Surrogate Summary Forms including:
a) Calculated recovery (%R), and
b) Surrogate QC limits.

R5 Summary Forms for Blank Samples;

R6 Summary Forms for Laboratory Control Samples (LCSs) including:
a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c) LCS QC limits.

R7 Summary Forms for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
a) MS/MSD spiking amounts,
b) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
c) Calculated %Rs and relative percent differences (RPDs), and
d) MS/MSD QC limits

R8 Laboratory Analytical Duplicate (if applicable) Recovery and Precision:
a) The amount of analyte measured in the duplicate,
b) The calculated RPD, and
c) The laboratory's QC limits for analytical duplicates.

R9 List of Method Quantitation Limits (MQLs) and detectability check samples (DCS) results for each analyte for each method and matrix.

R10 Other problems or anomalies

Release Statement:

I am responsible for the release of this section of the laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for the methods, analytes, and matrices reported in this section of the data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory for this section of the data package have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Jessica R. Baron	Jessica R Baron	Specialist	08/11/2015
Name (printed)	Signature	Official Title (printed)	Date

eurofins | Lancaster Laboratories Environmental

Quality Control Reference List
Specialty Services Group

CLIENT: AECOM
SDG: CGI04

Fraction: Dioxins/Furans by HRMS

Analysis	Batch Number	Sample Number	Analysis Date
D/F in Solids 8290-Conf	15183004	BLK183004	07/09/2015 01:29:00
		7948391	07/09/2015 20:01:00
		7948392	07/09/2015 19:06:00
Dioxins/Furans in Solids-8290	15183004	BLK183004	07/06/2015 16:33:00
		OPR183004	07/06/2015 14:40:00
		7948391	07/08/2015 12:55:00
		7948392	07/07/2015 08:51:00

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Review Checklist: Reportable Data	SDG #: CGI04
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	LLI Sample #(s): 7948391-7948392
LRC Date: 08/11/2015	Batch #(s): 15183004

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
R2	**OI**	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	**OI**	**ANALYSIS REPORTS**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results <MQL, were all other raw values bracketed by calibration standards?			X		
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TIC's reported?			X		
R4	**O**	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	**OI**	**SUMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations <MQL?	X				
R6	**OI**	**LABORATORY CONTROL SAMPLES (LCS)**					
		1) Were all Chemicals of Concern (COC) included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCS's analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COC's at the MDL used to calculate the SDL's?	X				
		6) Was the LCSD RPD within QC limits?			X		
R7	**OI**	**MATRIX SPIKE (MS) AND MATRIX DUPLICATE (MSD) DATA**					
		1) Were the project/method-specified analytes included in the MS and MSD?			X		
		2) Were MS/MSD analyzed at the appropriate frequency?			X		
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		4) Were MS/MSD RPDs within laboratory QC limits?			X		
R8	**OI**	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	**OI**	**METHOD QUANTITATION LIMITS (MQLS)**					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	**OI**	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?		X			1, 2
		2) Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				

[1]Items identified by the letter "R" must be included in the laboratory data package.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

eurofins | Lancaster Laboratories

TRRP-13 Laboratory Review Checklist: Supporting Data	SDG #: CGI04
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	LLI Sample #(s): 7948391-7948392
LRC Date: 08/11/2015	Batch #(s): 15183004

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
S1	**OI**	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factor (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	**OI**	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICV AND CCV)**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB<MDL?			X		
S3	**O**	**MASS SPECTRAL TUNING**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Was ion abundance data within the method-required QC limits?	X				
S4	**OI**	**INTERNAL STANDARDS (IS)**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	**OI**	**RAW DATA (NELAC Section 5.5.10)**					
		1) Were the raw data (e.g., chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	**O**	**DUAL COLUMN CONFIRMATION**					
		Did dual column confirmation results meet the method-required QC?	X				
S7	**O**	**TENTATIVELY IDENTIFIED COMPOUNDS (TICS)**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS**					
		Were percent recoveries within method QC limits?			X		
S9	**I**	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND MSA**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	**OI**	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?			X		
S11	**OI**	**PROFICIENCY TEST REPORTS**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	**OI**	**STANDARDS DOCUMENTATION**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	**OI**	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		Are the procedures for compound/analyte identification documented?	X				
S14	**OI**	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	**OI**	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated where applicable?	X				
S16	**OI**	**LABORATORY STANDARD OPERATING PROCEDURES (SOPS)**					
		Are laboratory SOPs current and on file for each method performed?	X				

[1]Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

TRRP-13 Laboratory Review Checklist: Exception Reports	SDG #: CGI04
Department or Fraction: Dioxins and Furans HRMS	Project Name: City Of Galveston Incinerator
Reviewer Name: Jessica R. Baron	ELLE Sample #(s): 7948391-7948392
LRC Date: 08/11/2015	Batch #(s): 15183004

ER # [1]	DESCRIPTION
1	R10 1) (Sample number(s): 7948391-7948392: Analysis: 12937) Reporting limits were raised due to interference from the sample matrix.
2	R10 1) Confirmation analysis for 2378-TCDF was performed on samples 7948391-7948392.

[1]ER#=Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC).

Issued by Dept. 4038 Management

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 · 717-656-2300 Fax: 717-656-2681 · www.lancasterlabs.com

13233 D/F in Solids 8290-Conf
12937 Dioxins/Furans in Solids-8290

The method provides procedures for the detection and quantitative measurement of polychlorinated dibenzo-p-dioxins (tetra- through octachlorinated homologues; PCDDs), and polychlorinated dibenzofurans (tetra- through octachlorinated homologues; PCDFs) in a variety of environmental matrices and at part-per-trillion (ppt) to part-per-quadrillion. The method requires the use of high-resolution gas chromatography and high-resolution mass spectrometry (HRGC/HRMS) on purified sample extracts.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8290A, Polychlorinated Dibenzo-p-Dioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High Resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS)

11030 Dioxins/Furans in Solids - Sox

The samples are extracted with toluene in a Soxhlet - Dean Stark extractor. The extract is concentrated for clean-up or instrumental analysis.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8290A, Polychlorinated Dibenzo-p-Dioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High Resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS)

00111 Moisture

A well-mixed sample is placed in a tared container and dried to a constant weight in an oven at 103-105C. The increase in weight is the total solids.

Reference: Standard Methods for the Examination of Water and Wastewater, 20th Edition, 1998, Method 2540 G-1997

Analysis Reports / Field Chain of Custody

ANALYTICAL RESULTS

Prepared by:	Prepared for:
Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601	AECOM PO Box 203970 Austin TX 78720-1088

August 07, 2015

Project: City Of Galveston Incinerator

Submittal Date: 06/27/2015
Group Number: 1573041
SDG: CGI04
PO Number: 63188
State of Sample Origin: TX

Client Sample Description	Lancaster Labs (LL) #
INC-SB24-010 Grab Soil	7948391
INC-SB24-020 Grab Soil	7948392

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO	AECOM	Attn: Carol Lovett
ELECTRONIC COPY TO	Data Package Group	

Respectfully Submitted,

Angela M. Miller
Specialist

(717) 556-7260

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB24-010 Grab Soil
Galveston, TX

LL Sample # SW 7948391
LL Group # 1573041
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 15:05 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

SB241 SDG#: CGI04-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	15.3	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB24-010 Grab Soil
Galveston, TX

LL Sample # SW 7948391
LL Group # 1573041
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 15:05 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

SB241 SDG#: CGI04-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		**ng/kg**		**ng/kg**	**ng/kg**	
12937	2378-TCDD	1746-01-6	2.44	JB	11.6	0.383	1
12937	12378-PeCDD	40321-76-4	8.52	JB	57.9	0.609	1
12937	123478-HxCDD	39227-28-6	7.41	JB	57.9	0.309	1
12937	123678-HxCDD	57653-85-7	26.8	JB	57.9	0.326	1
12937	123789-HxCDD	19408-74-3	20.0	JB	57.9	0.331	1
12937	1234678-HpCDD	35822-46-9	426	B	57.9	0.533	1
12937	OCDD	3268-87-9	2,300		116	0.389	1
12937	2378-TCDF	51207-31-9	14.4	BC	11.6	0.553	1
12937	12378-PeCDF	57117-41-6	9.28	JB	57.9	0.206	1
12937	23478-PeCDF	57117-31-4	17.6	J	57.9	0.208	1
12937	123478-HxCDF	70648-26-9	11.4	JB	57.9	0.326	1
12937	123678-HxCDF	57117-44-9	12.0	JB	57.9	0.300	1
12937	123789-HxCDF	72918-21-9	N.D.		57.9	0.404	1
12937	234678-HxCDF	60851-34-5	16.4	JB	57.9	0.255	1
12937	1234678-HpCDF	67562-39-4	95.9	B	57.9	0.146	1
12937	1234789-HpCDF	55673-89-7	5.81	JBQ	57.9	0.255	1
12937	OCDF	39001-02-0	97.2	JB	116	0.173	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	73	40 - 135
13C12-12378-PeCDD	84	40 - 135
13C12-123478-HxCDD	95	40 - 135
13C12-123678-HxCDD	92	40 - 135
13C12-123789-HxCDD	85	40 - 135
13C12-1234678-HpCDD	82	40 - 135
13C12-OCDD	78	40 - 135
13C12-2378-TCDF	84	40 - 135
13C12-12378-PeCDF	91	40 - 135
13C12-23478-PeCDF	84	40 - 135
13C12-123478-HxCDF	86	40 - 135
13C12-123678-HxCDF	94	40 - 135
13C12-234678-HxCDF	107	40 - 135
13C12-123789-HxCDF	85	40 - 135
13C12-1234678-HpCDF	105	40 - 135
13C12-1234789-HpCDF	77	40 - 135
13C12-OCDF	69	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB24-010 Grab Soil
Galveston, TX

LL Sample # SW 7948391
LL Group # 1573041
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 15:05 by LD

AECOM
PO Box 203970
Austin TX 78720-1088

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

SB241 SDG#: CGI04-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB24-010 Grab Soil
Galveston, TX

LL Sample # SW 7948391
LL Group # 1573041
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 15:05 by LD

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

SB241 SDG#: CGI04-01

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/08/2015 12:55	Michael A Ziegler	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/03/2015 10:00	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15181820002B	06/30/2015 23:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB24-020 Grab Soil
Galveston, TX

LL Sample # SW 7948392
LL Group # 1573041
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 15:20

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

SB242 SDG#: CGI04-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	23.7	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB24-020 Grab Soil
Galveston, TX

LL Sample # SW 7948392
LL Group # 1573041
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 15:20

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

SB242 SDG#: CGI04-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		**ng/kg**		**ng/kg**	**ng/kg**	
12937	2378-TCDD	1746-01-6	28.0	B	9.57	1.02	1
12937	12378-PeCDD	40321-76-4	143	B	47.8	1.47	1
12937	123478-HxCDD	39227-28-6	91.1	B	47.8	1.02	1
12937	123678-HxCDD	57653-85-7	253	B	47.8	1.08	1
12937	123789-HxCDD	19408-74-3	304	B	47.8	1.10	1
12937	1234678-HpCDD	35822-46-9	2,180	B	47.8	1.43	1
12937	OCDD	3268-87-9	6,380		95.7	1.23	1
13233	2378-TCDF-Conf	51207-31-9	27.5	C	9.57	1.11	1
12937	12378-PeCDF	57117-41-6	22.2	JBQ	47.8	0.513	1
12937	23478-PeCDF	57117-31-4	N.D.		47.8	0.507	1
12937	123478-HxCDF	70648-26-9	42.9	JB	47.8	0.744	1
12937	123678-HxCDF	57117-44-9	31.6	JB	47.8	0.706	1
12937	123789-HxCDF	72918-21-9	N.D.		47.8	0.808	1
12937	234678-HxCDF	60851-34-5	38.6	JB	47.8	0.774	1
12937	1234678-HpCDF	67562-39-4	203	B	47.8	0.412	1
12937	1234789-HpCDF	55673-89-7	13.3	JB	47.8	0.627	1
12937	OCDF	39001-02-0	201	B	95.7	0.406	1

Reporting limits were raised due to interference from the sample matrix.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	63	40 - 135
13C12-2378-TCDF-Conf	67	40 - 135
13C12-12378-PeCDD	56	40 - 135
13C12-123478-HxCDD	69	40 - 135
13C12-123678-HxCDD	68	40 - 135
13C12-123789-HxCDD	67	40 - 135
13C12-1234678-HpCDD	82	40 - 135
13C12-OCDD	73	40 - 135
13C12-12378-PeCDF	59	40 - 135
13C12-23478-PeCDF	57	40 - 135
13C12-123478-HxCDF	78	40 - 135
13C12-123678-HxCDF	83	40 - 135
13C12-234678-HxCDF	76	40 - 135
13C12-123789-HxCDF	80	40 - 135
13C12-1234678-HpCDF	101	40 - 135
13C12-1234789-HpCDF	80	40 - 135
13C12-OCDF	72	40 - 135

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: INC-SB24-020 Grab Soil
Galveston, TX

LL Sample # SW 7948392
LL Group # 1573041
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 15:20

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

SB242 SDG#: CGI04-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
F	*Interference is present*					
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: INC-SB24-020 Grab Soil
Galveston, TX

LL Sample # SW 7948392
LL Group # 1573041
Account # 30553

Project Name: City Of Galveston Incinerator

Collected: 06/25/2015 15:20

Submitted: 06/27/2015 09:30
Reported: 08/07/2015 15:01

AECOM
PO Box 203970
Austin TX 78720-1088

SB242 SDG#: CGI04-02

General Sample Comments

State of Texas Lab Certification No. T104704194-14-19

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13233	D/F in Solids 8290-Conf	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/09/2015 19:06	Joseph D Anderson	1
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/07/2015 08:51	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	15183004	07/03/2015 10:00	Ginelle L McQuaid	1
00111	Moisture	SM 2540 G-1997	1	15181820002B	06/30/2015 23:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: AECOM Group Number: 1573041
Reported: 08/07/2015 15:01

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ**	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 15181820002B	Sample number(s): 7948391-7948392								
Moisture					100		99-101		

Analysis Name	Blank Result	Blank MRL**	Blank EDL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 15183004	Sample number(s): 7948391-7948392								
2378-TCDD	0.0306 J	1.00	0.0293	ng/kg	97		67-158		
12378-PeCDD	0.0431 J	5.00	0.0294	ng/kg	96		70-142		
123478-HxCDD	0.0784 J	5.00	0.0169	ng/kg	101		70-164		
123678-HxCDD	0.0777 J	5.00	0.0182	ng/kg	101		76-134		
123789-HxCDD	0.0806 J	5.00	0.0198	ng/kg	103		64-162		
1234678-HpCDD	0.0577 J	5.00	0.0172	ng/kg	95		70-140		
OCDD	N.D.	10.0	0.0180	ng/kg	97		78-144		
2378-TCDF	0.0439 J	1.00	0.0298	ng/kg	103		75-158		
2378-TCDF-Conf	N.D.	1.00	0.0358	ng/kg	103		75-158		
12378-PeCDF	0.0490 J	5.00	0.0176	ng/kg	101		80-134		
23478-PeCDF	N.D.	5.00	0.0178	ng/kg	101		68-160		
123478-HxCDF	0.0767 J	5.00	0.0194	ng/kg	107		72-134		
123678-HxCDF	0.0615 J	5.00	0.0159	ng/kg	108		84-130		
123789-HxCDF	0.221 J	5.00	0.0249	ng/kg	111		78-130		
234678-HxCDF	0.0502 J	5.00	0.0184	ng/kg	108		70-156		
1234678-HpCDF	0.0528 J	5.00	0.00653	ng/kg	102		82-122		
1234789-HpCDF	0.0992 J	5.00	0.0151	ng/kg	104		78-138		
OCDF	0.182 J	10.0	0.0362	ng/kg	104		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 15181820002B	Sample number(s): 7948391-7948392 BKG: P937264								
Moisture						4.1	4.9	16*	5
Batch number: 15183004	Sample number(s): 7948391-7948392 UNSPK: P947205								
2378-TCDD	91	94	67-158	13	25				
12378-PeCDD	94	95	70-142	11	25				
123478-HxCDD	97	98	70-164	10	25				
123678-HxCDD	100	101	76-134	11	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: AECOM Group Number: 1573041
Reported: 08/07/2015 15:01

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
123789-HxCDD	101	100	64-162	8	25				
1234678-HpCDD	95	100	70-140	12	25				
OCDD	85	106	78-144	22	25				
2378-TCDF	95	99	75-158	14	25				
2378-TCDF-Conf	95	99	75-158	14	20				
12378-PeCDF	103	104	80-134	10	25				
23478-PeCDF	100	103	68-160	13	25				
123478-HxCDF	108	109	72-134	10	25				
123678-HxCDF	107	108	84-130	10	25				
123789-HxCDF	111	109	78-130	8	25				
234678-HxCDF	109	107	70-156	8	25				
1234678-HpCDF	101	110	82-122	17	25				
1234789-HpCDF	103	107	78-138	13	25				
OCDF	102	108	63-170	14	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Dioxins/Furans in Solids-8290
Batch number: 15183004

	13C12-2378-TCDD	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD
7948391	73	84	95	92	85	82
7948392	63	56	69	68	67	82
Blank	55	54	79	77	72	71
MS	57	58	75	73	66	78
MSD	60	61	78	80	76	81
OPR	55	57	74	77	72	76
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF
7948391	78	84	91	84	86	94
7948392	73		59	57	78	83
Blank	62	51	56	49	72	83
MS	65	56	61	54	79	84
MSD	72	58	63	57	81	94
OPR	68	52	57	51	72	85
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

	13C12-234678-HxCDF	13C12-123789-HxCDF	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-2378-TCDF-Conf
7948391	107	85	105	77	69	
7948392	76	80	101	80	72	67
Blank	72	64	94	55	49	58
MS	77	74	119	68	59	56
MSD	80	68	126	70	62	58
OPR	72	57	97	60	53	52
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: AECOM
Reported: 08/07/2015 15:01

Group Number: 1573041

Surrogate Quality Control

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

378736

eurofins

Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only
Acct. # 20242 Group # 15-23041 Sample # 7948391-92
Instructions on reverse side correspond with circled numbers.

1 Client Information

Client: URS/AECOM
Acct. #:
Project Name/#: City of Galveston Incinerator
PWSID #:
Project Manager: Carol Lovett
P.O. #:
Sampler: Lisa DeGrazia
Quote #:
Name of state where samples were collected: Texas

4 Matrix: Sediment ☐ Soil ☒ Water: Potable ☐ Ground ☒ NPDES ☐ Surface ☐ Other: ____

5 Analysis Requested — Preservation Codes

For Lab Use Only
FSC:
SCR#: 172987

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Other	Total # of Containers	SW8290A	SW8290A % M	Remarks
INC-SB02-020	6/25/15	1410	X		X			1		1	
INC-SB03-013	6/25/15	1425	X		X			3		3	MS/MSD
INC-SB03-020	6/25/15	1435	X		X			1		1	
~~INC-SB24-010~~	~~6/25/15~~	~~1505~~	~~X~~		~~X~~						
INC-SB10-010	6/25/15	1540	X		X			1		1	
INC-SB10-020	6/25/15	1555	X		X			1		1	
INC-SB09-010	6/25/15	1610	X		X			1		1	
INC-SB09-020	6/25/15	1625	X		X			1		1	
~~INC-SB09-015~~	~~6/25/15~~	~~1630~~	~~X~~		~~X~~			~~1~~			
INC-SB09-015	6/25/15	1630				X		2	2		

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: ____

E-mail address: ____

8 Data Package Options (circle if required)
Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
NYSDEC Category A or B MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	6/9/15	9:00	[signature]		
[signature]	6/26				
			[signature]	6.27.15	920

EDD Required? Yes No
If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS ____ FedEx X Other ____

Temperature upon receipt 4.1 °C

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

Acct. # 20742 For Eurofins Lancaster Laboratories Environmental use only Group # 1573041 Sample # 7941839 1-92

Instructions on reverse side correspond with circled numbers.

378739

1 Client Information

Client: URS/AECOM

Acct. #:

Project Name/#: City of Galveston Incinerator

PWSID #:

Project Manager: Carol Lovett

P.O. #:

Sampler: Lisa Rebrazia

Quote #:

Name of state where samples were collected: Texas

4 Matrix: Sediment ☐ Soil ☒ Water: Ground ☒ Potable ☐ Surface ☐ NPDES ☐ Other: ____

5 Analysis Requested — Preservation Codes

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Sediment	Soil	Ground	Potable	Surface	NPDES	Water	Other	Total # of Containers	SW8290A	SW8290A 10M	Remarks
INC-MW01-010	6/24/15	1620	X				X				X		2	2		
INC-SB05-010	6/25/15	1235	X			X							1		1	
INC-SB05-020	6/25/15	1240	X			X							1		1	
INC-SB05-021	6/25/15	1240	X			X							1		1	
INC-SB01-010	6/25/15	1255	X			X							1		1	
INC-SB01-011	6/25/15	1255	X			X							1		1	
INC-SB01-020	6/25/15	1310	X			X							1		1	
INC-SB04-010	6/25/15	1335	X			X							1		1	
INC-SB04-020	6/25/15	1350	X			X							1		1	
INC-SB02-010	6/25/15	1400	X			X							1		1	

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: ____

E-mail address: CAROL.LOVETT@AECOM.COM

8 Data Package Options (circle if required)
Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
NYSDEC Category A or B MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	6/26/15	1500			
			[signature]	6.27.15	930

EDD Required? Yes No
If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS ____ FedEx X Other ____

Temperature upon receipt 4.1 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300
The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 0315

Angela Miller

GA 1573041

From: Lovett, Carol <carol.lovett@aecom.com>
Sent: Monday, June 29, 2015 4:50 PM
To: Angela Miller; DeGrazia, Lisa
Subject: RE: City Of Galveston Incinerator submitted 06/27/2015

Please analyze both samples.

Thanks!

Carol Lovett
Project Chemistry/QA/QC Chemist, Remediation Department, Austin, Texas D 1-512.419.5702 carol.lovett@aecom.com

AECOM
9400 Amberglen Blvd, Austin, Texas 78729
T 1-512-454-4797 F 1-512-454-8807
www.aecom.com

-----Original Message-----
From: Angela Miller [mailto:AngelaMiller@eurofinsUS.com]
Sent: Monday, June 29, 2015 3:16 PM
To: Lovett, Carol; DeGrazia, Lisa
Subject: City Of Galveston Incinerator submitted 06/27/2015

Good afternoon,

Our sample entry department informed me of a discrepancy in regard to the samples we received on Saturday 6/27/15.

-We received sample INC-SB24-020 collected 6/25 at 1520 which was not listed on the COC. Should we analyze this sample?
-Sample INC-SB24-010 was crossed out on the COC but we did receive it. Should we analyze this sample?

Thank you,
Angela

Angela Miller
Specialist

Eurofins Lancaster Laboratories Environmental, LLC
2425 New Holland Pike
Lancaster, PA 17601
USA
Phone: +1 717-556-7260

www.LancasterLabsEnv.com

Look for Eurofins Lancaster Laboratories Environmental at these upcoming conferences and industry events.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 82401

Group Number(s): IS 73041

Client: URS

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	06/27/2015 9:30
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	TX		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	Yes		
Discrepancy in Container Qty on COC:	No		

Unpacked by Timothy Cubberley (6520) at 12:33 on 06/27/2015

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	4.1	DT	Wet	Y	Bagged	N

Extra Sample Details

Sample ID on Label	Number of Extra Containers	Date on Label	Comments
INC-SB24-020	1	6/25/2015 15:20	

General Comments: INC-SB24-010 was crossed out but we did receive it.

2425 New Holland Pike
Lancaster, PA 17601-2225
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

TRRP-13 Laboratory Review Checklist: COC/Sample Identification

Project Name: City Of Galveston Incinerator

ELLE Sample #(s): 7948391-92

SDG #: CGI04

Reviewer Name: [illegible] Christine Knoedler

LRC Date: 6/~~30~~ 30/15 th 6/30/15 (6)

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
R1	**OI**	**CHAIN-OF-CUSTODY (COC)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	x				
		2) Were all departures from standard conditions described in an exception report?	x				
R2	**OI**	**SAMPLE IDENTIFICATION**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	x				

[1]Items identified by the letter "R" must be included in the laboratory data package.

[2]O = Organic analysis; I = Inorganic analysis (and general chemistry, when applicable);

[3]NA = Not applicable;

[4]NR = Not reviewed;

[5]ER# = Exception report identification number (an exception report should be completed for an item if "NR" or "No" is checked).

Dioxins/Furans by HRMS Data

eurofins | Lancaster Laboratories Environmental

FORM 01A
CDD/CDF SAMPLE DATA SUMMARY
HIGH RESOLUTION

SDG No.: CGI04

Matrix: SOIL
Sample (wt): 10.0 (g)
Water Sample Prep: N/A
Concentration Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL)
GC Column: DB5MS

Instrument ID: DF17611
% Solid/Lipids: 100.0
ID: 0.25 (mm)

Lab Sample ID: BLK183004
Lab File ID: 15JUL06-06
Date Received: N/A
Date Extracted: 07/03/2015 10:00
Date Analyzed: 07/06/2015 16:33
Dilution Factor: 1.0

Concentration Units: ng/kg

Analyte	Selected Ions	Peak RT	Ion Ratio	Concentration	Qual.	EDL
2378-TCDF	304/306	30.82	4.27 *	0.0439	JQ	0.0298
2378-TCDD	320/322	31.85	0.62 *	0.0306	JQ	0.0293
12378-PeCDF	340/342	36.39	1.91 *	0.0490	JQ	0.0176
23478-PeCDF	340/342	37.61	1.10 *		U	0.0178
12378-PeCDD	356/358	38.03	0.26 *	0.0431	JQ	0.0294
123478-HxCDF	374/376	41.26	0.38 *	0.0767	JQ	0.0194
123678-HxCDF	374/376	41.37	1.03 *	0.0615	JQ	0.0159
234678-HxCDF	374/376	42.06	1.55 *	0.0502	JQ	0.0184
123478-HxCDD	390/392	42.23	1.50 *	0.0784	JQ	0.0169
123678-HxCDD	390/392	42.37	1.58 *	0.0777	JQ	0.0182
123789-HxCDD	390/392	42.68	2.09 *	0.0806	JQ	0.0198
123789-HxCDF	374/376	43.09	1.11	0.221	J	0.0249
1234678-HpCDF	408/410	44.79	1.53 *	0.0528	JQ	0.00653
1234678-HpCDD	424/426	45.94	2.65 *	0.0577	JQ	0.0172
1234789-HpCDF	408/410	46.52	2.45 *	0.0992	JQ	0.0151
OCDD	458/460	48.94	2.83 *		U	0.0180
OCDF	442/444	49.17	1.38 *	0.182	JQ	0.0362

Labeled Compounds	Selected Ions	Peak RT	Ion Ratio	Ion Ratio Limits	% REC	Recovery Limits
13C12-1278-TCDD (CRS)	332/334	32.23	0.82	0.65 - 0.90	61	35 - 197
13C12-2378-TCDF	316/318	30.77	0.81	0.65 - 0.90	51	40 - 135
13C12-2378-TCDD	332/334	31.83	0.86	0.65 - 0.90	55	40 - 135
13C12-12378-PeCDF	352/354	36.39	1.56	1.32 - 1.79	56	40 - 135
13C12-23478-PeCDF	352/354	37.63	1.58	1.32 - 1.79	49	40 - 135
13C12-12378-PeCDD	368/370	38.01	1.61	1.32 - 1.79	54	40 - 135
13C12-123478-HxCDF	384/386	41.22	0.53	0.43 - 0.60	72	40 - 135
13C12-123678-HxCDF	384/386	41.37	0.54	0.43 - 0.60	83	40 - 135
13C12-234678-HxCDF	384/386	42.06	0.53	0.43 - 0.60	72	40 - 135
13C12-123478-HxCDD	402/404	42.25	1.28	1.05 - 1.44	79	40 - 135
13C12-123678-HxCDD	402/404	42.37	1.24	1.05 - 1.44	77	40 - 135
13C12-123789-HxCDD	402/404	42.68	1.31	1.05 - 1.44	72	40 - 135
13C12-123789-HxCDF	384/386	43.05	0.52	0.43 - 0.60	64	40 - 135
13C12-1234678-HpCDF	418/420	44.76	0.47	0.37 - 0.52	94	40 - 135
13C12-1234678-HpCDD	436/438	45.95	1.06	0.88 - 1.21	71	40 - 135
13C12-1234789-HpCDF	418/420	46.50	0.43	0.37 - 0.52	55	40 - 135
13C12-OCDD	470/472	48.97	0.90	0.76 - 1.03	62	40 - 135

Abbreviations:
B = Detected in Method Blank
U = Undetected
J = Estimated concentration between EDL and LOQ
C = Concentration confirmed on second column
Q = Estimated Maximum Possible Concentration
E = Exceeds calibration range
F = Interference is present
N = See comment in Case Narrative
S = The detector is saturated
* = Outside QC Limits

eurofins | Lancaster Laboratories Environmental

FORM 01A
CDD/CDF SAMPLE DATA SUMMARY
HIGH RESOLUTION

SDG No.: CGI04

Matrix: SOIL
Sample (wt): 10.0 (g)
Water Sample Prep: N/A
Concentration Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL)
GC Column: DB5MS

Instrument ID: DF17611
% Solid/Lipids: 100.0
ID: 0.25 (mm)

Lab Sample ID: BLK183004
Lab File ID: 15JUL06-06
Date Received: N/A
Date Extracted: 07/03/2015 10:00
Date Analyzed: 07/06/2015 16:33
Dilution Factor: 1.0

Concentration Units: ng/kg

Labeled Compounds	Selected Ions	Peak RT	Ion Ratio	Ion Ratio Limits	% REC	Recovery Limits
13C12-OCDF	454/456	49.14	0.91	0.76 - 1.03	49	40 - 135

Abbreviations:
B = Detected in Method Blank
U = Undetected
J = Estimated concentration between EDL and LOQ
C = Concentration confirmed on second column
Q = Estimated Maximum Possible Concentration
E = Exceeds calibration range
F = Interference is present
N = See comment in Case Narrative
S = The detector is saturated
* = Outside QC Limits

eurofins | Lancaster Laboratories Environmental

FORM 01C
CDD/CDF SECOND COLUMN CONFIRMATION
HIGH RESOLUTION

SDG No.: CGI04

Matrix: SOIL
Sample (wt): 10.0 (g)
Water Sample Prep: N/A
Concentration Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL)
GC Column: SP2331

Instrument ID: DF17611
% Solid/Lipids: 100.0
ID: 0.25 (mm)

Lab Sample ID: BLK183004
Lab File ID: 15JUL07-21
Date Received: N/A
Date Extracted: 07/03/2015 10:00
Date Analyzed: 07/09/2015 01:29
Dilution Factor: 1.0

Concentration Units: ng/kg

Analyte	Selected Ions	Peak RT	Ion Ratio	Concentration	Qual.	EDL
2378-TCDF	304/306	29.50	0.31 *		U	0.0358

Labeled Compounds	Selected Ions	Peak RT	Ion Ratio	Ion Ratio Limits	% REC	Recovery Limits
13C12-2378-TCDF	316/318	29.46	0.79	0.65 - 0.89	58	40 - 135

Abbreviations:
B = Detected in Method Blank
U = Undetected
J = Estimated concentration between EDL and LOQ
C = Concentration confirmed on second column
Q = Estimated Maximum Possible Concentration
E = Exceeds calibration range
F = Interference is present
N = See comment in Case Narrative
S = The detector is saturated
* = Outside QC Limits

FORM 01C Page 1 of 1

eurofins | Lancaster Laboratories Environmental

FORM 03A
CDD/CDF OPR SUMMARY
HIGH RESOLUTION

SDG No.: CGI04

Matrix: SOIL
Sample wt: 10.0 (g)
Water Sample PREP: N/A
Concentrated Extract Volume: 20.0 (uL)
Injection Volume: 1.00 (uL) %SOLID/LIPIDS: 100.0
GC Column: DB5MS ID: 0.25 (mm)
Method Reference: SW-846 8290A Feb 2007 Rev 1

Instrument ID: DF17611
Lab Sample ID: OPR183004
Lab File ID: 15JUL06-04
Date Received: N/A
Date Extracted: 07/03/2015 10:00
Date Analyzed: 07/06/2015 14:40
Dilution Factor: 1.0

Concentration Units: ng/kg

Spike Analyte	Spike Added	Amount Recovered	Percent Recovery	QC Limits
2378-TCDF	20.0	20.5	103	75 - 158
2378-TCDD	20.0	19.4	97	67 - 158
12378-PeCDF	100	101	101	80 - 134
23478-PeCDF	100	101	101	68 - 160
12378-PeCDD	100	95.5	96	70 - 142
123478-HxCDF	100	107	107	72 - 134
123678-HxCDF	100	108	108	84 - 130
234678-HxCDF	100	108	108	70 - 156
123478-HxCDD	100	101	101	70 - 164
123678-HxCDD	100	101	101	76 - 134
123789-HxCDD	100	103	103	64 - 162
123789-HxCDF	100	111	111	78 - 130
1234678-HpCDF	100	102	102	82 - 122
1234678-HpCDD	100	95.2	95	70 - 140
1234789-HpCDF	100	104	104	78 - 138
OCDD	200	194	97	78 - 144
OCDF	200	208	104	63 - 170

* Outside Quality Control (QC) limits.

Moisture Data

eurofins | Lancaster Laboratories Environmental

CLIENT: **AECOM**
SDG: CGI04

MOISTURE

SAMPLE NUMBERS:

Sample #	Sample Code
7948391	SB241
7948392	SB242

COMMENTS:

Method defined actions are taken for any failed matrix QC.

Laboratory Compliance Quality Control

Analysis Name	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 15181820002B	Sample number(s): 7948391-7948392				
Moisture	100		99-101		

Sample Matrix Quality Control

Analysis Name	BKG Conc	DUP Conc	RPD	RPD Max
Batch number: 15181820002B	Sample number(s): 7948391-7948392			
Moisture	4.1	4.9	16*	5

* - Outside of specification
(1) - The result for one or both determinations was less than five times the LOQ.

Moisture Data Report

Batch #: **15181820002**

Sample ID	Batch ID	Analysis#	Tare Wt	Sample Wt	Dry Wt	%Moisture	Analysis Date (Emp#)	Verified Date (Emp#)
7948391	B	00111	1.0686	7.2545	7.2097	15.35	6/30/15 (1201/SWF)	7/ 1/15 (236/CW)
7948392	B	00111	1.0909	6.9808	6.4175	23.70	6/30/15 (1201/SWF)	7/ 1/15 (236/CW)
P937264BKG	B	00111	1.0651	6.4959	7.2924	4.13	6/30/15 (1201/SWF)	7/ 1/15 (236/CW)
P937264DUP	B	00111	1.0870	6.0321	6.8260	4.86	6/30/15 (1201/SWF)	7/ 1/15 (236/CW)
LCS 89.5% Std.		00111	1.1013	5.0343	1.6361	89.38	6/30/15 (1201/SWF)	7/ 1/15 (236/CW)

August-September 2015

City of Galveston Incineration Site Sampling Event – August-September 2015
Data Usability Summary

This Data Usability Summary (DUS) contains the results of the data review for the analyses of samples collected by AECOM at the City of Galveston Incineration Site on August 25 and September 16, 2015. These samples were analyzed by DHL Analytical, Inc. (DHL) in Austin, Texas for the analytical methods specified on the chain-of-custody (C-O-C) documentation. Table 1 presents the analyses requested and a cross-reference of field sample identifications (IDs) and laboratory IDs.

The purpose of this sampling event is to delineate the contamination laterally and vertically of the constituents of concern in soil and groundwater.

Sample identification, dates sampled, matrices, and methods used for analyses are provided in Table 1. Samples were evaluated against the Texas Commission on Environmental Quality (TCEQ) *Review and Reporting of COC Concentration Data under TRRP* [Texas Risk Reduction Program], (RG-366/TRRP-13, May 2010) guidelines for data usability for the methods listed in this table.

The following laboratory submittals were examined:

- Laboratory reports;
- TRRP-13 Laboratory Review Checklists (LRCs); and
- TRRP-13 Exception Reports (ERs).

The analytical results and data qualifier definitions are presented in Attachment A. LRCs and ERs checklists are presented in Attachment B.

Table 1. Sample Distribution

Sample Identification	Laboratory Identification	Date Sampled	Metals SW-846 6020A	Mercury SW-846 7471B	PAHs SW-846 8270D SIM
INC-SB28-013	1508252-02	8/25/2015	X	X	X
INC-SB29-010	1508252-15	8/25/2015	X	X	X
INC-SB30-010	1508252-03	8/25/2015	X	X	X
INC-SB31-010	1508252-12	8/25/2015	X	X	X
INC-SB31-011	1508252-13	8/25/2015	X	X	X
INC-SB31-010R	1509067-01	8/25/2015	X	--	--
INC-SB32-010	1508252-10	8/25/2015	X	X	X
INC-SB33-010	1508252-11	8/25/2015	X	X	X
INC-SB34-010	1508252-07	8/25/2015	X	X	X
INC-SB35-010	1508252-08	8/25/2015	X	X	X
INC-SB37-010	1508252-05	8/25/2015	X	X	X
INC-SB37-011	1508252-06	8/25/2015	X	X	X

Table 1. Sample Distribution (Continued)

Sample Identification	Laboratory Identification	Date Sampled	Metals SW-846 6020A	Mercury SW-846 7471B	PAHs SW-846 8270D SIM
INC-SB38-010	1508252-04	8/25/2015	X	X	X
INC-SB39-010	1508252-14	8/25/2015	X	X	X
INC-SB44-010	1508252-01	8/25/2015	X	X	X
INC-SB46-010	1509150-03	9/16/2015	X	X	--
INC-SB47-010	1509150-05	9/16/2015	X	X	--
INC-SB47-011	1509150-06	9/16/2015	X	X	--
INC-SB48-010	1509150-07	9/16/2015	X	X	--
INC-SB49-010	1509150-08	9/16/2015	X	X	X
INC-SB50-010	1509150-09	9/16/2015	Collected but not analyzed per client		
INC-SB51-010	1509150-01	9/16/2015	X	X	X
INC-SB52-013	1509150-02	9/16/2015	X	X	X
Equipment Blank					
INC-SB35-015	1508252-09	8/25/2015	X	X	X
INC-SB46-015	1509150-04	9/16/2015	X	X	X

X - Analyzed by DHL Analytical, Inc. in Round Rock, Texas
-- Sample not analyzed for the indicated parameter

ID - Identification
SIM - Selective ion monitoring
SW-846 - Test Methods for Evaluation of Solid Waste: Physical/Chemical Methods, EPA, Office of Solid Waste and Emergency Response, December 1996, Revision 3 and subsequent revisions

Note - The "1" designation at the end of the sample ID means the sample is a field duplicate of the associated "0" ending sample that precedes it. The "3" designation at the end of the sample ID means the sample is a client-specified parent sample for matrix spike/matrix spike duplicate analysis. The "5" designation at the end of the sample ID means the sample is an equipment blank.

Analytical results were evaluated in accordance with TRRP-13. The results indicate that all of the data are acceptable and usable. Some samples were diluted due to matrix interferences or high concentrations of target compounds, which resulted in elevated sample detection limits (SDLs) and method quantitation limits (MQLs).

Sample results that were reported between the SDLs and MQLs were qualified with "J" as estimated. Note that the DHL cites the reporting limits which are the lowest standards used in the calibration curves and are therefore the equivalent to the MQLs. The laboratory qualified data using statistically-derived control limits, which were also used for data review and validation. Samples that required further qualification or anomalies are discussed in this DUS. Only quality control (QC) results associated with field samples are discussed in the text. QC samples only associated with other QC samples (such as laboratory control samples [LCSs] for trip blanks) are not discussed.

Samples INC-SB43-010 and INC-SB44-013 were renamed by the project team as INC-SB51-010 and INC-SB52-013, respectively, after the final report was received from DHL. The revised names for these samples were marked on the Work Order Sample Summary page in the final laboratory report and entered into AECOM's database.

Laboratory Certification

AECOM asserts that at the time the laboratory data were generated for this project, DHL was National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program for the matrices, methods, and parameters prescribed in this report. The applicable NELAP certification is T104704211-15-14, effective May 1, 2015 through April 30, 2016.

Metals by EPA SW-846 Method 6020A

Samples were analyzed for arsenic, barium, cadmium, chromium, lead, selenium, and silver by United States Environmental Protection Agency (EPA) SW-846 Method 6020A. The QC requirements that were evaluated included holding times, detection limits, calibrations, blanks, LCS/laboratory control sample duplicate (LCSD) results, matrix spike/matrix spike duplicate (MS/MSD) results, duplicates, serial dilutions, post digestion spikes, interference check samples, and internal standards. The QC results indicate that the reported data are usable for the intended purposes. Samples that required qualification or analytical anomalies are discussed below.

Blanks

Barium was detected in equipment blank (EB) INC-SB35-015. Barium and lead were detected in EB INC-SB46-015. The concentrations in the associated samples were greater than five times the concentrations in the EBs; therefore, no results were qualified due to similarity to EB concentrations.

Matrix Spikes

Results were qualified if the average of the MS and MSD recoveries or the MS/MSD relative percent difference (RPD) were outside of the laboratory acceptance criteria for client samples in the same preparation batch as the client parent sample. Results were not evaluated if the MS/MSD spike concentrations were less than four times the concentrations in the unspiked parent sample. The MS/MSD results were not evaluated then since the spiked concentrations were insignificant and may not have represented the matrix effect.

The MS/MSD results for barium and lead for parent sample INC-SB28-013 were not evaluated since the MS/MSD spike concentrations were less than four times the concentrations in the unspiked parent sample

Field Duplicates

Field duplicate results were evaluated using the acceptance criteria as specified in TRRP-13. When both the sample and field duplicate sample results are greater than five times the lower MQL and the RPD is greater than 50%, then the parent and field duplicate sample results are qualified due to field duplicate variability. When one of the results for the field duplicate pair are less than five times the lower MQL and both of the results are greater than three times the higher MQL, then the results are qualified due to field duplicate variability. Metal results qualified due to field duplicate variability are presented in Table 2.

Table 2. Metal Results Qualified Due to Field Duplicate Variability

Sample Identification	Analyte	Qualifier/Result	Reason
INC-SB31-010 INC-SB31-011	Arsenic Silver	J (Detects)	Field duplicate results did not meet acceptance criteria
INC-SB37-010 INC-SB37-011	Cadmium Silver		

J - Estimated

Serial Dilutions

The relative percent difference for selenium for sample INC-SB52-013 was greater than the laboratory acceptance criterion. Metal results qualified due to serial dilution variability are presented in Table 3.

Table 3. Metal Results Qualified Due to Serial Dilution Variability

Sample Identification	Analyte	Qualifier/Result	Reason
INC-SB46-010 INC-SB47-010 INC-SB47-011 INC-SB48-010 INC-SB49-010 INC-SB52-013	Selenium	J (Detects)	Serial dilution RPD > CL

CL - Control limit
J - Estimated
RPD - Relative percent difference

Mercury by EPA SW-846 Method 7471B

Samples were analyzed for mercury by EPA SW-846 Methods 7471B. The QC requirements that were evaluated included holding times, detection limits, calibrations, blanks, LCS/LCSD results, MS/MSD results, duplicates, serial dilutions, and post digestion spikes. The QC results

indicate that the reported data are usable for the intended purposes. Samples that required qualification or analytical anomalies are discussed below.

Field Duplicates

Field duplicate results were evaluated using the acceptance criteria as specified in TRRP-13. When both the sample and field duplicate sample results are greater than five times the lower MQL and the RPD is greater than 50%, then the parent and field duplicate sample results are qualified due to field duplicate variability. When one of the results for the field duplicate pair are less than five times the lower MQL and both of the results are greater than three times the higher MQL, then the results are qualified due to field duplicate variability.

The results for mercury in sample INC-SB37-010 and its field duplicate INC-SB37-011 did not meet the acceptance criteria. The detected results for mercury in these samples were qualified with "J" as estimated.

Polynuclear Aromatic Hydrocarbons by EPA SW-846 Method 8270D SIM

Samples were analyzed for polynuclear aromatic hydrocarbons (PAHs) by EPA SW-846 Method 8270D SIM. The QC requirements that were evaluated included sample receipt conditions, holding times, detection limits, calibrations, internal standards, field duplicates, blanks, LCS results, MS/MSD results, and surrogate spike results. The QC results indicate that all of the reported data are usable for the intended purposes. Samples that required qualification or analytical anomalies are discussed below.

Blanks

Naphthalene was detected in EB INC-SB35-015. The concentrations in the associated samples were either greater than five times the concentration in the EB or were not detected; therefore, no results were qualified due to similarity to EB concentration.

Field Duplicates

Field duplicate results were evaluated using the acceptance criteria as specified in TRRP-13. When both the sample and field duplicate sample results are greater than five times the lower MQL and the RPD is greater than 50%, then the parent and field duplicate sample results are qualified due to field duplicate variability. When one of the results for the field duplicate pair are less than five times the lower MQL and both of the results are greater than three times the higher MQL, then the results are qualified due to field duplicate variability.

The results for three compounds for sample INC-SB31-010 and its field duplicate INC-SB31-011 and two compounds for sample INC-SB37-010 and its field duplicate INC-SB37-011 were qualified due to field duplicate variability and are presented in Table 4.

Table 4. PAH Results Qualified Due to Field Duplicate Variability

Sample Identification	Analyte	Qualifier/Result	Reason
INC-SB31-010 INC-SB31-011	Benzo(k)fluoranthene Indeno(1,2,3-cd)pyrene Phenanthrene	J (Detects)	Field duplicate precision did not meet acceptance criteria
INC-SB37-010 INC-SB37-011	Acenaphthene Fluorene		

J - Estimated.
PAH - Polynuclear aromatic hydrocarbon.

Attachment A

Analytical Results

DATA QUALIFIERS

Qualifier	Definition
U	Not detected: Analysis for the analyte was performed, but the analyte was not detected above the level of the associated value. The associated value is the sample detection limit (SDL).
J	Estimated: The analyte was detected and identified. The associated numerical value is the approximate concentration of the analyte in the sample.
UJ	Not detected, SDL is estimated: The analyte was not detected above the reported SDL. The numerical value of the SDL is estimated and may be inaccurate.
NJ	Tentatively identified, reported concentration is estimated: The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration. For example, analyte not included in the calibration or second column confirmation not performed.
R	Rejected: The data are unusable.
X1	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ.
X2	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is located outside of Texas, and is accredited or periodically inspected by that state.
X3	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ, and the work is performed for another company unit located on the same site as the laboratory.
X4	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ, and the work is performed without compensation for a government agency or charitable organization.
X5	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is accredited under federal law, including certification by the EPA to provide these data for decisions related to the Safe Drinking Water Act.
X6	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory provides these data necessary for emergency response activities and the required analytical data are not available from a laboratory accredited under TLAP.
X7	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The TCEQ does not offer accreditation for this analyte, in this matrix, by this method.
X8	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The TCEQ offers accreditation for this analyte, in this matrix, by this method, but the laboratory is not accredited for this analyte in this matrix by this method. The analyte result is validated and reported as part of a suite of analytes for the method.
X9	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The result was generated prior to July 1, 2008.
Bias Codes	**Definition**
H	Bias in sample result likely high.
L	Bias in sample result likely low.

Table A-1

Organic Analyses for Soils

Results Of Organic Analyses For SOIL Samples, City of Galveston Inceneration 2015

PARAMETER	GalInc INC-SB28 INC-SB28-013 25-AUG-15 0-0.5				GalInc INC-SB29 INC-SB29-010 25-AUG-15 0-0.5				GalInc INC-SB30 INC-SB30-010 25-AUG-15 0-0.5				GalInc INC-SB31 INC-SB31-010 25-AUG-15 0-0.5			
SW8270D - Low-Level Semivolatile Organic Compounds (mg/kg)																
Acenaphthene	ND	U	(0.00640)	[1]	0.260		(0.0328)	[5]	0.135	J	(0.0728)	[10]	ND	U	(0.0363)	[5]
Acenaphthylene	0.0101	J	(0.00640)	[1]	0.0664		(0.0328)	[5]	0.334		(0.0728)	[10]	0.118		(0.0363)	[5]
Anthracene	0.0279		(0.00640)	[1]	1.21		(0.0328)	[5]	0.556		(0.0728)	[10]	0.142		(0.0363)	[5]
Benzo(a)anthracene	0.111		(0.00640)	[1]	4.24		(0.0328)	[5]	2.22		(0.0728)	[10]	0.406		(0.0363)	[5]
Benzo(a)pyrene	0.110		(0.00640)	[1]	3.33		(0.0328)	[5]	2.59		(0.0728)	[10]	0.474		(0.0363)	[5]
Benzo(b)fluoranthene	0.119		(0.00640)	[1]	3.47		(0.0328)	[5]	2.92		(0.0728)	[10]	0.493		(0.0363)	[5]
Benzo(g,h,i)perylene	0.0869		(0.00640)	[1]	2.18		(0.0328)	[5]	2.32		(0.0728)	[10]	0.414		(0.0363)	[5]
Benzo(k)fluoranthene	0.0528		(0.00640)	[1]	1.66		(0.0328)	[5]	1.32		(0.0728)	[10]	0.233	J	(0.0363)	[5]
Chrysene	0.128		(0.00640)	[1]	4.14		(0.0328)	[5]	2.74		(0.0728)	[10]	0.482		(0.0363)	[5]
Dibenz(a,h)anthracene	0.0201		(0.00640)	[1]	0.593		(0.0328)	[5]	0.495		(0.0728)	[10]	0.0938		(0.0363)	[5]
Fluoranthene	0.232		(0.00640)	[1]	9.39		(0.0328)	[5]	4.88		(0.0728)	[10]	0.871		(0.0363)	[5]
Fluorene	0.00783	J	(0.00640)	[1]	0.262		(0.0328)	[5]	0.142	J	(0.0728)	[10]	0.0379	J	(0.0363)	[5]
Indeno(1,2,3-cd)pyrene	0.0694		(0.00640)	[1]	1.95		(0.0328)	[5]	1.92		(0.0728)	[10]	0.313	J	(0.0363)	[5]
Naphthalene	ND	U	(0.00640)	[1]	ND	U	(0.0328)	[5]	ND	U	(0.0728)	[10]	ND	U	(0.0363)	[5]
Phenanthrene	0.100		(0.00640)	[1]	4.39		(0.0328)	[5]	1.89		(0.0728)	[10]	0.362	J	(0.0363)	[5]
Pyrene	0.186		(0.00640)	[1]	7.22		(0.0328)	[5]	4.09		(0.0728)	[10]	0.753		(0.0363)	[5]

() = Detection Limit [] = Dilution Factor ND = Not Detected NA = Not Applicable * - Value considered suspect, Refer to QC Report

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)														
	GalInc INC-SB31 INC-SB31-011 Dup of INC-SB31-010 25-AUG-15 0-0.5				GalInc INC-SB32 INC-SB32-010 25-AUG-15 0-0.5				GalInc INC-SB33 INC-SB33-010 25-AUG-15 0-0.5				GalInc INC-SB34 INC-SB34-010 25-AUG-15 0-0.5			
SW8270D - Low-Level Semivolatile Organic Compounds (mg/kg)															
Acenaphthene	ND	U	(0.0384	)[5]	ND	U	(0.0617	)[10]	0.00654	J	(0.00646	)[1]	0.0498	J	(0.0273	)[5]
Acenaphthylene	0.140		(0.0384	)[5]	0.131		(0.0617	)[10]	0.0226		(0.00646	)[1]	0.115		(0.0273	)[5]
Anthracene	0.160		(0.0384	)[5]	0.203		(0.0617	)[10]	0.0342		(0.00646	)[1]	0.182		(0.0273	)[5]
Benzo(a)anthracene	0.364		(0.0384	)[5]	0.582		(0.0617	)[10]	0.120		(0.00646	)[1]	0.557		(0.0273	)[5]
Benzo(a)pyrene	0.444		(0.0384	)[5]	0.619		(0.0617	)[10]	0.147		(0.00646	)[1]	0.536		(0.0273	)[5]
Benzo(b)fluoranthene	0.490		(0.0384	)[5]	0.650		(0.0617	)[10]	0.174		(0.00646	)[1]	0.565		(0.0273	)[5]
Benzo(g,h,i)perylene	0.417		(0.0384	)[5]	0.566		(0.0617	)[10]	0.126		(0.00646	)[1]	0.392		(0.0273	)[5]
Benzo(k)fluoranthene	0.221	J	(0.0384	)[5]	0.304		(0.0617	)[10]	0.0776		(0.00646	)[1]	0.272		(0.0273	)[5]
Chrysene	0.452		(0.0384	)[5]	0.642		(0.0617	)[10]	0.164		(0.00646	)[1]	0.586		(0.0273	)[5]
Dibenz(a,h)anthracene	0.0904		(0.0384	)[5]	0.124		(0.0617	)[10]	0.0284		(0.00646	)[1]	0.0988		(0.0273	)[5]
Fluoranthene	0.734		(0.0384	)[5]	1.16		(0.0617	)[10]	0.286		(0.00646	)[1]	1.34		(0.0273	)[5]
Fluorene	ND	U	(0.0384	)[5]	ND	U	(0.0617	)[10]	0.00727	J	(0.00646	)[1]	0.0549		(0.0273	)[5]
Indeno(1,2,3-cd)pyrene	0.306	J	(0.0384	)[5]	0.413		(0.0617	)[10]	0.105		(0.00646	)[1]	0.334		(0.0273	)[5]
Naphthalene	ND	U	(0.0384	)[5]	ND	U	(0.0617	)[10]	ND	U	(0.00646	)[1]	ND	U	(0.0273	)[5]
Phenanthrene	0.256	J	(0.0384	)[5]	0.490		(0.0617	)[10]	0.109		(0.00646	)[1]	0.704		(0.0273	)[5]
Pyrene	0.657		(0.0384	)[5]	1.02		(0.0617	)[10]	0.233		(0.00646	)[1]	1.05		(0.0273	)[5]

PARAMETER	GalInc INC-SB35 INC-SB35-010 25-AUG-15 0-0.5				GalInc INC-SB37 INC-SB37-010 25-AUG-15 0-0.5				GalInc INC-SB37 INC-SB37-011 Dup of INC-SB37-010 25-AUG-15 0-0.5				GalInc INC-SB38 INC-SB38-010 25-AUG-15 0-0.5			
SW8270D - Low-Level Semivolatile Organic Compounds (mg/kg)																
Acenaphthene	ND	U	(0.0573	)[10]	0.666	J	(0.0797	)[10]	0.682	J	(0.0788	)[10]	ND	U	(0.0299	)[5]
Acenaphthylene	0.0652	J	(0.0573	)[10]	2.13		(0.0797	)[10]	1.48		(0.0788	)[10]	0.0314	J	(0.0299	)[5]
Anthracene	0.0874	J	(0.0573	)[10]	3.52		(0.0797	)[10]	2.99		(0.0788	)[10]	0.0783		(0.0299	)[5]
Benzo(a)anthracene	0.222		(0.0573	)[10]	9.96		(0.0797	)[10]	10.3		(0.0788	)[10]	0.342		(0.0299	)[5]
Benzo(a)pyrene	0.248		(0.0573	)[10]	9.45		(0.0797	)[10]	9.96		(0.0788	)[10]	0.281		(0.0299	)[5]
Benzo(b)fluoranthene	0.270		(0.0573	)[10]	9.42		(0.0797	)[10]	9.96		(0.0788	)[10]	0.324		(0.0299	)[5]
Benzo(g,h,i)perylene	0.240		(0.0573	)[10]	6.48		(0.0797	)[10]	6.84		(0.0788	)[10]	0.213		(0.0299	)[5]
Benzo(k)fluoranthene	0.131		(0.0573	)[10]	4.53		(0.0797	)[10]	4.74		(0.0788	)[10]	0.153		(0.0299	)[5]
Chrysene	0.251		(0.0573	)[10]	9.72		(0.0797	)[10]	10.3		(0.0788	)[10]	0.368		(0.0299	)[5]
Dibenz(a,h)anthracene	ND	U	(0.0573	)[10]	1.64		(0.0797	)[10]	1.70		(0.0788	)[10]	0.0577	J	(0.0299	)[5]
Fluoranthene	0.477		(0.0573	)[10]	21.3		(0.0797	)[10]	21.9		(0.0788	)[10]	0.782		(0.0299	)[5]
Fluorene	ND	U	(0.0573	)[10]	0.802	J	(0.0797	)[10]	0.775	J	(0.0788	)[10]	ND	U	(0.0299	)[5]
Indeno(1,2,3-cd)pyrene	0.171		(0.0573	)[10]	5.66		(0.0797	)[10]	5.94		(0.0788	)[10]	0.177		(0.0299	)[5]
Naphthalene	ND	U	(0.0573	)[10]	0.127	J	(0.0797	)[10]	0.138	J	(0.0788	)[10]	ND	U	(0.0299	)[5]
Phenanthrene	0.210		(0.0573	)[10]	9.64		(0.0797	)[10]	9.66		(0.0788	)[10]	0.336		(0.0299	)[5]
Pyrene	0.403		(0.0573	)[10]	16.9		(0.0797	)[10]	17.7		(0.0788	)[10]	0.602		(0.0299	)[5]

PARAMETER	GalInc INC-SB39 INC-SB39-010 25-AUG-15 0-0.5				GalInc INC-SB44 INC-SB44-010 25-AUG-15 0-0.5				GalInc INC-SB49 INC-SB49-010 16-SEP-15 0-0.5				GalInc INC-SB51 INC-SB51-010 16-SEP-15 0-0.5			
SW8270D - Low-Level Semivolatile Organic Compounds (mg/kg)																
Acenaphthene	ND	U	(0.117	)[20]	0.0117		(0.00538	)[1]	0.190		(0.00626	)[1]	0.0292		(0.00587	)[1]
Acenaphthylene	0.195	J	(0.117	)[20]	0.121		(0.00538	)[1]	0.101		(0.00626	)[1]	0.252		(0.00587	)[1]
Anthracene	0.162	J	(0.117	)[20]	0.134		(0.00538	)[1]	0.493		(0.00626	)[1]	0.319		(0.00587	)[1]
Benzo(a)anthracene	0.497		(0.117	)[20]	0.240		(0.00538	)[1]	1.92		(0.00626	)[1]	0.944		(0.00587	)[1]
Benzo(a)pyrene	0.610		(0.117	)[20]	0.349		(0.00538	)[1]	1.85		(0.00626	)[1]	0.972		(0.00587	)[1]
Benzo(b)fluoranthene	0.686		(0.117	)[20]	0.493		(0.00538	)[1]	1.96		(0.00626	)[1]	1.15		(0.00587	)[1]
Benzo(g,h,i)perylene	0.562		(0.117	)[20]	0.290		(0.00538	)[1]	1.37		(0.00626	)[1]	0.728		(0.00587	)[1]
Benzo(k)fluoranthene	0.325		(0.117	)[20]	0.202		(0.00538	)[1]	0.884		(0.00626	)[1]	0.518		(0.00587	)[1]
Chrysene	0.656		(0.117	)[20]	0.316		(0.00538	)[1]	1.92		(0.00626	)[1]	1.03		(0.00587	)[1]
Dibenz(a,h)anthracene	0.127	J	(0.117	)[20]	0.0718		(0.00538	)[1]	0.318		(0.00626	)[1]	0.176		(0.00587	)[1]
Fluoranthene	1.10		(0.117	)[20]	0.388		(0.00538	)[1]	4.60		(0.00626	)[1]	1.43		(0.00587	)[1]
Fluorene	ND	U	(0.117	)[20]	0.0222		(0.00538	)[1]	0.136		(0.00626	)[1]	0.0464		(0.00587	)[1]
Indeno(1,2,3-cd)pyrene	0.446		(0.117	)[20]	0.258		(0.00538	)[1]	1.18		(0.00626	)[1]	0.633		(0.00587	)[1]
Naphthalene	ND	U	(0.117	)[20]	0.00771	J	(0.00538	)[1]	0.00765	J	(0.00626	)[1]	0.0156		(0.00587	)[1]
Phenanthrene	0.410		(0.117	)[20]	0.0888		(0.00538	)[1]	1.87		(0.00626	)[1]	0.573		(0.00587	)[1]
Pyrene	0.942		(0.117	)[20]	0.388		(0.00538	)[1]	3.46		(0.00626	)[1]	1.21		(0.00587	)[1]

SITE ID				
LOCATION ID				
SAMPLE ID				
DATE SAMPLED				
BEG. DEPTH - END DEPTH (FT.)				
PARAMETER	GalInc			
	INC-SB52			
	INC-SB52-013			
	16-SEP-15			
	0-0.5			
SW8270D - Low-Level Semivolatile Organic Compounds (mg/kg)				
Acenaphthene	0.00840	J	(0.00623)	[1]
Acenaphthylene	0.0238		(0.00623)	[1]
Anthracene	0.0378		(0.00623)	[1]
Benzo(a)anthracene	0.230		(0.00623)	[1]
Benzo(a)pyrene	0.318		(0.00623)	[1]
Benzo(b)fluoranthene	0.361		(0.00623)	[1]
Benzo(g,h,i)perylene	0.304		(0.00623)	[1]
Benzo(k)fluoranthene	0.166		(0.00623)	[1]
Chrysene	0.331		(0.00623)	[1]
Dibenz(a,h)anthracene	0.0607		(0.00623)	[1]
Fluoranthene	0.564		(0.00623)	[1]
Fluorene	0.0115	J	(0.00623)	[1]
Indeno(1,2,3-cd)pyrene	0.242		(0.00623)	[1]
Naphthalene	ND	U	(0.00623)	[1]
Phenanthrene	0.158		(0.00623)	[1]
Pyrene	0.492		(0.00623)	[1]

Table A-2

Inorganic Analyses for Soils

Results Of Inorganic Analyses For SOIL Samples, City of Galveston Inceneration 2015

PARAMETER																
SITE ID	GalInc				GalInc				GalInc				GalInc			
LOCATION ID	INC-SB28				INC-SB29				INC-SB30				INC-SB31			
SAMPLE ID	INC-SB28-013				INC-SB29-010				INC-SB30-010				INC-SB31-010			
DATE SAMPLED	25-AUG-15				25-AUG-15				25-AUG-15				25-AUG-15			
BEG. DEPTH - END DEPTH (FT.)	0-0.5				0-0.5				0-0.5				0-0.5			
Percent Solid (%)																
Percent moisture	22.5		(0.00	)[1]	30.4		(0.00	)[1]	32.7		(0.00	)[1]	34.3		(0.00	)[1]
SW6020A - Metals (mg/kg)																
Arsenic	2.49		(0.586	)[5]	25.1		(0.609	)[5]	20.0		(0.630	)[5]	6.19	J	(0.732	)[5]
Barium	374		(0.586	)[5]	584		(0.609	)[5]	1170		(12.6	)[100]	975		(14.6	)[100]
Cadmium	0.140	J	(0.117	)[5]	5.95		(0.122	)[5]	3.15		(0.126	)[5]	3.35		(0.146	)[5]
Chromium, total	11.8		(0.586	)[5]	33.2		(0.609	)[5]	49.7		(0.630	)[5]	43.5		(0.732	)[5]
Lead	233		(0.117	)[5]	893		(2.43	)[100]	818		(2.52	)[100]	718		(0.146	)[5]
Selenium	0.677		(0.176	)[5]	1.03		(0.183	)[5]	1.40		(0.189	)[5]	0.893		(0.220	)[5]
Silver	ND	U	(0.117	)[5]	0.909		(0.122	)[5]	2.89		(0.126	)[5]	2.85	J	(0.146	)[5]
SW7471B - Mercury (mg/kg)																
Mercury	0.0201	J	(0.0184	)[1]	0.0878		(0.0206	)[1]	1.03		(0.112	)[5]	2.25		(0.116	)[5]

Compiled: 10/23/15

() = Detection Limit [] = Dilution Factor ND = Not Detected NA = Not Applicable * - Value considered suspect, Refer to QC Report

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)														
	GalInc INC-SB31 INC-SB31-011 Dup of INC-SB31-010 25-AUG-15 0-0.5				GalInc INC-SB31 INC-SB31-010R 25-AUG-15 0-0.5				GalInc INC-SB32 INC-SB32-010 25-AUG-15 0-0.5				GalInc INC-SB33 INC-SB33-010 25-AUG-15 0-0.5		
Percent Solid (%)															
Percent moisture	35.7		(0.00	)[1]	NA				24.8		(0.00	)[1]	25.9		(0.00	)[1]
SW6020A - Metals (mg/kg)															
Arsenic	4.82	J	(0.643	)[5]	6.16		(0.732	)[5]	7.67		(0.615	)[5]	23.1		(0.592	)[5]
Barium	717		(12.9	)[100]	1170		(7.32	)[50]	417		(0.615	)[5]	335		(0.592	)[5]
Cadmium	2.15		(0.129	)[5]	3.22		(0.146	)[5]	3.27		(0.123	)[5]	0.264	J	(0.118	)[5]
Chromium, total	29.9		(0.643	)[5]	46.5		(0.732	)[5]	46.7		(0.615	)[5]	53.2		(0.592	)[5]
Lead	449		(0.129	)[5]	681		(0.146	)[5]	658		(2.46	)[100]	387		(0.118	)[5]
Selenium	0.535	J	(0.193	)[5]	0.897		(0.220	)[5]	0.533	J	(0.185	)[5]	0.290	J	(0.178	)[5]
Silver	1.51	J	(0.129	)[5]	2.43		(0.146	)[5]	0.929		(0.123	)[5]	ND	U	(0.118	)[5]
SW7471B - Mercury (mg/kg)															
Mercury	1.94		(0.111	)[5]	NA				0.304		(0.0185	)[1]	0.232		(0.0202	)[1]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)														
	GalInc INC-SB34 INC-SB34-010 25-AUG-15 0-0.5				GalInc INC-SB35 INC-SB35-010 25-AUG-15 0-0.5				GalInc INC-SB37 INC-SB37-010 25-AUG-15 0-0.5				GalInc INC-SB37 INC-SB37-011 Dup of INC-SB37-0 25-AUG-15 0-0.5			
Percent Solid (%)															
Percent moisture	13.3		(0.00	)[1]	16.9		(0.00	)[1]	39.3		(0.00	)[1]	38.1		(0.00	)[1]
SW6020A - Metals (mg/kg)															
Arsenic	6.19		(0.565	)[5]	4.61		(0.552	)[5]	8.63		(0.710	)[5]	9.80		(0.690	)[5]
Barium	70.2		(0.565	)[5]	165		(0.552	)[5]	324		(0.710	)[5]	289		(0.690	)[5]
Cadmium	0.116	J	(0.113	)[5]	0.365		(0.110	)[5]	1.73	J	(0.142	)[5]	1.68	J	(0.138	)[5]
Chromium, total	6.33		(0.565	)[5]	8.89		(0.552	)[5]	22.9		(0.710	)[5]	22.4		(0.690	)[5]
Lead	28.9		(0.113	)[5]	67.9		(0.110	)[5]	1020		(2.84	)[100]	681		(2.76	)[100]
Selenium	0.404	J	(0.170	)[5]	0.298	J	(0.166	)[5]	0.692	J	(0.213	)[5]	0.681	J	(0.207	)[5]
Silver	ND	U	(0.113	)[5]	0.161	J	(0.110	)[5]	0.908	J	(0.142	)[5]	1.81	J	(0.138	)[5]
SW7471B - Mercury (mg/kg)															
Mercury	0.0168	J	(0.0156	)[1]	0.0805		(0.0166	)[1]	0.274	J	(0.0241	)[1]	0.236	J	(0.0255	)[1]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)																
	GalInc INC-SB38 INC-SB38-010 25-AUG-15 0-0.5					GalInc INC-SB39 INC-SB39-010 25-AUG-15 0-0.5					GalInc INC-SB44 INC-SB44-010 25-AUG-15 0-0.5					GalInc INC-SB46 INC-SB46-010 16-SEP-15 0-0.5				
Percent Solid (%)																				
Percent moisture	18.7		(0.00	)	[1]	17.7		(0.00	)	[1]	9.11		(0.00	)	[1]	40.0		(0.00	)	[1]
SW6020A - Metals (mg/kg)																				
Arsenic	3.81		(0.554	)	[5]	2.90		(0.573	)	[5]	3.48		(0.539	)	[5]	6.46		(0.794	)	[5]
Barium	344		(0.554	)	[5]	394		(0.573	)	[5]	1340		(10.8	)	[100]	1680		(7.94	)	[50]
Cadmium	0.235	J	(0.111	)	[5]	0.361		(0.115	)	[5]	0.584		(0.108	)	[5]	0.393	J	(0.159	)	[5]
Chromium, total	12.6		(0.554	)	[5]	14.9		(0.573	)	[5]	9.37		(0.539	)	[5]	10.2		(0.794	)	[5]
Lead	119		(0.111	)	[5]	112		(0.115	)	[5]	133		(0.108	)	[5]	120		(0.159	)	[5]
Selenium	0.605		(0.166	)	[5]	0.368	J	(0.172	)	[5]	0.619		(0.162	)	[5]	0.824	J	(0.238	)	[5]
Silver	ND	U	(0.111	)	[5]	0.193	J	(0.115	)	[5]	0.171	J	(0.108	)	[5]	0.265	J	(0.159	)	[5]
SW7471B - Mercury (mg/kg)																				
Mercury	0.0292	J	(0.0170	)	[1]	0.0489		(0.0165	)	[1]	0.0481		(0.0163	)	[1]	0.0853		(0.0258	)	[1]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)															
	GalInc INC-SB47 INC-SB47-010 16-SEP-15 0-0.5				GalInc INC-SB47 INC-SB47-011 Dup of INC-SB47-010 16-SEP-15 0-0.5				GalInc INC-SB48 INC-SB48-010 16-SEP-15 0-0.5				GalInc INC-SB49 INC-SB49-010 16-SEP-15 0-0.5			
Percent Solid (%)																
Percent moisture	29.4		(0.00	)[1]	33.2		(0.00	)[1]	25.9		(0.00	)[1]	22.0		(0.00	)[1]
SW6020A - Metals (mg/kg)																
Arsenic	2.40		(0.632	)[5]	2.70		(0.657	)[5]	3.41		(0.613	)[5]	3.31		(0.517	)[5]
Barium	185		(0.632	)[5]	285		(0.657	)[5]	192		(0.613	)[5]	259		(0.517	)[5]
Cadmium	0.820		(0.126	)[5]	0.860		(0.131	)[5]	0.240	J	(0.123	)[5]	0.305	J	(0.103	)[5]
Chromium, total	7.49		(0.632	)[5]	8.61		(0.657	)[5]	11.1		(0.613	)[5]	7.68		(0.517	)[5]
Lead	114		(0.126	)[5]	135		(0.131	)[5]	45.0		(0.123	)[5]	72.2		(0.103	)[5]
Selenium	0.826	J	(0.190	)[5]	0.837	J	(0.197	)[5]	0.877	J	(0.184	)[5]	0.611	J	(0.155	)[5]
Silver	0.247	J	(0.126	)[5]	0.266		(0.131	)[5]	ND	U	(0.123	)[5]	0.106	J	(0.103	)[5]
SW7471B - Mercury (mg/kg)																
Mercury	1.47		(0.209	)[10]	1.27		(0.222	)[10]	0.0677		(0.0201	)[1]	0.106		(0.0173	)[1]

PARAMETER	SITE ID LOCATION ID SAMPLE ID DATE SAMPLED BEG. DEPTH - END DEPTH (FT.)							
	GalInc INC-SB51 INC-SB51-010 16-SEP-15 0-0.5				GalInc INC-SB52 INC-SB52-013 16-SEP-15 0-0.5			
Percent Solid (%)								
Percent moisture	20.3		(0.00	)[1]	21.1		(0.00	)[1]
SW6020A - Metals (mg/kg)								
Arsenic	5.84		(0.546	)[5]	3.65		(0.604	)[5]
Barium	182		(0.546	)[5]	107		(0.604	)[5]
Cadmium	0.366		(0.109	)[5]	0.277	J	(0.121	)[5]
Chromium, total	10.6		(0.546	)[5]	11.8		(0.604	)[5]
Lead	112		(0.109	)[5]	40.1		(0.121	)[5]
Selenium	0.522	J	(0.164	)[5]	0.779	J	(0.181	)[5]
Silver	0.213	J	(0.109	)[5]	ND	U	(0.121	)[5]
SW7471B - Mercury (mg/kg)								
Mercury	0.0809		(0.0174	)[1]	0.0335	J	(0.0198	)[1]

Attachment B

TRRP-13 LRCs and ERs

DHL Analytical, Inc.
Laboratory Review Checklist: Reportable Data

Project Name: City of Galveston Incinerator	**Date:** 9/9/2015
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1508252
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				R5-04
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				R7-02
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: City of Galveston Incinerator	**Date:** 9/9/2015
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1508252

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			S9-01
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5,
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) The amount of analyte measured in the duplicate,
  - b) The calculated RPD, and
  - c) The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-5, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager		09/09/15
Scott Schroeder – Technical Director	Signature	Date

DHL Analytical, Inc. **Date:** *09-Sep-15*

CLIENT: AECOM
Project: City of Galveston Incinerator
Lab Order: 1508252

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW8270D-LL - PAH Analysis - Low Level
Method SW6020A - Metals Analysis
Method SW7470A/7471B - Mercury Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 8/26/2015. A total of 15 samples were received and analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R5-04

For PAH Analysis, for water batch, Benzo[a]anthracene, Benzo[b]fluoranthene, and Chrysene were detected below the reporting limit for Method Blank-71169. These compounds were nondetect in the associated sample. No further corrective action was taken.

Exception Report R7-02

For PAH Analysis, for water batch, an MS/MSD was not performed due to limited sample volume. An LCS/LCSD was performed as Batch QC.

Exception Report R7-03

For Metals Analysis, for soil Batch 71286, the recoveries of up to two analytes for the Matrix Spike and Matrix Spike Duplicate (1508252-02 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary report. These analytes were within method control limits in the associated LCS. No further corrective action was taken..

Exception Report S9-01

For Metals Analysis, for water Batch 71249, the RPD of Lead for the Serial Dilution (1508268-01 SD) was slightly above the method control limit. This is flagged accordingly in the QC Summary report. This analyte was within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

DHL Analytical, Inc.
Laboratory Review Checklist: Reportable Data

Project Name: City of Galveston Incinerator	**Date:** 9/16/2015
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1509067
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: City of Galveston Incinerator | **Date:** 9/16/2015

Reviewer Name: Angie O'Donnell | **Laboratory Work Order:** 1509067

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			S9-01
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with NELAC Chapter 5,
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs).
R4 Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits.
R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits.
R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits
R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-5, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager		09/16/15
Scott Schroeder – Technical Director	Signature	Date

DHL Analytical, Inc. **Date:** *16-Sep-15*

CLIENT: AECOM
Project: City of Galveston Incinerator
Lab Order: 1509067

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis

Exception Report R1-01

The analysis was added and log-in performed on 9/9/2015. One sample was re-prepped and re-analyzed, per the client's request. The percent moisture was performed for this sample in DHL WO# 1508252.

Exception Report R7-03

For Metals Analysis, the recoveries of up to two analytes for the Matrix Spike and Matrix Spike Duplicate (1509025-01 MS/MSD) were below the method control limits. These are flagged accordingly in the QC Summary report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

Exception Report S9-01

For Metals Analysis, the RPD of Selenium for the Serial Dilution (1509025-01 SD) was above the method control limit. This is flagged accordingly in the QC Summary report. This analyte was within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

DHL Analytical, Inc.
Laboratory Review Checklist: Reportable Data

Project Name: City of Galveston Incinerator	**Date:** 10/1/2015
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1509150
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				R7-02
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.
Laboratory Review Checklist (continued): Supporting Data

Project Name: City of Galveston Incinerator	**Date:** 10/1/2015
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1509150

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			S9-01
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with NELAC Chapter 5,
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs).
R4 Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits.
R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits.
R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits
R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-5, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager		10/01/15
Scott Schroeder – Technical Director	Signature	Date

DHL Analytical, Inc. **Date:** *01-Oct-15*

CLIENT: AECOM
Project: City of Galveston Incinerator
Lab Order: 1509150

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7470A/7471B - Mercury Analysis
Method SW8270D-LL - PAH Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 9/17/2015. A total of 9 samples were received and 8 were analyzed. The samples arrived in good condition and were properly packaged. Analysis was added to one sample per the client request on 9/29/2015.

Exception Report R7-02

For PAH Analysis, for water Batch 71517, an MS/MSD was not performed due to insufficient sample volume. An LCS/LCSD was performed as Batch QC.

Exception Report R7-03

For Mercury Analysis, for water Batch 71549, the recoveries of the Matrix Spike and Matrix Spike Duplicate (1509184-04 MS/MSD) were below the method control limits. These are flagged accordingly in the QC Summary report. The associated LCS was within method control limits. No further corrective action was taken.

Exception Report S9-01

For Metals Analysis, for Batches 71509 and 71693, the RPD of Selenium for the Serial Dilution(s) (1509150-02/1509284-08 SD) was above the method control limit. These are flagged accordingly in the QC Summary report. This analyte was within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: City of Galveston Incinerator	**Date:** 9/9/2015
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1508252
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	**1)** Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				**R1-01**
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				**R5-04**
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				**R7-02**
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			**R7-03**
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.
Laboratory Review Checklist (continued): Supporting Data

Project Name: City of Galveston Incinerator | **Date:** 9/9/2015

Reviewer Name: Angie O'Donnell | **Laboratory Work Order:** 1508252

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			**S9-01**
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
- a) Items consistent with NELAC Chapter 5,
- b) dilution factors,
- c) preparation methods,
- d) cleanup methods, and
- e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:
- a) Calculated recovery (%R), and
- b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
- a) LCS spiking amounts,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d) Calculated %Rs and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits

R8 Laboratory analytical duplicate (if applicable) recovery and precision:
- a) The amount of analyte measured in the duplicate,
- b) The calculated RPD, and
- c) The laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-5, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager		09/09/15
Scott Schroeder – Technical Director	Signature	Date

DHL Analytical, Inc. **Date:** *09-Sep-15*

CLIENT: AECOM
Project: City of Galveston Incinerator
Lab Order: 1508252

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW8270D-LL - PAH Analysis - Low Level
Method SW6020A - Metals Analysis
Method SW7470A/7471B - Mercury Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 8/26/2015. A total of 15 samples were received and analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R5-04

For PAH Analysis, for water batch, Benzo[a]anthracene, Benzo[b]fluoranthene, and Chrysene were detected below the reporting limit for Method Blank-71169. These compounds were nondetect in the associated sample. No further corrective action was taken.

Exception Report R7-02

For PAH Analysis, for water batch, an MS/MSD was not performed due to limited sample volume. An LCS/LCSD was performed as Batch QC.

Exception Report R7-03

For Metals Analysis, for soil Batch 71286, the recoveries of up to two analytes for the Matrix Spike and Matrix Spike Duplicate (1508252-02 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

Exception Report S9-01

For Metals Analysis, for water Batch 71249, the RPD of Lead for the Serial Dilution (1508268-01 SD) was slightly above the method control limit. This is flagged accordingly in the QC Summary report. This analyte was within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

DHL Analytical, Inc.

Date: *09-Sep-15*

CLIENT: AECOM
Project: City of Galveston Incinerator
Lab Order: 1508252

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1508252-01	INC-SB44-010		08/25/15 08:30 AM	8/26/2015
1508252-02	INC-SB28-013		08/25/15 08:40 AM	8/26/2015
1508252-03	INC-SB30-010		08/25/15 09:35 AM	8/26/2015
1508252-04	INC-SB38-010		08/25/15 09:00 AM	8/26/2015
1508252-05	INC-SB37-010		08/25/15 10:45 AM	8/26/2015
1508252-06	INC-SB37-011		08/25/15 10:45 AM	8/26/2015
1508252-07	INC-SB34-010		08/25/15 11:00 AM	8/26/2015
1508252-08	INC-SB35-010		08/25/15 11:50 AM	8/26/2015
1508252-09	INC-SB35-015		08/25/15 11:55 AM	8/26/2015
1508252-10	INC-SB32-010		08/25/15 12:20 PM	8/26/2015
1508252-11	INC-SB33-010		08/25/15 01:50 PM	8/26/2015
1508252-12	INC-SB31-010		08/25/15 02:05 PM	8/26/2015
1508252-13	INC-SB31-011		08/25/15 02:05 PM	8/26/2015
1508252-14	INC-SB39-010		08/25/15 04:45 PM	8/26/2015
1508252-15	INC-SB29-010		08/25/15 05:00 PM	8/26/2015

DHL Analytical, Inc.

09-Sep-15

Lab Order: 1508252
Client: AECOM
Project: City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1508252-01A	INC-SB44-010	08/25/15 08:30 AM	Soil	SW7471A	Mercury Soil Prep, Total	09/02/15 09:18 AM	71287
	INC-SB44-010	08/25/15 08:30 AM	Soil	D2216	Moisture Preparation	08/27/15 11:36 AM	71178
	INC-SB44-010	08/25/15 08:30 AM	Soil	SW3550C	Soil Prep Sonication: PAH	09/01/15 07:52 AM	71213
	INC-SB44-010	08/25/15 08:30 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
	INC-SB44-010	08/25/15 08:30 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
1508252-02A	INC-SB28-013	08/25/15 08:40 AM	Soil	SW7471A	Mercury Soil Prep, Total	09/02/15 09:18 AM	71287
	INC-SB28-013	08/25/15 08:40 AM	Soil	D2216	Moisture Preparation	08/27/15 11:36 AM	71178
	INC-SB28-013	08/25/15 08:40 AM	Soil	SW3550C	Soil Prep Sonication: PAH	09/01/15 07:52 AM	71213
	INC-SB28-013	08/25/15 08:40 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
1508252-03A	INC-SB30-010	08/25/15 09:35 AM	Soil	SW7471A	Mercury Soil Prep, Total	09/02/15 09:18 AM	71287
	INC-SB30-010	08/25/15 09:35 AM	Soil	SW7471A	Mercury Soil Prep, Total	09/02/15 09:18 AM	71287
	INC-SB30-010	08/25/15 09:35 AM	Soil	D2216	Moisture Preparation	08/27/15 11:36 AM	71178
	INC-SB30-010	08/25/15 09:35 AM	Soil	SW3550C	Soil Prep Sonication: PAH	09/01/15 07:52 AM	71213
	INC-SB30-010	08/25/15 09:35 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
	INC-SB30-010	08/25/15 09:35 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
1508252-04A	INC-SB38-010	08/25/15 09:00 AM	Soil	SW7471A	Mercury Soil Prep, Total	09/02/15 09:18 AM	71287
	INC-SB38-010	08/25/15 09:00 AM	Soil	D2216	Moisture Preparation	08/27/15 11:36 AM	71178
	INC-SB38-010	08/25/15 09:00 AM	Soil	SW3550C	Soil Prep Sonication: PAH	09/01/15 07:52 AM	71213
	INC-SB38-010	08/25/15 09:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
1508252-05A	INC-SB37-010	08/25/15 10:45 AM	Soil	SW7471A	Mercury Soil Prep, Total	09/02/15 09:18 AM	71287
	INC-SB37-010	08/25/15 10:45 AM	Soil	D2216	Moisture Preparation	08/27/15 11:36 AM	71178
	INC-SB37-010	08/25/15 10:45 AM	Soil	SW3550C	Soil Prep Sonication: PAH	09/01/15 07:52 AM	71213
	INC-SB37-010	08/25/15 10:45 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
	INC-SB37-010	08/25/15 10:45 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
1508252-06A	INC-SB37-011	08/25/15 10:45 AM	Soil	SW7471A	Mercury Soil Prep, Total	09/02/15 09:18 AM	71287
	INC-SB37-011	08/25/15 10:45 AM	Soil	D2216	Moisture Preparation	08/27/15 11:36 AM	71178
	INC-SB37-011	08/25/15 10:45 AM	Soil	SW3550C	Soil Prep Sonication: PAH	09/01/15 07:52 AM	71213
	INC-SB37-011	08/25/15 10:45 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286

Lab Order: 1508252
Client: AECOM
Project: City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1508252-06A	INC-SB37-011	08/25/15 10:45 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
1508252-07A	INC-SB34-010	08/25/15 11:00 AM	Soil	SW7471A	Mercury Soil Prep, Total	09/02/15 09:18 AM	71287
	INC-SB34-010	08/25/15 11:00 AM	Soil	D2216	Moisture Preparation	08/27/15 11:36 AM	71178
	INC-SB34-010	08/25/15 11:00 AM	Soil	SW3550C	Soil Prep Sonication: PAH	09/01/15 07:52 AM	71213
	INC-SB34-010	08/25/15 11:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
1508252-08A	INC-SB35-010	08/25/15 11:50 AM	Soil	SW7471A	Mercury Soil Prep, Total	09/02/15 09:18 AM	71287
	INC-SB35-010	08/25/15 11:50 AM	Soil	D2216	Moisture Preparation	08/27/15 11:36 AM	71178
	INC-SB35-010	08/25/15 11:50 AM	Soil	SW3550C	Soil Prep Sonication: PAH	09/01/15 07:52 AM	71213
	INC-SB35-010	08/25/15 11:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
1508252-09A	INC-SB35-015	08/25/15 11:55 AM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	08/31/15 09:44 AM	71249
	INC-SB35-015	08/25/15 11:55 AM	Equip Blank	SW7470A	Mercury Aq Prep, Total	08/28/15 11:21 AM	71233
1508252-09B	INC-SB35-015	08/25/15 11:55 AM	Equip Blank	SW3510C	Aq Prep Sep Funnel: PAH	08/26/15 10:09 AM	71169
1508252-10A	INC-SB32-010	08/25/15 12:20 PM	Soil	SW7471A	Mercury Soil Prep, Total	09/02/15 09:18 AM	71287
	INC-SB32-010	08/25/15 12:20 PM	Soil	D2216	Moisture Preparation	08/27/15 11:36 AM	71178
	INC-SB32-010	08/25/15 12:20 PM	Soil	SW3550C	Soil Prep Sonication: PAH	09/01/15 07:52 AM	71213
	INC-SB32-010	08/25/15 12:20 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
	INC-SB32-010	08/25/15 12:20 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
1508252-11A	INC-SB33-010	08/25/15 01:50 PM	Soil	SW7471A	Mercury Soil Prep, Total	09/02/15 09:18 AM	71287
	INC-SB33-010	08/25/15 01:50 PM	Soil	D2216	Moisture Preparation	08/27/15 01:11 PM	71210
	INC-SB33-010	08/25/15 01:50 PM	Soil	SW3550C	Soil Prep Sonication: PAH	09/01/15 07:52 AM	71213
	INC-SB33-010	08/25/15 01:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
1508252-12A	INC-SB31-010	08/25/15 02:05 PM	Soil	SW7471A	Mercury Soil Prep, Total	09/02/15 09:18 AM	71287
	INC-SB31-010	08/25/15 02:05 PM	Soil	SW7471A	Mercury Soil Prep, Total	09/02/15 09:18 AM	71287
	INC-SB31-010	08/25/15 02:05 PM	Soil	D2216	Moisture Preparation	08/27/15 01:11 PM	71210
	INC-SB31-010	08/25/15 02:05 PM	Soil	SW3550C	Soil Prep Sonication: PAH	09/01/15 07:52 AM	71213
	INC-SB31-010	08/25/15 02:05 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
	INC-SB31-010	08/25/15 02:05 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
1508252-13A	INC-SB31-011	08/25/15 02:05 PM	Soil	SW7471A	Mercury Soil Prep, Total	09/02/15 09:18 AM	71287

Lab Order: 1508252
Client: AECOM
Project: City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1508252-13A	INC-SB31-011	08/25/15 02:05 PM	Soil	SW7471A	Mercury Soil Prep, Total	09/02/15 09:18 AM	71287
	INC-SB31-011	08/25/15 02:05 PM	Soil	D2216	Moisture Preparation	08/27/15 01:11 PM	71210
	INC-SB31-011	08/25/15 02:05 PM	Soil	SW3550C	Soil Prep Sonication: PAH	09/01/15 07:52 AM	71213
	INC-SB31-011	08/25/15 02:05 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
	INC-SB31-011	08/25/15 02:05 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
1508252-14A	INC-SB39-010	08/25/15 04:45 PM	Soil	SW7471A	Mercury Soil Prep, Total	09/02/15 09:18 AM	71287
	INC-SB39-010	08/25/15 04:45 PM	Soil	D2216	Moisture Preparation	08/27/15 01:11 PM	71210
	INC-SB39-010	08/25/15 04:45 PM	Soil	SW3550C	Soil Prep Sonication: PAH	09/01/15 07:52 AM	71213
	INC-SB39-010	08/25/15 04:45 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
1508252-15A	INC-SB29-010	08/25/15 05:00 PM	Soil	SW7471A	Mercury Soil Prep, Total	09/02/15 09:18 AM	71287
	INC-SB29-010	08/25/15 05:00 PM	Soil	D2216	Moisture Preparation	08/27/15 01:11 PM	71210
	INC-SB29-010	08/25/15 05:00 PM	Soil	SW3550C	Soil Prep Sonication: PAH	09/01/15 07:52 AM	71213
	INC-SB29-010	08/25/15 05:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286
	INC-SB29-010	08/25/15 05:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/02/15 09:15 AM	71286

Lab Order: 1508252
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1508252-01A	INC-SB44-010	Soil	SW8270D-LL	PAHs: GC/MS	71213	1	09/02/15 01:47 PM	GCMS6_150902A
	INC-SB44-010	Soil	D2216	Percent Moisture	71178	1	08/28/15 09:16 AM	PMOIST_150827B
	INC-SB44-010	Soil	SW7471B	Total Mercury: Soil/Solid	71287	1	09/03/15 02:24 PM	CETAC2_HG_150903B
	INC-SB44-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	5	09/03/15 12:39 PM	ICP-MS4_150903A
	INC-SB44-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	100	09/03/15 04:42 PM	ICP-MS4_150903B
1508252-02A	INC-SB28-013	Soil	SW8270D-LL	PAHs: GC/MS	71213	1	09/02/15 11:45 AM	GCMS6_150902A
	INC-SB28-013	Soil	D2216	Percent Moisture	71178	1	08/28/15 09:16 AM	PMOIST_150827B
	INC-SB28-013	Soil	SW7471B	Total Mercury: Soil/Solid	71287	1	09/03/15 02:12 PM	CETAC2_HG_150903B
	INC-SB28-013	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	5	09/03/15 12:25 PM	ICP-MS4_150903A
1508252-03A	INC-SB30-010	Soil	SW8270D-LL	PAHs: GC/MS	71213	10	09/02/15 08:31 PM	GCMS6_150902A
	INC-SB30-010	Soil	D2216	Percent Moisture	71178	1	08/28/15 09:16 AM	PMOIST_150827B
	INC-SB30-010	Soil	SW7471B	Total Mercury: Soil/Solid	71287	1	09/03/15 02:26 PM	CETAC2_HG_150903B
	INC-SB30-010	Soil	SW7471B	Total Mercury: Soil/Solid	71287	5	09/03/15 03:14 PM	CETAC2_HG_150903B
	INC-SB30-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	5	09/03/15 12:40 PM	ICP-MS4_150903A
	INC-SB30-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	100	09/03/15 04:44 PM	ICP-MS4_150903B
1508252-04A	INC-SB38-010	Soil	SW8270D-LL	PAHs: GC/MS	71213	5	09/02/15 07:11 PM	GCMS6_150902A
	INC-SB38-010	Soil	D2216	Percent Moisture	71178	1	08/28/15 09:16 AM	PMOIST_150827B
	INC-SB38-010	Soil	SW7471B	Total Mercury: Soil/Solid	71287	1	09/03/15 02:28 PM	CETAC2_HG_150903B
	INC-SB38-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	5	09/03/15 12:42 PM	ICP-MS4_150903A
1508252-05A	INC-SB37-010	Soil	SW8270D-LL	PAHs: GC/MS	71213	10	09/02/15 10:33 PM	GCMS6_150902A
	INC-SB37-010	Soil	D2216	Percent Moisture	71178	1	08/28/15 09:16 AM	PMOIST_150827B
	INC-SB37-010	Soil	SW7471B	Total Mercury: Soil/Solid	71287	1	09/03/15 02:31 PM	CETAC2_HG_150903B
	INC-SB37-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	5	09/03/15 12:44 PM	ICP-MS4_150903A
	INC-SB37-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	100	09/03/15 04:46 PM	ICP-MS4_150903B
1508252-06A	INC-SB37-011	Soil	SW8270D-LL	PAHs: GC/MS	71213	10	09/02/15 11:14 PM	GCMS6_150902A

Lab Order: 1508252
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1508252-06A	INC-SB37-011	Soil	D2216	Percent Moisture	71178	1	08/28/15 09:16 AM	PMOIST_150827B
	INC-SB37-011	Soil	SW7471B	Total Mercury: Soil/Solid	71287	1	09/03/15 02:33 PM	CETAC2_HG_150903B
	INC-SB37-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	100	09/03/15 04:48 PM	ICP-MS4_150903B
	INC-SB37-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	5	09/03/15 02:08 PM	ICP-MS4_150903B
1508252-07A	INC-SB34-010	Soil	SW8270D-LL	PAHs: GC/MS	71213	5	09/02/15 07:51 PM	GCMS6_150902A
	INC-SB34-010	Soil	D2216	Percent Moisture	71178	1	08/28/15 09:16 AM	PMOIST_150827B
	INC-SB34-010	Soil	SW7471B	Total Mercury: Soil/Solid	71287	1	09/03/15 02:35 PM	CETAC2_HG_150903B
	INC-SB34-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	5	09/03/15 02:10 PM	ICP-MS4_150903B
1508252-08A	INC-SB35-010	Soil	SW8270D-LL	PAHs: GC/MS	71213	10	09/02/15 09:12 PM	GCMS6_150902A
	INC-SB35-010	Soil	D2216	Percent Moisture	71178	1	08/28/15 09:16 AM	PMOIST_150827B
	INC-SB35-010	Soil	SW7471B	Total Mercury: Soil/Solid	71287	1	09/03/15 02:37 PM	CETAC2_HG_150903B
	INC-SB35-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	5	09/03/15 02:12 PM	ICP-MS4_150903B
1508252-09A	INC-SB35-015	Equip Blank	SW7470A	Mercury Total: Aqueous	71233	1	08/31/15 04:42 PM	CETAC2_HG_150831B
	INC-SB35-015	Equip Blank	SW6020A	Trace Metals: ICP-MS - Water	71249	1	09/03/15 03:05 PM	ICP-MS4_150903B
1508252-09B	INC-SB35-015	Equip Blank	SW8270D-LL	PAHs: GC/MS	71169	1	08/27/15 04:48 PM	GCMS6_150827A
1508252-10A	INC-SB32-010	Soil	SW8270D-LL	PAHs: GC/MS	71213	10	09/02/15 09:52 PM	GCMS6_150902A
	INC-SB32-010	Soil	D2216	Percent Moisture	71178	1	08/28/15 09:16 AM	PMOIST_150827B
	INC-SB32-010	Soil	SW7471B	Total Mercury: Soil/Solid	71287	1	09/03/15 02:40 PM	CETAC2_HG_150903B
	INC-SB32-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	5	09/03/15 02:13 PM	ICP-MS4_150903B
	INC-SB32-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	100	09/03/15 04:49 PM	ICP-MS4_150903B
1508252-11A	INC-SB33-010	Soil	SW8270D-LL	PAHs: GC/MS	71213	1	09/02/15 11:05 AM	GCMS6_150902A
	INC-SB33-010	Soil	D2216	Percent Moisture	71210	1	08/28/15 09:16 AM	PMOIST_150827C
	INC-SB33-010	Soil	SW7471B	Total Mercury: Soil/Solid	71287	1	09/03/15 02:42 PM	CETAC2_HG_150903B
	INC-SB33-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	5	09/03/15 02:15 PM	ICP-MS4_150903B
1508252-12A	INC-SB31-010	Soil	SW8270D-LL	PAHs: GC/MS	71213	5	09/02/15 05:51 PM	GCMS6_150902A

Lab Order: 1508252
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1508252-12A	INC-SB31-010	Soil	D2216	Percent Moisture	71210	1	08/28/15 09:16 AM	PMOIST_150827C
	INC-SB31-010	Soil	SW7471B	Total Mercury: Soil/Solid	71287	1	09/03/15 02:49 PM	CETAC2_HG_150903B
	INC-SB31-010	Soil	SW7471B	Total Mercury: Soil/Solid	71287	5	09/03/15 03:16 PM	CETAC2_HG_150903B
	INC-SB31-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	5	09/03/15 02:17 PM	ICP-MS4_150903B
	INC-SB31-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	100	09/03/15 04:51 PM	ICP-MS4_150903B
1508252-13A	INC-SB31-011	Soil	SW8270D-LL	PAHs: GC/MS	71213	5	09/02/15 06:31 PM	GCMS6_150902A
	INC-SB31-011	Soil	D2216	Percent Moisture	71210	1	08/28/15 09:16 AM	PMOIST_150827C
	INC-SB31-011	Soil	SW7471B	Total Mercury: Soil/Solid	71287	1	09/03/15 02:54 PM	CETAC2_HG_150903B
	INC-SB31-011	Soil	SW7471B	Total Mercury: Soil/Solid	71287	5	09/03/15 03:18 PM	CETAC2_HG_150903B
	INC-SB31-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	100	09/03/15 04:53 PM	ICP-MS4_150903B
	INC-SB31-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	5	09/03/15 02:19 PM	ICP-MS4_150903B
1508252-14A	INC-SB39-010	Soil	SW8270D-LL	PAHs: GC/MS	71213	20	09/02/15 11:54 PM	GCMS6_150902A
	INC-SB39-010	Soil	D2216	Percent Moisture	71210	1	08/28/15 09:16 AM	PMOIST_150827C
	INC-SB39-010	Soil	SW7471B	Total Mercury: Soil/Solid	71287	1	09/03/15 02:58 PM	CETAC2_HG_150903B
	INC-SB39-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	5	09/03/15 02:21 PM	ICP-MS4_150903B
1508252-15A	INC-SB29-010	Soil	SW8270D-LL	PAHs: GC/MS	71213	5	09/02/15 05:10 PM	GCMS6_150902A
	INC-SB29-010	Soil	D2216	Percent Moisture	71210	1	08/28/15 09:16 AM	PMOIST_150827C
	INC-SB29-010	Soil	SW7471B	Total Mercury: Soil/Solid	71287	1	09/03/15 03:01 PM	CETAC2_HG_150903B
	INC-SB29-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	100	09/03/15 04:55 PM	ICP-MS4_150903B
	INC-SB29-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71286	5	09/03/15 02:23 PM	ICP-MS4_150903B

DHL Analytical, Inc.

Date: *09-Sep-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB44-010
Project:	City of Galveston Incinerator	**Lab ID:**	1508252-01
Project No:	60420789.41012083.0103	**Collection Date:**	08/25/15 08:30 AM
Lab Order:	1508252	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	0.0481	0.0163	0.0408		mg/Kg-dry	1	09/03/15 02:24 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	3.48	0.539	1.08		mg/Kg-dry	5	09/03/15 12:39 PM
Barium	1340	10.8	43.1		mg/Kg-dry	100	09/03/15 04:42 PM
Cadmium	0.584	0.108	0.324		mg/Kg-dry	5	09/03/15 12:39 PM
Chromium	9.37	0.539	2.16		mg/Kg-dry	5	09/03/15 12:39 PM
Lead	133	0.108	0.324		mg/Kg-dry	5	09/03/15 12:39 PM
Selenium	0.619	0.162	0.539		mg/Kg-dry	5	09/03/15 12:39 PM
Silver	0.171	0.108	0.216	J	mg/Kg-dry	5	09/03/15 12:39 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.0117	0.00538	0.0108		mg/Kg-dry	1	09/02/15 01:47 PM
Acenaphthylene	0.121	0.00538	0.0108		mg/Kg-dry	1	09/02/15 01:47 PM
Anthracene	0.134	0.00538	0.0108		mg/Kg-dry	1	09/02/15 01:47 PM
Benzo[a]anthracene	0.240	0.00538	0.0108		mg/Kg-dry	1	09/02/15 01:47 PM
Benzo[a]pyrene	0.349	0.00538	0.0108		mg/Kg-dry	1	09/02/15 01:47 PM
Benzo[b]fluoranthene	0.493	0.00538	0.0108		mg/Kg-dry	1	09/02/15 01:47 PM
Benzo[g,h,i]perylene	0.290	0.00538	0.0108		mg/Kg-dry	1	09/02/15 01:47 PM
Benzo[k]fluoranthene	0.202	0.00538	0.0108		mg/Kg-dry	1	09/02/15 01:47 PM
Chrysene	0.316	0.00538	0.0108		mg/Kg-dry	1	09/02/15 01:47 PM
Dibenz[a,h]anthracene	0.0718	0.00538	0.0108		mg/Kg-dry	1	09/02/15 01:47 PM
Fluoranthene	0.388	0.00538	0.0108		mg/Kg-dry	1	09/02/15 01:47 PM
Fluorene	0.0222	0.00538	0.0108		mg/Kg-dry	1	09/02/15 01:47 PM
Indeno[1,2,3-cd]pyrene	0.258	0.00538	0.0108		mg/Kg-dry	1	09/02/15 01:47 PM
Naphthalene	0.00771	0.00538	0.0108	J	mg/Kg-dry	1	09/02/15 01:47 PM
Phenanthrene	0.0888	0.00538	0.0108		mg/Kg-dry	1	09/02/15 01:47 PM
Pyrene	0.388	0.00538	0.0108		mg/Kg-dry	1	09/02/15 01:47 PM
Surr: 2-Fluorobiphenyl	88.5	0	43-125		%REC	1	09/02/15 01:47 PM
Surr: 4-Terphenyl-d14	87.9	0	32-125		%REC	1	09/02/15 01:47 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	9.11	0	0		WT%	1	08/28/15 09:16 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *09-Sep-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB28-013
Project:	City of Galveston Incinerator	**Lab ID:**	1508252-02
Project No:	60420789.41012083.0103	**Collection Date:**	08/25/15 08:40 AM
Lab Order:	1508252	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	0.0201	0.0184	0.0460	J	mg/Kg-dry	1	09/03/15 02:12 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	2.49	0.586	1.17		mg/Kg-dry	5	09/03/15 12:25 PM
Barium	374	0.586	2.35		mg/Kg-dry	5	09/03/15 12:25 PM
Cadmium	0.140	0.117	0.352	J	mg/Kg-dry	5	09/03/15 12:25 PM
Chromium	11.8	0.586	2.35		mg/Kg-dry	5	09/03/15 12:25 PM
Lead	233	0.117	0.352		mg/Kg-dry	5	09/03/15 12:25 PM
Selenium	0.677	0.176	0.586		mg/Kg-dry	5	09/03/15 12:25 PM
Silver	<0.117	0.117	0.235		mg/Kg-dry	5	09/03/15 12:25 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.00640	0.00640	0.0128		mg/Kg-dry	1	09/02/15 11:45 AM
Acenaphthylene	0.0101	0.00640	0.0128	J	mg/Kg-dry	1	09/02/15 11:45 AM
Anthracene	0.0279	0.00640	0.0128		mg/Kg-dry	1	09/02/15 11:45 AM
Benzo[a]anthracene	0.111	0.00640	0.0128		mg/Kg-dry	1	09/02/15 11:45 AM
Benzo[a]pyrene	0.110	0.00640	0.0128		mg/Kg-dry	1	09/02/15 11:45 AM
Benzo[b]fluoranthene	0.119	0.00640	0.0128		mg/Kg-dry	1	09/02/15 11:45 AM
Benzo[g,h,i]perylene	0.0869	0.00640	0.0128		mg/Kg-dry	1	09/02/15 11:45 AM
Benzo[k]fluoranthene	0.0528	0.00640	0.0128		mg/Kg-dry	1	09/02/15 11:45 AM
Chrysene	0.128	0.00640	0.0128		mg/Kg-dry	1	09/02/15 11:45 AM
Dibenz[a,h]anthracene	0.0201	0.00640	0.0128		mg/Kg-dry	1	09/02/15 11:45 AM
Fluoranthene	0.232	0.00640	0.0128		mg/Kg-dry	1	09/02/15 11:45 AM
Fluorene	0.00783	0.00640	0.0128	J	mg/Kg-dry	1	09/02/15 11:45 AM
Indeno[1,2,3-cd]pyrene	0.0694	0.00640	0.0128		mg/Kg-dry	1	09/02/15 11:45 AM
Naphthalene	<0.00640	0.00640	0.0128		mg/Kg-dry	1	09/02/15 11:45 AM
Phenanthrene	0.100	0.00640	0.0128		mg/Kg-dry	1	09/02/15 11:45 AM
Pyrene	0.186	0.00640	0.0128		mg/Kg-dry	1	09/02/15 11:45 AM
Surr: 2-Fluorobiphenyl	91.9	0	43-125		%REC	1	09/02/15 11:45 AM
Surr: 4-Terphenyl-d14	93.9	0	32-125		%REC	1	09/02/15 11:45 AM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	22.5	0	0		WT%	1	08/28/15 09:16 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *09-Sep-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB30-010
Project:	City of Galveston Incinerator	**Lab ID:**	1508252-03
Project No:	60420789.41012083.0103	**Collection Date:**	08/25/15 09:35 AM
Lab Order:	1508252	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	1.03	0.112	0.281		mg/Kg-dry	5	09/03/15 03:14 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	20.0	0.630	1.26		mg/Kg-dry	5	09/03/15 12:40 PM
Barium	1170	12.6	50.4		mg/Kg-dry	100	09/03/15 04:44 PM
Cadmium	3.15	0.126	0.378		mg/Kg-dry	5	09/03/15 12:40 PM
Chromium	49.7	0.630	2.52		mg/Kg-dry	5	09/03/15 12:40 PM
Lead	818	2.52	7.56		mg/Kg-dry	100	09/03/15 04:44 PM
Selenium	1.40	0.189	0.630		mg/Kg-dry	5	09/03/15 12:40 PM
Silver	2.89	0.126	0.252		mg/Kg-dry	5	09/03/15 12:40 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.135	0.0728	0.146	J	mg/Kg-dry	10	09/02/15 08:31 PM
Acenaphthylene	0.334	0.0728	0.146		mg/Kg-dry	10	09/02/15 08:31 PM
Anthracene	0.556	0.0728	0.146		mg/Kg-dry	10	09/02/15 08:31 PM
Benzo[a]anthracene	2.22	0.0728	0.146		mg/Kg-dry	10	09/02/15 08:31 PM
Benzo[a]pyrene	2.59	0.0728	0.146		mg/Kg-dry	10	09/02/15 08:31 PM
Benzo[b]fluoranthene	2.92	0.0728	0.146		mg/Kg-dry	10	09/02/15 08:31 PM
Benzo[g,h,i]perylene	2.32	0.0728	0.146		mg/Kg-dry	10	09/02/15 08:31 PM
Benzo[k]fluoranthene	1.32	0.0728	0.146		mg/Kg-dry	10	09/02/15 08:31 PM
Chrysene	2.74	0.0728	0.146		mg/Kg-dry	10	09/02/15 08:31 PM
Dibenz[a,h]anthracene	0.495	0.0728	0.146		mg/Kg-dry	10	09/02/15 08:31 PM
Fluoranthene	4.88	0.0728	0.146		mg/Kg-dry	10	09/02/15 08:31 PM
Fluorene	0.142	0.0728	0.146	J	mg/Kg-dry	10	09/02/15 08:31 PM
Indeno[1,2,3-cd]pyrene	1.92	0.0728	0.146		mg/Kg-dry	10	09/02/15 08:31 PM
Naphthalene	<0.0728	0.0728	0.146		mg/Kg-dry	10	09/02/15 08:31 PM
Phenanthrene	1.89	0.0728	0.146		mg/Kg-dry	10	09/02/15 08:31 PM
Pyrene	4.09	0.0728	0.146		mg/Kg-dry	10	09/02/15 08:31 PM
Surr: 2-Fluorobiphenyl	77.3	0	43-125		%REC	10	09/02/15 08:31 PM
Surr: 4-Terphenyl-d14	78.5	0	32-125		%REC	10	09/02/15 08:31 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	32.7	0	0		WT%	1	08/28/15 09:16 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *09-Sep-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB38-010
Project:	City of Galveston Incinerator	**Lab ID:**	1508252-04
Project No:	60420789.41012083.0103	**Collection Date:**	08/25/15 09:00 AM
Lab Order:	1508252	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	0.0292	0.0170	0.0426	J	mg/Kg-dry	1	09/03/15 02:28 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	3.81	0.554	1.11		mg/Kg-dry	5	09/03/15 12:42 PM
Barium	344	0.554	2.22		mg/Kg-dry	5	09/03/15 12:42 PM
Cadmium	0.235	0.111	0.332	J	mg/Kg-dry	5	09/03/15 12:42 PM
Chromium	12.6	0.554	2.22		mg/Kg-dry	5	09/03/15 12:42 PM
Lead	119	0.111	0.332		mg/Kg-dry	5	09/03/15 12:42 PM
Selenium	0.605	0.166	0.554		mg/Kg-dry	5	09/03/15 12:42 PM
Silver	<0.111	0.111	0.222		mg/Kg-dry	5	09/03/15 12:42 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0299	0.0299	0.0597		mg/Kg-dry	5	09/02/15 07:11 PM
Acenaphthylene	0.0314	0.0299	0.0597	J	mg/Kg-dry	5	09/02/15 07:11 PM
Anthracene	0.0783	0.0299	0.0597		mg/Kg-dry	5	09/02/15 07:11 PM
Benzo[a]anthracene	0.342	0.0299	0.0597		mg/Kg-dry	5	09/02/15 07:11 PM
Benzo[a]pyrene	0.281	0.0299	0.0597		mg/Kg-dry	5	09/02/15 07:11 PM
Benzo[b]fluoranthene	0.324	0.0299	0.0597		mg/Kg-dry	5	09/02/15 07:11 PM
Benzo[g,h,i]perylene	0.213	0.0299	0.0597		mg/Kg-dry	5	09/02/15 07:11 PM
Benzo[k]fluoranthene	0.153	0.0299	0.0597		mg/Kg-dry	5	09/02/15 07:11 PM
Chrysene	0.368	0.0299	0.0597		mg/Kg-dry	5	09/02/15 07:11 PM
Dibenz[a,h]anthracene	0.0577	0.0299	0.0597	J	mg/Kg-dry	5	09/02/15 07:11 PM
Fluoranthene	0.782	0.0299	0.0597		mg/Kg-dry	5	09/02/15 07:11 PM
Fluorene	<0.0299	0.0299	0.0597		mg/Kg-dry	5	09/02/15 07:11 PM
Indeno[1,2,3-cd]pyrene	0.177	0.0299	0.0597		mg/Kg-dry	5	09/02/15 07:11 PM
Naphthalene	<0.0299	0.0299	0.0597		mg/Kg-dry	5	09/02/15 07:11 PM
Phenanthrene	0.336	0.0299	0.0597		mg/Kg-dry	5	09/02/15 07:11 PM
Pyrene	0.602	0.0299	0.0597		mg/Kg-dry	5	09/02/15 07:11 PM
Surr: 2-Fluorobiphenyl	74.7	0	43-125		%REC	5	09/02/15 07:11 PM
Surr: 4-Terphenyl-d14	84.7	0	32-125		%REC	5	09/02/15 07:11 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	18.7	0	0		WT%	1	08/28/15 09:16 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *09-Sep-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB37-010
Project:	City of Galveston Incinerator	**Lab ID:**	1508252-05
Project No:	60420789.41012083.0103	**Collection Date:**	08/25/15 10:45 AM
Lab Order:	1508252	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	0.274	0.0241	0.0602		mg/Kg-dry	1	09/03/15 02:31 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	8.63	0.710	1.42		mg/Kg-dry	5	09/03/15 12:44 PM
Barium	324	0.710	2.84		mg/Kg-dry	5	09/03/15 12:44 PM
Cadmium	1.73	0.142	0.426		mg/Kg-dry	5	09/03/15 12:44 PM
Chromium	22.9	0.710	2.84		mg/Kg-dry	5	09/03/15 12:44 PM
Lead	1020	2.84	8.52		mg/Kg-dry	100	09/03/15 04:46 PM
Selenium	0.692	0.213	0.710	J	mg/Kg-dry	5	09/03/15 12:44 PM
Silver	0.908	0.142	0.284		mg/Kg-dry	5	09/03/15 12:44 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.666	0.0797	0.159		mg/Kg-dry	10	09/02/15 10:33 PM
Acenaphthylene	2.13	0.0797	0.159		mg/Kg-dry	10	09/02/15 10:33 PM
Anthracene	3.52	0.0797	0.159		mg/Kg-dry	10	09/02/15 10:33 PM
Benzo[a]anthracene	9.96	0.0797	0.159		mg/Kg-dry	10	09/02/15 10:33 PM
Benzo[a]pyrene	9.45	0.0797	0.159		mg/Kg-dry	10	09/02/15 10:33 PM
Benzo[b]fluoranthene	9.42	0.0797	0.159		mg/Kg-dry	10	09/02/15 10:33 PM
Benzo[g,h,i]perylene	6.48	0.0797	0.159		mg/Kg-dry	10	09/02/15 10:33 PM
Benzo[k]fluoranthene	4.53	0.0797	0.159		mg/Kg-dry	10	09/02/15 10:33 PM
Chrysene	9.72	0.0797	0.159		mg/Kg-dry	10	09/02/15 10:33 PM
Dibenz[a,h]anthracene	1.64	0.0797	0.159		mg/Kg-dry	10	09/02/15 10:33 PM
Fluoranthene	21.3	0.0797	0.159		mg/Kg-dry	10	09/02/15 10:33 PM
Fluorene	0.802	0.0797	0.159		mg/Kg-dry	10	09/02/15 10:33 PM
Indeno[1,2,3-cd]pyrene	5.66	0.0797	0.159		mg/Kg-dry	10	09/02/15 10:33 PM
Naphthalene	0.127	0.0797	0.159	J	mg/Kg-dry	10	09/02/15 10:33 PM
Phenanthrene	9.64	0.0797	0.159		mg/Kg-dry	10	09/02/15 10:33 PM
Pyrene	16.9	0.0797	0.159		mg/Kg-dry	10	09/02/15 10:33 PM
Surr: 2-Fluorobiphenyl	63.3	0	43-125		%REC	10	09/02/15 10:33 PM
Surr: 4-Terphenyl-d14	83.3	0	32-125		%REC	10	09/02/15 10:33 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	39.3	0	0		WT%	1	08/28/15 09:16 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *09-Sep-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB37-011
Project:	City of Galveston Incinerator	**Lab ID:**	1508252-06
Project No:	60420789.41012083.0103	**Collection Date:**	08/25/15 10:45 AM
Lab Order:	1508252	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	0.236	0.0255	0.0639		mg/Kg-dry	1	09/03/15 02:33 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	9.80	0.690	1.38		mg/Kg-dry	5	09/03/15 02:08 PM
Barium	289	0.690	2.76		mg/Kg-dry	5	09/03/15 02:08 PM
Cadmium	1.68	0.138	0.414		mg/Kg-dry	5	09/03/15 02:08 PM
Chromium	22.4	0.690	2.76		mg/Kg-dry	5	09/03/15 02:08 PM
Lead	681	2.76	8.28		mg/Kg-dry	100	09/03/15 04:48 PM
Selenium	0.681	0.207	0.690	J	mg/Kg-dry	5	09/03/15 02:08 PM
Silver	1.81	0.138	0.276		mg/Kg-dry	5	09/03/15 02:08 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.682	0.0788	0.158		mg/Kg-dry	10	09/02/15 11:14 PM
Acenaphthylene	1.48	0.0788	0.158		mg/Kg-dry	10	09/02/15 11:14 PM
Anthracene	2.99	0.0788	0.158		mg/Kg-dry	10	09/02/15 11:14 PM
Benzo[a]anthracene	10.3	0.0788	0.158		mg/Kg-dry	10	09/02/15 11:14 PM
Benzo[a]pyrene	9.96	0.0788	0.158		mg/Kg-dry	10	09/02/15 11:14 PM
Benzo[b]fluoranthene	9.96	0.0788	0.158		mg/Kg-dry	10	09/02/15 11:14 PM
Benzo[g,h,i]perylene	6.84	0.0788	0.158		mg/Kg-dry	10	09/02/15 11:14 PM
Benzo[k]fluoranthene	4.74	0.0788	0.158		mg/Kg-dry	10	09/02/15 11:14 PM
Chrysene	10.3	0.0788	0.158		mg/Kg-dry	10	09/02/15 11:14 PM
Dibenz[a,h]anthracene	1.70	0.0788	0.158		mg/Kg-dry	10	09/02/15 11:14 PM
Fluoranthene	21.9	0.0788	0.158		mg/Kg-dry	10	09/02/15 11:14 PM
Fluorene	0.775	0.0788	0.158		mg/Kg-dry	10	09/02/15 11:14 PM
Indeno[1,2,3-cd]pyrene	5.94	0.0788	0.158		mg/Kg-dry	10	09/02/15 11:14 PM
Naphthalene	0.138	0.0788	0.158	J	mg/Kg-dry	10	09/02/15 11:14 PM
Phenanthrene	9.66	0.0788	0.158		mg/Kg-dry	10	09/02/15 11:14 PM
Pyrene	17.7	0.0788	0.158		mg/Kg-dry	10	09/02/15 11:14 PM
Surr: 2-Fluorobiphenyl	66.3	0	43-125		%REC	10	09/02/15 11:14 PM
Surr: 4-Terphenyl-d14	86.7	0	32-125		%REC	10	09/02/15 11:14 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	38.1	0	0		WT%	1	08/28/15 09:16 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *09-Sep-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB34-010
Project:	City of Galveston Incinerator	**Lab ID:**	1508252-07
Project No:	60420789.41012083.0103	**Collection Date:**	08/25/15 11:00 AM
Lab Order:	1508252	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	0.0168	0.0156	0.0391	J	mg/Kg-dry	1	09/03/15 02:35 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	6.19	0.565	1.13		mg/Kg-dry	5	09/03/15 02:10 PM
Barium	70.2	0.565	2.26		mg/Kg-dry	5	09/03/15 02:10 PM
Cadmium	0.116	0.113	0.339	J	mg/Kg-dry	5	09/03/15 02:10 PM
Chromium	6.33	0.565	2.26		mg/Kg-dry	5	09/03/15 02:10 PM
Lead	28.9	0.113	0.339		mg/Kg-dry	5	09/03/15 02:10 PM
Selenium	0.404	0.170	0.565	J	mg/Kg-dry	5	09/03/15 02:10 PM
Silver	<0.113	0.113	0.226		mg/Kg-dry	5	09/03/15 02:10 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.0498	0.0273	0.0546	J	mg/Kg-dry	5	09/02/15 07:51 PM
Acenaphthylene	0.115	0.0273	0.0546		mg/Kg-dry	5	09/02/15 07:51 PM
Anthracene	0.182	0.0273	0.0546		mg/Kg-dry	5	09/02/15 07:51 PM
Benzo[a]anthracene	0.557	0.0273	0.0546		mg/Kg-dry	5	09/02/15 07:51 PM
Benzo[a]pyrene	0.536	0.0273	0.0546		mg/Kg-dry	5	09/02/15 07:51 PM
Benzo[b]fluoranthene	0.565	0.0273	0.0546		mg/Kg-dry	5	09/02/15 07:51 PM
Benzo[g,h,i]perylene	0.392	0.0273	0.0546		mg/Kg-dry	5	09/02/15 07:51 PM
Benzo[k]fluoranthene	0.272	0.0273	0.0546		mg/Kg-dry	5	09/02/15 07:51 PM
Chrysene	0.586	0.0273	0.0546		mg/Kg-dry	5	09/02/15 07:51 PM
Dibenz[a,h]anthracene	0.0988	0.0273	0.0546		mg/Kg-dry	5	09/02/15 07:51 PM
Fluoranthene	1.34	0.0273	0.0546		mg/Kg-dry	5	09/02/15 07:51 PM
Fluorene	0.0549	0.0273	0.0546		mg/Kg-dry	5	09/02/15 07:51 PM
Indeno[1,2,3-cd]pyrene	0.334	0.0273	0.0546		mg/Kg-dry	5	09/02/15 07:51 PM
Naphthalene	<0.0273	0.0273	0.0546		mg/Kg-dry	5	09/02/15 07:51 PM
Phenanthrene	0.704	0.0273	0.0546		mg/Kg-dry	5	09/02/15 07:51 PM
Pyrene	1.05	0.0273	0.0546		mg/Kg-dry	5	09/02/15 07:51 PM
Surr: 2-Fluorobiphenyl	81.6	0	43-125		%REC	5	09/02/15 07:51 PM
Surr: 4-Terphenyl-d14	85.6	0	32-125		%REC	5	09/02/15 07:51 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	13.3	0	0		WT%	1	08/28/15 09:16 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *09-Sep-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB35-010
Project:	City of Galveston Incinerator	**Lab ID:**	1508252-08
Project No:	60420789.41012083.0103	**Collection Date:**	08/25/15 11:50 AM
Lab Order:	1508252	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	0.0805	0.0166	0.0415		mg/Kg-dry	1	09/03/15 02:37 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	4.61	0.552	1.10		mg/Kg-dry	5	09/03/15 02:12 PM
Barium	165	0.552	2.21		mg/Kg-dry	5	09/03/15 02:12 PM
Cadmium	0.365	0.110	0.331		mg/Kg-dry	5	09/03/15 02:12 PM
Chromium	8.89	0.552	2.21		mg/Kg-dry	5	09/03/15 02:12 PM
Lead	67.9	0.110	0.331		mg/Kg-dry	5	09/03/15 02:12 PM
Selenium	0.298	0.166	0.552	J	mg/Kg-dry	5	09/03/15 02:12 PM
Silver	0.161	0.110	0.221	J	mg/Kg-dry	5	09/03/15 02:12 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0573	0.0573	0.115		mg/Kg-dry	10	09/02/15 09:12 PM
Acenaphthylene	0.0652	0.0573	0.115	J	mg/Kg-dry	10	09/02/15 09:12 PM
Anthracene	0.0874	0.0573	0.115	J	mg/Kg-dry	10	09/02/15 09:12 PM
Benzo[a]anthracene	0.222	0.0573	0.115		mg/Kg-dry	10	09/02/15 09:12 PM
Benzo[a]pyrene	0.248	0.0573	0.115		mg/Kg-dry	10	09/02/15 09:12 PM
Benzo[b]fluoranthene	0.270	0.0573	0.115		mg/Kg-dry	10	09/02/15 09:12 PM
Benzo[g,h,i]perylene	0.240	0.0573	0.115		mg/Kg-dry	10	09/02/15 09:12 PM
Benzo[k]fluoranthene	0.131	0.0573	0.115		mg/Kg-dry	10	09/02/15 09:12 PM
Chrysene	0.251	0.0573	0.115		mg/Kg-dry	10	09/02/15 09:12 PM
Dibenz[a,h]anthracene	<0.0573	0.0573	0.115		mg/Kg-dry	10	09/02/15 09:12 PM
Fluoranthene	0.477	0.0573	0.115		mg/Kg-dry	10	09/02/15 09:12 PM
Fluorene	<0.0573	0.0573	0.115		mg/Kg-dry	10	09/02/15 09:12 PM
Indeno[1,2,3-cd]pyrene	0.171	0.0573	0.115		mg/Kg-dry	10	09/02/15 09:12 PM
Naphthalene	<0.0573	0.0573	0.115		mg/Kg-dry	10	09/02/15 09:12 PM
Phenanthrene	0.210	0.0573	0.115		mg/Kg-dry	10	09/02/15 09:12 PM
Pyrene	0.403	0.0573	0.115		mg/Kg-dry	10	09/02/15 09:12 PM
Surr: 2-Fluorobiphenyl	78.5	0	43-125		%REC	10	09/02/15 09:12 PM
Surr: 4-Terphenyl-d14	85.2	0	32-125		%REC	10	09/02/15 09:12 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	16.9	0	0		WT%	1	08/28/15 09:16 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *09-Sep-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB35-015
Project:	City of Galveston Incinerator	**Lab ID:**	1508252-09
Project No:	60420789.41012083.0103	**Collection Date:**	08/25/15 11:55 AM
Lab Order:	1508252	**Matrix:**	EQUIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SCS**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	08/31/15 04:42 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	09/03/15 03:05 PM
Barium	0.00668	0.00300	0.0100	J	mg/L	1	09/03/15 03:05 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	09/03/15 03:05 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	09/03/15 03:05 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	09/03/15 03:05 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	09/03/15 03:05 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	09/03/15 03:05 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0000241	0.0000241	0.0000483		mg/L	1	08/27/15 04:48 PM
Acenaphthylene	<0.0000241	0.0000241	0.0000483		mg/L	1	08/27/15 04:48 PM
Anthracene	<0.0000241	0.0000241	0.0000483		mg/L	1	08/27/15 04:48 PM
Benzo[a]anthracene	<0.0000241	0.0000241	0.0000483		mg/L	1	08/27/15 04:48 PM
Benzo[a]pyrene	<0.0000241	0.0000241	0.0000483		mg/L	1	08/27/15 04:48 PM
Benzo[b]fluoranthene	<0.0000241	0.0000241	0.0000483		mg/L	1	08/27/15 04:48 PM
Benzo[g,h,i]perylene	<0.0000241	0.0000241	0.0000483		mg/L	1	08/27/15 04:48 PM
Benzo[k]fluoranthene	<0.0000241	0.0000241	0.0000483		mg/L	1	08/27/15 04:48 PM
Chrysene	<0.0000241	0.0000241	0.0000483		mg/L	1	08/27/15 04:48 PM
Dibenz[a,h]anthracene	<0.0000241	0.0000241	0.0000483		mg/L	1	08/27/15 04:48 PM
Fluoranthene	<0.0000241	0.0000241	0.0000483		mg/L	1	08/27/15 04:48 PM
Fluorene	<0.0000241	0.0000241	0.0000483		mg/L	1	08/27/15 04:48 PM
Indeno[1,2,3-cd]pyrene	<0.0000241	0.0000241	0.0000483		mg/L	1	08/27/15 04:48 PM
Naphthalene	0.0000809	0.0000241	0.0000483		mg/L	1	08/27/15 04:48 PM
Phenanthrene	<0.0000241	0.0000241	0.0000483		mg/L	1	08/27/15 04:48 PM
Pyrene	<0.0000241	0.0000241	0.0000483		mg/L	1	08/27/15 04:48 PM
Surr: 2-Fluorobiphenyl	66.4	0	48-120		%REC	1	08/27/15 04:48 PM
Surr: 4-Terphenyl-d14	75.5	0	51-135		%REC	1	08/27/15 04:48 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *09-Sep-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB32-010
Project:	City of Galveston Incinerator	**Lab ID:**	1508252-10
Project No:	60420789.41012083.0103	**Collection Date:**	08/25/15 12:20 PM
Lab Order:	1508252	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	0.304	0.0185	0.0462		mg/Kg-dry	1	09/03/15 02:40 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	7.67	0.615	1.23		mg/Kg-dry	5	09/03/15 02:13 PM
Barium	417	0.615	2.46		mg/Kg-dry	5	09/03/15 02:13 PM
Cadmium	3.27	0.123	0.369		mg/Kg-dry	5	09/03/15 02:13 PM
Chromium	46.7	0.615	2.46		mg/Kg-dry	5	09/03/15 02:13 PM
Lead	658	2.46	7.38		mg/Kg-dry	100	09/03/15 04:49 PM
Selenium	0.533	0.185	0.615	J	mg/Kg-dry	5	09/03/15 02:13 PM
Silver	0.929	0.123	0.246		mg/Kg-dry	5	09/03/15 02:13 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0617	0.0617	0.123		mg/Kg-dry	10	09/02/15 09:52 PM
Acenaphthylene	0.131	0.0617	0.123		mg/Kg-dry	10	09/02/15 09:52 PM
Anthracene	0.203	0.0617	0.123		mg/Kg-dry	10	09/02/15 09:52 PM
Benzo[a]anthracene	0.582	0.0617	0.123		mg/Kg-dry	10	09/02/15 09:52 PM
Benzo[a]pyrene	0.619	0.0617	0.123		mg/Kg-dry	10	09/02/15 09:52 PM
Benzo[b]fluoranthene	0.650	0.0617	0.123		mg/Kg-dry	10	09/02/15 09:52 PM
Benzo[g,h,i]perylene	0.566	0.0617	0.123		mg/Kg-dry	10	09/02/15 09:52 PM
Benzo[k]fluoranthene	0.304	0.0617	0.123		mg/Kg-dry	10	09/02/15 09:52 PM
Chrysene	0.642	0.0617	0.123		mg/Kg-dry	10	09/02/15 09:52 PM
Dibenz[a,h]anthracene	0.124	0.0617	0.123		mg/Kg-dry	10	09/02/15 09:52 PM
Fluoranthene	1.16	0.0617	0.123		mg/Kg-dry	10	09/02/15 09:52 PM
Fluorene	<0.0617	0.0617	0.123		mg/Kg-dry	10	09/02/15 09:52 PM
Indeno[1,2,3-cd]pyrene	0.413	0.0617	0.123		mg/Kg-dry	10	09/02/15 09:52 PM
Naphthalene	<0.0617	0.0617	0.123		mg/Kg-dry	10	09/02/15 09:52 PM
Phenanthrene	0.490	0.0617	0.123		mg/Kg-dry	10	09/02/15 09:52 PM
Pyrene	1.02	0.0617	0.123		mg/Kg-dry	10	09/02/15 09:52 PM
Surr: 2-Fluorobiphenyl	70.1	0	43-125		%REC	10	09/02/15 09:52 PM
Surr: 4-Terphenyl-d14	81.8	0	32-125		%REC	10	09/02/15 09:52 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	24.8	0	0		WT%	1	08/28/15 09:16 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *09-Sep-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB33-010
Project:	City of Galveston Incinerator	**Lab ID:**	1508252-11
Project No:	60420789.41012083.0103	**Collection Date:**	08/25/15 01:50 PM
Lab Order:	1508252	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	0.232	0.0202	0.0505		mg/Kg-dry	1	09/03/15 02:42 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	23.1	0.592	1.18		mg/Kg-dry	5	09/03/15 02:15 PM
Barium	335	0.592	2.37		mg/Kg-dry	5	09/03/15 02:15 PM
Cadmium	0.264	0.118	0.355	J	mg/Kg-dry	5	09/03/15 02:15 PM
Chromium	53.2	0.592	2.37		mg/Kg-dry	5	09/03/15 02:15 PM
Lead	387	0.118	0.355		mg/Kg-dry	5	09/03/15 02:15 PM
Selenium	0.290	0.178	0.592	J	mg/Kg-dry	5	09/03/15 02:15 PM
Silver	<0.118	0.118	0.237		mg/Kg-dry	5	09/03/15 02:15 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.00654	0.00646	0.0129	J	mg/Kg-dry	1	09/02/15 11:05 AM
Acenaphthylene	0.0226	0.00646	0.0129		mg/Kg-dry	1	09/02/15 11:05 AM
Anthracene	0.0342	0.00646	0.0129		mg/Kg-dry	1	09/02/15 11:05 AM
Benzo[a]anthracene	0.120	0.00646	0.0129		mg/Kg-dry	1	09/02/15 11:05 AM
Benzo[a]pyrene	0.147	0.00646	0.0129		mg/Kg-dry	1	09/02/15 11:05 AM
Benzo[b]fluoranthene	0.174	0.00646	0.0129		mg/Kg-dry	1	09/02/15 11:05 AM
Benzo[g,h,i]perylene	0.126	0.00646	0.0129		mg/Kg-dry	1	09/02/15 11:05 AM
Benzo[k]fluoranthene	0.0776	0.00646	0.0129		mg/Kg-dry	1	09/02/15 11:05 AM
Chrysene	0.164	0.00646	0.0129		mg/Kg-dry	1	09/02/15 11:05 AM
Dibenz[a,h]anthracene	0.0284	0.00646	0.0129		mg/Kg-dry	1	09/02/15 11:05 AM
Fluoranthene	0.286	0.00646	0.0129		mg/Kg-dry	1	09/02/15 11:05 AM
Fluorene	0.00727	0.00646	0.0129	J	mg/Kg-dry	1	09/02/15 11:05 AM
Indeno[1,2,3-cd]pyrene	0.105	0.00646	0.0129		mg/Kg-dry	1	09/02/15 11:05 AM
Naphthalene	<0.00646	0.00646	0.0129		mg/Kg-dry	1	09/02/15 11:05 AM
Phenanthrene	0.109	0.00646	0.0129		mg/Kg-dry	1	09/02/15 11:05 AM
Pyrene	0.233	0.00646	0.0129		mg/Kg-dry	1	09/02/15 11:05 AM
Surr: 2-Fluorobiphenyl	73.3	0	43-125		%REC	1	09/02/15 11:05 AM
Surr: 4-Terphenyl-d14	86.6	0	32-125		%REC	1	09/02/15 11:05 AM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	25.9	0	0		WT%	1	08/28/15 09:16 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *09-Sep-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB31-010
Project:	City of Galveston Incinerator	**Lab ID:**	1508252-12
Project No:	60420789.41012083.0103	**Collection Date:**	08/25/15 02:05 PM
Lab Order:	1508252	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	2.25	0.116	0.290		mg/Kg-dry	5	09/03/15 03:16 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	6.19	0.732	1.46		mg/Kg-dry	5	09/03/15 02:17 PM
Barium	975	14.6	58.6		mg/Kg-dry	100	09/03/15 04:51 PM
Cadmium	3.35	0.146	0.439		mg/Kg-dry	5	09/03/15 02:17 PM
Chromium	43.5	0.732	2.93		mg/Kg-dry	5	09/03/15 02:17 PM
Lead	718	0.146	0.439		mg/Kg-dry	5	09/03/15 02:17 PM
Selenium	0.893	0.220	0.732		mg/Kg-dry	5	09/03/15 02:17 PM
Silver	2.85	0.146	0.293		mg/Kg-dry	5	09/03/15 02:17 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0363	0.0363	0.0725		mg/Kg-dry	5	09/02/15 05:51 PM
Acenaphthylene	0.118	0.0363	0.0725		mg/Kg-dry	5	09/02/15 05:51 PM
Anthracene	0.142	0.0363	0.0725		mg/Kg-dry	5	09/02/15 05:51 PM
Benzo[a]anthracene	0.406	0.0363	0.0725		mg/Kg-dry	5	09/02/15 05:51 PM
Benzo[a]pyrene	0.474	0.0363	0.0725		mg/Kg-dry	5	09/02/15 05:51 PM
Benzo[b]fluoranthene	0.493	0.0363	0.0725		mg/Kg-dry	5	09/02/15 05:51 PM
Benzo[g,h,i]perylene	0.414	0.0363	0.0725		mg/Kg-dry	5	09/02/15 05:51 PM
Benzo[k]fluoranthene	0.233	0.0363	0.0725		mg/Kg-dry	5	09/02/15 05:51 PM
Chrysene	0.482	0.0363	0.0725		mg/Kg-dry	5	09/02/15 05:51 PM
Dibenz[a,h]anthracene	0.0938	0.0363	0.0725		mg/Kg-dry	5	09/02/15 05:51 PM
Fluoranthene	0.871	0.0363	0.0725		mg/Kg-dry	5	09/02/15 05:51 PM
Fluorene	0.0379	0.0363	0.0725	J	mg/Kg-dry	5	09/02/15 05:51 PM
Indeno[1,2,3-cd]pyrene	0.313	0.0363	0.0725		mg/Kg-dry	5	09/02/15 05:51 PM
Naphthalene	<0.0363	0.0363	0.0725		mg/Kg-dry	5	09/02/15 05:51 PM
Phenanthrene	0.362	0.0363	0.0725		mg/Kg-dry	5	09/02/15 05:51 PM
Pyrene	0.753	0.0363	0.0725		mg/Kg-dry	5	09/02/15 05:51 PM
Surr: 2-Fluorobiphenyl	71.5	0	43-125		%REC	5	09/02/15 05:51 PM
Surr: 4-Terphenyl-d14	75.1	0	32-125		%REC	5	09/02/15 05:51 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	34.3	0	0		WT%	1	08/28/15 09:16 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *09-Sep-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB31-011
Project:	City of Galveston Incinerator	**Lab ID:**	1508252-13
Project No:	60420789.41012083.0103	**Collection Date:**	08/25/15 02:05 PM
Lab Order:	1508252	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	1.94	0.111	0.278		mg/Kg-dry	5	09/03/15 03:18 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	4.82	0.643	1.29		mg/Kg-dry	5	09/03/15 02:19 PM
Barium	717	12.9	51.4		mg/Kg-dry	100	09/03/15 04:53 PM
Cadmium	2.15	0.129	0.386		mg/Kg-dry	5	09/03/15 02:19 PM
Chromium	29.9	0.643	2.57		mg/Kg-dry	5	09/03/15 02:19 PM
Lead	449	0.129	0.386		mg/Kg-dry	5	09/03/15 02:19 PM
Selenium	0.535	0.193	0.643	J	mg/Kg-dry	5	09/03/15 02:19 PM
Silver	1.51	0.129	0.257		mg/Kg-dry	5	09/03/15 02:19 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0384	0.0384	0.0767		mg/Kg-dry	5	09/02/15 06:31 PM
Acenaphthylene	0.140	0.0384	0.0767		mg/Kg-dry	5	09/02/15 06:31 PM
Anthracene	0.160	0.0384	0.0767		mg/Kg-dry	5	09/02/15 06:31 PM
Benzo[a]anthracene	0.364	0.0384	0.0767		mg/Kg-dry	5	09/02/15 06:31 PM
Benzo[a]pyrene	0.444	0.0384	0.0767		mg/Kg-dry	5	09/02/15 06:31 PM
Benzo[b]fluoranthene	0.490	0.0384	0.0767		mg/Kg-dry	5	09/02/15 06:31 PM
Benzo[g,h,i]perylene	0.417	0.0384	0.0767		mg/Kg-dry	5	09/02/15 06:31 PM
Benzo[k]fluoranthene	0.221	0.0384	0.0767		mg/Kg-dry	5	09/02/15 06:31 PM
Chrysene	0.452	0.0384	0.0767		mg/Kg-dry	5	09/02/15 06:31 PM
Dibenz[a,h]anthracene	0.0904	0.0384	0.0767		mg/Kg-dry	5	09/02/15 06:31 PM
Fluoranthene	0.734	0.0384	0.0767		mg/Kg-dry	5	09/02/15 06:31 PM
Fluorene	<0.0384	0.0384	0.0767		mg/Kg-dry	5	09/02/15 06:31 PM
Indeno[1,2,3-cd]pyrene	0.306	0.0384	0.0767		mg/Kg-dry	5	09/02/15 06:31 PM
Naphthalene	<0.0384	0.0384	0.0767		mg/Kg-dry	5	09/02/15 06:31 PM
Phenanthrene	0.256	0.0384	0.0767		mg/Kg-dry	5	09/02/15 06:31 PM
Pyrene	0.657	0.0384	0.0767		mg/Kg-dry	5	09/02/15 06:31 PM
Surr: 2-Fluorobiphenyl	57.8	0	43-125		%REC	5	09/02/15 06:31 PM
Surr: 4-Terphenyl-d14	81.6	0	32-125		%REC	5	09/02/15 06:31 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	35.7	0	0		WT%	1	08/28/15 09:16 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *09-Sep-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB39-010
Project:	City of Galveston Incinerator	**Lab ID:**	1508252-14
Project No:	60420789.41012083.0103	**Collection Date:**	08/25/15 04:45 PM
Lab Order:	1508252	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	0.0489	0.0165	0.0411		mg/Kg-dry	1	09/03/15 02:58 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	2.90	0.573	1.15		mg/Kg-dry	5	09/03/15 02:21 PM
Barium	394	0.573	2.29		mg/Kg-dry	5	09/03/15 02:21 PM
Cadmium	0.361	0.115	0.344		mg/Kg-dry	5	09/03/15 02:21 PM
Chromium	14.9	0.573	2.29		mg/Kg-dry	5	09/03/15 02:21 PM
Lead	112	0.115	0.344		mg/Kg-dry	5	09/03/15 02:21 PM
Selenium	0.368	0.172	0.573	J	mg/Kg-dry	5	09/03/15 02:21 PM
Silver	0.193	0.115	0.229	J	mg/Kg-dry	5	09/03/15 02:21 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.117	0.117	0.233		mg/Kg-dry	20	09/02/15 11:54 PM
Acenaphthylene	0.195	0.117	0.233	J	mg/Kg-dry	20	09/02/15 11:54 PM
Anthracene	0.162	0.117	0.233	J	mg/Kg-dry	20	09/02/15 11:54 PM
Benzo[a]anthracene	0.497	0.117	0.233		mg/Kg-dry	20	09/02/15 11:54 PM
Benzo[a]pyrene	0.610	0.117	0.233		mg/Kg-dry	20	09/02/15 11:54 PM
Benzo[b]fluoranthene	0.686	0.117	0.233		mg/Kg-dry	20	09/02/15 11:54 PM
Benzo[g,h,i]perylene	0.562	0.117	0.233		mg/Kg-dry	20	09/02/15 11:54 PM
Benzo[k]fluoranthene	0.325	0.117	0.233		mg/Kg-dry	20	09/02/15 11:54 PM
Chrysene	0.656	0.117	0.233		mg/Kg-dry	20	09/02/15 11:54 PM
Dibenz[a,h]anthracene	0.127	0.117	0.233	J	mg/Kg-dry	20	09/02/15 11:54 PM
Fluoranthene	1.10	0.117	0.233		mg/Kg-dry	20	09/02/15 11:54 PM
Fluorene	<0.117	0.117	0.233		mg/Kg-dry	20	09/02/15 11:54 PM
Indeno[1,2,3-cd]pyrene	0.446	0.117	0.233		mg/Kg-dry	20	09/02/15 11:54 PM
Naphthalene	<0.117	0.117	0.233		mg/Kg-dry	20	09/02/15 11:54 PM
Phenanthrene	0.410	0.117	0.233		mg/Kg-dry	20	09/02/15 11:54 PM
Pyrene	0.942	0.117	0.233		mg/Kg-dry	20	09/02/15 11:54 PM
Surr: 2-Fluorobiphenyl	85.0	0	43-125		%REC	20	09/02/15 11:54 PM
Surr: 4-Terphenyl-d14	96.5	0	32-125		%REC	20	09/02/15 11:54 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	17.7	0	0		WT%	1	08/28/15 09:16 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *09-Sep-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB29-010
Project:	City of Galveston Incinerator	**Lab ID:**	1508252-15
Project No:	60420789.41012083.0103	**Collection Date:**	08/25/15 05:00 PM
Lab Order:	1508252	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	0.0878	0.0206	0.0516		mg/Kg-dry	1	09/03/15 03:01 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	25.1	0.609	1.22		mg/Kg-dry	5	09/03/15 02:23 PM
Barium	584	0.609	2.43		mg/Kg-dry	5	09/03/15 02:23 PM
Cadmium	5.95	0.122	0.365		mg/Kg-dry	5	09/03/15 02:23 PM
Chromium	33.2	0.609	2.43		mg/Kg-dry	5	09/03/15 02:23 PM
Lead	893	2.43	7.30		mg/Kg-dry	100	09/03/15 04:55 PM
Selenium	1.03	0.183	0.609		mg/Kg-dry	5	09/03/15 02:23 PM
Silver	0.909	0.122	0.243		mg/Kg-dry	5	09/03/15 02:23 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.260	0.0328	0.0656		mg/Kg-dry	5	09/02/15 05:10 PM
Acenaphthylene	0.0664	0.0328	0.0656		mg/Kg-dry	5	09/02/15 05:10 PM
Anthracene	1.21	0.0328	0.0656		mg/Kg-dry	5	09/02/15 05:10 PM
Benzo[a]anthracene	4.24	0.0328	0.0656		mg/Kg-dry	5	09/02/15 05:10 PM
Benzo[a]pyrene	3.33	0.0328	0.0656		mg/Kg-dry	5	09/02/15 05:10 PM
Benzo[b]fluoranthene	3.47	0.0328	0.0656		mg/Kg-dry	5	09/02/15 05:10 PM
Benzo[g,h,i]perylene	2.18	0.0328	0.0656		mg/Kg-dry	5	09/02/15 05:10 PM
Benzo[k]fluoranthene	1.66	0.0328	0.0656		mg/Kg-dry	5	09/02/15 05:10 PM
Chrysene	4.14	0.0328	0.0656		mg/Kg-dry	5	09/02/15 05:10 PM
Dibenz[a,h]anthracene	0.593	0.0328	0.0656		mg/Kg-dry	5	09/02/15 05:10 PM
Fluoranthene	9.39	0.0328	0.0656		mg/Kg-dry	5	09/02/15 05:10 PM
Fluorene	0.262	0.0328	0.0656		mg/Kg-dry	5	09/02/15 05:10 PM
Indeno[1,2,3-cd]pyrene	1.95	0.0328	0.0656		mg/Kg-dry	5	09/02/15 05:10 PM
Naphthalene	<0.0328	0.0328	0.0656		mg/Kg-dry	5	09/02/15 05:10 PM
Phenanthrene	4.39	0.0328	0.0656		mg/Kg-dry	5	09/02/15 05:10 PM
Pyrene	7.22	0.0328	0.0656		mg/Kg-dry	5	09/02/15 05:10 PM
Surr: 2-Fluorobiphenyl	63.3	0	43-125		%REC	5	09/02/15 05:10 PM
Surr: 4-Terphenyl-d14	66.4	0	32-125		%REC	5	09/02/15 05:10 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	30.4	0	0		WT%	1	08/28/15 09:16 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *09-Sep-15*

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150804A**

Sample ID	**DCS1-70736**	Batch ID:	**70736**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**CETAC2_HG_150804A**	Analysis Date:	**8/4/2015 10:09:02 AM**	Prep Date:	**8/3/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0196	0.0400	0.02000	0	98.0	60	140	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150820C**

Sample ID	**DCS1-71043**	Batch ID:	**71043**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**CETAC2_HG_150820C**	Analysis Date:	**8/20/2015 3:18:32 PM**	Prep Date:	**8/19/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.000112	0.000200	0.000100	0	112	70	130	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150831B**

The QC data in batch 71233 applies to the following samples: 1508252-09A

Sample ID	**MB-71233**	Batch ID:	**71233**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**CETAC2_HG_150831B**	Analysis Date:	**8/31/2015 4:24:23 PM**	Prep Date:	**8/28/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0000800	0.000200								

Sample ID	**LCS-71233**	Batch ID:	**71233**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**CETAC2_HG_150831B**	Analysis Date:	**8/31/2015 4:26:39 PM**	Prep Date:	**8/28/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00194	0.000200	0.00200	0	97.0	85	115			

Sample ID	**LCSD-71233**	Batch ID:	**71233**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**CETAC2_HG_150831B**	Analysis Date:	**8/31/2015 4:28:55 PM**	Prep Date:	**8/28/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00190	0.000200	0.00200	0	95.0	85	115	2.08	15	

Sample ID	**1508207-01B SD**	Batch ID:	**71233**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**SD**	Run ID:	**CETAC2_HG_150831B**	Analysis Date:	**8/31/2015 4:33:29 PM**	Prep Date:	**8/28/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.000400	0.00100	0	0				0	10	

Sample ID	**1508207-01B PDS**	Batch ID:	**71233**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**PDS**	Run ID:	**CETAC2_HG_150831B**	Analysis Date:	**8/31/2015 4:35:44 PM**	Prep Date:	**8/28/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00260	0.000200	0.00250	0	104	85	115			

Sample ID	**1508207-01B MS**	Batch ID:	**71233**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**CETAC2_HG_150831B**	Analysis Date:	**8/31/2015 4:37:59 PM**	Prep Date:	**8/28/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00186	0.000200	0.00200	0	93.0	80	120			

Sample ID	**1508207-01B MSD**	Batch ID:	**71233**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**CETAC2_HG_150831B**	Analysis Date:	**8/31/2015 4:40:15 PM**	Prep Date:	**8/28/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00215	0.000200	0.00200	0	108	80	120	14.5	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_150831B

Sample ID	**ICV-150831**	Batch ID:	**R81484**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**CETAC2_HG_150831B**	Analysis Date:	**8/31/2015 4:19:49 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00420	0.000200	0.00400	0	105	90	110			

Sample ID	**CCV1-150831**	Batch ID:	**R81484**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150831B**	Analysis Date:	**8/31/2015 5:02:57 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00212	0.000200	0.00200	0	106	90	110			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150903B**

The QC data in batch 71287 applies to the following samples: 1508252-01A, 1508252-02A, 1508252-03A, 1508252-04A, 1508252-05A, 1508252-06A, 1508252-07A, 1508252-08A, 1508252-10A, 1508252-11A, 1508252-12A, 1508252-13A, 1508252-14A, 1508252-15A

Sample ID	**MB-71287**	Batch ID:	**71287**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**CETAC2_HG_150903B**	Analysis Date:	**9/3/2015 2:06:09 PM**	Prep Date:	**9/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0160	0.0400								

Sample ID	**LCS-71287**	Batch ID:	**71287**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**CETAC2_HG_150903B**	Analysis Date:	**9/3/2015 2:08:25 PM**	Prep Date:	**9/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.207	0.0400	0.2000	0	104	85	115			

Sample ID	**LCSD-71287**	Batch ID:	**71287**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**LCSD**	Run ID:	**CETAC2_HG_150903B**	Analysis Date:	**9/3/2015 2:10:42 PM**	Prep Date:	**9/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.202	0.0400	0.2000	0	101	85	115	2.44	25	

Sample ID	**1508252-02A SD**	Batch ID:	**71287**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**SD**	Run ID:	**CETAC2_HG_150903B**	Analysis Date:	**9/3/2015 2:15:15 PM**	Prep Date:	**9/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0921	0.230	0	0.02014				0	10	

Sample ID	**1508252-02A PDS**	Batch ID:	**71287**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**PDS**	Run ID:	**CETAC2_HG_150903B**	Analysis Date:	**9/3/2015 2:17:30 PM**	Prep Date:	**9/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.275	0.0460	0.2877	0.02014	88.6	85	115			

Sample ID	**1508252-02A MS**	Batch ID:	**71287**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**CETAC2_HG_150903B**	Analysis Date:	**9/3/2015 2:19:45 PM**	Prep Date:	**9/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.263	0.0489	0.2443	0.02014	99.3	80	120			

Sample ID	**1508252-02A MSD**	Batch ID:	**71287**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**CETAC2_HG_150903B**	Analysis Date:	**9/3/2015 2:22:01 PM**	Prep Date:	**9/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.272	0.0495	0.2474	0.02014	102	80	120	3.58	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150903B**

Sample ID	**ICV-150903**	Batch ID:	**R81556**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**CETAC2_HG_150903B**	Analysis Date:	**9/3/2015 9:35:25 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00412	0.0400	0.004000	0	103	90	110			

Sample ID	**CCV5-150903**	Batch ID:	**R81556**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150903B**	Analysis Date:	**9/3/2015 2:01:35 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00204	0.0400	0.002000	0	102	90	110			

Sample ID	**CCV6-150903**	Batch ID:	**R81556**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150903B**	Analysis Date:	**9/3/2015 2:44:43 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00202	0.0400	0.002000	0	101	90	110			

Sample ID	**CCV7-150903**	Batch ID:	**R81556**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150903B**	Analysis Date:	**9/3/2015 3:03:20 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00197	0.0400	0.002000	0	98.5	90	110			

Sample ID	**CCV8-150903**	Batch ID:	**R81556**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_150903B**	Analysis Date:	**9/3/2015 3:20:53 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00202	0.0400	0.002000	0	101	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150709B**

Sample ID	**DCS1-70368**	Batch ID:	**70368**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**ICP-MS4_150709B**	Analysis Date:	**7/9/2015 12:13:00 PM**	Prep Date:	**7/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00104	0.00500	0.00100	0	104	80	120	0	0	
Barium	0.00102	0.0100	0.00100	0	102	80	120	0	0	
Cadmium	0.000955	0.00100	0.00100	0	95.5	80	120	0	0	
Chromium	0.00116	0.00500	0.00100	0	116	80	120	0	0	
Lead	0.00114	0.00100	0.00100	0	114	80	120	0	0	
Selenium	0.000914	0.00500	0.00100	0	91.4	80	120	0	0	
Silver	0.00103	0.00200	0.00100	0	103	80	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150723A**

Sample ID	**DCS-70530**	Batch ID:	**70530**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**ICP-MS4_150723A**	Analysis Date:	**7/23/2015 11:39:00 AM**	Prep Date:	**7/20/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.156	1.00	0.1500	0	104	80	120	0	0	
Barium	0.153	2.00	0.1500	0	102	80	120	0	0	
Cadmium	0.162	0.300	0.1500	0	108	80	120	0	0	
Selenium	0.140	0.500	0.1500	0	93.2	80	120	0	0	
Silver	0.162	0.200	0.1500	0	108	80	120	0	0	

Sample ID	**DCS2-70530**	Batch ID:	**70530**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS2**	Run ID:	**ICP-MS4_150723A**	Analysis Date:	**7/23/2015 11:41:00 AM**	Prep Date:	**7/20/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	1.10	2.00	1.000	0	110	80	120	0	0	
Lead	1.05	0.300	1.000	0	105	80	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150903A**

The QC data in batch 71286 applies to the following samples: 1508252-01A, 1508252-02A, 1508252-03A, 1508252-04A, 1508252-05A, 1508252-06A, 1508252-07A, 1508252-08A, 1508252-10A, 1508252-11A, 1508252-12A, 1508252-13A, 1508252-14A, 1508252-15A

Sample ID **MB-71286** Batch ID: **71286** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS4_150903A** Analysis Date: **9/3/2015 12:17:00 PM** Prep Date: **9/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Lead	<0.100	0.300								
Selenium	<0.150	0.500								
Silver	<0.100	0.200								

Sample ID **LCS-71286** Batch ID: **71286** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS4_150903A** Analysis Date: **9/3/2015 12:19:00 PM** Prep Date: **9/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	53.9	1.00	50.00	0	108	80	120			
Barium	53.5	2.00	50.00	0	107	80	120			
Cadmium	53.4	0.300	50.00	0	107	80	120			
Chromium	55.5	2.00	50.00	0	111	80	120			
Lead	53.4	0.300	50.00	0	107	80	120			
Selenium	52.9	0.500	50.00	0	106	80	120			
Silver	51.7	0.200	50.00	0	103	80	120			

Sample ID **LCSD-71286** Batch ID: **71286** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS4_150903A** Analysis Date: **9/3/2015 12:21:00 PM** Prep Date: **9/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	53.5	1.00	50.00	0	107	80	120	0.795	20	
Barium	52.5	2.00	50.00	0	105	80	120	1.92	20	
Cadmium	52.3	0.300	50.00	0	105	80	120	2.24	20	
Chromium	54.1	2.00	50.00	0	108	80	120	2.53	20	
Lead	52.9	0.300	50.00	0	106	80	120	0.963	20	
Selenium	53.3	0.500	50.00	0	107	80	120	0.727	20	
Silver	51.1	0.200	50.00	0	102	80	120	1.11	20	

Sample ID **1508252-02A SD** Batch ID: **71286** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS4_150903A** Analysis Date: **9/3/2015 12:27:00 PM** Prep Date: **9/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<2.93	5.86	0	2.491				0	10	
Barium	359	11.7	0	374.3				4.21	10	
Cadmium	<0.586	1.76	0	0.1398				0	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150903A**

Sample ID **1508252-02A SD** Batch ID: **71286** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS4_150903A** Analysis Date: **9/3/2015 12:27:00 PM** Prep Date: **9/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	11.6	11.7	0	11.79				1.78	10	
Lead	227	1.76	0	233.2				2.64	10	
Selenium	<0.880	2.93	0	0.6772				0	10	
Silver	<0.586	1.17	0	0				0	10	

Sample ID **1508252-02A PDS** Batch ID: **71286** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **ICP-MS4_150903A** Analysis Date: **9/3/2015 12:53:00 PM** Prep Date: **9/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	62.4	1.17	58.63	2.491	102	80	120			
Barium	433	2.35	58.63	374.3	99.9	80	120			
Cadmium	59.6	0.352	58.63	0.1398	101	80	120			
Chromium	73.5	2.35	58.63	11.79	105	80	120			
Lead	290	0.352	58.63	233.2	97.5	80	120			
Selenium	60.0	0.586	58.63	0.6772	101	80	120			
Silver	59.8	0.235	58.63	0	102	80	120			

Sample ID **1508252-02A MS** Batch ID: **71286** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **ICP-MS4_150903A** Analysis Date: **9/3/2015 12:54:00 PM** Prep Date: **9/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	57.6	1.06	52.87	2.491	104	80	120			
Barium	435	2.11	52.87	374.3	115	80	120			
Cadmium	55.8	0.317	52.87	0.1398	105	80	120			
Chromium	70.5	2.11	52.87	11.79	111	80	120			
Lead	94.7	0.317	52.87	233.2	-262	80	120			S
Selenium	54.6	0.529	52.87	0.6772	102	80	120			
Silver	53.3	0.211	52.87	0	101	80	120			

Sample ID **1508252-02A MSD** Batch ID: **71286** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **ICP-MS4_150903A** Analysis Date: **9/3/2015 12:56:00 PM** Prep Date: **9/2/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	57.5	1.11	55.60	2.491	99.0	80	120	0.131	20	
Barium	462	2.22	55.60	374.3	157	80	120	6.00	20	S
Cadmium	59.3	0.334	55.60	0.1398	106	80	120	6.10	20	
Chromium	72.4	2.22	55.60	11.79	109	80	120	2.76	20	
Lead	97.1	0.334	55.60	233.2	-245	80	120	2.42	20	S
Selenium	56.2	0.556	55.60	0.6772	99.9	80	120	3.01	20	
Silver	57.1	0.222	55.60	0	103	80	120	6.81	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150903A**

Sample ID	**ICV-150903**	Batch ID:	**R81553**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**ICP-MS4_150903A**	Analysis Date:	**9/3/2015 11:59:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0994	0.00500	0.100	0	99.4	90	110			
Barium	0.0983	0.0100	0.100	0	98.3	90	110			
Cadmium	0.0993	0.00100	0.100	0	99.3	90	110			
Chromium	0.103	0.00500	0.100	0	103	90	110			
Lead	0.100	0.00100	0.100	0	100	90	110			
Selenium	0.0982	0.00500	0.100	0	98.2	90	110			
Silver	0.0949	0.00200	0.100	0	94.9	90	110			

Sample ID	**LCVL-150903**	Batch ID:	**R81553**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150903A**	Analysis Date:	**9/3/2015 12:06:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00539	0.00500	0.00500	0	108	70	130			
Barium	0.00530	0.0100	0.00500	0	106	70	130			
Cadmium	0.00106	0.00100	0.00100	0	106	70	130			
Chromium	0.00540	0.00500	0.00500	0	108	70	130			
Lead	0.00106	0.00100	0.00100	0	106	70	130			
Selenium	0.00544	0.00500	0.00500	0	109	70	130			
Silver	0.00194	0.00200	0.00200	0	97.0	70	130			

Sample ID	**CCV1-150903**	Batch ID:	**R81553**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150903A**	Analysis Date:	**9/3/2015 12:58:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.202	0.00500	0.200	0	101	90	110			
Barium	0.205	0.0100	0.200	0	102	90	110			
Cadmium	0.204	0.00100	0.200	0	102	90	110			
Chromium	0.208	0.00500	0.200	0	104	90	110			
Lead	0.207	0.00100	0.200	0	103	90	110			
Selenium	0.200	0.00500	0.200	0	100	90	110			
Silver	0.196	0.00200	0.200	0	97.8	90	110			

Sample ID	**LCVL1-150903**	Batch ID:	**R81553**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150903A**	Analysis Date:	**9/3/2015 1:04:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00521	0.00500	0.00500	0	104	70	130			
Barium	0.00527	0.0100	0.00500	0	105	70	130			
Cadmium	0.00101	0.00100	0.00100	0	101	70	130			
Chromium	0.00535	0.00500	0.00500	0	107	70	130			
Lead	0.00126	0.00100	0.00100	0	126	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150903A**

Sample ID	**LCVL1-150903**	Batch ID:	**R81553**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150903A**	Analysis Date:	**9/3/2015 1:04:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.00514	0.00500	0.00500	0	103	70	130			
Silver	0.00199	0.00200	0.00200	0	99.3	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150903B**

The QC data in batch 71249 applies to the following samples: 1508252-09A

Sample ID **MB-71249** Batch ID: **71249** TestNo: **SW6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS4_150903B** Analysis Date: **9/3/2015 2:49:00 PM** Prep Date: **8/31/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.00200	0.00500								
Barium	<0.00300	0.0100								
Cadmium	<0.000300	0.00100								
Chromium	<0.00200	0.00500								
Lead	<0.000300	0.00100								
Selenium	<0.00200	0.00500								
Silver	<0.00100	0.00200								

Sample ID **LCS-71249** Batch ID: **71249** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS4_150903B** Analysis Date: **9/3/2015 2:51:00 PM** Prep Date: **8/31/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.194	0.00500	0.200	0	97.0	80	120			
Barium	0.204	0.0100	0.200	0	102	80	120			
Cadmium	0.206	0.00100	0.200	0	103	80	120			
Chromium	0.212	0.00500	0.200	0	106	80	120			
Lead	0.207	0.00100	0.200	0	104	80	120			
Selenium	0.194	0.00500	0.200	0	97.0	80	120			
Silver	0.198	0.00200	0.200	0	99.2	80	120			

Sample ID **LCSD-71249** Batch ID: **71249** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS4_150903B** Analysis Date: **9/3/2015 2:53:00 PM** Prep Date: **8/31/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.196	0.00500	0.200	0	98.1	80	120	1.16	15	
Barium	0.205	0.0100	0.200	0	102	80	120	0.293	15	
Cadmium	0.206	0.00100	0.200	0	103	80	120	0.104	15	
Chromium	0.210	0.00500	0.200	0	105	80	120	0.918	15	
Lead	0.203	0.00100	0.200	0	101	80	120	2.05	15	
Selenium	0.194	0.00500	0.200	0	97.0	80	120	0.046	15	
Silver	0.199	0.00200	0.200	0	99.6	80	120	0.358	15	

Sample ID **1508268-01C SD** Batch ID: **71249** TestNo: **SW6020A** Units: **mg/L**
SampType: **SD** Run ID: **ICP-MS4_150903B** Analysis Date: **9/3/2015 2:59:00 PM** Prep Date: **8/31/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.0100	0.0250	0	0				0	10	
Cadmium	<0.00150	0.00500	0	0				0	10	
Chromium	<0.0100	0.0250	0	0				0	10	
Lead	0.00682	0.00500	0	0.00607				11.7	10	R

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150903B**

Sample ID	**1508268-01C SD**	Batch ID:	**71249**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**SD**	Run ID:	**ICP-MS4_150903B**	Analysis Date:	**9/3/2015 2:59:00 PM**	Prep Date:	**8/31/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	<0.0100	0.0250	0	0				0	10	
Silver	<0.00500	0.0100	0	0				0	10	

Sample ID	**1508268-01C PDS**	Batch ID:	**71249**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**PDS**	Run ID:	**ICP-MS4_150903B**	Analysis Date:	**9/3/2015 3:18:00 PM**	Prep Date:	**8/31/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.161	0.00500	0.200	0	80.7	80	120			
Cadmium	0.192	0.00100	0.200	0	96.0	80	120			
Chromium	0.199	0.00500	0.200	0	99.5	80	120			
Lead	0.210	0.00100	0.200	0.00607	102	80	120			
Selenium	0.159	0.00500	0.200	0	79.6	80	120			
Silver	0.187	0.00200	0.200	0	93.6	80	120			

Sample ID	**1508268-01C MS**	Batch ID:	**71249**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**ICP-MS4_150903B**	Analysis Date:	**9/3/2015 3:20:00 PM**	Prep Date:	**8/31/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.187	0.00500	0.200	0	93.3	80	120			
Barium	2.47	0.0100	0.200	2.27	102	80	120			
Cadmium	0.197	0.00100	0.200	0	98.3	80	120			
Chromium	0.199	0.00500	0.200	0	99.7	80	120			
Lead	0.215	0.00100	0.200	0.00607	105	80	120			
Selenium	0.186	0.00500	0.200	0	93.2	80	120			
Silver	0.184	0.00200	0.200	0	91.9	80	120			

Sample ID	**1508268-01C MSD**	Batch ID:	**71249**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**ICP-MS4_150903B**	Analysis Date:	**9/3/2015 3:22:00 PM**	Prep Date:	**8/31/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.176	0.00500	0.200	0	88.1	80	120	5.79	15	
Barium	2.45	0.0100	0.200	2.27	90.3	80	120	0.967	15	
Cadmium	0.195	0.00100	0.200	0	97.7	80	120	0.615	15	
Chromium	0.200	0.00500	0.200	0	99.8	80	120	0.053	15	
Lead	0.211	0.00100	0.200	0.00607	102	80	120	2.11	15	
Selenium	0.175	0.00500	0.200	0	87.6	80	120	6.24	15	
Silver	0.185	0.00200	0.200	0	92.7	80	120	0.895	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150903B**

Sample ID	**1508268-01C SD**	Batch ID:	**71249**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**SD**	Run ID:	**ICP-MS4_150903B**	Analysis Date:	**9/3/2015 4:04:00 PM**	Prep Date:	**8/31/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	2.18	5.00	0	2.25				3.37	10	

Sample ID	**1508268-01C PDS**	Batch ID:	**71249**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**PDS**	Run ID:	**ICP-MS4_150903B**	Analysis Date:	**9/3/2015 4:06:00 PM**	Prep Date:	**8/31/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	21.9	1.00	20.0	2.25	98.4	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150903B**

Sample ID	**ICV-150903**	Batch ID:	**R81562**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**ICP-MS4_150903B**	Analysis Date:	**9/3/2015 11:59:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0994	0.00500	0.100	0	99.4	90	110			
Barium	0.0983	0.0100	0.100	0	98.3	90	110			
Cadmium	0.0993	0.00100	0.100	0	99.3	90	110			
Chromium	0.103	0.00500	0.100	0	103	90	110			
Lead	0.100	0.00100	0.100	0	100	90	110			
Selenium	0.0982	0.00500	0.100	0	98.2	90	110			
Silver	0.0949	0.00200	0.100	0	94.9	90	110			

Sample ID	**LCVL-150903**	Batch ID:	**R81562**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150903B**	Analysis Date:	**9/3/2015 12:06:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00539	0.00500	0.00500	0	108	70	130			
Barium	0.00530	0.0100	0.00500	0	106	70	130			
Cadmium	0.00106	0.00100	0.00100	0	106	70	130			
Chromium	0.00540	0.00500	0.00500	0	108	70	130			
Lead	0.00106	0.00100	0.00100	0	106	70	130			
Selenium	0.00544	0.00500	0.00500	0	109	70	130			
Silver	0.00194	0.00200	0.00200	0	97.0	70	130			

Sample ID	**CCV3-150903**	Batch ID:	**R81562**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150903B**	Analysis Date:	**9/3/2015 1:52:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.201	0.00500	0.200	0	100	90	110			
Barium	0.203	0.0100	0.200	0	101	90	110			
Cadmium	0.204	0.00100	0.200	0	102	90	110			
Chromium	0.207	0.00500	0.200	0	103	90	110			
Lead	0.202	0.00100	0.200	0	101	90	110			
Selenium	0.200	0.00500	0.200	0	99.8	90	110			
Silver	0.195	0.00200	0.200	0	97.4	90	110			

Sample ID	**LCVL3-150903**	Batch ID:	**R81562**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150903B**	Analysis Date:	**9/3/2015 1:56:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00480	0.00500	0.00500	0	95.9	70	130			
Barium	0.00526	0.0100	0.00500	0	105	70	130			
Cadmium	0.00104	0.00100	0.00100	0	104	70	130			
Chromium	0.00530	0.00500	0.00500	0	106	70	130			
Lead	0.00108	0.00100	0.00100	0	108	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150903B**

Sample ID **LCVL3-150903** Batch ID: **R81562** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150903B** Analysis Date: **9/3/2015 1:56:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.00476	0.00500	0.00500	0	95.1	70	130			
Silver	0.00202	0.00200	0.00200	0	101	70	130			

Sample ID **CCV4-150903** Batch ID: **R81562** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150903B** Analysis Date: **9/3/2015 2:25:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.194	0.00500	0.200	0	97.1	90	110			
Barium	0.201	0.0100	0.200	0	100	90	110			
Cadmium	0.199	0.00100	0.200	0	99.7	90	110			
Chromium	0.206	0.00500	0.200	0	103	90	110			
Lead	0.204	0.00100	0.200	0	102	90	110			
Selenium	0.193	0.00500	0.200	0	96.6	90	110			
Silver	0.192	0.00200	0.200	0	96.1	90	110			

Sample ID **LCVL4-150903** Batch ID: **R81562** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150903B** Analysis Date: **9/3/2015 2:44:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00478	0.00500	0.00500	0	95.6	70	130			
Barium	0.00515	0.0100	0.00500	0	103	70	130			
Cadmium	0.000947	0.00100	0.00100	0	94.7	70	130			
Chromium	0.00539	0.00500	0.00500	0	108	70	130			
Lead	0.00113	0.00100	0.00100	0	113	70	130			
Selenium	0.00467	0.00500	0.00500	0	93.5	70	130			
Silver	0.00190	0.00200	0.00200	0	95.2	70	130			

Sample ID **CCV5-150903** Batch ID: **R81562** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150903B** Analysis Date: **9/3/2015 3:38:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.191	0.00500	0.200	0	95.6	90	110			
Barium	0.201	0.0100	0.200	0	101	90	110			
Cadmium	0.199	0.00100	0.200	0	99.5	90	110			
Chromium	0.205	0.00500	0.200	0	102	90	110			
Lead	0.201	0.00100	0.200	0	100	90	110			
Selenium	0.188	0.00500	0.200	0	94.1	90	110			
Silver	0.191	0.00200	0.200	0	95.6	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150903B**

Sample ID	**CCV5-150903**	Batch ID:	**R81562**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150903B**	Analysis Date:	**9/3/2015 3:43:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.186	0.00500	0.200	0	93.2	90	110			
Barium	0.201	0.0100	0.200	0	101	90	110			
Cadmium	0.200	0.00100	0.200	0	100	90	110			
Chromium	0.203	0.00500	0.200	0	102	90	110			
Lead	0.196	0.00100	0.200	0	98.2	90	110			
Selenium	0.189	0.00500	0.200	0	94.5	90	110			
Silver	0.194	0.00200	0.200	0	97.1	90	110			

Sample ID	**LCVL5-150903**	Batch ID:	**R81562**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150903B**	Analysis Date:	**9/3/2015 3:57:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00495	0.00500	0.00500	0	99.0	70	130			
Barium	0.00509	0.0100	0.00500	0	102	70	130			
Cadmium	0.000982	0.00100	0.00100	0	98.2	70	130			
Chromium	0.00523	0.00500	0.00500	0	105	70	130			
Lead	0.00101	0.00100	0.00100	0	101	70	130			
Selenium	0.00524	0.00500	0.00500	0	105	70	130			
Silver	0.00192	0.00200	0.00200	0	96.1	70	130			

Sample ID	**CCV6-150903**	Batch ID:	**R81562**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150903B**	Analysis Date:	**9/3/2015 4:25:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.201	0.0100	0.200	0	100	90	110			
Lead	0.201	0.00100	0.200	0	101	90	110			

Sample ID	**LCVL6-150903**	Batch ID:	**R81562**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150903B**	Analysis Date:	**9/3/2015 4:35:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00520	0.0100	0.00500	0	104	70	130			
Lead	0.000979	0.00100	0.00100	0	97.9	70	130			

Sample ID	**CCV7-150903**	Batch ID:	**R81562**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150903B**	Analysis Date:	**9/3/2015 5:16:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.199	0.0100	0.200	0	99.4	90	110			
Lead	0.196	0.00100	0.200	0	98.2	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150903B**

Sample ID	**LCVL7-150903**	Batch ID:	**R81562**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150903B**	Analysis Date:	**9/3/2015 5:20:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00518	0.0100	0.00500	0	104	70	130			
Lead	0.00101	0.00100	0.00100	0	101	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150804B**

Sample ID	**DCS-70697**	Batch ID:	**70697**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**GCMS6_150804B**	Analysis Date:	**8/4/2015 9:43:00 PM**	Prep Date:	**7/31/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00946	0.0500	0.01000	0	94.6	20	200	0	0	
Acenaphthylene	0.00944	0.0500	0.01000	0	94.4	20	200	0	0	
Anthracene	0.00919	0.0500	0.01000	0	91.9	20	200	0	0	
Benzo[a]anthracene	0.0106	0.0500	0.01000	0	106	20	200	0	0	
Benzo[a]pyrene	0.00980	0.0500	0.01000	0	98.0	20	200	0	0	
Benzo[b]fluoranthene	0.0109	0.0500	0.01000	0	109	20	200	0	0	
Benzo[g,h,i]perylene	0.0115	0.0500	0.01000	0	115	20	200	0	0	
Benzo[k]fluoranthene	0.0110	0.0500	0.01000	0	110	20	200	0	0	
Chrysene	0.0108	0.0500	0.01000	0	108	20	200	0	0	
Dibenz[a,h]anthracene	0.0107	0.0500	0.01000	0	107	20	200	0	0	
Fluoranthene	0.0112	0.0500	0.01000	0	112	20	200	0	0	
Fluorene	0.00976	0.0500	0.01000	0	97.6	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.0111	0.0500	0.01000	0	111	20	200	0	0	
Naphthalene	0.00961	0.0500	0.01000	0	96.1	20	200	0	0	
Phenanthrene	0.0105	0.0500	0.01000	0	104	20	200	0	0	
Pyrene	0.0121	0.0500	0.01000	0	121	20	200	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150818A**

Sample ID	**DCS-71004**	Batch ID:	**71004**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**GCMS6_150818A**	Analysis Date:	**8/18/2015 3:04:00 PM**	Prep Date:	**8/17/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0000270	0.0000500	0.0000400	0	67.4	20	200	0	0	
Acenaphthylene	0.0000282	0.0000500	0.0000400	0	70.4	20	200	0	0	
Anthracene	0.0000293	0.0000500	0.0000400	0	73.2	20	200	0	0	
Benzo[a]anthracene	0.0000326	0.0000500	0.0000400	0	81.6	20	200	0	0	
Benzo[a]pyrene	0.0000302	0.0000500	0.0000400	0	75.4	20	200	0	0	
Benzo[b]fluoranthene	0.0000336	0.0000500	0.0000400	0	83.9	20	200	0	0	
Benzo[g,h,i]perylene	0.0000338	0.0000500	0.0000400	0	84.6	20	200	0	0	
Benzo[k]fluoranthene	0.0000327	0.0000500	0.0000400	0	81.7	20	200	0	0	
Chrysene	0.0000338	0.0000500	0.0000400	0	84.4	20	200	0	0	
Dibenz[a,h]anthracene	0.0000323	0.0000500	0.0000400	0	80.8	20	200	0	0	
Fluoranthene	0.0000341	0.0000500	0.0000400	0	85.3	20	200	0	0	
Fluorene	0.0000300	0.0000500	0.0000400	0	75.1	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.0000328	0.0000500	0.0000400	0	82.0	20	200	0	0	
Naphthalene	0.0000307	0.0000500	0.0000400	0	76.8	20	200	0	0	
Phenanthrene	0.0000324	0.0000500	0.0000400	0	80.9	20	200	0	0	
Pyrene	0.0000369	0.0000500	0.0000400	0	92.2	20	200	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150827A**

The QC data in batch 71169 applies to the following samples: 1508252-09B

Sample ID **LCS-71169** Batch ID: **71169** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS6_150827A** Analysis Date: **8/27/2015 1:57:00 PM** Prep Date: **8/26/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00248	0.0000500	0.00400	0	61.9	47	120			
Acenaphthylene	0.00256	0.0000500	0.00400	0	63.9	50	120			
Anthracene	0.00266	0.0000500	0.00400	0	66.6	54	120			
Benzo[a]anthracene	0.00299	0.0000500	0.00400	0	74.7	56	100			
Benzo[a]pyrene	0.00297	0.0000500	0.00400	0	74.3	53	120			
Benzo[b]fluoranthene	0.00308	0.0000500	0.00400	0	77.1	45	124			
Benzo[g,h,i]perylene	0.00293	0.0000500	0.00400	0	73.3	38	123			
Benzo[k]fluoranthene	0.00306	0.0000500	0.00400	0	76.6	45	124			
Chrysene	0.00291	0.0000500	0.00400	0	72.8	55	120			
Dibenz[a,h]anthracene	0.00287	0.0000500	0.00400	0	71.8	42	127			
Fluoranthene	0.00307	0.0000500	0.00400	0	76.7	54	120			
Fluorene	0.00243	0.0000500	0.00400	0	60.7	50	120			
Indeno[1,2,3-cd]pyrene	0.00297	0.0000500	0.00400	0	74.1	43	125			
Naphthalene	0.00227	0.0000500	0.00400	0	56.7	39	120			
Phenanthrene	0.00275	0.0000500	0.00400	0	68.7	51	120			
Pyrene	0.00317	0.0000500	0.00400	0	79.3	49	128			
Surr: 2-Fluorobiphenyl	4.99		8.000		62.4	48	120			
Surr: 4-Terphenyl-d14	5.69		8.000		71.2	51	135			

Sample ID **LCSD-71169** Batch ID: **71169** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **LCSD** Run ID: **GCMS6_150827A** Analysis Date: **8/27/2015 2:38:00 PM** Prep Date: **8/26/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00217	0.0000500	0.00400	0	54.3	47	120	13.2	20	
Acenaphthylene	0.00221	0.0000500	0.00400	0	55.2	50	120	14.6	20	
Anthracene	0.00229	0.0000500	0.00400	0	57.2	54	120	15.1	20	
Benzo[a]anthracene	0.00250	0.0000500	0.00400	0	62.5	56	100	17.8	20	
Benzo[a]pyrene	0.00248	0.0000500	0.00400	0	62.1	53	120	17.9	20	
Benzo[b]fluoranthene	0.00257	0.0000500	0.00400	0	64.4	45	124	18.0	20	
Benzo[g,h,i]perylene	0.00247	0.0000500	0.00400	0	61.7	38	123	17.2	20	
Benzo[k]fluoranthene	0.00258	0.0000500	0.00400	0	64.5	45	124	17.1	20	
Chrysene	0.00244	0.0000500	0.00400	0	60.9	55	120	17.7	20	
Dibenz[a,h]anthracene	0.00240	0.0000500	0.00400	0	60.1	42	127	17.8	20	
Fluoranthene	0.00270	0.0000500	0.00400	0	67.5	54	120	12.7	20	
Fluorene	0.00216	0.0000500	0.00400	0	54.0	50	120	11.8	20	
Indeno[1,2,3-cd]pyrene	0.00249	0.0000500	0.00400	0	62.3	43	125	17.4	20	
Naphthalene	0.00189	0.0000500	0.00400	0	47.1	39	120	18.4	20	
Phenanthrene	0.00239	0.0000500	0.00400	0	59.7	51	120	14.0	20	
Pyrene	0.00283	0.0000500	0.00400	0	70.7	49	128	11.5	20	
Surr: 2-Fluorobiphenyl	4.19		8.000		52.4	48	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150827A**

Sample ID	**LCSD-71169**	Batch ID:	**71169**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**GCMS6_150827A**	Analysis Date:	**8/27/2015 2:38:00 PM**	Prep Date:	**8/26/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	4.90		8.000		61.2	51	135	0	0	

Sample ID	**MB-71169**	Batch ID:	**71169**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**GCMS6_150827A**	Analysis Date:	**8/27/2015 3:18:00 PM**	Prep Date:	**8/26/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.0000250	0.0000500								
Acenaphthylene	<0.0000250	0.0000500								
Anthracene	<0.0000250	0.0000500								
Benzo[a]anthracene	0.0000287	0.0000500								
Benzo[a]pyrene	<0.0000250	0.0000500								
Benzo[b]fluoranthene	0.0000281	0.0000500								
Benzo[g,h,i]perylene	<0.0000250	0.0000500								
Benzo[k]fluoranthene	<0.0000250	0.0000500								
Chrysene	0.0000317	0.0000500								
Dibenz[a,h]anthracene	<0.0000250	0.0000500								
Fluoranthene	<0.0000250	0.0000500								
Fluorene	<0.0000250	0.0000500								
Indeno[1,2,3-cd]pyrene	<0.0000250	0.0000500								
Naphthalene	<0.0000250	0.0000500								
Phenanthrene	<0.0000250	0.0000500								
Pyrene	<0.0000250	0.0000500								
Surr: 2-Fluorobiphenyl	4.47		8.000		55.8	48	120			
Surr: 4-Terphenyl-d14	5.17		8.000		64.6	51	135			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150827A**

Sample ID	**ICV-150827**	Batch ID:	**R81447**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**GCMS6_150827A**	Analysis Date:	**8/27/2015 12:55:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.94	0.0000500	2.00	0	97.1	80	120			
Acenaphthylene	1.99	0.0000500	2.00	0	99.5	80	120			
Anthracene	1.85	0.0000500	2.00	0	92.7	80	120			
Benzo[a]anthracene	2.01	0.0000500	2.00	0	100	80	120			
Benzo[a]pyrene	1.98	0.0000500	2.00	0	99.2	80	120			
Benzo[b]fluoranthene	2.06	0.0000500	2.00	0	103	80	120			
Benzo[g,h,i]perylene	1.95	0.0000500	2.00	0	97.6	80	120			
Benzo[k]fluoranthene	2.05	0.0000500	2.00	0	103	80	120			
Chrysene	1.94	0.0000500	2.00	0	97.2	80	120			
Dibenz[a,h]anthracene	1.93	0.0000500	2.00	0	96.6	80	120			
Fluoranthene	2.06	0.0000500	2.00	0	103	80	120			
Fluorene	1.88	0.0000500	2.00	0	94.0	80	120			
Indeno[1,2,3-cd]pyrene	2.00	0.0000500	2.00	0	99.9	80	120			
Naphthalene	1.88	0.0000500	2.00	0	94.2	80	120			
Phenanthrene	1.93	0.0000500	2.00	0	96.5	80	120			
Pyrene	2.13	0.0000500	2.00	0	106	80	120			
Surr: 2-Fluorobiphenyl	1970		2000		98.5	65	120			
Surr: 4-Terphenyl-d14	1950		2000		97.3	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150902A**

The QC data in batch 71213 applies to the following samples: 1508252-01A, 1508252-02A, 1508252-03A, 1508252-04A, 1508252-05A, 1508252-06A, 1508252-07A, 1508252-08A, 1508252-10A, 1508252-11A, 1508252-12A, 1508252-13A, 1508252-14A, 1508252-15A

Sample ID **LCS-71213** Batch ID: **71213** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS6_150902A** Analysis Date: **9/2/2015 9:44:00 AM** Prep Date: **9/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.883	0.0100	1.000	0	88.3	46	125			
Acenaphthylene	0.887	0.0100	1.000	0	88.7	44	125			
Anthracene	0.919	0.0100	1.000	0	91.9	53	125			
Benzo[a]anthracene	0.993	0.0100	1.000	0	99.3	52	125			
Benzo[a]pyrene	0.966	0.0100	1.000	0	96.6	50	125			
Benzo[b]fluoranthene	1.03	0.0100	1.000	0	103	45	125			
Benzo[g,h,i]perylene	0.960	0.0100	1.000	0	96.0	38	126			
Benzo[k]fluoranthene	1.01	0.0100	1.000	0	101	45	125			
Chrysene	0.966	0.0100	1.000	0	96.6	53	125			
Dibenz[a,h]anthracene	0.934	0.0100	1.000	0	93.4	41	125			
Fluoranthene	1.05	0.0100	1.000	0	105	54	125			
Fluorene	0.847	0.0100	1.000	0	84.7	49	125			
Indeno[1,2,3-cd]pyrene	0.971	0.0100	1.000	0	97.1	38	125			
Naphthalene	0.818	0.0100	1.000	0	81.8	40	125			
Phenanthrene	0.941	0.0100	1.000	0	94.1	50	125			
Pyrene	1.10	0.0100	1.000	0	110	46	125			
Surr: 2-Fluorobiphenyl	0.808		1.000		80.8	43	125			
Surr: 4-Terphenyl-d14	0.960		1.000		96.0	32	125			

Sample ID **MB-71213** Batch ID: **71213** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS6_150902A** Analysis Date: **9/2/2015 10:24:00 AM** Prep Date: **9/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100								
Acenaphthylene	<0.00500	0.0100								
Anthracene	<0.00500	0.0100								
Benzo[a]anthracene	<0.00500	0.0100								
Benzo[a]pyrene	<0.00500	0.0100								
Benzo[b]fluoranthene	<0.00500	0.0100								
Benzo[g,h,i]perylene	<0.00500	0.0100								
Benzo[k]fluoranthene	<0.00500	0.0100								
Chrysene	<0.00500	0.0100								
Dibenz[a,h]anthracene	<0.00500	0.0100								
Fluoranthene	<0.00500	0.0100								
Fluorene	<0.00500	0.0100								
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100								
Naphthalene	<0.00500	0.0100								
Phenanthrene	<0.00500	0.0100								
Pyrene	<0.00500	0.0100								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150902A**

Sample ID **MB-71213**	Batch ID: **71213**	TestNo: **SW8270D-LL**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GCMS6_150902A**	Analysis Date: **9/2/2015 10:24:00 AM**	Prep Date: **9/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	0.899		1.000		89.9	43	125			
Surr: 4-Terphenyl-d14	1.00		1.000		100	32	125			

Sample ID **1508252-02AMS**	Batch ID: **71213**	TestNo: **SW8270D-LL**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GCMS6_150902A**	Analysis Date: **9/2/2015 12:26:00 PM**	Prep Date: **9/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.03	0.0129	1.286	0	80.3	46	125			
Acenaphthylene	1.04	0.0129	1.286	0.01012	80.1	44	125			
Anthracene	1.12	0.0129	1.286	0.02793	84.8	53	125			
Benzo[a]anthracene	1.31	0.0129	1.286	0.1113	92.9	52	125			
Benzo[a]pyrene	1.28	0.0129	1.286	0.1097	91.3	50	125			
Benzo[b]fluoranthene	1.33	0.0129	1.286	0.1189	94.5	45	125			
Benzo[g,h,i]perylene	1.31	0.0129	1.286	0.08686	95.0	38	126			
Benzo[k]fluoranthene	1.28	0.0129	1.286	0.05280	95.0	45	125			
Chrysene	1.28	0.0129	1.286	0.1279	90.0	53	125			
Dibenz[a,h]anthracene	1.24	0.0129	1.286	0.02010	95.1	41	125			
Fluoranthene	1.31	0.0129	1.286	0.2323	83.7	54	125			
Fluorene	1.06	0.0129	1.286	0.007827	81.8	49	125			
Indeno[1,2,3-cd]pyrene	1.32	0.0129	1.286	0.06935	96.9	38	125			
Naphthalene	0.880	0.0129	1.286	0	68.4	40	125			
Phenanthrene	1.22	0.0129	1.286	0.1003	87.3	50	125			
Pyrene	1.33	0.0129	1.286	0.1863	88.8	46	125			
Surr: 2-Fluorobiphenyl	0.952		1.286		74.0	43	125			
Surr: 4-Terphenyl-d14	1.06		1.286		82.6	32	125			

Sample ID **1508252-02AMSD**	Batch ID: **71213**	TestNo: **SW8270D-LL**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GCMS6_150902A**	Analysis Date: **9/2/2015 1:06:00 PM**	Prep Date: **9/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.07	0.0128	1.280	0	83.8	46	125	3.75	30	
Acenaphthylene	1.09	0.0128	1.280	0.01012	84.4	44	125	4.64	30	
Anthracene	1.17	0.0128	1.280	0.02793	89.0	53	125	4.24	30	
Benzo[a]anthracene	1.36	0.0128	1.280	0.1113	97.4	52	125	3.89	30	
Benzo[a]pyrene	1.33	0.0128	1.280	0.1097	95.6	50	125	3.77	30	
Benzo[b]fluoranthene	1.37	0.0128	1.280	0.1189	97.8	45	125	2.68	30	
Benzo[g,h,i]perylene	1.37	0.0128	1.280	0.08686	100	38	126	4.66	30	
Benzo[k]fluoranthene	1.34	0.0128	1.280	0.05280	101	45	125	4.91	30	
Chrysene	1.34	0.0128	1.280	0.1279	94.4	53	125	3.85	30	
Dibenz[a,h]anthracene	1.30	0.0128	1.280	0.02010	100	41	125	4.65	30	
Fluoranthene	1.33	0.0128	1.280	0.2323	85.9	54	125	1.78	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150902A**

Sample ID	**1508252-02AMSD**	Batch ID:	**71213**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**GCMS6_150902A**	Analysis Date:	**9/2/2015 1:06:00 PM**	Prep Date:	**9/1/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	1.12	0.0128	1.280	0.007827	86.5	49	125	5.14	30	
Indeno[1,2,3-cd]pyrene	1.37	0.0128	1.280	0.06935	102	38	125	4.40	30	
Naphthalene	0.907	0.0128	1.280	0	70.8	40	125	3.02	30	
Phenanthrene	1.25	0.0128	1.280	0.1003	89.5	50	125	1.88	30	
Pyrene	1.35	0.0128	1.280	0.1863	90.7	46	125	1.44	30	
Surr: 2-Fluorobiphenyl	0.986		1.280		77.0	43	125	0	0	
Surr: 4-Terphenyl-d14	1.07		1.280		83.5	32	125	0	0	

Sample ID	**SB-150902**	Batch ID:	**71213**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**SBLK**	Run ID:	**GCMS6_150902A**	Analysis Date:	**9/2/2015 3:43:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100	0							
Acenaphthylene	<0.00500	0.0100	0							
Anthracene	<0.00500	0.0100	0							
Benzo[a]anthracene	<0.00500	0.0100	0							
Benzo[a]pyrene	<0.00500	0.0100	0							
Benzo[b]fluoranthene	<0.00500	0.0100	0							
Benzo[g,h,i]perylene	<0.00500	0.0100	0							
Benzo[k]fluoranthene	<0.00500	0.0100	0							
Chrysene	<0.00500	0.0100	0							
Dibenz[a,h]anthracene	<0.00500	0.0100	0							
Fluoranthene	<0.00500	0.0100	0							
Fluorene	<0.00500	0.0100	0							
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100	0							
Naphthalene	<0.00500	0.0100	0							
Phenanthrene	<0.00500	0.0100	0							
Pyrene	<0.00500	0.0100	0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_150902A**

Sample ID **ICV-150902** Batch ID: **R81551** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS6_150902A** Analysis Date: **9/2/2015 9:03:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.95	0.0100	2.000	0	97.5	80	120			
Acenaphthylene	1.99	0.0100	2.000	0	99.7	80	120			
Anthracene	1.86	0.0100	2.000	0	93.2	80	120			
Benzo[a]anthracene	2.00	0.0100	2.000	0	100	80	120			
Benzo[a]pyrene	1.97	0.0100	2.000	0	98.6	80	120			
Benzo[b]fluoranthene	2.05	0.0100	2.000	0	102	80	120			
Benzo[g,h,i]perylene	1.93	0.0100	2.000	0	96.7	80	120			
Benzo[k]fluoranthene	2.04	0.0100	2.000	0	102	80	120			
Chrysene	1.96	0.0100	2.000	0	97.8	80	120			
Dibenz[a,h]anthracene	1.90	0.0100	2.000	0	95.0	80	120			
Fluoranthene	2.06	0.0100	2.000	0	103	80	120			
Fluorene	1.87	0.0100	2.000	0	93.7	80	120			
Indeno[1,2,3-cd]pyrene	1.96	0.0100	2.000	0	98.1	80	120			
Naphthalene	1.90	0.0100	2.000	0	94.9	80	120			
Phenanthrene	1.92	0.0100	2.000	0	96.2	80	120			
Pyrene	2.15	0.0100	2.000	0	107	80	120			
Surr: 2-Fluorobiphenyl	2.00		2.000		99.8	65	120			
Surr: 4-Terphenyl-d14	1.96		2.000		98.1	65	120			

Sample ID **ICV2-150902** Batch ID: **R81551** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS6_150902A** Analysis Date: **9/2/2015 3:03:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.97	0.0100	2.000	0	98.5	80	120			
Acenaphthylene	1.98	0.0100	2.000	0	99.1	80	120			
Anthracene	1.85	0.0100	2.000	0	92.6	80	120			
Benzo[a]anthracene	1.99	0.0100	2.000	0	99.3	80	120			
Benzo[a]pyrene	1.97	0.0100	2.000	0	98.5	80	120			
Benzo[b]fluoranthene	2.02	0.0100	2.000	0	101	80	120			
Benzo[g,h,i]perylene	1.94	0.0100	2.000	0	96.8	80	120			
Benzo[k]fluoranthene	2.03	0.0100	2.000	0	101	80	120			
Chrysene	1.95	0.0100	2.000	0	97.4	80	120			
Dibenz[a,h]anthracene	1.91	0.0100	2.000	0	95.5	80	120			
Fluoranthene	2.02	0.0100	2.000	0	101	80	120			
Fluorene	1.98	0.0100	2.000	0	99.1	80	120			
Indeno[1,2,3-cd]pyrene	1.98	0.0100	2.000	0	98.9	80	120			
Naphthalene	1.89	0.0100	2.000	0	94.7	80	120			
Phenanthrene	1.92	0.0100	2.000	0	96.2	80	120			
Pyrene	2.11	0.0100	2.000	0	105	80	120			
Surr: 2-Fluorobiphenyl	1.97		2.000		98.7	65	120			
Surr: 4-Terphenyl-d14	1.95		2.000		97.3	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_150827B**

The QC data in batch 71178 applies to the following samples: 1508252-01A, 1508252-02A, 1508252-03A, 1508252-04A, 1508252-05A, 1508252-06A, 1508252-07A, 1508252-08A, 1508252-10A

Sample ID	**1508252-10A-DUP**	Batch ID:	**71178**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_150827B**	Analysis Date:	**8/28/2015 9:16:00 AM**	Prep Date:	**8/27/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	26.7	0	0	24.76				7.44	30	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_150827C**

The QC data in batch 71210 applies to the following samples: 1508252-11A, 1508252-12A, 1508252-13A, 1508252-14A, 1508252-15A

Sample ID	**1508274-02B-DUP**	Batch ID:	**71210**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_150827C**	Analysis Date:	**8/28/2015 9:16:00 AM**	Prep Date:	**8/27/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	14.9	0	0	16.65				11.0	30	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

DHL Analytical, Inc.

Date: *09-Sep-15*

CLIENT: AECOM
Work Order: 1508252
Project: City of Galveston Incinerator

MQL SUMMARY REPORT

TestNo: SW7471B	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Mercury	0.0160	0.0400

TestNo: SW7470A	MDL	MQL
Analyte	**mg/L**	**mg/L**
Mercury	0.0000800	0.000200

TestNo: SW6020A	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Arsenic	0.500	1.00
Barium	0.500	2.00
Cadmium	0.100	0.300
Chromium	0.500	2.00
Lead	0.100	0.300
Selenium	0.150	0.500
Silver	0.100	0.200

TestNo: SW6020A	MDL	MQL
Analyte	**mg/L**	**mg/L**
Arsenic	0.00200	0.00500
Barium	0.00300	0.0100
Cadmium	0.000300	0.00100
Chromium	0.00200	0.00500
Lead	0.000300	0.00100
Selenium	0.00200	0.00500
Silver	0.00100	0.00200

TestNo: SW8270D-LL	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Acenaphthene	0.00500	0.0100
Acenaphthylene	0.00500	0.0100
Anthracene	0.00500	0.0100
Benzo[a]anthracene	0.00500	0.0100
Benzo[a]pyrene	0.00500	0.0100
Benzo[b]fluoranthene	0.00500	0.0100
Benzo[g,h,i]perylene	0.00500	0.0100
Benzo[k]fluoranthene	0.00500	0.0100
Chrysene	0.00500	0.0100
Dibenz[a,h]anthracene	0.00500	0.0100
Fluoranthene	0.00500	0.0100
Fluorene	0.00500	0.0100
Indeno[1,2,3-cd]pyrene	0.00500	0.0100
Naphthalene	0.00500	0.0100
Phenanthrene	0.00500	0.0100
Pyrene	0.00500	0.0100

TestNo: SW8270D-LL	MDL	MQL
Analyte	**mg/L**	**mg/L**
Acenaphthene	0.0000250	0.0000500
Acenaphthylene	0.0000250	0.0000500
Anthracene	0.0000250	0.0000500
Benzo[a]anthracene	0.0000250	0.0000500
Benzo[a]pyrene	0.0000250	0.0000500
Benzo[b]fluoranthene	0.0000250	0.0000500
Benzo[g,h,i]perylene	0.0000250	0.0000500
Benzo[k]fluoranthene	0.0000250	0.0000500
Chrysene	0.0000250	0.0000500
Dibenz[a,h]anthracene	0.0000250	0.0000500
Fluoranthene	0.0000250	0.0000500
Fluorene	0.0000250	0.0000500
Indeno[1,2,3-cd]pyrene	0.0000250	0.0000500
Naphthalene	0.0000250	0.0000500
Phenanthrene	0.0000250	0.0000500
Pyrene	0.0000250	0.0000500

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

DHL Analytical, Inc.
Laboratory Review Checklist: Reportable Data

Project Name: City of Galveston Incinerator	**Date:** 9/16/2015
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1509067
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	**1)** Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				**R1-01**
		2) Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			**R7-03**
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.
Laboratory Review Checklist (continued): Supporting Data

Project Name: City of Galveston Incinerator | **Date:** 9/16/2015

Reviewer Name: Angie O'Donnell | **Laboratory Work Order:** 1509067

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			**S9-01**
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
- a) Items consistent with NELAC Chapter 5,
- b) dilution factors,
- c) preparation methods,
- d) cleanup methods, and
- e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:
- a) Calculated recovery (%R), and
- b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
- a) LCS spiking amounts,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d) Calculated %Rs and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits

R8 Laboratory analytical duplicate (if applicable) recovery and precision:
- a) The amount of analyte measured in the duplicate,
- b) The calculated RPD, and
- c) The laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-5, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager		09/16/15
Scott Schroeder – Technical Director	Signature	Date

DHL Analytical, Inc. **Date:** *16-Sep-15*

CLIENT: AECOM
Project: City of Galveston Incinerator
Lab Order: 1509067

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis

Exception Report R1-01

The analysis was added and log-in performed on 9/9/2015. One sample was re-prepped and re-analyzed, per the client's request. The percent moisture was performed for this sample in DHL WO# 1508252.

Exception Report R7-03

For Metals Analysis, the recoveries of up to two analytes for the Matrix Spike and Matrix Spike Duplicate (1509025-01 MS/MSD) were below the method control limits. These are flagged accordingly in the QC Summary report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

Exception Report S9-01

For Metals Analysis, the RPD of Selenium for the Serial Dilution (1509025-01 SD) was above the method control limit. This is flagged accordingly in the QC Summary report. This analyte was within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

DHL Analytical, Inc.

Date: *16-Sep-15*

CLIENT: AECOM
Project: City of Galveston Incinerator
Lab Order: 1509067

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1509067-01	INC-SB31-010R		08/25/15 02:05 PM	9/9/2015

DHL Analytical, Inc.

16-Sep-15

Lab Order: 1509067
Client: AECOM
Project: City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1509067-01A	INC-SB31-010R	08/25/15 02:05 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/10/15 08:30 AM	71373
	INC-SB31-010R	08/25/15 02:05 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/10/15 08:30 AM	71373

DHL Analytical, Inc.

16-Sep-15

Lab Order: 1509067
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1509067-01A	INC-SB31-010R	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71373	50	09/14/15 03:15 PM	ICP-MS4_150914B
	INC-SB31-010R	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71373	5	09/14/15 02:01 PM	ICP-MS4_150914B

DHL Analytical, Inc.

Date: *16-Sep-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB31-010R
Project:	City of Galveston Incinerator	**Lab ID:**	1509067-01
Project No:	60420789.41012083.0103	**Collection Date:**	08/25/15 02:05 PM
Lab Order:	1509067	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	6.16	0.732	1.46		mg/Kg-dry	5	09/14/15 02:01 PM
Barium	1170	7.32	29.3		mg/Kg-dry	50	09/14/15 03:15 PM
Cadmium	3.22	0.146	0.439		mg/Kg-dry	5	09/14/15 02:01 PM
Chromium	46.5	0.732	2.93		mg/Kg-dry	5	09/14/15 02:01 PM
Lead	681	0.146	0.439		mg/Kg-dry	5	09/14/15 02:01 PM
Selenium	0.897	0.220	0.732		mg/Kg-dry	5	09/14/15 02:01 PM
Silver	2.43	0.146	0.293		mg/Kg-dry	5	09/14/15 02:01 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *16-Sep-15*

CLIENT: AECOM
Work Order: 1509067
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150723A**

Sample ID	**DCS-70530**	Batch ID:	**70530**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**ICP-MS4_150723A**	Analysis Date:	**7/23/2015 11:39:00 AM**	Prep Date:	**7/20/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.156	1.00	0.1500	0	104	80	120	0	0	
Barium	0.153	2.00	0.1500	0	102	80	120	0	0	
Cadmium	0.162	0.300	0.1500	0	108	80	120	0	0	
Selenium	0.140	0.500	0.1500	0	93.2	80	120	0	0	
Silver	0.162	0.200	0.1500	0	108	80	120	0	0	

Sample ID	**DCS2-70530**	Batch ID:	**70530**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS2**	Run ID:	**ICP-MS4_150723A**	Analysis Date:	**7/23/2015 11:41:00 AM**	Prep Date:	**7/20/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	1.10	2.00	1.000	0	110	80	120	0	0	
Lead	1.05	0.300	1.000	0	105	80	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509067
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150914B**

The QC data in batch 71373 applies to the following samples: 1509067-01A

Sample ID **MB-71373** Batch ID: **71373** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS4_150914B** Analysis Date: **9/14/2015 1:44:00 PM** Prep Date: **9/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Lead	<0.100	0.300								
Selenium	<0.150	0.500								
Silver	<0.100	0.200								

Sample ID **LCS-71373** Batch ID: **71373** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS4_150914B** Analysis Date: **9/14/2015 1:52:00 PM** Prep Date: **9/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	53.0	1.00	50.00	0	106	80	120			
Barium	51.7	2.00	50.00	0	103	80	120			
Cadmium	52.2	0.300	50.00	0	104	80	120			
Chromium	52.8	2.00	50.00	0	106	80	120			
Lead	53.6	0.300	50.00	0	107	80	120			
Selenium	53.6	0.500	50.00	0	107	80	120			
Silver	50.8	0.200	50.00	0	102	80	120			

Sample ID **LCSD-71373** Batch ID: **71373** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS4_150914B** Analysis Date: **9/14/2015 1:54:00 PM** Prep Date: **9/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	53.4	1.00	50.00	0	107	80	120	0.846	20	
Barium	53.1	2.00	50.00	0	106	80	120	2.79	20	
Cadmium	53.8	0.300	50.00	0	108	80	120	3.13	20	
Chromium	53.4	2.00	50.00	0	107	80	120	1.12	20	
Lead	53.4	0.300	50.00	0	107	80	120	0.218	20	
Selenium	52.2	0.500	50.00	0	104	80	120	2.53	20	
Silver	52.2	0.200	50.00	0	104	80	120	2.77	20	

Sample ID **1509025-01A SD** Batch ID: **71373** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS4_150914B** Analysis Date: **9/14/2015 1:59:00 PM** Prep Date: **9/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	17.9	4.38	0	17.67				1.29	10	
Barium	263	8.75	0	260.7				0.804	10	
Cadmium	2.16	1.31	0	2.101				2.67	10	
Chromium	12.3	8.75	0	11.91				3.43	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509067
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150914B**

Sample ID **1509025-01A SD** Batch ID: **71373** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS4_150914B** Analysis Date: **9/14/2015 1:59:00 PM** Prep Date: **9/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	77.8	1.31	0	78.54				0.911	10	
Selenium	1.64	2.19	0	1.337				20.6	10	R
Silver	<0.438	0.875	0	0.4019				0	10	

Sample ID **1509025-01A PDS** Batch ID: **71373** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **ICP-MS4_150914B** Analysis Date: **9/14/2015 2:19:00 PM** Prep Date: **9/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	62.7	0.875	43.77	17.67	103	80	120			
Barium	308	1.75	43.77	260.7	108	80	120			
Cadmium	45.8	0.263	43.77	2.101	99.9	80	120			
Chromium	56.0	1.75	43.77	11.91	101	80	120			
Lead	125	0.263	43.77	78.54	107	80	120			
Selenium	45.8	0.438	43.77	1.337	102	80	120			
Silver	43.1	0.175	43.77	0.4019	97.6	80	120			

Sample ID **1509025-01A MS** Batch ID: **71373** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **ICP-MS4_150914B** Analysis Date: **9/14/2015 2:21:00 PM** Prep Date: **9/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	64.1	0.923	46.16	17.67	101	80	120			
Barium	275	1.85	46.16	260.7	31.6	80	120			S
Cadmium	50.8	0.277	46.16	2.101	105	80	120			
Chromium	57.5	1.85	46.16	11.91	98.9	80	120			
Lead	117	0.277	46.16	78.54	83.7	80	120			
Selenium	48.9	0.462	46.16	1.337	103	80	120			
Silver	47.4	0.185	46.16	0.4019	102	80	120			

Sample ID **1509025-01A MSD** Batch ID: **71373** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **ICP-MS4_150914B** Analysis Date: **9/14/2015 2:22:00 PM** Prep Date: **9/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	62.4	0.899	44.94	17.67	99.5	80	120	2.74	20	
Barium	276	1.80	44.94	260.7	33.5	80	120	0.177	20	S
Cadmium	49.0	0.270	44.94	2.101	104	80	120	3.53	20	
Chromium	56.1	1.80	44.94	11.91	98.4	80	120	2.50	20	
Lead	112	0.270	44.94	78.54	75.2	80	120	4.24	20	S
Selenium	47.0	0.449	44.94	1.337	102	80	120	3.91	20	
Silver	45.8	0.180	44.94	0.4019	101	80	120	3.42	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509067
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150914B**

Sample ID **ICV2-150914** Batch ID: **R81698** TestNo: **SW6020A** Units: **mg/L**
SampType: **ICV** Run ID: **ICP-MS4_150914B** Analysis Date: **9/14/2015 1:32:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.100	0.00500	0.100	0	100	90	110			
Barium	0.0983	0.0100	0.100	0	98.3	90	110			
Cadmium	0.100	0.00100	0.100	0	100	90	110			
Chromium	0.101	0.00500	0.100	0	101	90	110			
Lead	0.101	0.00100	0.100	0	101	90	110			
Selenium	0.0979	0.00500	0.100	0	97.9	90	110			
Silver	0.0945	0.00200	0.100	0	94.5	90	110			

Sample ID **ILCVL2-150914** Batch ID: **R81698** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150914B** Analysis Date: **9/14/2015 1:36:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00539	0.00500	0.00500	0	108	70	130			
Barium	0.00525	0.0100	0.00500	0	105	70	130			
Cadmium	0.00103	0.00100	0.00100	0	103	70	130			
Chromium	0.00536	0.00500	0.00500	0	107	70	130			
Lead	0.00111	0.00100	0.00100	0	111	70	130			
Selenium	0.00586	0.00500	0.00500	0	117	70	130			
Silver	0.00199	0.00200	0.00200	0	99.6	70	130			

Sample ID **CCV1-150914** Batch ID: **R81698** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150914B** Analysis Date: **9/14/2015 2:27:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.203	0.00500	0.200	0	101	90	110			
Barium	0.202	0.0100	0.200	0	101	90	110			
Cadmium	0.206	0.00100	0.200	0	103	90	110			
Chromium	0.203	0.00500	0.200	0	102	90	110			
Lead	0.204	0.00100	0.200	0	102	90	110			
Selenium	0.201	0.00500	0.200	0	101	90	110			
Silver	0.200	0.00200	0.200	0	100	90	110			

Sample ID **LCVL1-150914** Batch ID: **R81698** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150914B** Analysis Date: **9/14/2015 2:34:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00522	0.00500	0.00500	0	104	70	130			
Barium	0.00517	0.0100	0.00500	0	103	70	130			
Cadmium	0.00107	0.00100	0.00100	0	107	70	130			
Chromium	0.00518	0.00500	0.00500	0	104	70	130			
Lead	0.00122	0.00100	0.00100	0	122	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509067
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150914B**

Sample ID	**LCVL1-150914**	Batch ID:	**R81698**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150914B**	Analysis Date:	**9/14/2015 2:34:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.00524	0.00500	0.00500	0	105	70	130			
Silver	0.00195	0.00200	0.00200	0	97.6	70	130			

Sample ID	**CCV2-150914**	Batch ID:	**R81698**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150914B**	Analysis Date:	**9/14/2015 2:50:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.194	0.0100	0.200	0	97.2	90	110			

Sample ID	**LCVL2-150914**	Batch ID:	**R81698**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150914B**	Analysis Date:	**9/14/2015 2:54:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00509	0.0100	0.00500	0	102	70	130			

Sample ID	**CCV3-150914**	Batch ID:	**R81698**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150914B**	Analysis Date:	**9/14/2015 3:35:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.198	0.0100	0.200	0	99.0	90	110			

Sample ID	**LCVL3-150914**	Batch ID:	**R81698**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150914B**	Analysis Date:	**9/14/2015 3:39:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00521	0.0100	0.00500	0	104	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

DHL Analytical, Inc.

Date: *16-Sep-15*

CLIENT: AECOM
Work Order: 1509067
Project: City of Galveston Incinerator

MQL SUMMARY REPORT

TestNo: SW6020A	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Arsenic	0.500	1.00
Barium	0.500	2.00
Cadmium	0.100	0.300
Chromium	0.500	2.00
Lead	0.100	0.300
Selenium	0.150	0.500
Silver	0.100	0.200

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

DHL Analytical, Inc.
Laboratory Review Checklist: Reportable Data

Project Name: City of Galveston Incinerator	**Date:** 10/1/2015
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1509150
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				R7-02
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.
Laboratory Review Checklist (continued): Supporting Data

Project Name: City of Galveston Incinerator	**Date:** 10/1/2015
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1509150

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			S9-01
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with NELAC Chapter 5,
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs).
R4 Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits.
R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits.
R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits
R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-5, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager		10/01/15
Scott Schroeder – Technical Director	Signature	Date

DHL Analytical, Inc. **Date:** *01-Oct-15*

CLIENT: AECOM
Project: City of Galveston Incinerator
Lab Order: 1509150

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7470A/7471B - Mercury Analysis
Method SW8270D-LL - PAH Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 9/17/2015. A total of 9 samples were received and 8 were analyzed. The samples arrived in good condition and were properly packaged. Analysis was added to one sample per the client request on 9/29/2015.

Exception Report R7-02

For PAH Analysis, for water Batch 71517, an MS/MSD was not performed due to insufficient sample volume. An LCS/LCSD was performed as Batch QC.

Exception Report R7-03

For Mercury Analysis, for water Batch 71549, the recoveries of the Matrix Spike and Matrix Spike Duplicate (1509184-04 MS/MSD) were below the method control limits. These are flagged accordingly in the QC Summary report. The associated LCS was within method control limits. No further corrective action was taken.

Exception Report S9-01

For Metals Analysis, for Batches 71509 and 71693, the RPD of Selenium for the Serial Dilution(s) (1509150-02/1509284-08 SD) was above the method control limit. These are flagged accordingly in the QC Summary report. This analyte was within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

DHL Analytical, Inc.

Date: *01-Oct-15*

CLIENT: AECOM
Project: City of Galveston Incinerator
Lab Order: 1509150

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number		Date Collected	Date Recved
1509150-01	~~INC-SB43-010~~	INC-SB51-010		09/16/15 04:00 PM	9/17/2015
1509150-02	~~INC-SB44-013~~	INC-SB52-013	cf 10/6/2015	09/16/15 04:30 PM	9/17/2015
1509150-03	INC-SB46-010			09/16/15 03:00 PM	9/17/2015
1509150-04	INC-SB46-015			09/16/15 03:20 PM	9/17/2015
1509150-05	INC-SB47-010			09/16/15 02:35 PM	9/17/2015
1509150-06	INC-SB47-011			09/16/15 02:35 PM	9/17/2015
1509150-07	INC-SB48-010			09/16/15 02:00 PM	9/17/2015
1509150-08	INC-SB49-010			09/16/15 01:35 PM	9/17/2015
1509150-09	INC-SB50-010			09/16/15 05:00 PM	9/17/2015

Lab Order: 1509150
Client: AECOM
Project: City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1509150-01A	INC-SB43-010	09/16/15 04:00 PM	Soil	SW7471B	Mercury Soil Prep, Total	09/30/15 01:41 PM	71694
	INC-SB43-010	09/16/15 04:00 PM	Soil	D2216	Moisture Preparation	09/29/15 01:30 PM	71656
	INC-SB43-010	09/16/15 04:00 PM	Soil	SW3550C	Soil Prep Sonication: PAH	09/30/15 08:43 AM	71677
	INC-SB43-010	09/16/15 04:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/30/15 01:38 PM	71693
1509150-02A	INC-SB44-013	09/16/15 04:30 PM	Soil	SW7471B	Mercury Soil Prep, Total	09/18/15 09:38 AM	71510
	INC-SB44-013	09/16/15 04:30 PM	Soil	D2216	Moisture Preparation	09/17/15 12:33 PM	71496
	INC-SB44-013	09/16/15 04:30 PM	Soil	SW3550C	Soil Prep Sonication: PAH	09/21/15 08:41 AM	71521
	INC-SB44-013	09/16/15 04:30 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/18/15 09:34 AM	71509
1509150-03A	INC-SB46-010	09/16/15 03:00 PM	Soil	SW7471B	Mercury Soil Prep, Total	09/18/15 09:38 AM	71510
	INC-SB46-010	09/16/15 03:00 PM	Soil	D2216	Moisture Preparation	09/17/15 12:33 PM	71496
	INC-SB46-010	09/16/15 03:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/18/15 09:34 AM	71509
	INC-SB46-010	09/16/15 03:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/18/15 09:34 AM	71509
1509150-04A	INC-SB46-015	09/16/15 03:20 PM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	09/22/15 08:50 AM	71546
	INC-SB46-015	09/16/15 03:20 PM	Equip Blank	SW7470A	Mercury Aq Prep, Total	09/22/15 09:37 AM	71549
1509150-04B	INC-SB46-015	09/16/15 03:20 PM	Equip Blank	SW3510C	Aq Prep Sep Funnel: PAH	09/18/15 02:13 PM	71517
1509150-05A	INC-SB47-010	09/16/15 02:35 PM	Soil	SW7471B	Mercury Soil Prep, Total	09/18/15 09:38 AM	71510
	INC-SB47-010	09/16/15 02:35 PM	Soil	SW7471B	Mercury Soil Prep, Total	09/18/15 09:38 AM	71510
	INC-SB47-010	09/16/15 02:35 PM	Soil	D2216	Moisture Preparation	09/17/15 12:33 PM	71496
	INC-SB47-010	09/16/15 02:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/18/15 09:34 AM	71509
1509150-06A	INC-SB47-011	09/16/15 02:35 PM	Soil	SW7471B	Mercury Soil Prep, Total	09/18/15 09:38 AM	71510
	INC-SB47-011	09/16/15 02:35 PM	Soil	SW7471B	Mercury Soil Prep, Total	09/18/15 09:38 AM	71510
	INC-SB47-011	09/16/15 02:35 PM	Soil	D2216	Moisture Preparation	09/17/15 12:33 PM	71496
	INC-SB47-011	09/16/15 02:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/18/15 09:34 AM	71509
1509150-07A	INC-SB48-010	09/16/15 02:00 PM	Soil	SW7471B	Mercury Soil Prep, Total	09/18/15 09:38 AM	71510
	INC-SB48-010	09/16/15 02:00 PM	Soil	D2216	Moisture Preparation	09/17/15 12:33 PM	71496
	INC-SB48-010	09/16/15 02:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/18/15 09:34 AM	71509
1509150-08A	INC-SB49-010	09/16/15 01:35 PM	Soil	SW7471B	Mercury Soil Prep, Total	09/18/15 09:38 AM	71510
	INC-SB49-010	09/16/15 01:35 PM	Soil	D2216	Moisture Preparation	09/17/15 12:33 PM	71496

Lab Order: 1509150
Client: AECOM
Project: City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1509150-08A	INC-SB49-010	09/16/15 01:35 PM	Soil	SW3550C	Soil Prep Sonication: PAH	09/21/15 08:41 AM	71521
	INC-SB49-010	09/16/15 01:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	09/18/15 09:34 AM	71509

Lab Order: 1509150
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1509150-01A	INC-SB43-010	Soil	SW8270D-LL	PAHs: GC/MS	71677	1	09/30/15 09:35 PM	GCMS6_150930D
	INC-SB43-010	Soil	D2216	Percent Moisture	71656	1	09/30/15 09:15 AM	PMOIST_150929A
	INC-SB43-010	Soil	SW7471B	Total Mercury: Soil/Solid	71694	1	10/01/15 10:02 AM	CETAC2_HG_151001A
	INC-SB43-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71693	5	10/01/15 12:56 PM	ICP-MS4_151001B
1509150-02A	INC-SB44-013	Soil	SW8270D-LL	PAHs: GC/MS	71521	1	09/21/15 03:27 PM	GCMS6_150921B
	INC-SB44-013	Soil	D2216	Percent Moisture	71496	1	09/18/15 09:00 AM	PMOIST_150917A
	INC-SB44-013	Soil	SW7471B	Total Mercury: Soil/Solid	71510	1	09/23/15 10:12 AM	CETAC2_HG_150923A
	INC-SB44-013	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71509	5	09/21/15 01:55 PM	ICP-MS4_150921A
1509150-03A	INC-SB46-010	Soil	D2216	Percent Moisture	71496	1	09/18/15 09:00 AM	PMOIST_150917A
	INC-SB46-010	Soil	SW7471B	Total Mercury: Soil/Solid	71510	1	09/23/15 10:18 AM	CETAC2_HG_150923A
	INC-SB46-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71509	5	09/21/15 01:59 PM	ICP-MS4_150921A
	INC-SB46-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71509	50	09/25/15 02:46 PM	ICP-MS4_150925A
1509150-04A	INC-SB46-015	Equip Blank	SW7470A	Mercury Total: Aqueous	71549	1	09/22/15 02:53 PM	CETAC2_HG_150922B
	INC-SB46-015	Equip Blank	SW6020A	Trace Metals: ICP-MS - Water	71546	1	09/23/15 12:21 PM	ICP-MS4_150923C
1509150-04B	INC-SB46-015	Equip Blank	SW8270D-LL	PAHs: GC/MS	71517	1	09/21/15 09:33 PM	GCMS6_150921A
1509150-05A	INC-SB47-010	Soil	D2216	Percent Moisture	71496	1	09/18/15 09:00 AM	PMOIST_150917A
	INC-SB47-010	Soil	SW7471B	Total Mercury: Soil/Solid	71510	1	09/23/15 10:25 AM	CETAC2_HG_150923A
	INC-SB47-010	Soil	SW7471B	Total Mercury: Soil/Solid	71510	10	09/23/15 10:38 AM	CETAC2_HG_150923A
	INC-SB47-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71509	5	09/21/15 02:01 PM	ICP-MS4_150921A
1509150-06A	INC-SB47-011	Soil	D2216	Percent Moisture	71496	1	09/18/15 09:00 AM	PMOIST_150917A
	INC-SB47-011	Soil	SW7471B	Total Mercury: Soil/Solid	71510	1	09/23/15 10:28 AM	CETAC2_HG_150923A
	INC-SB47-011	Soil	SW7471B	Total Mercury: Soil/Solid	71510	10	09/23/15 10:41 AM	CETAC2_HG_150923A
	INC-SB47-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71509	5	09/21/15 02:03 PM	ICP-MS4_150921A
1509150-07A	INC-SB48-010	Soil	D2216	Percent Moisture	71496	1	09/18/15 09:00 AM	PMOIST_150917A

Lab Order: 1509150
Client: AECOM
Project: City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1509150-07A	INC-SB48-010	Soil	SW7471B	Total Mercury: Soil/Solid	71510	1	09/23/15 10:30 AM	CETAC2_HG_150923A
	INC-SB48-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71509	5	09/21/15 02:05 PM	ICP-MS4_150921A
1509150-08A	INC-SB49-010	Soil	SW8270D-LL	PAHs: GC/MS	71521	1	09/21/15 04:08 PM	GCMS6_150921B
	INC-SB49-010	Soil	D2216	Percent Moisture	71496	1	09/18/15 09:00 AM	PMOIST_150917A
	INC-SB49-010	Soil	SW7471B	Total Mercury: Soil/Solid	71510	1	09/23/15 10:32 AM	CETAC2_HG_150923A
	INC-SB49-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	71509	5	09/21/15 02:07 PM	ICP-MS4_150921A

DHL Analytical, Inc.

Date: *01-Oct-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB43-010
Project:	City of Galveston Incinerator	**Lab ID:**	1509150-01
Project No:	60420789.41012083.0103	**Collection Date:**	09/16/15 04:00 PM
Lab Order:	1509150	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **ABO**
Mercury	0.0809	0.0174	0.0434		mg/Kg-dry	1	10/01/15 10:02 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	5.84	0.546	1.09		mg/Kg-dry	5	10/01/15 12:56 PM
Barium	182	0.546	2.18		mg/Kg-dry	5	10/01/15 12:56 PM
Cadmium	0.366	0.109	0.327		mg/Kg-dry	5	10/01/15 12:56 PM
Chromium	10.6	0.546	2.18		mg/Kg-dry	5	10/01/15 12:56 PM
Lead	112	0.109	0.327		mg/Kg-dry	5	10/01/15 12:56 PM
Selenium	0.522	0.164	0.546	J	mg/Kg-dry	5	10/01/15 12:56 PM
Silver	0.213	0.109	0.218	J	mg/Kg-dry	5	10/01/15 12:56 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.0292	0.00587	0.0117		mg/Kg-dry	1	09/30/15 09:35 PM
Acenaphthylene	0.252	0.00587	0.0117		mg/Kg-dry	1	09/30/15 09:35 PM
Anthracene	0.319	0.00587	0.0117		mg/Kg-dry	1	09/30/15 09:35 PM
Benzo[a]anthracene	0.944	0.00587	0.0117		mg/Kg-dry	1	09/30/15 09:35 PM
Benzo[a]pyrene	0.972	0.00587	0.0117		mg/Kg-dry	1	09/30/15 09:35 PM
Benzo[b]fluoranthene	1.15	0.00587	0.0117		mg/Kg-dry	1	09/30/15 09:35 PM
Benzo[g,h,i]perylene	0.728	0.00587	0.0117		mg/Kg-dry	1	09/30/15 09:35 PM
Benzo[k]fluoranthene	0.518	0.00587	0.0117		mg/Kg-dry	1	09/30/15 09:35 PM
Chrysene	1.03	0.00587	0.0117		mg/Kg-dry	1	09/30/15 09:35 PM
Dibenz[a,h]anthracene	0.176	0.00587	0.0117		mg/Kg-dry	1	09/30/15 09:35 PM
Fluoranthene	1.43	0.00587	0.0117		mg/Kg-dry	1	09/30/15 09:35 PM
Fluorene	0.0464	0.00587	0.0117		mg/Kg-dry	1	09/30/15 09:35 PM
Indeno[1,2,3-cd]pyrene	0.633	0.00587	0.0117		mg/Kg-dry	1	09/30/15 09:35 PM
Naphthalene	0.0156	0.00587	0.0117		mg/Kg-dry	1	09/30/15 09:35 PM
Phenanthrene	0.573	0.00587	0.0117		mg/Kg-dry	1	09/30/15 09:35 PM
Pyrene	1.21	0.00587	0.0117		mg/Kg-dry	1	09/30/15 09:35 PM
Surr: 2-Fluorobiphenyl	77.2	0	43-125		%REC	1	09/30/15 09:35 PM
Surr: 4-Terphenyl-d14	71.1	0	32-125		%REC	1	09/30/15 09:35 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	20.3	0	0		WT%	1	09/30/15 09:15 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *01-Oct-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB44-013
Project:	City of Galveston Incinerator	**Lab ID:**	1509150-02
Project No:	60420789.41012083.0103	**Collection Date:**	09/16/15 04:30 PM
Lab Order:	1509150	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	0.0335	0.0198	0.0496	J	mg/Kg-dry	1	09/23/15 10:12 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	3.65	0.604	1.21		mg/Kg-dry	5	09/21/15 01:55 PM
Barium	107	0.604	2.42		mg/Kg-dry	5	09/21/15 01:55 PM
Cadmium	0.277	0.121	0.362	J	mg/Kg-dry	5	09/21/15 01:55 PM
Chromium	11.8	0.604	2.42		mg/Kg-dry	5	09/21/15 01:55 PM
Lead	40.1	0.121	0.362		mg/Kg-dry	5	09/21/15 01:55 PM
Selenium	0.779	0.181	0.604		mg/Kg-dry	5	09/21/15 01:55 PM
Silver	<0.121	0.121	0.242		mg/Kg-dry	5	09/21/15 01:55 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.00840	0.00623	0.0125	J	mg/Kg-dry	1	09/21/15 03:27 PM
Acenaphthylene	0.0238	0.00623	0.0125		mg/Kg-dry	1	09/21/15 03:27 PM
Anthracene	0.0378	0.00623	0.0125		mg/Kg-dry	1	09/21/15 03:27 PM
Benzo[a]anthracene	0.230	0.00623	0.0125		mg/Kg-dry	1	09/21/15 03:27 PM
Benzo[a]pyrene	0.318	0.00623	0.0125		mg/Kg-dry	1	09/21/15 03:27 PM
Benzo[b]fluoranthene	0.361	0.00623	0.0125		mg/Kg-dry	1	09/21/15 03:27 PM
Benzo[g,h,i]perylene	0.304	0.00623	0.0125		mg/Kg-dry	1	09/21/15 03:27 PM
Benzo[k]fluoranthene	0.166	0.00623	0.0125		mg/Kg-dry	1	09/21/15 03:27 PM
Chrysene	0.331	0.00623	0.0125		mg/Kg-dry	1	09/21/15 03:27 PM
Dibenz[a,h]anthracene	0.0607	0.00623	0.0125		mg/Kg-dry	1	09/21/15 03:27 PM
Fluoranthene	0.564	0.00623	0.0125		mg/Kg-dry	1	09/21/15 03:27 PM
Fluorene	0.0115	0.00623	0.0125	J	mg/Kg-dry	1	09/21/15 03:27 PM
Indeno[1,2,3-cd]pyrene	0.242	0.00623	0.0125		mg/Kg-dry	1	09/21/15 03:27 PM
Naphthalene	<0.00623	0.00623	0.0125		mg/Kg-dry	1	09/21/15 03:27 PM
Phenanthrene	0.158	0.00623	0.0125		mg/Kg-dry	1	09/21/15 03:27 PM
Pyrene	0.492	0.00623	0.0125		mg/Kg-dry	1	09/21/15 03:27 PM
Surr: 2-Fluorobiphenyl	78.5	0	43-125		%REC	1	09/21/15 03:27 PM
Surr: 4-Terphenyl-d14	80.3	0	32-125		%REC	1	09/21/15 03:27 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	21.1	0	0		WT%	1	09/18/15 09:00 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *01-Oct-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB46-010
Project:	City of Galveston Incinerator	**Lab ID:**	1509150-03
Project No:	60420789.41012083.0103	**Collection Date:**	09/16/15 03:00 PM
Lab Order:	1509150	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	0.0853	0.0258	0.0646		mg/Kg-dry	1	09/23/15 10:18 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	6.46	0.794	1.59		mg/Kg-dry	5	09/21/15 01:59 PM
Barium	1680	7.94	31.8		mg/Kg-dry	50	09/25/15 02:46 PM
Cadmium	0.393	0.159	0.476	J	mg/Kg-dry	5	09/21/15 01:59 PM
Chromium	10.2	0.794	3.18		mg/Kg-dry	5	09/21/15 01:59 PM
Lead	120	0.159	0.476		mg/Kg-dry	5	09/21/15 01:59 PM
Selenium	0.824	0.238	0.794		mg/Kg-dry	5	09/21/15 01:59 PM
Silver	0.265	0.159	0.318	J	mg/Kg-dry	5	09/21/15 01:59 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	40.0	0	0		WT%	1	09/18/15 09:00 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *01-Oct-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB46-015
Project:	City of Galveston Incinerator	**Lab ID:**	1509150-04
Project No:	60420789.41012083.0103	**Collection Date:**	09/16/15 03:20 PM
Lab Order:	1509150	**Matrix:**	EQUIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **SCS**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	09/22/15 02:53 PM
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	09/23/15 12:21 PM
Barium	0.0118	0.00300	0.0100		mg/L	1	09/23/15 12:21 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	09/23/15 12:21 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	09/23/15 12:21 PM
Lead	0.000961	0.000300	0.00100	J	mg/L	1	09/23/15 12:21 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	09/23/15 12:21 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	09/23/15 12:21 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0000250	0.0000250	0.0000500		mg/L	1	09/21/15 09:33 PM
Acenaphthylene	<0.0000250	0.0000250	0.0000500		mg/L	1	09/21/15 09:33 PM
Anthracene	<0.0000250	0.0000250	0.0000500		mg/L	1	09/21/15 09:33 PM
Benzo[a]anthracene	<0.0000250	0.0000250	0.0000500		mg/L	1	09/21/15 09:33 PM
Benzo[a]pyrene	<0.0000250	0.0000250	0.0000500		mg/L	1	09/21/15 09:33 PM
Benzo[b]fluoranthene	<0.0000250	0.0000250	0.0000500		mg/L	1	09/21/15 09:33 PM
Benzo[g,h,i]perylene	<0.0000250	0.0000250	0.0000500		mg/L	1	09/21/15 09:33 PM
Benzo[k]fluoranthene	<0.0000250	0.0000250	0.0000500		mg/L	1	09/21/15 09:33 PM
Chrysene	<0.0000250	0.0000250	0.0000500		mg/L	1	09/21/15 09:33 PM
Dibenz[a,h]anthracene	<0.0000250	0.0000250	0.0000500		mg/L	1	09/21/15 09:33 PM
Fluoranthene	<0.0000250	0.0000250	0.0000500		mg/L	1	09/21/15 09:33 PM
Fluorene	<0.0000250	0.0000250	0.0000500		mg/L	1	09/21/15 09:33 PM
Indeno[1,2,3-cd]pyrene	<0.0000250	0.0000250	0.0000500		mg/L	1	09/21/15 09:33 PM
Naphthalene	<0.0000250	0.0000250	0.0000500		mg/L	1	09/21/15 09:33 PM
Phenanthrene	<0.0000250	0.0000250	0.0000500		mg/L	1	09/21/15 09:33 PM
Pyrene	<0.0000250	0.0000250	0.0000500		mg/L	1	09/21/15 09:33 PM
Surr: 2-Fluorobiphenyl	62.0	0	48-120		%REC	1	09/21/15 09:33 PM
Surr: 4-Terphenyl-d14	70.0	0	51-135		%REC	1	09/21/15 09:33 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *01-Oct-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB47-010
Project:	City of Galveston Incinerator	**Lab ID:**	1509150-05
Project No:	60420789.41012083.0103	**Collection Date:**	09/16/15 02:35 PM
Lab Order:	1509150	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	1.47	0.209	0.523		mg/Kg-dry	10	09/23/15 10:38 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	2.40	0.632	1.26		mg/Kg-dry	5	09/21/15 02:01 PM
Barium	185	0.632	2.53		mg/Kg-dry	5	09/21/15 02:01 PM
Cadmium	0.820	0.126	0.379		mg/Kg-dry	5	09/21/15 02:01 PM
Chromium	7.49	0.632	2.53		mg/Kg-dry	5	09/21/15 02:01 PM
Lead	114	0.126	0.379		mg/Kg-dry	5	09/21/15 02:01 PM
Selenium	0.826	0.190	0.632		mg/Kg-dry	5	09/21/15 02:01 PM
Silver	0.247	0.126	0.253	J	mg/Kg-dry	5	09/21/15 02:01 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	29.4	0	0		WT%	1	09/18/15 09:00 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *01-Oct-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB47-011
Project:	City of Galveston Incinerator	**Lab ID:**	1509150-06
Project No:	60420789.41012083.0103	**Collection Date:**	09/16/15 02:35 PM
Lab Order:	1509150	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	1.27	0.222	0.554		mg/Kg-dry	10	09/23/15 10:41 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	2.70	0.657	1.31		mg/Kg-dry	5	09/21/15 02:03 PM
Barium	285	0.657	2.63		mg/Kg-dry	5	09/21/15 02:03 PM
Cadmium	0.860	0.131	0.394		mg/Kg-dry	5	09/21/15 02:03 PM
Chromium	8.61	0.657	2.63		mg/Kg-dry	5	09/21/15 02:03 PM
Lead	135	0.131	0.394		mg/Kg-dry	5	09/21/15 02:03 PM
Selenium	0.837	0.197	0.657		mg/Kg-dry	5	09/21/15 02:03 PM
Silver	0.266	0.131	0.263		mg/Kg-dry	5	09/21/15 02:03 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	33.2	0	0		WT%	1	09/18/15 09:00 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *01-Oct-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB48-010
Project:	City of Galveston Incinerator	**Lab ID:**	1509150-07
Project No:	60420789.41012083.0103	**Collection Date:**	09/16/15 02:00 PM
Lab Order:	1509150	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	0.0677	0.0201	0.0501		mg/Kg-dry	1	09/23/15 10:30 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	3.41	0.613	1.23		mg/Kg-dry	5	09/21/15 02:05 PM
Barium	192	0.613	2.45		mg/Kg-dry	5	09/21/15 02:05 PM
Cadmium	0.240	0.123	0.368	J	mg/Kg-dry	5	09/21/15 02:05 PM
Chromium	11.1	0.613	2.45		mg/Kg-dry	5	09/21/15 02:05 PM
Lead	45.0	0.123	0.368		mg/Kg-dry	5	09/21/15 02:05 PM
Selenium	0.877	0.184	0.613		mg/Kg-dry	5	09/21/15 02:05 PM
Silver	<0.123	0.123	0.245		mg/Kg-dry	5	09/21/15 02:05 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	25.9	0	0		WT%	1	09/18/15 09:00 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *01-Oct-15*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB49-010
Project:	City of Galveston Incinerator	**Lab ID:**	1509150-08
Project No:	60420789.41012083.0103	**Collection Date:**	09/16/15 01:35 PM
Lab Order:	1509150	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **SCS**
Mercury	0.106	0.0173	0.0432		mg/Kg-dry	1	09/23/15 10:32 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Arsenic	3.31	0.517	1.03		mg/Kg-dry	5	09/21/15 02:07 PM
Barium	259	0.517	2.07		mg/Kg-dry	5	09/21/15 02:07 PM
Cadmium	0.305	0.103	0.310	J	mg/Kg-dry	5	09/21/15 02:07 PM
Chromium	7.68	0.517	2.07		mg/Kg-dry	5	09/21/15 02:07 PM
Lead	72.2	0.103	0.310		mg/Kg-dry	5	09/21/15 02:07 PM
Selenium	0.611	0.155	0.517		mg/Kg-dry	5	09/21/15 02:07 PM
Silver	0.106	0.103	0.207	J	mg/Kg-dry	5	09/21/15 02:07 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.190	0.00626	0.0125		mg/Kg-dry	1	09/21/15 04:08 PM
Acenaphthylene	0.101	0.00626	0.0125		mg/Kg-dry	1	09/21/15 04:08 PM
Anthracene	0.493	0.00626	0.0125		mg/Kg-dry	1	09/21/15 04:08 PM
Benzo[a]anthracene	1.92	0.00626	0.0125		mg/Kg-dry	1	09/21/15 04:08 PM
Benzo[a]pyrene	1.85	0.00626	0.0125		mg/Kg-dry	1	09/21/15 04:08 PM
Benzo[b]fluoranthene	1.96	0.00626	0.0125		mg/Kg-dry	1	09/21/15 04:08 PM
Benzo[g,h,i]perylene	1.37	0.00626	0.0125		mg/Kg-dry	1	09/21/15 04:08 PM
Benzo[k]fluoranthene	0.884	0.00626	0.0125		mg/Kg-dry	1	09/21/15 04:08 PM
Chrysene	1.92	0.00626	0.0125		mg/Kg-dry	1	09/21/15 04:08 PM
Dibenz[a,h]anthracene	0.318	0.00626	0.0125		mg/Kg-dry	1	09/21/15 04:08 PM
Fluoranthene	4.60	0.00626	0.0125		mg/Kg-dry	1	09/21/15 04:08 PM
Fluorene	0.136	0.00626	0.0125		mg/Kg-dry	1	09/21/15 04:08 PM
Indeno[1,2,3-cd]pyrene	1.18	0.00626	0.0125		mg/Kg-dry	1	09/21/15 04:08 PM
Naphthalene	0.00765	0.00626	0.0125	J	mg/Kg-dry	1	09/21/15 04:08 PM
Phenanthrene	1.87	0.00626	0.0125		mg/Kg-dry	1	09/21/15 04:08 PM
Pyrene	3.46	0.00626	0.0125		mg/Kg-dry	1	09/21/15 04:08 PM
Surr: 2-Fluorobiphenyl	72.5	0	43-125		%REC	1	09/21/15 04:08 PM
Surr: 4-Terphenyl-d14	75.3	0	32-125		%REC	1	09/21/15 04:08 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	22.0	0	0		WT%	1	09/18/15 09:00 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *01-Oct-15*

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150820C**

Sample ID	**DCS1-71043**	Batch ID:	**71043**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**CETAC2_HG_150820C**	Analysis Date:	**8/20/2015 3:18:32 PM**	Prep Date:	**8/19/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.000112	0.000200	0.000100	0	112	70	130	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150911B**

Sample ID	**DCS1-71374**	Batch ID:	**71374**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**CETAC2_HG_150911B**	Analysis Date:	**9/11/2015 10:50:55 AM**	Prep Date:	**9/10/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0173	0.0400	0.02000	0	86.5	60	140	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150922B**

The QC data in batch 71549 applies to the following samples: 1509150-04A

Sample ID	MB-71549	Batch ID:	71549	TestNo:	SW7470A	Units:	mg/L
SampType:	MBLK	Run ID:	CETAC2_HG_150922B	Analysis Date:	9/22/2015 1:56:58 PM	Prep Date:	9/22/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0000800	0.000200								

Sample ID	LCS-71549	Batch ID:	71549	TestNo:	SW7470A	Units:	mg/L
SampType:	LCS	Run ID:	CETAC2_HG_150922B	Analysis Date:	9/22/2015 1:59:14 PM	Prep Date:	9/22/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00194	0.000200	0.00200	0	97.0	85	115			

Sample ID	LCSD-71549	Batch ID:	71549	TestNo:	SW7470A	Units:	mg/L
SampType:	LCSD	Run ID:	CETAC2_HG_150922B	Analysis Date:	9/22/2015 2:01:30 PM	Prep Date:	9/22/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00198	0.000200	0.00200	0	99.0	85	115	2.04	15	

Sample ID	1509184-04AMS	Batch ID:	71549	TestNo:	SW7470A	Units:	mg/L
SampType:	MS	Run ID:	CETAC2_HG_150922B	Analysis Date:	9/22/2015 2:33:31 PM	Prep Date:	9/22/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00128	0.00100	0.00200	0	64.2	80	120			S

Sample ID	1509184-04AMSD	Batch ID:	71549	TestNo:	SW7470A	Units:	mg/L
SampType:	MSD	Run ID:	CETAC2_HG_150922B	Analysis Date:	9/22/2015 2:42:23 PM	Prep Date:	9/22/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00145	0.00100	0.00200	0	72.5	80	120	12.1	15	S

Sample ID	1509122-01A SD	Batch ID:	71549	TestNo:	SW7470A	Units:	mg/L
SampType:	SD	Run ID:	CETAC2_HG_150922B	Analysis Date:	9/22/2015 2:49:12 PM	Prep Date:	9/22/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.00200	0.00500	0	0				0	10	

Sample ID	1509122-01A PDS	Batch ID:	71549	TestNo:	SW7470A	Units:	mg/L
SampType:	PDS	Run ID:	CETAC2_HG_150922B	Analysis Date:	9/22/2015 2:51:28 PM	Prep Date:	9/22/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0118	0.00100	0.0125	0	94.0	85	115			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_150922B**

Sample ID	ICV-150922	Batch ID:	R81836	TestNo:	SW7470A	Units:	mg/L
SampType:	ICV	Run ID:	CETAC2_HG_150922B	Analysis Date:	9/22/2015 9:24:47 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00407	0.000200	0.00400	0	102	90	110			

Sample ID	CCV1-150922	Batch ID:	R81836	TestNo:	SW7470A	Units:	mg/L
SampType:	CCV	Run ID:	CETAC2_HG_150922B	Analysis Date:	9/22/2015 3:00:35 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00198	0.000200	0.00200	0	99.0	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_150923A

The QC data in batch 71510 applies to the following samples: 1509150-02A, 1509150-03A, 1509150-05A, 1509150-06A, 1509150-07A, 1509150-08A

Sample ID **MB-71510** Batch ID: **71510** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **MBLK** Run ID: **CETAC2_HG_150923A** Analysis Date: **9/23/2015 9:42:36 AM** Prep Date: **9/18/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0160	0.0400								

Sample ID **LCS-71510** Batch ID: **71510** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCS** Run ID: **CETAC2_HG_150923A** Analysis Date: **9/23/2015 9:44:52 AM** Prep Date: **9/18/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.193	0.0400	0.2000	0	96.5	85	115			

Sample ID **LCSD-71510** Batch ID: **71510** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCSD** Run ID: **CETAC2_HG_150923A** Analysis Date: **9/23/2015 9:47:08 AM** Prep Date: **9/18/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.192	0.0400	0.2000	0	96.0	85	115	0.519	25	

Sample ID **1509137-03C SD** Batch ID: **71510** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **CETAC2_HG_150923A** Analysis Date: **9/23/2015 9:51:41 AM** Prep Date: **9/18/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0828	0.207	0	0				0	10	

Sample ID **1509137-03C PDS** Batch ID: **71510** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **CETAC2_HG_150923A** Analysis Date: **9/23/2015 9:53:57 AM** Prep Date: **9/18/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.238	0.0414	0.2587	0	92.0	85	115			

Sample ID **1509137-03C MS** Batch ID: **71510** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **CETAC2_HG_150923A** Analysis Date: **9/23/2015 9:56:12 AM** Prep Date: **9/18/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.205	0.0446	0.2232	0	92.0	80	120			

Sample ID **1509137-03C MSD** Batch ID: **71510** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **CETAC2_HG_150923A** Analysis Date: **9/23/2015 9:58:28 AM** Prep Date: **9/18/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.210	0.0440	0.2202	0	95.5	80	120	2.35	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_150923A

Sample ID	1509150-02A MS	Batch ID:	71510	TestNo:	SW7471B	Units:	mg/Kg-dry
SampType:	MS	Run ID:	CETAC2_HG_150923A	Analysis Date:	9/23/2015 10:14:19 AM	Prep Date:	9/18/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.272	0.0493	0.2466	0.03348	96.9	80	120			

Sample ID	1509150-02A MSD	Batch ID:	71510	TestNo:	SW7471B	Units:	mg/Kg-dry
SampType:	MSD	Run ID:	CETAC2_HG_150923A	Analysis Date:	9/23/2015 10:16:35 AM	Prep Date:	9/18/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.268	0.0494	0.2472	0.03348	95.0	80	120	1.57	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_150923A

Sample ID	ICV-150923	Batch ID:	R81841	TestNo:	SW7471B	Units:	mg/Kg
SampType:	ICV	Run ID:	CETAC2_HG_150923A	Analysis Date:	9/23/2015 9:38:02 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00409	0.0400	0.004000	0	102	90	110			

Sample ID	CCV1-150923	Batch ID:	R81841	TestNo:	SW7471B	Units:	mg/Kg
SampType:	CCV	Run ID:	CETAC2_HG_150923A	Analysis Date:	9/23/2015 10:21:09 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00193	0.0400	0.002000	0	96.5	90	110			

Sample ID	CCV2-150923	Batch ID:	R81841	TestNo:	SW7471B	Units:	mg/Kg
SampType:	CCV	Run ID:	CETAC2_HG_150923A	Analysis Date:	9/23/2015 10:43:30 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00193	0.0400	0.002000	0	96.5	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_151001A

The QC data in batch 71694 applies to the following samples: 1509150-01A

Sample ID	Batch ID:	TestNo:	Units:
MB-71694	71694	SW7471B	mg/Kg
SampType: MBLK	Run ID: CETAC2_HG_151001A	Analysis Date: 10/1/2015 9:55:19 AM	Prep Date: 9/30/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0160	0.0400								

Sample ID	Batch ID:	TestNo:	Units:
LCS-71694	71694	SW7471B	mg/Kg
SampType: LCS	Run ID: CETAC2_HG_151001A	Analysis Date: 10/1/2015 9:57:35 AM	Prep Date: 9/30/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.200	0.0400	0.2000	0	100	85	115			

Sample ID	Batch ID:	TestNo:	Units:
LCSD-71694	71694	SW7471B	mg/Kg
SampType: LCSD	Run ID: CETAC2_HG_151001A	Analysis Date: 10/1/2015 9:59:51 AM	Prep Date: 9/30/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.205	0.0400	0.2000	0	103	85	115	2.47	25	

Sample ID	Batch ID:	TestNo:	Units:
1509284-08A SD	71694	SW7471B	mg/Kg-dry
SampType: SD	Run ID: CETAC2_HG_151001A	Analysis Date: 10/1/2015 10:52:24 AM	Prep Date: 9/30/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0937	0.234	0	0				0	10	

Sample ID	Batch ID:	TestNo:	Units:
1509284-08A PDS	71694	SW7471B	mg/Kg-dry
SampType: PDS	Run ID: CETAC2_HG_151001A	Analysis Date: 10/1/2015 10:54:40 AM	Prep Date: 9/30/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.285	0.0468	0.2928	0	97.2	85	115			

Sample ID	Batch ID:	TestNo:	Units:
1509284-08A MS	71694	SW7471B	mg/Kg-dry
SampType: MS	Run ID: CETAC2_HG_151001A	Analysis Date: 10/1/2015 10:56:56 AM	Prep Date: 9/30/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.218	0.0441	0.2205	0	99.0	80	120			

Sample ID	Batch ID:	TestNo:	Units:
1509284-08A MSD	71694	SW7471B	mg/Kg-dry
SampType: MSD	Run ID: CETAC2_HG_151001A	Analysis Date: 10/1/2015 10:59:12 AM	Prep Date: 9/30/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.221	0.0435	0.2174	0	102	80	120	1.11	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_151001A

Sample ID	ICV-151001	Batch ID:	R81974	TestNo:	SW7471B	Units:	mg/Kg
SampType:	ICV	Run ID:	CETAC2_HG_151001A	Analysis Date:	10/1/2015 9:50:45 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00387	0.0400	0.004000	0	96.8	90	110			

Sample ID	CCV1-151001	Batch ID:	R81974	TestNo:	SW7471B	Units:	mg/Kg
SampType:	CCV	Run ID:	CETAC2_HG_151001A	Analysis Date:	10/1/2015 10:41:01 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00196	0.0400	0.002000	0	98.0	90	110			

Sample ID	CCV2-151001	Batch ID:	R81974	TestNo:	SW7471B	Units:	mg/Kg
SampType:	CCV	Run ID:	CETAC2_HG_151001A	Analysis Date:	10/1/2015 11:03:46 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00196	0.0400	0.002000	0	98.0	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150805D**

Sample ID	**DCS1-70368**	Batch ID:	**70368**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**ICP-MS4_150805D**	Analysis Date:	**8/5/2015 11:09:00 AM**	Prep Date:	**7/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.000997	0.00100	0.00100	0	99.7	80	120	0	0	
Lead	0.00110	0.00100	0.00100	0	110	80	120	0	0	
Silver	0.000997	0.00200	0.00100	0	99.7	80	120	0	0	

Sample ID	**DCS2-70368**	Batch ID:	**70368**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**DCS2**	Run ID:	**ICP-MS4_150805D**	Analysis Date:	**8/5/2015 11:11:00 AM**	Prep Date:	**7/8/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00441	0.00500	0.00400	0	110	80	120	0	0	
Barium	0.00398	0.0100	0.00400	0	99.6	80	120	0	0	
Chromium	0.00416	0.00500	0.00400	0	104	80	120	0	0	
Selenium	0.00435	0.00500	0.00400	0	109	80	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150805D**

Sample ID	DCS-70735	Batch ID:	70735	TestNo:	SW6020A	Units:	mg/Kg
SampType:	DCS	Run ID:	ICP-MS4_150805D	Analysis Date:	8/5/2015 1:48:00 PM	Prep Date:	8/4/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.171	1.00	0.1500	0	114	70	130	0	0	
Barium	0.179	2.00	0.1500	0	119	70	130	0	0	
Cadmium	0.151	0.300	0.1500	0	101	70	130	0	0	
Selenium	0.175	0.500	0.1500	0	116	70	130	0	0	
Silver	0.163	0.200	0.1500	0	109	70	130	0	0	

Sample ID	DCS2-70735	Batch ID:	70735	TestNo:	SW6020A	Units:	mg/Kg
SampType:	DCS2	Run ID:	ICP-MS4_150805D	Analysis Date:	8/5/2015 1:50:00 PM	Prep Date:	8/4/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	1.09	2.00	1.000	0	109	70	130	0	0	
Lead	1.05	0.300	1.000	0	105	70	130	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_150921A

The QC data in batch 71509 applies to the following samples: 1509150-02A, 1509150-03A, 1509150-05A, 1509150-06A, 1509150-07A, 1509150-08A

Sample ID **MB-71509** Batch ID: **71509** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS4_150921A** Analysis Date: **9/21/2015 1:47:00 PM** Prep Date: **9/18/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Lead	<0.100	0.300								
Selenium	<0.150	0.500								
Silver	<0.100	0.200								

Sample ID **LCS-71509** Batch ID: **71509** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS4_150921A** Analysis Date: **9/21/2015 1:49:00 PM** Prep Date: **9/18/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	52.1	1.00	50.00	0	104	80	120			
Barium	52.7	2.00	50.00	0	105	80	120			
Cadmium	51.6	0.300	50.00	0	103	80	120			
Chromium	53.5	2.00	50.00	0	107	80	120			
Lead	51.8	0.300	50.00	0	104	80	120			
Selenium	50.4	0.500	50.00	0	101	80	120			
Silver	51.2	0.200	50.00	0	102	80	120			

Sample ID **LCSD-71509** Batch ID: **71509** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS4_150921A** Analysis Date: **9/21/2015 1:51:00 PM** Prep Date: **9/18/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.9	1.00	50.00	0	102	80	120	2.43	20	
Barium	51.5	2.00	50.00	0	103	80	120	2.28	20	
Cadmium	50.3	0.300	50.00	0	101	80	120	2.43	20	
Chromium	52.6	2.00	50.00	0	105	80	120	1.68	20	
Lead	51.0	0.300	50.00	0	102	80	120	1.54	20	
Selenium	49.2	0.500	50.00	0	98.3	80	120	2.41	20	
Silver	50.3	0.200	50.00	0	101	80	120	1.87	20	

Sample ID **1509150-02A SD** Batch ID: **71509** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS4_150921A** Analysis Date: **9/21/2015 1:57:00 PM** Prep Date: **9/18/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	3.60	6.04	0	3.655				1.57	10	
Barium	105	12.1	0	106.8				1.60	10	
Cadmium	<0.604	1.81	0	0.2766				0	10	
Chromium	11.9	12.1	0	11.77				1.29	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_150921A

Sample ID	1509150-02A SD	Batch ID:	71509	TestNo:	SW6020A	Units:	mg/Kg-dry
SampType:	SD	Run ID:	ICP-MS4_150921A	Analysis Date:	9/21/2015 1:57:00 PM	Prep Date:	9/18/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	39.7	1.81	0	40.09				1.01	10	
Selenium	1.13	3.02	0	0.7787				36.7	10	R
Silver	<0.604	1.21	0	0				0	10	

Sample ID	1509150-02A PDS	Batch ID:	71509	TestNo:	SW6020A	Units:	mg/Kg-dry
SampType:	PDS	Run ID:	ICP-MS4_150921A	Analysis Date:	9/21/2015 2:16:00 PM	Prep Date:	9/18/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	65.1	1.21	60.39	3.655	102	80	120			
Barium	170	2.42	60.39	106.8	104	80	120			
Cadmium	61.9	0.362	60.39	0.2766	102	80	120			
Chromium	75.7	2.42	60.39	11.77	106	80	120			
Lead	104	0.362	60.39	40.09	105	80	120			
Selenium	59.1	0.604	60.39	0.7787	96.5	80	120			
Silver	61.6	0.242	60.39	0	102	80	120			

Sample ID	1509150-02A MS	Batch ID:	71509	TestNo:	SW6020A	Units:	mg/Kg-dry
SampType:	MS	Run ID:	ICP-MS4_150921A	Analysis Date:	9/21/2015 2:18:00 PM	Prep Date:	9/18/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	64.9	1.23	61.56	3.655	99.5	80	120			
Barium	170	2.46	61.56	106.8	103	80	120			
Cadmium	62.3	0.369	61.56	0.2766	101	80	120			
Chromium	75.4	2.46	61.56	11.77	103	80	120			
Lead	114	0.369	61.56	40.09	120	80	120			
Selenium	59.1	0.616	61.56	0.7787	94.7	80	120			
Silver	62.0	0.246	61.56	0	101	80	120			

Sample ID	1509150-02A MSD	Batch ID:	71509	TestNo:	SW6020A	Units:	mg/Kg-dry
SampType:	MSD	Run ID:	ICP-MS4_150921A	Analysis Date:	9/21/2015 2:20:00 PM	Prep Date:	9/18/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	64.8	1.21	60.39	3.655	101	80	120	0.203	20	
Barium	171	2.42	60.39	106.8	106	80	120	0.522	20	
Cadmium	61.0	0.362	60.39	0.2766	101	80	120	2.17	20	
Chromium	74.6	2.42	60.39	11.77	104	80	120	1.07	20	
Lead	102	0.362	60.39	40.09	102	80	120	10.9	20	
Selenium	57.3	0.604	60.39	0.7787	93.6	80	120	3.03	20	
Silver	60.7	0.242	60.39	0	100	80	120	2.20	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_150921A

Sample ID **ICV-150921** Batch ID: **R81807** TestNo: **SW6020A** Units: **mg/L**
SampType: **ICV** Run ID: **ICP-MS4_150921A** Analysis Date: **9/21/2015 11:59:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.102	0.00500	0.100	0	102	90	110			
Barium	0.101	0.0100	0.100	0	101	90	110			
Cadmium	0.102	0.00100	0.100	0	102	90	110			
Chromium	0.106	0.00500	0.100	0	106	90	110			
Lead	0.104	0.00100	0.100	0	104	90	110			
Selenium	0.102	0.00500	0.100	0	102	90	110			
Silver	0.101	0.00200	0.100	0	101	90	110			

Sample ID **LCVL-150921** Batch ID: **R81807** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150921A** Analysis Date: **9/21/2015 12:05:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00516	0.00500	0.00500	0	103	70	130			
Barium	0.00499	0.0100	0.00500	0	99.8	70	130			
Cadmium	0.00107	0.00100	0.00100	0	107	70	130			
Chromium	0.00538	0.00500	0.00500	0	108	70	130			
Lead	0.00104	0.00100	0.00100	0	104	70	130			
Selenium	0.00520	0.00500	0.00500	0	104	70	130			
Silver	0.00196	0.00200	0.00200	0	98.1	70	130			

Sample ID **CCV2-150921** Batch ID: **R81807** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150921A** Analysis Date: **9/21/2015 1:39:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.210	0.00500	0.200	0	105	90	110			
Barium	0.217	0.0100	0.200	0	108	90	110			
Cadmium	0.213	0.00100	0.200	0	106	90	110			
Chromium	0.215	0.00500	0.200	0	108	90	110			
Lead	0.211	0.00100	0.200	0	105	90	110			
Selenium	0.202	0.00500	0.200	0	101	90	110			
Silver	0.209	0.00200	0.200	0	105	90	110			

Sample ID **LCVL2-150921** Batch ID: **R81807** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150921A** Analysis Date: **9/21/2015 1:43:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00522	0.00500	0.00500	0	104	70	130			
Barium	0.00522	0.0100	0.00500	0	104	70	130			
Cadmium	0.00105	0.00100	0.00100	0	105	70	130			
Chromium	0.00522	0.00500	0.00500	0	104	70	130			
Lead	0.00110	0.00100	0.00100	0	110	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_150921A

Sample ID **LCVL2-150921** Batch ID: **R81807** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150921A** Analysis Date: **9/21/2015 1:43:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.00537	0.00500	0.00500	0	107	70	130			
Silver	0.00201	0.00200	0.00200	0	101	70	130			

Sample ID **CCV3-150921** Batch ID: **R81807** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150921A** Analysis Date: **9/21/2015 2:22:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.209	0.00500	0.200	0	105	90	110			
Barium	0.210	0.0100	0.200	0	105	90	110			
Cadmium	0.210	0.00100	0.200	0	105	90	110			
Chromium	0.215	0.00500	0.200	0	107	90	110			
Lead	0.208	0.00100	0.200	0	104	90	110			
Selenium	0.197	0.00500	0.200	0	98.5	90	110			
Silver	0.208	0.00200	0.200	0	104	90	110			

Sample ID **LCVL3-150921** Batch ID: **R81807** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150921A** Analysis Date: **9/21/2015 2:27:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00525	0.00500	0.00500	0	105	70	130			
Barium	0.00542	0.0100	0.00500	0	108	70	130			
Cadmium	0.00111	0.00100	0.00100	0	111	70	130			
Chromium	0.00546	0.00500	0.00500	0	109	70	130			
Lead	0.00117	0.00100	0.00100	0	117	70	130			
Selenium	0.00561	0.00500	0.00500	0	112	70	130			
Silver	0.00208	0.00200	0.00200	0	104	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_150923C

The QC data in batch 71546 applies to the following samples: 1509150-04A

Sample ID **MB-71546** Batch ID: **71546** TestNo: **SW6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS4_150923C** Analysis Date: **9/23/2015 11:34:00 AM** Prep Date: **9/22/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.00200	0.00500								
Barium	<0.00300	0.0100								
Cadmium	<0.000300	0.00100								
Chromium	<0.00200	0.00500								
Lead	<0.000300	0.00100								
Selenium	<0.00200	0.00500								
Silver	<0.00100	0.00200								

Sample ID **LCS-71546** Batch ID: **71546** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS4_150923C** Analysis Date: **9/23/2015 11:36:00 AM** Prep Date: **9/22/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.195	0.00500	0.200	0	97.5	80	120			
Barium	0.192	0.0100	0.200	0	96.0	80	120			
Cadmium	0.194	0.00100	0.200	0	97.2	80	120			
Chromium	0.200	0.00500	0.200	0	99.9	80	120			
Lead	0.197	0.00100	0.200	0	98.3	80	120			
Selenium	0.193	0.00500	0.200	0	96.6	80	120			
Silver	0.198	0.00200	0.200	0	99.1	80	120			

Sample ID **LCSD-71546** Batch ID: **71546** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS4_150923C** Analysis Date: **9/23/2015 11:38:00 AM** Prep Date: **9/22/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.196	0.00500	0.200	0	98.2	80	120	0.727	15	
Barium	0.197	0.0100	0.200	0	98.6	80	120	2.66	15	
Cadmium	0.199	0.00100	0.200	0	99.4	80	120	2.28	15	
Chromium	0.202	0.00500	0.200	0	101	80	120	0.890	15	
Lead	0.197	0.00100	0.200	0	98.6	80	120	0.291	15	
Selenium	0.194	0.00500	0.200	0	97.0	80	120	0.451	15	
Silver	0.197	0.00200	0.200	0	98.6	80	120	0.515	15	

Sample ID **1509155-05A SD** Batch ID: **71546** TestNo: **SW6020A** Units: **mg/L**
SampType: **SD** Run ID: **ICP-MS4_150923C** Analysis Date: **9/23/2015 11:44:00 AM** Prep Date: **9/22/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.0100	0.0250	0	0.00371				0	10	
Barium	0.205	0.0500	0	0.211				2.59	10	
Cadmium	<0.00150	0.00500	0	0				0	10	
Chromium	<0.0100	0.0250	0	0				0	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_150923C

Sample ID **1509155-05A SD** Batch ID: **71546** TestNo: **SW6020A** Units: **mg/L**
SampType: **SD** Run ID: **ICP-MS4_150923C** Analysis Date: **9/23/2015 11:44:00 AM** Prep Date: **9/22/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	<0.00150	0.00500	0	0				0	10	
Selenium	<0.0100	0.0250	0	0				0	10	
Silver	<0.00500	0.0100	0	0				0	10	

Sample ID **1509155-05A PDS** Batch ID: **71546** TestNo: **SW6020A** Units: **mg/L**
SampType: **PDS** Run ID: **ICP-MS4_150923C** Analysis Date: **9/23/2015 12:03:00 PM** Prep Date: **9/22/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.199	0.00500	0.200	0.00371	97.4	80	120			
Barium	0.396	0.0100	0.200	0.211	92.7	80	120			
Cadmium	0.197	0.00100	0.200	0	98.4	80	120			
Chromium	0.198	0.00500	0.200	0	98.8	80	120			
Lead	0.202	0.00100	0.200	0	101	80	120			
Selenium	0.189	0.00500	0.200	0	94.7	80	120			
Silver	0.198	0.00200	0.200	0	99.0	80	120			

Sample ID **1509155-05A MS** Batch ID: **71546** TestNo: **SW6020A** Units: **mg/L**
SampType: **MS** Run ID: **ICP-MS4_150923C** Analysis Date: **9/23/2015 12:05:00 PM** Prep Date: **9/22/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.201	0.00500	0.200	0.00371	98.7	80	120			
Barium	0.411	0.0100	0.200	0.211	100	80	120			
Cadmium	0.198	0.00100	0.200	0	98.9	80	120			
Chromium	0.196	0.00500	0.200	0	98.0	80	120			
Lead	0.198	0.00100	0.200	0	98.8	80	120			
Selenium	0.191	0.00500	0.200	0	95.3	80	120			
Silver	0.196	0.00200	0.200	0	97.8	80	120			

Sample ID **1509155-05A MSD** Batch ID: **71546** TestNo: **SW6020A** Units: **mg/L**
SampType: **MSD** Run ID: **ICP-MS4_150923C** Analysis Date: **9/23/2015 12:07:00 PM** Prep Date: **9/22/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.201	0.00500	0.200	0.00371	98.5	80	120	0.244	15	
Barium	0.413	0.0100	0.200	0.211	101	80	120	0.270	15	
Cadmium	0.199	0.00100	0.200	0	99.6	80	120	0.659	15	
Chromium	0.196	0.00500	0.200	0	98.1	80	120	0.066	15	
Lead	0.196	0.00100	0.200	0	98.0	80	120	0.873	15	
Selenium	0.186	0.00500	0.200	0	92.8	80	120	2.64	15	
Silver	0.196	0.00200	0.200	0	97.8	80	120	0.081	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_150923C

Sample ID **ICV-150923** Batch ID: **R81848** TestNo: **SW6020A** Units: **mg/L**
SampType: **ICV** Run ID: **ICP-MS4_150923C** Analysis Date: **9/23/2015 10:45:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.100	0.00500	0.100	0	100	90	110			
Barium	0.0996	0.0100	0.100	0	99.6	90	110			
Cadmium	0.100	0.00100	0.100	0	100	90	110			
Chromium	0.104	0.00500	0.100	0	104	90	110			
Lead	0.100	0.00100	0.100	0	100	90	110			
Selenium	0.0994	0.00500	0.100	0	99.4	90	110			
Silver	0.101	0.00200	0.100	0	101	90	110			

Sample ID **LCVL-150923** Batch ID: **R81848** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150923C** Analysis Date: **9/23/2015 10:50:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00527	0.00500	0.00500	0	105	70	130			
Barium	0.00508	0.0100	0.00500	0	102	70	130			
Cadmium	0.00103	0.00100	0.00100	0	103	70	130			
Chromium	0.00531	0.00500	0.00500	0	106	70	130			
Lead	0.00106	0.00100	0.00100	0	106	70	130			
Selenium	0.00531	0.00500	0.00500	0	106	70	130			
Silver	0.00203	0.00200	0.00200	0	101	70	130			

Sample ID **CCV1-150923** Batch ID: **R81848** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150923C** Analysis Date: **9/23/2015 11:17:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.200	0.00500	0.200	0	100	90	110			
Barium	0.202	0.0100	0.200	0	101	90	110			
Cadmium	0.202	0.00100	0.200	0	101	90	110			
Chromium	0.202	0.00500	0.200	0	101	90	110			
Lead	0.201	0.00100	0.200	0	100	90	110			
Selenium	0.197	0.00500	0.200	0	98.4	90	110			
Silver	0.207	0.00200	0.200	0	103	90	110			

Sample ID **LCVL1-150923** Batch ID: **R81848** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150923C** Analysis Date: **9/23/2015 11:27:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00525	0.00500	0.00500	0	105	70	130			
Barium	0.00530	0.0100	0.00500	0	106	70	130			
Cadmium	0.00106	0.00100	0.00100	0	106	70	130			
Chromium	0.00544	0.00500	0.00500	0	109	70	130			
Lead	0.00102	0.00100	0.00100	0	102	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_150923C

Sample ID **LCVL1-150923** Batch ID: **R81848** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150923C** Analysis Date: **9/23/2015 11:27:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.00503	0.00500	0.00500	0	101	70	130			
Silver	0.00210	0.00200	0.00200	0	105	70	130			

Sample ID **CCV2-150923** Batch ID: **R81848** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150923C** Analysis Date: **9/23/2015 12:09:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.199	0.00500	0.200	0	99.5	90	110			
Barium	0.201	0.0100	0.200	0	100	90	110			
Cadmium	0.202	0.00100	0.200	0	101	90	110			
Chromium	0.205	0.00500	0.200	0	102	90	110			
Lead	0.201	0.00100	0.200	0	100	90	110			
Selenium	0.195	0.00500	0.200	0	97.3	90	110			
Silver	0.206	0.00200	0.200	0	103	90	110			

Sample ID **LCVL2-150923** Batch ID: **R81848** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_150923C** Analysis Date: **9/23/2015 12:14:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00520	0.00500	0.00500	0	104	70	130			
Barium	0.00520	0.0100	0.00500	0	104	70	130			
Cadmium	0.00103	0.00100	0.00100	0	103	70	130			
Chromium	0.00541	0.00500	0.00500	0	108	70	130			
Lead	0.00103	0.00100	0.00100	0	103	70	130			
Selenium	0.00490	0.00500	0.00500	0	98.0	70	130			
Silver	0.00207	0.00200	0.00200	0	103	70	130			

Sample ID **CCV3-150923** Batch ID: **R81848** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_150923C** Analysis Date: **9/23/2015 12:36:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.195	0.00500	0.200	0	97.7	90	110			
Barium	0.200	0.0100	0.200	0	100	90	110			
Cadmium	0.205	0.00100	0.200	0	102	90	110			
Chromium	0.205	0.00500	0.200	0	102	90	110			
Lead	0.199	0.00100	0.200	0	99.5	90	110			
Selenium	0.192	0.00500	0.200	0	95.9	90	110			
Silver	0.208	0.00200	0.200	0	104	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_150923C

Sample ID	**LCVL3-150923**	Batch ID:	**R81848**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150923C**	Analysis Date:	**9/23/2015 12:40:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00490	0.00500	0.00500	0	97.9	70	130			
Barium	0.00510	0.0100	0.00500	0	102	70	130			
Cadmium	0.000975	0.00100	0.00100	0	97.5	70	130			
Chromium	0.00525	0.00500	0.00500	0	105	70	130			
Lead	0.000958	0.00100	0.00100	0	95.8	70	130			
Selenium	0.00499	0.00500	0.00500	0	99.7	70	130			
Silver	0.00200	0.00200	0.00200	0	100	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_150925A**

Sample ID	**ICV-150925**	Batch ID:	**R81893**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**ICP-MS4_150925A**	Analysis Date:	**9/25/2015 2:24:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0989	0.0100	0.100	0	98.8	90	110			

Sample ID	**LCVL-150925**	Batch ID:	**R81893**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150925A**	Analysis Date:	**9/25/2015 2:29:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00511	0.0100	0.00500	0	102	70	130			

Sample ID	**CCV1-150925**	Batch ID:	**R81893**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_150925A**	Analysis Date:	**9/25/2015 3:02:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.197	0.0100	0.200	0	98.3	90	110			

Sample ID	**LCVL1-150925**	Batch ID:	**R81893**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_150925A**	Analysis Date:	**9/25/2015 3:07:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00475	0.0100	0.00500	0	95.0	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_151001B**

The QC data in batch 71693 applies to the following samples: 1509150-01A

Sample ID **MB-71693** Batch ID: **71693** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS4_151001B** Analysis Date: **10/1/2015 12:42:00 PM** Prep Date: **9/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Lead	<0.100	0.300								
Selenium	<0.150	0.500								
Silver	<0.100	0.200								

Sample ID **LCS-71693** Batch ID: **71693** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS4_151001B** Analysis Date: **10/1/2015 12:46:00 PM** Prep Date: **9/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	48.9	1.00	50.00	0	97.9	80	120			
Barium	49.2	2.00	50.00	0	98.4	80	120			
Cadmium	49.3	0.300	50.00	0	98.7	80	120			
Chromium	52.0	2.00	50.00	0	104	80	120			
Lead	50.0	0.300	50.00	0	100	80	120			
Selenium	48.6	0.500	50.00	0	97.1	80	120			
Silver	49.0	0.200	50.00	0	98.1	80	120			

Sample ID **LCSD-71693** Batch ID: **71693** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS4_151001B** Analysis Date: **10/1/2015 12:48:00 PM** Prep Date: **9/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	48.0	1.00	50.00	0	96.1	80	120	1.85	20	
Barium	49.4	2.00	50.00	0	98.9	80	120	0.490	20	
Cadmium	49.7	0.300	50.00	0	99.4	80	120	0.786	20	
Chromium	51.3	2.00	50.00	0	103	80	120	1.24	20	
Lead	49.8	0.300	50.00	0	99.5	80	120	0.481	20	
Selenium	47.6	0.500	50.00	0	95.2	80	120	1.98	20	
Silver	49.5	0.200	50.00	0	99.0	80	120	0.958	20	

Sample ID **1509284-08A SD** Batch ID: **71693** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS4_151001B** Analysis Date: **10/1/2015 12:54:00 PM** Prep Date: **9/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<2.32	4.64	0	1.792				0	10	
Barium	59.1	9.29	0	59.69				0.970	10	
Cadmium	<0.464	1.39	0	0				0	10	
Chromium	4.38	9.29	0	4.300				1.86	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151001B

Sample ID **1509284-08A SD** Batch ID: **71693** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS4_151001B** Analysis Date: **10/1/2015 12:54:00 PM** Prep Date: **9/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	5.64	1.39	0	5.653				0.177	10	
Selenium	0.710	2.32	0	0.5233				30.3	10	R
Silver	<0.464	0.929	0	0				0	10	

Sample ID **1509284-08A PDS** Batch ID: **71693** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **ICP-MS4_151001B** Analysis Date: **10/1/2015 1:13:00 PM** Prep Date: **9/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	47.9	0.929	46.44	1.792	99.2	80	120			
Barium	106	1.86	46.44	59.69	99.8	80	120			
Cadmium	46.2	0.279	46.44	0	99.5	80	120			
Chromium	53.3	1.86	46.44	4.300	106	80	120			
Lead	53.1	0.279	46.44	5.653	102	80	120			
Selenium	45.4	0.464	46.44	0.5233	96.7	80	120			
Silver	47.2	0.186	46.44	0	102	80	120			

Sample ID **1509284-08A MS** Batch ID: **71693** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **ICP-MS4_151001B** Analysis Date: **10/1/2015 1:15:00 PM** Prep Date: **9/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	58.3	1.15	57.41	1.792	98.4	80	120			
Barium	121	2.30	57.41	59.69	106	80	120			
Cadmium	58.5	0.344	57.41	0	102	80	120			
Chromium	64.0	2.30	57.41	4.300	104	80	120			
Lead	62.2	0.344	57.41	5.653	98.5	80	120			
Selenium	55.6	0.574	57.41	0.5233	96.0	80	120			
Silver	58.1	0.230	57.41	0	101	80	120			

Sample ID **1509284-08A MSD** Batch ID: **71693** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **ICP-MS4_151001B** Analysis Date: **10/1/2015 1:17:00 PM** Prep Date: **9/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	59.4	1.15	57.41	1.792	100	80	120	1.86	20	
Barium	121	2.30	57.41	59.69	106	80	120	0.189	20	
Cadmium	58.9	0.344	57.41	0	103	80	120	0.634	20	
Chromium	65.4	2.30	57.41	4.300	106	80	120	2.07	20	
Lead	64.2	0.344	57.41	5.653	102	80	120	3.10	20	
Selenium	56.6	0.574	57.41	0.5233	97.7	80	120	1.74	20	
Silver	58.5	0.230	57.41	0	102	80	120	0.679	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151001B

Sample ID **ICV-151001** Batch ID: **R81982** TestNo: **SW6020A** Units: **mg/L**
SampType: **ICV** Run ID: **ICP-MS4_151001B** Analysis Date: **10/1/2015 11:49:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.102	0.00500	0.100	0	102	90	110			
Barium	0.103	0.0100	0.100	0	103	90	110			
Cadmium	0.103	0.00100	0.100	0	103	90	110			
Chromium	0.108	0.00500	0.100	0	108	90	110			
Lead	0.105	0.00100	0.100	0	105	90	110			
Selenium	0.102	0.00500	0.100	0	102	90	110			
Silver	0.101	0.00200	0.100	0	101	90	110			

Sample ID **LCVL-151001** Batch ID: **R81982** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_151001B** Analysis Date: **10/1/2015 11:53:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00530	0.00500	0.00500	0	106	70	130			
Barium	0.00511	0.0100	0.00500	0	102	70	130			
Cadmium	0.00104	0.00100	0.00100	0	104	70	130			
Chromium	0.00540	0.00500	0.00500	0	108	70	130			
Lead	0.00110	0.00100	0.00100	0	110	70	130			
Selenium	0.00528	0.00500	0.00500	0	106	70	130			
Silver	0.00199	0.00200	0.00200	0	99.6	70	130			

Sample ID **CCV1-151001** Batch ID: **R81982** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_151001B** Analysis Date: **10/1/2015 12:27:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.197	0.00500	0.200	0	98.5	90	110			
Barium	0.198	0.0100	0.200	0	98.8	90	110			
Cadmium	0.198	0.00100	0.200	0	99.1	90	110			
Chromium	0.202	0.00500	0.200	0	101	90	110			
Lead	0.197	0.00100	0.200	0	98.6	90	110			
Selenium	0.199	0.00500	0.200	0	99.5	90	110			
Silver	0.200	0.00200	0.200	0	99.8	90	110			

Sample ID **LCVL1-151001** Batch ID: **R81982** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_151001B** Analysis Date: **10/1/2015 12:31:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00530	0.00500	0.00500	0	106	70	130			
Barium	0.00497	0.0100	0.00500	0	99.4	70	130			
Cadmium	0.00106	0.00100	0.00100	0	106	70	130			
Chromium	0.00526	0.00500	0.00500	0	105	70	130			
Lead	0.00114	0.00100	0.00100	0	114	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_151001B**

Sample ID **LCVL1-151001** Batch ID: **R81982** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_151001B** Analysis Date: **10/1/2015 12:31:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.00536	0.00500	0.00500	0	107	70	130			
Silver	0.00202	0.00200	0.00200	0	101	70	130			

Sample ID **CCV2-151001** Batch ID: **R81982** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_151001B** Analysis Date: **10/1/2015 1:19:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.196	0.00500	0.200	0	97.9	90	110			
Barium	0.195	0.0100	0.200	0	97.7	90	110			
Cadmium	0.197	0.00100	0.200	0	98.7	90	110			
Chromium	0.203	0.00500	0.200	0	102	90	110			
Lead	0.199	0.00100	0.200	0	99.6	90	110			
Selenium	0.190	0.00500	0.200	0	95.2	90	110			
Silver	0.201	0.00200	0.200	0	100	90	110			

Sample ID **LCVL2-151001** Batch ID: **R81982** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_151001B** Analysis Date: **10/1/2015 1:30:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00511	0.00500	0.00500	0	102	70	130			
Barium	0.00513	0.0100	0.00500	0	103	70	130			
Cadmium	0.00100	0.00100	0.00100	0	100	70	130			
Chromium	0.00531	0.00500	0.00500	0	106	70	130			
Lead	0.00127	0.00100	0.00100	0	127	70	130			
Selenium	0.00480	0.00500	0.00500	0	95.9	70	130			
Silver	0.00205	0.00200	0.00200	0	102	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150818A

Sample ID	DCS-71004	Batch ID:	71004	TestNo:	SW8270D-LL	Units:	mg/L
SampType:	DCS	Run ID:	GCMS6_150818A	Analysis Date:	8/18/2015 3:04:00 PM	Prep Date:	8/17/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0000270	0.0000500	0.0000400	0	67.4	20	200	0	0	
Acenaphthylene	0.0000282	0.0000500	0.0000400	0	70.4	20	200	0	0	
Anthracene	0.0000293	0.0000500	0.0000400	0	73.2	20	200	0	0	
Benzo[a]anthracene	0.0000326	0.0000500	0.0000400	0	81.6	20	200	0	0	
Benzo[a]pyrene	0.0000302	0.0000500	0.0000400	0	75.4	20	200	0	0	
Benzo[b]fluoranthene	0.0000336	0.0000500	0.0000400	0	83.9	20	200	0	0	
Benzo[g,h,i]perylene	0.0000338	0.0000500	0.0000400	0	84.6	20	200	0	0	
Benzo[k]fluoranthene	0.0000327	0.0000500	0.0000400	0	81.7	20	200	0	0	
Chrysene	0.0000338	0.0000500	0.0000400	0	84.4	20	200	0	0	
Dibenz[a,h]anthracene	0.0000323	0.0000500	0.0000400	0	80.8	20	200	0	0	
Fluoranthene	0.0000341	0.0000500	0.0000400	0	85.3	20	200	0	0	
Fluorene	0.0000300	0.0000500	0.0000400	0	75.1	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.0000328	0.0000500	0.0000400	0	82.0	20	200	0	0	
Naphthalene	0.0000307	0.0000500	0.0000400	0	76.8	20	200	0	0	
Phenanthrene	0.0000324	0.0000500	0.0000400	0	80.9	20	200	0	0	
Pyrene	0.0000369	0.0000500	0.0000400	0	92.2	20	200	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150910A

Sample ID	DCS-71376	Batch ID:	71376	TestNo:	SW8270D-LL	Units:	mg/Kg
SampType:	DCS	Run ID:	GCMS6_150910A	Analysis Date:	9/10/2015 6:11:00 PM	Prep Date:	9/10/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00626	0.0500	0.01000	0	62.6	20	200	0	0	
Acenaphthylene	0.00625	0.0500	0.01000	0	62.5	20	200	0	0	
Anthracene	0.00713	0.0500	0.01000	0	71.3	20	200	0	0	
Benzo[a]anthracene	0.00796	0.0500	0.01000	0	79.6	20	200	0	0	
Benzo[a]pyrene	0.00783	0.0500	0.01000	0	78.3	20	200	0	0	
Benzo[b]fluoranthene	0.00825	0.0500	0.01000	0	82.5	20	200	0	0	
Benzo[g,h,i]perylene	0.00773	0.0500	0.01000	0	77.3	20	200	0	0	
Benzo[k]fluoranthene	0.00771	0.0500	0.01000	0	77.1	20	200	0	0	
Chrysene	0.00784	0.0500	0.01000	0	78.4	20	200	0	0	
Dibenz[a,h]anthracene	0.00747	0.0500	0.01000	0	74.7	20	200	0	0	
Fluoranthene	0.00799	0.0500	0.01000	0	79.9	20	200	0	0	
Fluorene	0.00667	0.0500	0.01000	0	66.7	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.00763	0.0500	0.01000	0	76.3	20	200	0	0	
Naphthalene	0.00639	0.0500	0.01000	0	63.9	20	200	0	0	
Phenanthrene	0.00776	0.0500	0.01000	0	77.6	20	200	0	0	
Pyrene	0.00821	0.0500	0.01000	0	82.1	20	200	0	0	
Surr: 2-Fluorobiphenyl	0.722		1.000		72.2	43	125	0	0	
Surr: 4-Terphenyl-d14	0.787		1.000		78.7	32	125	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150921A

The QC data in batch 71517 applies to the following samples: 1509150-04B

Sample ID **LCS-71517** Batch ID: **71517** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS6_150921A** Analysis Date: **9/21/2015 6:50:00 PM** Prep Date: **9/18/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00307	0.0000500	0.00400	0	76.7	47	120			
Acenaphthylene	0.00314	0.0000500	0.00400	0	78.4	50	120			
Anthracene	0.00318	0.0000500	0.00400	0	79.4	54	120			
Benzo[a]anthracene	0.00367	0.0000500	0.00400	0	91.8	56	100			
Benzo[a]pyrene	0.00365	0.0000500	0.00400	0	91.2	53	120			
Benzo[b]fluoranthene	0.00380	0.0000500	0.00400	0	95.0	45	124			
Benzo[g,h,i]perylene	0.00359	0.0000500	0.00400	0	89.8	38	123			
Benzo[k]fluoranthene	0.00370	0.0000500	0.00400	0	92.5	45	124			
Chrysene	0.00362	0.0000500	0.00400	0	90.5	55	120			
Dibenz[a,h]anthracene	0.00353	0.0000500	0.00400	0	88.2	42	127			
Fluoranthene	0.00360	0.0000500	0.00400	0	90.0	54	120			
Fluorene	0.00319	0.0000500	0.00400	0	79.8	50	120			
Indeno[1,2,3-cd]pyrene	0.00365	0.0000500	0.00400	0	91.2	43	125			
Naphthalene	0.00288	0.0000500	0.00400	0	71.9	39	120			
Phenanthrene	0.00326	0.0000500	0.00400	0	81.4	51	120			
Pyrene	0.00374	0.0000500	0.00400	0	93.4	49	128			
Surr: 2-Fluorobiphenyl	5.37		8.000		67.2	48	120			
Surr: 4-Terphenyl-d14	5.89		8.000		73.6	51	135			

Sample ID **LCSD-71517** Batch ID: **71517** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **LCSD** Run ID: **GCMS6_150921A** Analysis Date: **9/21/2015 7:31:00 PM** Prep Date: **9/18/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00299	0.0000500	0.00400	0	74.7	47	120	2.59	20	
Acenaphthylene	0.00299	0.0000500	0.00400	0	74.9	50	120	4.64	20	
Anthracene	0.00308	0.0000500	0.00400	0	77.0	54	120	3.05	20	
Benzo[a]anthracene	0.00353	0.0000500	0.00400	0	88.3	56	100	3.94	20	
Benzo[a]pyrene	0.00351	0.0000500	0.00400	0	87.7	53	120	3.90	20	
Benzo[b]fluoranthene	0.00365	0.0000500	0.00400	0	91.3	45	124	3.95	20	
Benzo[g,h,i]perylene	0.00346	0.0000500	0.00400	0	86.6	38	123	3.61	20	
Benzo[k]fluoranthene	0.00360	0.0000500	0.00400	0	90.0	45	124	2.69	20	
Chrysene	0.00346	0.0000500	0.00400	0	86.6	55	120	4.44	20	
Dibenz[a,h]anthracene	0.00342	0.0000500	0.00400	0	85.5	42	127	3.20	20	
Fluoranthene	0.00354	0.0000500	0.00400	0	88.4	54	120	1.80	20	
Fluorene	0.00308	0.0000500	0.00400	0	77.0	50	120	3.67	20	
Indeno[1,2,3-cd]pyrene	0.00352	0.0000500	0.00400	0	88.1	43	125	3.48	20	
Naphthalene	0.00278	0.0000500	0.00400	0	69.4	39	120	3.54	20	
Phenanthrene	0.00319	0.0000500	0.00400	0	79.6	51	120	2.23	20	
Pyrene	0.00366	0.0000500	0.00400	0	91.5	49	128	2.05	20	
Surr: 2-Fluorobiphenyl	5.30		8.000		66.3	48	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150921A

Sample ID	LCSD-71517	Batch ID:	71517	TestNo:	SW8270D-LL	Units:	mg/L
SampType:	LCSD	Run ID:	GCMS6_150921A	Analysis Date:	9/21/2015 7:31:00 PM	Prep Date:	9/18/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	5.78		8.000		72.3	51	135	0	0	

Sample ID	MB-71517	Batch ID:	71517	TestNo:	SW8270D-LL	Units:	mg/L
SampType:	MBLK	Run ID:	GCMS6_150921A	Analysis Date:	9/21/2015 8:52:00 PM	Prep Date:	9/18/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.0000250	0.0000500								
Acenaphthylene	<0.0000250	0.0000500								
Anthracene	<0.0000250	0.0000500								
Benzo[a]anthracene	<0.0000250	0.0000500								
Benzo[a]pyrene	<0.0000250	0.0000500								
Benzo[b]fluoranthene	<0.0000250	0.0000500								
Benzo[g,h,i]perylene	<0.0000250	0.0000500								
Benzo[k]fluoranthene	<0.0000250	0.0000500								
Chrysene	<0.0000250	0.0000500								
Dibenz[a,h]anthracene	<0.0000250	0.0000500								
Fluoranthene	<0.0000250	0.0000500								
Fluorene	<0.0000250	0.0000500								
Indeno[1,2,3-cd]pyrene	<0.0000250	0.0000500								
Naphthalene	<0.0000250	0.0000500								
Phenanthrene	<0.0000250	0.0000500								
Pyrene	<0.0000250	0.0000500								
Surr: 2-Fluorobiphenyl	5.08		8.000		63.4	48	120			
Surr: 4-Terphenyl-d14	5.64		8.000		70.5	51	135			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150921A

Sample ID	ICV-150921	Batch ID:	R81826	TestNo:	SW8270D-LL	Units:	mg/L
SampType:	ICV	Run ID:	GCMS6_150921A	Analysis Date:	9/21/2015 12:45:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.94	0.0000500	2.00	0	96.8	80	120			
Acenaphthylene	1.99	0.0000500	2.00	0	99.3	80	120			
Anthracene	1.88	0.0000500	2.00	0	93.9	80	120			
Benzo[a]anthracene	1.97	0.0000500	2.00	0	98.4	80	120			
Benzo[a]pyrene	1.96	0.0000500	2.00	0	97.9	80	120			
Benzo[b]fluoranthene	2.06	0.0000500	2.00	0	103	80	120			
Benzo[g,h,i]perylene	1.93	0.0000500	2.00	0	96.4	80	120			
Benzo[k]fluoranthene	1.99	0.0000500	2.00	0	99.4	80	120			
Chrysene	1.92	0.0000500	2.00	0	95.9	80	120			
Dibenz[a,h]anthracene	1.87	0.0000500	2.00	0	93.7	80	120			
Fluoranthene	2.05	0.0000500	2.00	0	102	80	120			
Fluorene	1.96	0.0000500	2.00	0	98.1	80	120			
Indeno[1,2,3-cd]pyrene	1.95	0.0000500	2.00	0	97.4	80	120			
Naphthalene	1.90	0.0000500	2.00	0	95.1	80	120			
Phenanthrene	1.95	0.0000500	2.00	0	97.3	80	120			
Pyrene	2.13	0.0000500	2.00	0	106	80	120			
Surr: 2-Fluorobiphenyl	1940		2000		97.2	65	120			
Surr: 4-Terphenyl-d14	1920		2000		96.1	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150921B

The QC data in batch 71521 applies to the following samples: 1509150-02A, 1509150-08A

Sample ID **LCS-71521** Batch ID: **71521** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS6_150921B** Analysis Date: **9/21/2015 1:25:00 PM** Prep Date: **9/21/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.926	0.0100	1.000	0	92.6	46	125			
Acenaphthylene	0.908	0.0100	1.000	0	90.8	44	125			
Anthracene	0.901	0.0100	1.000	0	90.1	53	125			
Benzo[a]anthracene	0.977	0.0100	1.000	0	97.7	52	125			
Benzo[a]pyrene	0.960	0.0100	1.000	0	96.0	50	125			
Benzo[b]fluoranthene	0.998	0.0100	1.000	0	99.8	45	125			
Benzo[g,h,i]perylene	0.967	0.0100	1.000	0	96.7	38	126			
Benzo[k]fluoranthene	1.01	0.0100	1.000	0	101	45	125			
Chrysene	0.960	0.0100	1.000	0	96.0	53	125			
Dibenz[a,h]anthracene	0.930	0.0100	1.000	0	93.0	41	125			
Fluoranthene	1.02	0.0100	1.000	0	102	54	125			
Fluorene	0.948	0.0100	1.000	0	94.8	49	125			
Indeno[1,2,3-cd]pyrene	0.966	0.0100	1.000	0	96.6	38	125			
Naphthalene	0.836	0.0100	1.000	0	83.6	40	125			
Phenanthrene	0.965	0.0100	1.000	0	96.5	50	125			
Pyrene	1.06	0.0100	1.000	0	106	46	125			
Surr: 2-Fluorobiphenyl	0.680		1.000		68.0	43	125			
Surr: 4-Terphenyl-d14	0.880		1.000		88.0	32	125			

Sample ID **MB-71521** Batch ID: **71521** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS6_150921B** Analysis Date: **9/21/2015 2:06:00 PM** Prep Date: **9/21/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100								
Acenaphthylene	<0.00500	0.0100								
Anthracene	<0.00500	0.0100								
Benzo[a]anthracene	<0.00500	0.0100								
Benzo[a]pyrene	<0.00500	0.0100								
Benzo[b]fluoranthene	<0.00500	0.0100								
Benzo[g,h,i]perylene	<0.00500	0.0100								
Benzo[k]fluoranthene	<0.00500	0.0100								
Chrysene	<0.00500	0.0100								
Dibenz[a,h]anthracene	<0.00500	0.0100								
Fluoranthene	<0.00500	0.0100								
Fluorene	<0.00500	0.0100								
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100								
Naphthalene	<0.00500	0.0100								
Phenanthrene	<0.00500	0.0100								
Pyrene	<0.00500	0.0100								
Surr: 2-Fluorobiphenyl	0.794		1.000		79.4	43	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150921B

Sample ID	MB-71521	Batch ID:	71521	TestNo:	SW8270D-LL	Units:	mg/Kg
SampType:	MBLK	Run ID:	GCMS6_150921B	Analysis Date:	9/21/2015 2:06:00 PM	Prep Date:	9/21/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	0.822		1.000		82.2	32	125			

Sample ID	1509150-02AMS	Batch ID:	71521	TestNo:	SW8270D-LL	Units:	mg/Kg-dry
SampType:	MS	Run ID:	GCMS6_150921B	Analysis Date:	9/21/2015 4:49:00 PM	Prep Date:	9/21/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.08	0.0121	1.211	0.008396	88.2	46	125			
Acenaphthylene	1.10	0.0121	1.211	0.02382	88.6	44	125			
Anthracene	1.07	0.0121	1.211	0.03781	85.2	53	125			
Benzo[a]anthracene	1.39	0.0121	1.211	0.2297	95.4	52	125			
Benzo[a]pyrene	1.44	0.0121	1.211	0.3178	92.8	50	125			
Benzo[b]fluoranthene	1.56	0.0121	1.211	0.3608	99.1	45	125			
Benzo[g,h,i]perylene	1.42	0.0121	1.211	0.3044	91.8	38	126			
Benzo[k]fluoranthene	1.26	0.0121	1.211	0.1664	90.7	45	125			
Chrysene	1.49	0.0121	1.211	0.3314	95.3	53	125			
Dibenz[a,h]anthracene	1.11	0.0121	1.211	0.06072	87.0	41	125			
Fluoranthene	1.81	0.0121	1.211	0.5636	103	54	125			
Fluorene	1.16	0.0121	1.211	0.01147	94.8	49	125			
Indeno[1,2,3-cd]pyrene	1.36	0.0121	1.211	0.2420	92.6	38	125			
Naphthalene	0.946	0.0121	1.211	0	78.1	40	125			
Phenanthrene	1.27	0.0121	1.211	0.1580	92.0	50	125			
Pyrene	1.74	0.0121	1.211	0.4916	103	46	125			
Surr: 2-Fluorobiphenyl	0.855		1.211		70.6	43	125			
Surr: 4-Terphenyl-d14	0.869		1.211		71.7	32	125			

Sample ID	1509150-02AMSD	Batch ID:	71521	TestNo:	SW8270D-LL	Units:	mg/Kg-dry
SampType:	MSD	Run ID:	GCMS6_150921B	Analysis Date:	9/21/2015 5:30:00 PM	Prep Date:	9/21/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.09	0.0122	1.217	0.008396	89.3	46	125	1.65	30	
Acenaphthylene	1.13	0.0122	1.217	0.02382	90.9	44	125	2.94	30	
Anthracene	1.11	0.0122	1.217	0.03781	88.2	53	125	3.80	30	
Benzo[a]anthracene	1.42	0.0122	1.217	0.2297	97.5	52	125	2.21	30	
Benzo[a]pyrene	1.51	0.0122	1.217	0.3178	97.8	50	125	4.44	30	
Benzo[b]fluoranthene	1.62	0.0122	1.217	0.3608	103	45	125	3.51	30	
Benzo[g,h,i]perylene	1.50	0.0122	1.217	0.3044	98.4	38	126	5.88	30	
Benzo[k]fluoranthene	1.32	0.0122	1.217	0.1664	95.0	45	125	4.50	30	
Chrysene	1.54	0.0122	1.217	0.3314	98.9	53	125	3.32	30	
Dibenz[a,h]anthracene	1.16	0.0122	1.217	0.06072	90.5	41	125	4.20	30	
Fluoranthene	1.84	0.0122	1.217	0.5636	105	54	125	1.33	30	
Fluorene	1.19	0.0122	1.217	0.01147	96.4	49	125	2.17	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150921B

Sample ID **1509150-02AMSD**	Batch ID: **71521**	TestNo: **SW8270D-LL**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GCMS6_150921B**	Analysis Date: **9/21/2015 5:30:00 PM**	Prep Date: **9/21/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Indeno[1,2,3-cd]pyrene	1.44	0.0122	1.217	0.2420	98.3	38	125	5.27	30	
Naphthalene	0.999	0.0122	1.217	0	82.1	40	125	5.46	30	
Phenanthrene	1.31	0.0122	1.217	0.1580	94.3	50	125	2.61	30	
Pyrene	1.80	0.0122	1.217	0.4916	107	46	125	3.17	30	
Surr: 2-Fluorobiphenyl	0.884		1.217		72.7	43	125	0	0	
Surr: 4-Terphenyl-d14	0.931		1.217		76.5	32	125	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150921B

Sample ID	ICV-150921	Batch ID:	R81827	TestNo:	SW8270D-LL	Units:	mg/Kg
SampType:	ICV	Run ID:	GCMS6_150921B	Analysis Date:	9/21/2015 12:45:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.94	0.0100	2.000	0	96.8	80	120			
Acenaphthylene	1.99	0.0100	2.000	0	99.3	80	120			
Anthracene	1.88	0.0100	2.000	0	93.9	80	120			
Benzo[a]anthracene	1.97	0.0100	2.000	0	98.4	80	120			
Benzo[a]pyrene	1.96	0.0100	2.000	0	97.9	80	120			
Benzo[b]fluoranthene	2.06	0.0100	2.000	0	103	80	120			
Benzo[g,h,i]perylene	1.93	0.0100	2.000	0	96.4	80	120			
Benzo[k]fluoranthene	1.99	0.0100	2.000	0	99.4	80	120			
Chrysene	1.92	0.0100	2.000	0	95.9	80	120			
Dibenz[a,h]anthracene	1.87	0.0100	2.000	0	93.7	80	120			
Fluoranthene	2.05	0.0100	2.000	0	102	80	120			
Fluorene	1.96	0.0100	2.000	0	98.1	80	120			
Indeno[1,2,3-cd]pyrene	1.95	0.0100	2.000	0	97.4	80	120			
Naphthalene	1.90	0.0100	2.000	0	95.1	80	120			
Phenanthrene	1.95	0.0100	2.000	0	97.3	80	120			
Pyrene	2.13	0.0100	2.000	0	106	80	120			
Surr: 2-Fluorobiphenyl	1.94		2.000		97.2	65	120			
Surr: 4-Terphenyl-d14	1.92		2.000		96.1	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150930D

The QC data in batch 71677 applies to the following samples: 1509150-01A

Sample ID **LCS-71677** Batch ID: **71677** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS6_150930D** Analysis Date: **9/30/2015 5:33:00 PM** Prep Date: **9/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.923	0.0100	1.000	0	92.3	46	125			
Acenaphthylene	0.931	0.0100	1.000	0	93.1	44	125			
Anthracene	0.963	0.0100	1.000	0	96.3	53	125			
Benzo[a]anthracene	1.06	0.0100	1.000	0	106	52	125			
Benzo[a]pyrene	1.06	0.0100	1.000	0	106	50	125			
Benzo[b]fluoranthene	1.10	0.0100	1.000	0	110	45	125			
Benzo[g,h,i]perylene	1.07	0.0100	1.000	0	107	38	126			
Benzo[k]fluoranthene	1.10	0.0100	1.000	0	110	45	125			
Chrysene	1.05	0.0100	1.000	0	105	53	125			
Dibenz[a,h]anthracene	1.01	0.0100	1.000	0	101	41	125			
Fluoranthene	1.11	0.0100	1.000	0	111	54	125			
Fluorene	0.920	0.0100	1.000	0	92.0	49	125			
Indeno[1,2,3-cd]pyrene	1.07	0.0100	1.000	0	107	38	125			
Naphthalene	0.858	0.0100	1.000	0	85.8	40	125			
Phenanthrene	1.01	0.0100	1.000	0	101	50	125			
Pyrene	1.16	0.0100	1.000	0	116	46	125			
Surr: 2-Fluorobiphenyl	0.808		1.000		80.8	43	125			
Surr: 4-Terphenyl-d14	0.920		1.000		92.0	32	125			

Sample ID **MB-71677** Batch ID: **71677** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS6_150930D** Analysis Date: **9/30/2015 6:55:00 PM** Prep Date: **9/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100								
Acenaphthylene	<0.00500	0.0100								
Anthracene	<0.00500	0.0100								
Benzo[a]anthracene	<0.00500	0.0100								
Benzo[a]pyrene	<0.00500	0.0100								
Benzo[b]fluoranthene	<0.00500	0.0100								
Benzo[g,h,i]perylene	<0.00500	0.0100								
Benzo[k]fluoranthene	<0.00500	0.0100								
Chrysene	<0.00500	0.0100								
Dibenz[a,h]anthracene	<0.00500	0.0100								
Fluoranthene	<0.00500	0.0100								
Fluorene	<0.00500	0.0100								
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100								
Naphthalene	<0.00500	0.0100								
Phenanthrene	<0.00500	0.0100								
Pyrene	<0.00500	0.0100								
Surr: 2-Fluorobiphenyl	0.906		1.000		90.6	43	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150930D

Sample ID	MB-71677	Batch ID:	71677	TestNo:	SW8270D-LL	Units:	mg/Kg
SampType:	MBLK	Run ID:	GCMS6_150930D	Analysis Date:	9/30/2015 6:55:00 PM	Prep Date:	9/30/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	0.960		1.000		96.0	32	125			

Sample ID	1509219-03AMS	Batch ID:	71677	TestNo:	SW8270D-LL	Units:	mg/Kg
SampType:	MS	Run ID:	GCMS6_150930D	Analysis Date:	10/1/2015 2:18:00 AM	Prep Date:	9/30/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.959	0.0939	0.9390	0.1606	85.1	46	125			
Acenaphthylene	0.817	0.0939	0.9390	0	87.0	44	125			
Anthracene	0.882	0.0939	0.9390	0	93.9	53	125			
Benzo[a]anthracene	0.885	0.0939	0.9390	0	94.3	52	125			
Benzo[a]pyrene	0.861	0.0939	0.9390	0	91.7	50	125			
Benzo[b]fluoranthene	0.956	0.0939	0.9390	0.09016	92.2	45	125			
Benzo[g,h,i]perylene	0.861	0.0939	0.9390	0.05559	85.8	38	126			
Benzo[k]fluoranthene	0.845	0.0939	0.9390	0	90.0	45	125			
Chrysene	1.25	0.0939	0.9390	0.4471	85.8	53	125			
Dibenz[a,h]anthracene	0.796	0.0939	0.9390	0	84.8	41	125			
Fluoranthene	0.958	0.0939	0.9390	0.08997	92.4	54	125			
Fluorene	1.16	0.0939	0.9390	0.3559	86.0	49	125			
Indeno[1,2,3-cd]pyrene	0.834	0.0939	0.9390	0	88.8	38	125			
Naphthalene	0.806	0.0939	0.9390	0.1091	74.2	40	125			
Phenanthrene	2.00	0.0939	0.9390	1.262	78.4	50	125			
Pyrene	1.07	0.0939	0.9390	0.1559	97.3	46	125			
Surr: 2-Fluorobiphenyl	0.713		0.9390		75.9	43	125			
Surr: 4-Terphenyl-d14	0.705		0.9390		75.1	32	125			

Sample ID	1509219-03AMSD	Batch ID:	71677	TestNo:	SW8270D-LL	Units:	mg/Kg
SampType:	MSD	Run ID:	GCMS6_150930D	Analysis Date:	10/1/2015 2:58:00 AM	Prep Date:	9/30/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.06	0.0950	0.9497	0.1606	94.2	46	125	9.55	30	
Acenaphthylene	0.894	0.0950	0.9497	0	94.1	44	125	9.04	30	
Anthracene	0.928	0.0950	0.9497	0	97.7	53	125	5.09	30	
Benzo[a]anthracene	0.934	0.0950	0.9497	0	98.3	52	125	5.32	30	
Benzo[a]pyrene	0.898	0.0950	0.9497	0	94.6	50	125	4.21	30	
Benzo[b]fluoranthene	0.981	0.0950	0.9497	0.09016	93.8	45	125	2.59	30	
Benzo[g,h,i]perylene	0.912	0.0950	0.9497	0.05559	90.2	38	126	5.80	30	
Benzo[k]fluoranthene	0.897	0.0950	0.9497	0	94.5	45	125	6.05	30	
Chrysene	1.30	0.0950	0.9497	0.4471	89.4	53	125	3.37	30	
Dibenz[a,h]anthracene	0.834	0.0950	0.9497	0	87.8	41	125	4.59	30	
Fluoranthene	1.01	0.0950	0.9497	0.08997	97.1	54	125	5.52	30	
Fluorene	1.25	0.0950	0.9497	0.3559	94.4	49	125	7.34	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150930D

Sample ID **1509219-03AMSD**	Batch ID: **71677**	TestNo: **SW8270D-LL**	Units: **mg/Kg**
SampType: **MSD**	Run ID: **GCMS6_150930D**	Analysis Date: **10/1/2015 2:58:00 AM**	Prep Date: **9/30/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Indeno[1,2,3-cd]pyrene	0.881	0.0950	0.9497	0	92.7	38	125	5.44	30	
Naphthalene	0.884	0.0950	0.9497	0.1091	81.6	40	125	9.24	30	
Phenanthrene	2.12	0.0950	0.9497	1.262	90.2	50	125	5.82	30	
Pyrene	1.13	0.0950	0.9497	0.1559	102	46	125	5.44	30	
Surr: 2-Fluorobiphenyl	0.781		0.9497		82.3	43	125	0	0	
Surr: 4-Terphenyl-d14	0.750		0.9497		79.0	32	125	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150930D

Sample ID	ICV-150930	Batch ID:	R81968	TestNo:	SW8270D-LL	Units:	mg/Kg
SampType:	ICV	Run ID:	GCMS6_150930D	Analysis Date:	9/30/2015 4:53:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.95	0.0100	2.000	0	97.4	80	120			
Acenaphthylene	2.01	0.0100	2.000	0	101	80	120			
Anthracene	1.89	0.0100	2.000	0	94.5	80	120			
Benzo[a]anthracene	1.97	0.0100	2.000	0	98.4	80	120			
Benzo[a]pyrene	1.98	0.0100	2.000	0	98.8	80	120			
Benzo[b]fluoranthene	2.02	0.0100	2.000	0	101	80	120			
Benzo[g,h,i]perylene	1.97	0.0100	2.000	0	98.6	80	120			
Benzo[k]fluoranthene	2.01	0.0100	2.000	0	100	80	120			
Chrysene	1.94	0.0100	2.000	0	96.8	80	120			
Dibenz[a,h]anthracene	1.91	0.0100	2.000	0	95.6	80	120			
Fluoranthene	2.07	0.0100	2.000	0	104	80	120			
Fluorene	1.93	0.0100	2.000	0	96.5	80	120			
Indeno[1,2,3-cd]pyrene	2.00	0.0100	2.000	0	99.8	80	120			
Naphthalene	1.94	0.0100	2.000	0	96.9	80	120			
Phenanthrene	1.95	0.0100	2.000	0	97.7	80	120			
Pyrene	2.16	0.0100	2.000	0	108	80	120			
Surr: 2-Fluorobiphenyl	2.01		2.000		100	65	120			
Surr: 4-Terphenyl-d14	1.89		2.000		94.3	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_150917A**

The QC data in batch 71496 applies to the following samples: 1509150-02A, 1509150-03A, 1509150-05A, 1509150-06A, 1509150-07A, 1509150-08A

Sample ID	**1509150-08A-DUP**	Batch ID:	**71496**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_150917A**	Analysis Date:	**9/18/2015 9:00:00 AM**	Prep Date:	**9/17/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	22.5	0	0	21.97				2.25	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_150929A**

The QC data in batch 71656 applies to the following samples: 1509150-01A

Sample ID	**1509245-01A-DUP**	Batch ID:	**71656**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_150929A**	Analysis Date:	**9/30/2015 9:15:00 AM**	Prep Date:	**9/29/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	22.8	0	0	21.74				4.68	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

DHL Analytical, Inc.

Date: *01-Oct-15*

CLIENT: AECOM
Work Order: 1509150
Project: City of Galveston Incinerator

MQL SUMMARY REPORT

TestNo: SW7471B	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Mercury	0.0160	0.0400

TestNo: SW7470A	MDL	MQL
Analyte	**mg/L**	**mg/L**
Mercury	0.0000800	0.000200

TestNo: SW6020A	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Arsenic	0.500	1.00
Barium	0.500	2.00
Cadmium	0.100	0.300
Chromium	0.500	2.00
Lead	0.100	0.300
Selenium	0.150	0.500
Silver	0.100	0.200

TestNo: SW6020A	MDL	MQL
Analyte	**mg/L**	**mg/L**
Arsenic	0.00200	0.00500
Barium	0.00300	0.0100
Cadmium	0.000300	0.00100
Chromium	0.00200	0.00500
Lead	0.000300	0.00100
Selenium	0.00200	0.00500
Silver	0.00100	0.00200

TestNo: SW8270D-LL	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Acenaphthene	0.00500	0.0100
Acenaphthylene	0.00500	0.0100
Anthracene	0.00500	0.0100
Benzo[a]anthracene	0.00500	0.0100
Benzo[a]pyrene	0.00500	0.0100
Benzo[b]fluoranthene	0.00500	0.0100
Benzo[g,h,i]perylene	0.00500	0.0100
Benzo[k]fluoranthene	0.00500	0.0100
Chrysene	0.00500	0.0100
Dibenz[a,h]anthracene	0.00500	0.0100
Fluoranthene	0.00500	0.0100
Fluorene	0.00500	0.0100
Indeno[1,2,3-cd]pyrene	0.00500	0.0100
Naphthalene	0.00500	0.0100
Phenanthrene	0.00500	0.0100
Pyrene	0.00500	0.0100

TestNo: SW8270D-LL	MDL	MQL
Analyte	**mg/L**	**mg/L**
Acenaphthene	0.0000250	0.0000500
Acenaphthylene	0.0000250	0.0000500
Anthracene	0.0000250	0.0000500
Benzo[a]anthracene	0.0000250	0.0000500
Benzo[a]pyrene	0.0000250	0.0000500
Benzo[b]fluoranthene	0.0000250	0.0000500
Benzo[g,h,i]perylene	0.0000250	0.0000500
Benzo[k]fluoranthene	0.0000250	0.0000500
Chrysene	0.0000250	0.0000500
Dibenz[a,h]anthracene	0.0000250	0.0000500
Fluoranthene	0.0000250	0.0000500
Fluorene	0.0000250	0.0000500
Indeno[1,2,3-cd]pyrene	0.0000250	0.0000500
Naphthalene	0.0000250	0.0000500
Phenanthrene	0.0000250	0.0000500
Pyrene	0.0000250	0.0000500

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

January-February 2017

City of Galveston Incineration Site Sampling Event – January/February 2017 Data Usability Summary

This Data Usability Summary (DUS) contains the results of the data review for the analyses of samples collected by AECOM at the City of Galveston Incineration Site from January 16 through February 2, 2017. These samples were analyzed by DHL Analytical, Inc. (DHL) in Austin, Texas for the analytical methods specified on the chain-of-custody (C-O-C) documentation. Table 1 presents the analyses requested and a cross-reference of field sample identifications (IDs) and laboratory IDs.

The purpose of this sampling event is to delineate the contamination laterally and vertically of the constituents of concern in soil and groundwater.

Sample identification, dates sampled, matrices, and methods used for analyses are provided in Table 1. Samples were evaluated against the Texas Commission on Environmental Quality (TCEQ) *Review and Reporting of COC Concentration Data under TRRP* [Texas Risk Reduction Program], (RG-366/TRRP-13, May 2010) guidelines for data usability for the methods listed in this table.

The following laboratory submittals were examined:

- Laboratory reports;
- TRRP-13 Laboratory Review Checklists (LRCs); and
- TRRP-13 Exception Reports (ERs).

The analytical results and data qualifier definitions are presented in Attachment A. LRCs and ERs checklists are presented in Attachment B.

Table 1
Sample Distribution

Sample Identification	Laboratory Identification	Date Sampled	Metals SW-846 6020A	Mercury SW-846 7470A/ 7471B	PCBs SW-846 8082A	VOCs SW-846 8260C	PAHs SW-846 8270D SIM	TPH TCEQ 1005
Soils								
INC-SB53-010	1701152-01	1/16/2017	X	X	--	--	X	--
INC-SB53-020	1701152-02	1/16/2017	X	X	--	--	X	--
INC-SB54-010	1701152-03	1/16/2017	X	X	--	--	X	--
INC-SB54-020	1701152-04	1/16/2017	X	X	--	--	X	--
INC-SB55-010	1701152-05	1/16/2017	X	X	--	--	X	--
INC-SB55-020	1701152-06	1/16/2017	X	X	--	--	X	--
INC-SB55-030	1701152-07	1/16/2017	X	X	--	--	X	--
INC-SB56-010	1701152-08	1/16/2017	X	X	--	--	X	--
INC-SB56-020	1701152-09	1/16/2017	X	X	--	--	X	--
INC-SB57-010	1701264-11	1/26/2017	X	X	X	X	X	X
INC-SB57-020	1701264-12	1/26/2017	X	X	X	X	X	X
INC-SB58-013	1701152-10	1/16/2017	X	X	--	--	X	--
INC-SB58-020	1701152-11	1/16/2017	X	X	--	--	X	--
INC-SB59-010	1701152-12	1/16/2017	X	X	--	--	X	--
INC-SB59-020	1701152-13	1/16/2017	X	X	--	--	X	--
INC-SB60-010	1701152-14	1/16/2017	X	X	--	--	X	--
INC-SB60-011	1701152-15	1/16/2017	X	X	--	--	X	--
INC-SB60-020	1701152-16	1/16/2017	X	X	--	--	X	--
INC-SB61-010	1701264-09	1/25/2017	X	X	--	--	X	--
INC-SB63-010	1701264-07	1/25/2017	X	X	--	--	X	--
INC-SB64-010	1701264-13	1/26/2017	X	X	--	--	X	--
INC-SB64-011	1701264-14	1/26/2017	X	X	--	--	X	--
INC-SB66-010	1701264-01	1/25/2017	X	X	--	--	X	--
INC-SB66-020	1701264-02	1/25/2017	X	X	--	--	X	--
INC-SB66-021	1701264-04	1/25/2017	X	X	--	--	X	--
INC-SB67-010	1701264-05	1/25/2017	X	X	--	--	X	--
INC-SB67-023	1701264-06	1/25/2017	X	X	--	--	X	--
INC-SB68-010	1701152-17	1/17/2017	X	X	--	--	X	--
INC-SB68-020	1701152-18	1/17/2017	X	X	--	--	X	--
INC-SB69-010	1701264-15	1/26/2017	--	--	--	X	--	X
INC-SB70-010	1701264-16	1/26/2017	--	--	--	X	--	X

Table 1 (Continued)
Sample Distribution

Sample Identification	Laboratory Identification	Date Sampled	Metals SW-846 6020A	Mercury SW-846 7470A/ 7471B	PCBs SW-846 8082A	VOCs SW-846 8260C	PAHs SW-846 8270D SIM	TPH TCEQ 1005
Groundwater								
INC-MW01-010	1702034-09	2/2/2017	X	X	--	--	X	--
INC-MW03-010	1702034-04	2/1/2017	X	X	--	--	X	--
INC-MW04-010	1702034-02	2/1/2017	X	X	--	--	X	--
INC-MW05-010	1702034-10	2/2/2017	X	X	--	--	X	--
INC-MW06-010	1702034-12	2/2/2017	X	X	--	--	X	--
INC-MW07-010	1702034-11	2/2/2017	X	X	--	--	X	--
INC-MW08-010	1702034-03	2/1/2017	X	X	--	--	X	--
INC-MW09-010	1702034-01	2/1/2017	X	X	--	--	X	--
INC-MW10-013	1702034-13	2/2/2017	X	X	--	--	X	--
INC-MW11-010	1702034-07	2/2/2017	X	X	--	--	X	--
INC-MW11-011	1702034-08	2/2/2017	X	X	--	--	X	--
INC-MW12-010	1702034-06	2/1/2017	X	X	--	--	X	--
INC-MW13-010	1702034-05	2/1/2017	X	X	--	--	X	--
Equipment Blanks								
INC-SB63-015	1701264-08	1/25/2017	X	X	--	--	X	--
INC-SB66-015	1701264-03	1/25/2017	X	X	--	--	X	--
Trip Blanks								
INC-TB01-017	1701264-10	1/26/2017	--	--	--	X	--	--

X - Analyzed by DHL Analytical. Inc. in Round Rock, Texas.
-- Sample not analyzed for the indicated parameter.

ID – Identification
PAHs – Polychlorinated aromatic hydrocarbons
PCBs – Polychlorinated biphenyls
SIM – Selective ion monitoring
SW-846 - Test Methods for Evaluation of Solid Waste: Physical/Chemical Methods, EPA, Office of Solid Waste and Emergency Response, December 1996, Revision 3 and subsequent revisions
TCEQ – Texas Commission on Environmental Quality
TPH – Total petroleum hydrocarbons
VOCs – Volatile organic compounds

Note - The "1" designation at the end of the sample ID means the sample is a field duplicate of the associated "0" ending sample that precedes it. The "3" designation at the end of the sample ID means the sample is a client-specified parent sample for matrix spike/matrix spike duplicate analysis. The "5" designation at the end of the sample ID means the sample is an equipment blank.

Analytical results were evaluated in accordance with TRRP-13. The results indicate that all of the data are acceptable and usable. Some samples were diluted due to matrix interferences or high concentrations of target compounds, which resulted in elevated sample detection limits (SDLs) and method quantitation limits (MQLs). Soil samples were reported on a dry-weight basis.

Sample results that were reported between the SDLs and MQLs were qualified with "J" as estimated. Note that the DHL cites the reporting limit, which is the lowest standard used in the calibration curve and is therefore the equivalent to the MQLs. The laboratory qualified data using statistically-derived control limits, which were also used for data review and validation. Samples that required further qualification or anomalies are discussed in this DUS. Only quality control (QC) results associated with field samples are discussed in the text. QC samples only associated with other QC samples (such as laboratory control samples [LCSs] for trip blanks) are not discussed.

Laboratory Certification

AECOM asserts that at the time the laboratory data were generated for this project, DHL and Lancaster were National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (TLAP) for the matrices, methods, and parameters prescribed in this report with the following exception:

- Cyclohexane by EPA SW-846 Method 8260C

The TLAP does not currently offer accreditation for this compound by this method in these matrices; therefore, this compound is exempt from accreditation under 30 Texas Administrative Code (TAC) §25.6. As a result, all cyclohexane results were qualified with "X7" as required by TRRP-13. The applicable NELAP certification is T104704211-16-17 (effective October 7, 2016 through April 30, 2017).

Metals by EPA SW-846 Method 6020A

Samples were analyzed for client-specified metals by United States Environmental Protection Agency (EPA) SW-846 Method 6020A. The QC requirements that were evaluated included holding times, detection limits, calibrations, blanks, LCS and/or LCS/laboratory control sample

duplicate (LCSD) results, matrix spike/matrix spike duplicate (MS/MSD) results, duplicates, serial dilutions, post digestion spikes, interference check samples, and internal standards. The QC results indicate that the reported data are usable for the intended purposes. Samples that required qualification or analytical anomalies are discussed below.

Matrix Spikes

Results were qualified if the average of the MS and MSD recoveries or the MS/MSD relative percent difference (RPD) were outside of the laboratory acceptance criteria for client samples in the same preparation batch as the client parent sample. Results were not evaluated if the MS/MSD spike concentrations were less than four times the concentrations in the unspiked parent sample. The MS/MSD results were not evaluated then since the spiked concentrations were insignificant and may not have represented the matrix effect. Metal results qualified due to MS/MSD recoveries are presented in Table 2.

Table 2
Metal Results Qualified Due to MS/MSD Recoveries

Sample Identification	Analyte	Qualifier/Result	Reason
Soils			
INC-SB53-010	Chromium, total	JH (Detects)	Average MS/MSD recovery > UCL
INC-SB53-020			
INC-SB54-010			
INC-SB54-020			
INC-SB55-010			
INC-SB55-020			
INC-SB55-030			
INC-SB56-010			
INC-SB56-020			
INC-SB58-013			
INC-SB58-020			
INC-SB59-010			
INC-SB59-020			
INC-SB60-010			
INC-SB60-011			
INC-SB60-020			
INC-SB68-010			
INC-SB68-020			

Table 2 (Continued)
Metal Results Qualified Due to MS/MSD Recoveries

Sample Identification	Analyte	Qualifier/Result	Reason
Soils (Continued)			
INC-SB57-010 INC-SB57-020 INC-SB61-010 INC-SB63-010 INC-SB64-010 INC-SB64-011 INC-SB66-010 INC-SB66-020 INC-SB66-021 INC-SB67-010 INC-SB67-023	Lead	JL (All Detects)	Average MS/MSD recovery < LCL but ≥ 30%

JH – Estimated/biased high
JL – Estimated/biased low
LCL – Lower control limit
MS/MSD – Matrix spike/matrix spike duplicate
UCL – Upper control limit

Field Duplicates

Field duplicate results were evaluated using the acceptance criteria as specified in TRRP-13. When both the sample and field duplicate sample results are greater than five times the lower MQL and the RPD is greater than 30% (waters) or 50% (soils), then the parent and field duplicate sample results are qualified due to field duplicate variability. When one of the results for the field duplicate pair are less than five times the lower MQL, the RPD is greater than 30% (waters) or 50% (soils), and both of the results are greater than two times the higher MQL (waters) or three times the higher MQL (soils), then the results are qualified due to field duplicate variability. Metal results qualified due to field duplicate variability are presented in Table 3.

Table 3
Metal Results Qualified Due to Field Duplicate Variability

Sample Identification	Analyte	Qualifier/Result	Reason
Soils			
INC-SB60-010	Nickel	J (Detects)	Field duplicate results did not meet acceptance criteria
INC-SB60-011			
INC-SB64-010			
INC-SB64-011			
INC-SB64-010	Chromium		
INC-SB64-011			

J – Estimated

Post Digestion Spikes

The post digestion spike recoveries for barium and lead could not be evaluated for parent sample INC-SB58-013 since the spike concentrations were less than four times the concentrations in the unspiked parent sample.

Serial Dilutions

All detected results greater than 50x the analyte detection limits in the analytical batch were qualified due to serial dilution results if the serial dilution RPDs were greater than the laboratory acceptance criteria. Metal results qualified due to field duplicate variability are presented in Table 4.

Table 4
Metal Results Qualified Due to Serial Dilution Variability

Sample Identification	Analyte	Qualifier/Result	Reason
Soils			
INC-SB57-010 INC-SB57-020 INC-SB64-010 INC-SB64-011 INC-SB67-023	Selenium	J (Detects)	Serial dilution RPD > AC

AC – Acceptance criteria
J – Estimated
RPD – Relative percent difference

Internal Standards

Internal standards bismuth and indium were recovered below the laboratory acceptance criteria in groundwater sample INC-MW07-010. The laboratory noted that this appeared to be due to matrix interference. DHL reanalyzed the sample with similar results. The associated detected results for barium and lead in sample INC-MW07-010 were qualified with "JH" as estimated/biased high.

Mercury by EPA SW-846 Methods 7470A/7471B

Samples were analyzed for mercury by EPA SW-846 Methods 7470A (waters)/7471B (soils). The QC requirements that were evaluated included holding times, detection limits, calibrations, blanks, LCS and/or LCS/LCSD results, MS/MSD results, duplicates, serial dilutions, and post

digestion spikes. The QC results indicate that the reported data are usable for the intended purposes. There were no analytical anomalies and no results were qualified.

Polychlorinated Biphenyls by EPA SW-846 Method 8082A

Samples were analyzed for polychlorinated biphenyls (PCBs) by EPA SW-846 Method 8082A. The QC requirements that were evaluated included sample receipt conditions, holding times, detection limits, calibrations, blanks, LCS results, MS/MSD results, field duplicate samples, and surrogate spike results. These QC results indicate that the data are usable for the intended purposes and can be considered technically defensible. Qualified results or analytical anomalies are discussed below.

Calibrations

The recovery for Aroclor 1260 was greater than the laboratory acceptance criteria in one continuing calibration verification (CCV) standard. The results for the four aroclors associated with Aroclor 1260 were qualified and are presented in Table 5.

Table 5
PCB Results Qualified Due to CCV Recoveries

Sample Identification	Analyte	Qualifier/Result	Reason
Soils			
INC-SB57-010 INC-SB57-020	Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	J (Detects)/ UJ (Nondetects)	CCV recovery < LCL

CCV – Continuing calibration verification
J – Estimated
LCL – Lower control limit
UJ – Not detected/estimated

Volatile Organic Compounds by EPA SW-846 Method 8260C

Samples were analyzed for volatile organic compounds (VOCs) by EPA SW-846 Method 8260C. The QC requirements that were evaluated included sample receipt conditions, holding times, detection limits, calibrations, internal standards, blanks, LCS results, MS/MSD results, field duplicate samples, and surrogate spike results. The QC results indicate that the data are usable for the intended purposes. Samples that required qualification or analytical anomalies are discussed below.

Matrix Spikes/Matrix Spike Duplicates

Results were qualified if the MS or the average of the MS/MSD recoveries or the MS/MSD RPD were outside of the laboratory acceptance criteria for samples in the same preparation batch as the parent sample. If the average MS/MSD recovery was above the acceptance criteria and the associated sample result was not detected, then no results were qualified due to this possible high bias. MS/MSD results were not evaluated if the spike concentrations were less than four times the concentrations in the unspiked parent samples. The MS/MSD results were not evaluated since the spiked concentrations were insignificant and may not have represented the matrix effect.

Results qualified due to MS/MSD recoveries are presented in Table 6.

Table 6
VOC Results Qualified Due to MS/MSD Recoveries

Sample Identification	Analyte	Qualifier/Result	Reason
Soils			
INC-SB57-010 INC-SB57-020 INC-SB69-010 INC-SB70-010	1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dichlorobenzene 1,3,5-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1-Chlorohexane 2-Chlorotoluene 4-Chlorotoluene Ethylbenzene Hexachlorobutadiene Isopropylbenzene m & p-Xylene Naphthalene n-Butylbenzene o-Xylene p-Isopropyltoluene sec-Butylbenzene Styrene tert-Butylbenzene Tetrachloroethene	JL (Detects)/ UJL (Nondetects)	Average MS/MSD recovery < LCL but ≥ 10%

JL – Estimated/biased low
LCL – Lower control limit
MS/MSD – Matrix spike/matrix spike duplicate
UJL – Not detected/estimated/biased low
VOC – Volatile organic compound

Surrogates

Four surrogates were added to each sample. Results were qualified if more than two of these surrogates exceeded the laboratory acceptance criteria.

The recovery for one surrogate in sample INC-SB57-020 was outside of the laboratory acceptance criteria. The recoveries for the other surrogates in this sample were within acceptance criteria; therefore, no results were qualified.

Polynuclear Aromatic Hydrocarbons by EPA SW-846 Method 8270D SIM

Samples were analyzed for polynuclear aromatic hydrocarbons (PAHs) by EPA SW-846 Method 8270D SIM. The QC requirements that were evaluated included sample receipt conditions, holding times, detection limits, calibrations, internal standards, field duplicates, blanks, LCS and/or LCS/LCSD results, MS/MSD results, and surrogate spike results. The QC results indicate that all of the reported data are usable for the intended purposes. Samples that required qualification or analytical anomalies are discussed below.

Matrix Spikes/Matrix Spike Duplicates

Results were qualified if the MS or the average of the MS/MSD recoveries or the MS/MSD RPD were outside of the laboratory acceptance criteria for samples in the same preparation batch as the parent sample. If the average MS/MSD recovery was above the acceptance criteria and the associated sample result was not detected, then no results were qualified due to this possible high bias. MS/MSD results were not evaluated if the spike concentrations were less than four times the concentrations in the unspiked parent samples. The MS/MSD results were not evaluated since the spiked concentrations were insignificant and may not have represented the matrix effect.

In the laboratory report, it appears that there were numerous QC excursions for the MS/MSD of parent sample INC-SB67-023. The spiked value in the report does not take into account the 5x dilution used to analyze the parent and MS/MSD samples. After calculating the correct spiking concentration, all recoveries and RPDs were within laboratory acceptance criteria or could not be evaluated since the spike concentrations were less than four times the concentrations in the unspiked parent samples. No results were qualified due to MS/MSD results.

Surrogates

Two surrogates were added to each sample. Results were qualified if both of these surrogates exceeded the laboratory acceptance criteria.

The recoveries for one surrogate in six samples were outside of the laboratory acceptance criteria. The recoveries for the other surrogates in these samples were within acceptance criteria; therefore, no results were qualified.

Field Duplicates

Field duplicate results were evaluated using the acceptance criteria as specified in TRRP-13. When both the sample and field duplicate sample results are greater than five times the lower MQL and the RPD is greater than 30% (waters) or 50% (soils), then the parent and field duplicate sample results are qualified due to field duplicate variability. When one of the results for the field duplicate pair are less than five times the lower MQL, the RPD is greater than 30% (waters) or 50% (soils), and both of the results are greater than two times the higher MQL (waters) or three times the higher MQL (soils), then the results are qualified due to field duplicate variability. PAH results qualified due to field duplicate variability are presented in Table 7.

Table 7
PAH Results Qualified Due to Field Duplicate Variability

Sample Identification	Analyte	Qualifier/Result	Reason
Soils			
INC-SB64-010	Fluoranthene	J (Detects)	Field duplicate results did not meet acceptance criteria
INC-SB64-011	Pyrene		

J – Estimated
PAH – Polynuclear aromatic hydrocarbon

Total Petroleum Hydrocarbons by TCEQ Method 1005

Samples were analyzed for total petroleum hydrocarbons (TPH) by TCEQ Method 1005. The QC requirements that were evaluated included holding times, detection limits, calibrations, blanks, LCS and/or LCS/LCSD results, MS/MSD results, surrogate spike, and field duplicate results. The QC results indicate that the reported data are usable for the intended purposes. Samples that required qualification or analytical anomalies are discussed below.

Surrogates

Two surrogates were added to each sample. Results were qualified if both of these surrogates exceeded the laboratory acceptance criteria.

The recoveries for one surrogate in samples INC-SB57-010 and INC-SB59-010 were outside of the laboratory acceptance criteria. The recoveries for the other surrogates in these samples were within acceptance criteria; therefore, no results were qualified.

Both surrogates in sample INC-SB57-020 were recovered above the laboratory acceptance criteria. Detected results in this sample were qualified and are presented in Table 8.

Table 8
TPH Results Qualified Due to Surrogate Recoveries

Sample Identification	Analyte	Qualifier/Result	Reason
Soils			
INC-SB57-020	T/R Hydrocarbons: >C12-C28 T/R Hydrocarbons: C6-C12 T/R Hydrocarbons: C6-C35	JH (Detects)	Both surrogate recoveries > CL

CL – Control limit
JH – Estimated
TPH – Total petroleum hydrocarbons

Attachment A
Analytical Results

DATA QUALIFIERS

Qualifier	Definition
U	Not detected: Analysis for the analyte was performed, but the analyte was not detected above the level of the associated value. The associated value is the sample detection limit (SDL).
J	Estimated: The analyte was detected and identified. The associated numerical value is the approximate concentration of the analyte in the sample.
UJ	Not detected, SDL is estimated: The analyte was not detected above the reported SDL. The numerical value of the SDL is estimated and may be inaccurate.
NJ	Tentatively identified, reported concentration is estimated: The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration. For example, analyte not included in the calibration or second column confirmation not performed.
R	Rejected: The data are unusable.
X1	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ.
X2	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is located outside of Texas, and is accredited or periodically inspected by that state.
X3	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ, and the work is performed for another company unit located on the same site as the laboratory.
X4	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ, and the work is performed without compensation for a government agency or charitable organization.
X5	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is accredited under federal law, including certification by the EPA to provide these data for decisions related to the Safe Drinking Water Act.
X6	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory provides these data necessary for emergency response activities and the required analytical data are not available from a laboratory accredited under TLAP.
X7	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The TCEQ does not offer accreditation for this analyte, in this matrix, by this method.
X8	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The TCEQ offers accreditation for this analyte, in this matrix, by this method, but the laboratory is not accredited for this analyte in this matrix by this method. The analyte result is validated and reported as part of a suite of analytes for the method.
X9	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The result was generated prior to July 1, 2008.
Bias Codes	**Definition**
H	Bias in sample result likely high.
L	Bias in sample result likely low.

Attachment A - Analytical Results

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-MW01-010	1702034-09	2/2/2017	SW6020A	Antimony	ND	U	0.00250	0.000800	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW6020A	Arsenic	0.00309	J	0.00500	0.00200	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW6020A	Barium	0.0372		0.0100	0.00300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW6020A	Beryllium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW6020A	Cadmium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW6020A	Chromium, total	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW6020A	Lead	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW6020A	Nickel	ND	U	0.0100	0.00300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW6020A	Selenium	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW6020A	Silver	ND	U	0.00200	0.00100	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW7470A	Mercury	ND	U	0.000200	0.0000800	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW8270SIM	Acenaphthene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW8270SIM	Acenaphthylene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW8270SIM	Anthracene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW8270SIM	Benzo(a)anthracene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW8270SIM	Benzo(a)pyrene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW8270SIM	Benzo(b)fluoranthene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW8270SIM	Benzo(g,h,i)perylene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW8270SIM	Benzo(k)fluoranthene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW8270SIM	Chrysene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW8270SIM	Dibenz(a,h)anthracene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW8270SIM	Fluoranthene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW8270SIM	Fluorene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW8270SIM	Naphthalene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW8270SIM	Phenanthrene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW01-010	1702034-09	2/2/2017	SW8270SIM	Pyrene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW6020A	Antimony	ND	U	0.00250	0.000800	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW6020A	Arsenic	0.00637		0.00500	0.00200	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW6020A	Barium	0.138		0.0100	0.00300	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW6020A	Beryllium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW6020A	Cadmium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW6020A	Chromium, total	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW6020A	Lead	0.000763	J	0.00100	0.000300	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW6020A	Nickel	ND	U	0.0100	0.00300	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW6020A	Selenium	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW6020A	Silver	ND	U	0.00200	0.00100	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW7470A	Mercury	ND	U	0.000200	0.0000800	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW8270SIM	Acenaphthene	ND	U	0.0000640	0.0000320	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW8270SIM	Acenaphthylene	ND	U	0.0000640	0.0000320	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW8270SIM	Anthracene	ND	U	0.0000640	0.0000320	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW8270SIM	Benzo(a)anthracene	ND	U	0.0000640	0.0000320	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW8270SIM	Benzo(a)pyrene	ND	U	0.0000640	0.0000320	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW8270SIM	Benzo(b)fluoranthene	ND	U	0.0000640	0.0000320	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW8270SIM	Benzo(g,h,i)perylene	ND	U	0.0000640	0.0000320	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW8270SIM	Benzo(k)fluoranthene	ND	U	0.0000640	0.0000320	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW8270SIM	Chrysene	ND	U	0.0000640	0.0000320	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW8270SIM	Dibenz(a,h)anthracene	ND	U	0.0000640	0.0000320	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW8270SIM	Fluoranthene	ND	U	0.0000640	0.0000320	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW8270SIM	Fluorene	ND	U	0.0000640	0.0000320	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	ND	U	0.0000640	0.0000320	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW8270SIM	Naphthalene	ND	U	0.0000640	0.0000320	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW8270SIM	Phenanthrene	ND	U	0.0000640	0.0000320	mg/L	1	N
INC-MW03-010	1702034-04	2/1/2017	SW8270SIM	Pyrene	ND	U	0.0000640	0.0000320	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW6020A	Antimony	ND	U	0.00250	0.000800	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW6020A	Arsenic	0.00404	J	0.00500	0.00200	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW6020A	Barium	0.146		0.0100	0.00300	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW6020A	Beryllium	ND	U	0.00100	0.000300	mg/L	1	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-MW04-010	1702034-02	2/1/2017	SW6020A	Cadmium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW6020A	Chromium, total	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW6020A	Lead	0.00904		0.00100	0.000300	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW6020A	Nickel	0.00699	J	0.0100	0.00300	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW6020A	Selenium	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW6020A	Silver	ND	U	0.00200	0.00100	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW7470A	Mercury	ND	U	0.000200	0.0000800	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW8270SIM	Acenaphthene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW8270SIM	Acenaphthylene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW8270SIM	Anthracene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW8270SIM	Benzo(a)anthracene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW8270SIM	Benzo(a)pyrene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW8270SIM	Benzo(b)fluoranthene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW8270SIM	Benzo(g,h,i)perylene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW8270SIM	Benzo(k)fluoranthene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW8270SIM	Chrysene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW8270SIM	Dibenz(a,h)anthracene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW8270SIM	Fluoranthene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW8270SIM	Fluorene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW8270SIM	Naphthalene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW8270SIM	Phenanthrene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW04-010	1702034-02	2/1/2017	SW8270SIM	Pyrene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW6020A	Antimony	ND	U	0.00250	0.000800	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW6020A	Arsenic	0.00339	J	0.00500	0.00200	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW6020A	Barium	0.273		0.0100	0.00300	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW6020A	Beryllium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW6020A	Cadmium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW6020A	Chromium, total	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW6020A	Lead	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW6020A	Nickel	ND	U	0.0100	0.00300	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW6020A	Selenium	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW6020A	Silver	ND	U	0.00200	0.00100	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW7470A	Mercury	ND	U	0.000200	0.0000800	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW8270SIM	Acenaphthene	0.178		0.00303	0.00152	mg/L	50	N
INC-MW05-010	1702034-10	2/2/2017	SW8270SIM	Acenaphthylene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW8270SIM	Anthracene	0.00396		0.0000610	0.0000300	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW8270SIM	Benzo(a)anthracene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW8270SIM	Benzo(a)pyrene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW8270SIM	Benzo(b)fluoranthene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW8270SIM	Benzo(g,h,i)perylene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW8270SIM	Benzo(k)fluoranthene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW8270SIM	Chrysene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW8270SIM	Dibenz(a,h)anthracene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW8270SIM	Fluoranthene	0.00475		0.0000610	0.0000300	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW8270SIM	Fluorene	0.0685		0.000607	0.000303	mg/L	10	N
INC-MW05-010	1702034-10	2/2/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW8270SIM	Naphthalene	0.00150		0.0000610	0.0000300	mg/L	1	N
INC-MW05-010	1702034-10	2/2/2017	SW8270SIM	Phenanthrene	0.0472		0.000607	0.000303	mg/L	10	N
INC-MW05-010	1702034-10	2/2/2017	SW8270SIM	Pyrene	0.00190		0.0000610	0.0000300	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW6020A	Antimony	0.00117	J	0.00250	0.000800	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW6020A	Arsenic	0.00250	J	0.00500	0.00200	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW6020A	Barium	0.0844		0.0100	0.00300	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW6020A	Beryllium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW6020A	Cadmium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW6020A	Chromium, total	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW6020A	Lead	0.000531	J	0.00100	0.000300	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW6020A	Nickel	ND	U	0.0100	0.00300	mg/L	1	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-MW06-010	1702034-12	2/2/2017	SW6020A	Selenium	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW6020A	Silver	ND	U	0.00200	0.00100	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW7470A	Mercury	ND	U	0.000200	0.0000800	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW8270SIM	Acenaphthene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW8270SIM	Acenaphthylene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW8270SIM	Anthracene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW8270SIM	Benzo(a)anthracene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW8270SIM	Benzo(a)pyrene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW8270SIM	Benzo(b)fluoranthene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW8270SIM	Benzo(g,h,i)perylene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW8270SIM	Benzo(k)fluoranthene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW8270SIM	Chrysene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW8270SIM	Dibenz(a,h)anthracene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW8270SIM	Fluoranthene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW8270SIM	Fluorene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW8270SIM	Naphthalene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW8270SIM	Phenanthrene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW06-010	1702034-12	2/2/2017	SW8270SIM	Pyrene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW6020A	Antimony	ND	U	0.00250	0.000800	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW6020A	Arsenic	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW6020A	Barium	0.0887	JH	0.0100	0.00300	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW6020A	Beryllium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW6020A	Cadmium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW6020A	Chromium, total	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW6020A	Lead	0.0392	JH	0.00100	0.000300	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW6020A	Nickel	ND	U	0.0100	0.00300	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW6020A	Selenium	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW6020A	Silver	ND	U	0.00200	0.00100	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW7470A	Mercury	ND	U	0.000200	0.0000800	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW8270SIM	Acenaphthene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW8270SIM	Acenaphthylene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW8270SIM	Anthracene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW8270SIM	Benzo(a)anthracene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW8270SIM	Benzo(a)pyrene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW8270SIM	Benzo(b)fluoranthene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW8270SIM	Benzo(g,h,i)perylene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW8270SIM	Benzo(k)fluoranthene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW8270SIM	Chrysene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW8270SIM	Dibenz(a,h)anthracene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW8270SIM	Fluoranthene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW8270SIM	Fluorene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW8270SIM	Naphthalene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW8270SIM	Phenanthrene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW07-010	1702034-11	2/2/2017	SW8270SIM	Pyrene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW6020A	Antimony	0.000849	J	0.00250	0.000800	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW6020A	Arsenic	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW6020A	Barium	0.146		0.0100	0.00300	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW6020A	Beryllium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW6020A	Cadmium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW6020A	Chromium, total	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW6020A	Lead	0.00334		0.00100	0.000300	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW6020A	Nickel	0.00570	J	0.0100	0.00300	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW6020A	Selenium	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW6020A	Silver	ND	U	0.00200	0.00100	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW7470A	Mercury	ND	U	0.000200	0.0000800	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW8270SIM	Acenaphthene	ND	U	0.0000600	0.0000300	mg/L	1	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-MW08-010	1702034-03	2/1/2017	SW8270SIM	Acenaphthylene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW8270SIM	Anthracene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW8270SIM	Benzo(a)anthracene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW8270SIM	Benzo(a)pyrene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW8270SIM	Benzo(b)fluoranthene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW8270SIM	Benzo(g,h,i)perylene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW8270SIM	Benzo(k)fluoranthene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW8270SIM	Chrysene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW8270SIM	Dibenz(a,h)anthracene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW8270SIM	Fluoranthene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW8270SIM	Fluorene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW8270SIM	Naphthalene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW8270SIM	Phenanthrene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW08-010	1702034-03	2/1/2017	SW8270SIM	Pyrene	ND	U	0.0000600	0.0000300	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW6020A	Antimony	ND	U	0.00250	0.000800	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW6020A	Arsenic	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW6020A	Barium	0.0313		0.0100	0.00300	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW6020A	Beryllium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW6020A	Cadmium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW6020A	Chromium, total	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW6020A	Lead	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW6020A	Nickel	ND	U	0.0100	0.00300	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW6020A	Selenium	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW6020A	Silver	ND	U	0.00200	0.00100	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW7470A	Mercury	ND	U	0.000200	0.0000800	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW8270SIM	Acenaphthene	0.00998		0.0000540	0.0000270	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW8270SIM	Acenaphthylene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW8270SIM	Anthracene	0.0000790		0.0000540	0.0000270	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW8270SIM	Benzo(a)anthracene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW8270SIM	Benzo(a)pyrene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW8270SIM	Benzo(b)fluoranthene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW8270SIM	Benzo(g,h,i)perylene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW8270SIM	Benzo(k)fluoranthene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW8270SIM	Chrysene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW8270SIM	Dibenz(a,h)anthracene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW8270SIM	Fluoranthene	0.0000670		0.0000540	0.0000270	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW8270SIM	Fluorene	0.000251		0.0000540	0.0000270	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW8270SIM	Naphthalene	0.000294		0.0000540	0.0000270	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW8270SIM	Phenanthrene	ND	U	0.0000540	0.0000270	mg/L	1	N
INC-MW09-010	1702034-01	2/1/2017	SW8270SIM	Pyrene	0.0000640		0.0000540	0.0000270	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW6020A	Antimony	ND	U	0.00250	0.000800	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW6020A	Arsenic	0.00406	J	0.00500	0.00200	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW6020A	Barium	0.153		0.0100	0.00300	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW6020A	Beryllium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW6020A	Cadmium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW6020A	Chromium, total	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW6020A	Lead	0.00410		0.00100	0.000300	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW6020A	Nickel	ND	U	0.0100	0.00300	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW6020A	Selenium	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW6020A	Silver	ND	U	0.00200	0.00100	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW7470A	Mercury	ND	U	0.000200	0.0000800	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW8270SIM	Acenaphthene	0.000578		0.0000520	0.0000260	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW8270SIM	Acenaphthylene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW8270SIM	Anthracene	0.000141		0.0000520	0.0000260	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW8270SIM	Benzo(a)anthracene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW8270SIM	Benzo(a)pyrene	ND	U	0.0000520	0.0000260	mg/L	1	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-MW10-013	1702034-13	2/2/2017	SW8270SIM	Benzo(b)fluoranthene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW8270SIM	Benzo(g,h,i)perylene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW8270SIM	Benzo(k)fluoranthene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW8270SIM	Chrysene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW8270SIM	Dibenz(a,h)anthracene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW8270SIM	Fluoranthene	0.000261		0.0000520	0.0000260	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW8270SIM	Fluorene	0.000941		0.0000520	0.0000260	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW8270SIM	Naphthalene	0.0000430	J	0.0000520	0.0000260	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW8270SIM	Phenanthrene	0.000675		0.0000520	0.0000260	mg/L	1	N
INC-MW10-013	1702034-13	2/2/2017	SW8270SIM	Pyrene	0.000191		0.0000520	0.0000260	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW6020A	Antimony	ND	U	0.00250	0.000800	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW6020A	Arsenic	0.00903		0.00500	0.00200	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW6020A	Barium	0.0863		0.0100	0.00300	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW6020A	Beryllium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW6020A	Cadmium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW6020A	Chromium, total	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW6020A	Lead	0.000787	J	0.00100	0.000300	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW6020A	Nickel	0.00479	J	0.0100	0.00300	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW6020A	Selenium	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW6020A	Silver	ND	U	0.00200	0.00100	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW7470A	Mercury	ND	U	0.000200	0.0000800	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW8270SIM	Acenaphthene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW8270SIM	Acenaphthylene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW8270SIM	Anthracene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW8270SIM	Benzo(a)anthracene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW8270SIM	Benzo(a)pyrene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW8270SIM	Benzo(b)fluoranthene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW8270SIM	Benzo(g,h,i)perylene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW8270SIM	Benzo(k)fluoranthene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW8270SIM	Chrysene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW8270SIM	Dibenz(a,h)anthracene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW8270SIM	Fluoranthene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW8270SIM	Fluorene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW8270SIM	Naphthalene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW8270SIM	Phenanthrene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW11-010	1702034-07	2/2/2017	SW8270SIM	Pyrene	ND	U	0.0000520	0.0000260	mg/L	1	N
INC-MW11-011	1702034-08	2/2/2017	SW6020A	Antimony	ND	U	0.00250	0.000800	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW6020A	Arsenic	0.00930		0.00500	0.00200	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW6020A	Barium	0.0871		0.0100	0.00300	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW6020A	Beryllium	ND	U	0.00100	0.000300	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW6020A	Cadmium	ND	U	0.00100	0.000300	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW6020A	Chromium, total	ND	U	0.00500	0.00200	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW6020A	Lead	0.00113		0.00100	0.000300	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW6020A	Nickel	0.00473	J	0.0100	0.00300	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW6020A	Selenium	ND	U	0.00500	0.00200	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW6020A	Silver	ND	U	0.00200	0.00100	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW7470A	Mercury	ND	U	0.000200	0.0000800	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW8270SIM	Acenaphthene	ND	U	0.0000520	0.0000260	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW8270SIM	Acenaphthylene	ND	U	0.0000520	0.0000260	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW8270SIM	Anthracene	ND	U	0.0000520	0.0000260	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW8270SIM	Benzo(a)anthracene	ND	U	0.0000520	0.0000260	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW8270SIM	Benzo(a)pyrene	ND	U	0.0000520	0.0000260	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW8270SIM	Benzo(b)fluoranthene	ND	U	0.0000520	0.0000260	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW8270SIM	Benzo(g,h,i)perylene	ND	U	0.0000520	0.0000260	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW8270SIM	Benzo(k)fluoranthene	ND	U	0.0000520	0.0000260	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW8270SIM	Chrysene	ND	U	0.0000520	0.0000260	mg/L	1	FD

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-MW11-011	1702034-08	2/2/2017	SW8270SIM	Dibenz(a,h)anthracene	ND	U	0.0000520	0.0000260	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW8270SIM	Fluoranthene	ND	U	0.0000520	0.0000260	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW8270SIM	Fluorene	ND	U	0.0000520	0.0000260	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	ND	U	0.0000520	0.0000260	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW8270SIM	Naphthalene	ND	U	0.0000520	0.0000260	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW8270SIM	Phenanthrene	ND	U	0.0000520	0.0000260	mg/L	1	FD
INC-MW11-011	1702034-08	2/2/2017	SW8270SIM	Pyrene	ND	U	0.0000520	0.0000260	mg/L	1	FD
INC-MW12-010	1702034-06	2/1/2017	SW6020A	Antimony	ND	U	0.00250	0.000800	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW6020A	Arsenic	0.00284	J	0.00500	0.00200	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW6020A	Barium	0.101		0.0100	0.00300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW6020A	Beryllium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW6020A	Cadmium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW6020A	Chromium, total	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW6020A	Lead	0.000923	J	0.00100	0.000300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW6020A	Nickel	ND	U	0.0100	0.00300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW6020A	Selenium	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW6020A	Silver	ND	U	0.00200	0.00100	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW7470A	Mercury	ND	U	0.000200	0.0000800	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW8270SIM	Acenaphthene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW8270SIM	Acenaphthylene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW8270SIM	Anthracene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW8270SIM	Benzo(a)anthracene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW8270SIM	Benzo(a)pyrene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW8270SIM	Benzo(b)fluoranthene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW8270SIM	Benzo(g,h,i)perylene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW8270SIM	Benzo(k)fluoranthene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW8270SIM	Chrysene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW8270SIM	Dibenz(a,h)anthracene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW8270SIM	Fluoranthene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW8270SIM	Fluorene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW8270SIM	Naphthalene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW8270SIM	Phenanthrene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW12-010	1702034-06	2/1/2017	SW8270SIM	Pyrene	ND	U	0.0000610	0.0000300	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW6020A	Antimony	ND	U	0.00250	0.000800	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW6020A	Arsenic	0.0105		0.00500	0.00200	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW6020A	Barium	0.169		0.0100	0.00300	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW6020A	Beryllium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW6020A	Cadmium	ND	U	0.00100	0.000300	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW6020A	Chromium, total	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW6020A	Lead	0.000769	J	0.00100	0.000300	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW6020A	Nickel	ND	U	0.0100	0.00300	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW6020A	Selenium	ND	U	0.00500	0.00200	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW6020A	Silver	ND	U	0.00200	0.00100	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW7470A	Mercury	ND	U	0.000200	0.0000800	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW8270SIM	Acenaphthene	0.000289		0.0000580	0.0000290	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW8270SIM	Acenaphthylene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW8270SIM	Anthracene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW8270SIM	Benzo(a)anthracene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW8270SIM	Benzo(a)pyrene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW8270SIM	Benzo(b)fluoranthene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW8270SIM	Benzo(g,h,i)perylene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW8270SIM	Benzo(k)fluoranthene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW8270SIM	Chrysene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW8270SIM	Dibenz(a,h)anthracene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW8270SIM	Fluoranthene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW8270SIM	Fluorene	0.0000390	J	0.0000580	0.0000290	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	ND	U	0.0000580	0.0000290	mg/L	1	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-MW13-010	1702034-05	2/1/2017	SW8270SIM	Naphthalene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW8270SIM	Phenanthrene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-MW13-010	1702034-05	2/1/2017	SW8270SIM	Pyrene	ND	U	0.0000580	0.0000290	mg/L	1	N
INC-SB53-010	1701152-01	1/16/2017	D2216	Percent moisture	12.0		NA	NA	%	1	N
INC-SB53-010	1701152-01	1/16/2017	SW6020A	Antimony	0.706	J	1.06	0.531	mg/kg	5	N
INC-SB53-010	1701152-01	1/16/2017	SW6020A	Arsenic	3.37		1.06	0.531	mg/kg	5	N
INC-SB53-010	1701152-01	1/16/2017	SW6020A	Barium	66.7		2.12	0.531	mg/kg	5	N
INC-SB53-010	1701152-01	1/16/2017	SW6020A	Beryllium	0.283	J	0.319	0.106	mg/kg	5	N
INC-SB53-010	1701152-01	1/16/2017	SW6020A	Cadmium	0.451		0.319	0.106	mg/kg	5	N
INC-SB53-010	1701152-01	1/16/2017	SW6020A	Chromium, total	7.78	JH	2.12	0.531	mg/kg	5	N
INC-SB53-010	1701152-01	1/16/2017	SW6020A	Lead	32.2		0.319	0.106	mg/kg	5	N
INC-SB53-010	1701152-01	1/16/2017	SW6020A	Nickel	5.45		2.12	0.531	mg/kg	5	N
INC-SB53-010	1701152-01	1/16/2017	SW6020A	Selenium	0.512	J	0.531	0.159	mg/kg	5	N
INC-SB53-010	1701152-01	1/16/2017	SW6020A	Silver	0.115	J	0.223	0.111	mg/kg	5	N
INC-SB53-010	1701152-01	1/16/2017	SW7471B	Mercury	0.0299	J	0.0429	0.0171	mg/kg	1	N
INC-SB53-010	1701152-01	1/16/2017	SW8270SIM	Acenaphthene	0.0158		0.0114	0.00568	mg/kg	1	N
INC-SB53-010	1701152-01	1/16/2017	SW8270SIM	Acenaphthylene	0.0222		0.0114	0.00568	mg/kg	1	N
INC-SB53-010	1701152-01	1/16/2017	SW8270SIM	Anthracene	0.0590		0.0114	0.00568	mg/kg	1	N
INC-SB53-010	1701152-01	1/16/2017	SW8270SIM	Benzo(a)anthracene	0.201		0.0114	0.00568	mg/kg	1	N
INC-SB53-010	1701152-01	1/16/2017	SW8270SIM	Benzo(a)pyrene	0.223		0.0114	0.00568	mg/kg	1	N
INC-SB53-010	1701152-01	1/16/2017	SW8270SIM	Benzo(b)fluoranthene	0.205		0.0114	0.00568	mg/kg	1	N
INC-SB53-010	1701152-01	1/16/2017	SW8270SIM	Benzo(g,h,i)perylene	0.151		0.0114	0.00568	mg/kg	1	N
INC-SB53-010	1701152-01	1/16/2017	SW8270SIM	Benzo(k)fluoranthene	0.112		0.0114	0.00568	mg/kg	1	N
INC-SB53-010	1701152-01	1/16/2017	SW8270SIM	Chrysene	0.240		0.0114	0.00568	mg/kg	1	N
INC-SB53-010	1701152-01	1/16/2017	SW8270SIM	Dibenz(a,h)anthracene	0.0313		0.0114	0.00568	mg/kg	1	N
INC-SB53-010	1701152-01	1/16/2017	SW8270SIM	Fluoranthene	0.453		0.0114	0.00568	mg/kg	1	N
INC-SB53-010	1701152-01	1/16/2017	SW8270SIM	Fluorene	0.0169		0.0114	0.00568	mg/kg	1	N
INC-SB53-010	1701152-01	1/16/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.151		0.0114	0.00568	mg/kg	1	N
INC-SB53-010	1701152-01	1/16/2017	SW8270SIM	Naphthalene	ND	U	0.0114	0.00568	mg/kg	1	N
INC-SB53-010	1701152-01	1/16/2017	SW8270SIM	Phenanthrene	0.244		0.0114	0.00568	mg/kg	1	N
INC-SB53-010	1701152-01	1/16/2017	SW8270SIM	Pyrene	0.372		0.0114	0.00568	mg/kg	1	N
INC-SB53-020	1701152-02	1/16/2017	D2216	Percent moisture	14.6		NA	NA	%	1	N
INC-SB53-020	1701152-02	1/16/2017	SW6020A	Antimony	8.54		1.08	0.542	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW6020A	Arsenic	6.74		1.08	0.542	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW6020A	Barium	181		2.17	0.542	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW6020A	Beryllium	0.121	J	0.325	0.108	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW6020A	Cadmium	1.42		0.325	0.108	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW6020A	Chromium, total	29.0	JH	2.17	0.542	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW6020A	Lead	736		3.25	1.08	mg/kg	50	N
INC-SB53-020	1701152-02	1/16/2017	SW6020A	Nickel	17.9		2.17	0.542	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW6020A	Selenium	0.500	J	0.542	0.163	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW6020A	Silver	0.364		0.217	0.108	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW7471B	Mercury	0.238		0.0423	0.0169	mg/kg	1	N
INC-SB53-020	1701152-02	1/16/2017	SW8270SIM	Acenaphthene	0.591		0.0580	0.0290	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW8270SIM	Acenaphthylene	0.413		0.0580	0.0290	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW8270SIM	Anthracene	2.19		0.0580	0.0290	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW8270SIM	Benzo(a)anthracene	4.20		0.0580	0.0290	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW8270SIM	Benzo(a)pyrene	4.02		0.0580	0.0290	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW8270SIM	Benzo(b)fluoranthene	4.07		0.0580	0.0290	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW8270SIM	Benzo(g,h,i)perylene	3.52		0.0580	0.0290	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW8270SIM	Benzo(k)fluoranthene	2.08		0.0580	0.0290	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW8270SIM	Chrysene	4.63		0.0580	0.0290	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW8270SIM	Dibenz(a,h)anthracene	0.665		0.0580	0.0290	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW8270SIM	Fluoranthene	10.1		0.0580	0.0290	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW8270SIM	Fluorene	1.00		0.0580	0.0290	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	3.38		0.0580	0.0290	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW8270SIM	Naphthalene	0.311		0.0580	0.0290	mg/kg	5	N
INC-SB53-020	1701152-02	1/16/2017	SW8270SIM	Phenanthrene	7.88		0.0580	0.0290	mg/kg	5	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-SB53-020	1701152-02	1/16/2017	SW8270SIM	Pyrene	7.67		0.0580	0.0290	mg/kg	5	N
INC-SB54-010	1701152-03	1/16/2017	D2216	Percent moisture	4.90		NA	NA	%	1	N
INC-SB54-010	1701152-03	1/16/2017	SW6020A	Antimony	ND	U	0.956	0.478	mg/kg	5	N
INC-SB54-010	1701152-03	1/16/2017	SW6020A	Arsenic	2.17		0.956	0.478	mg/kg	5	N
INC-SB54-010	1701152-03	1/16/2017	SW6020A	Barium	3130		38.2	9.56	mg/kg	100	N
INC-SB54-010	1701152-03	1/16/2017	SW6020A	Beryllium	3.01		0.287	0.0956	mg/kg	5	N
INC-SB54-010	1701152-03	1/16/2017	SW6020A	Cadmium	0.228	J	0.287	0.0956	mg/kg	5	N
INC-SB54-010	1701152-03	1/16/2017	SW6020A	Chromium, total	53.6	JH	1.91	0.478	mg/kg	5	N
INC-SB54-010	1701152-03	1/16/2017	SW6020A	Lead	28.4		0.287	0.0956	mg/kg	5	N
INC-SB54-010	1701152-03	1/16/2017	SW6020A	Nickel	32.9		1.91	0.478	mg/kg	5	N
INC-SB54-010	1701152-03	1/16/2017	SW6020A	Selenium	2.44		0.478	0.143	mg/kg	5	N
INC-SB54-010	1701152-03	1/16/2017	SW6020A	Silver	ND	U	0.202	0.101	mg/kg	5	N
INC-SB54-010	1701152-03	1/16/2017	SW7471B	Mercury	ND	U	0.0403	0.0161	mg/kg	1	N
INC-SB54-010	1701152-03	1/16/2017	SW8270SIM	Acenaphthene	ND	U	0.0105	0.00526	mg/kg	1	N
INC-SB54-010	1701152-03	1/16/2017	SW8270SIM	Acenaphthylene	ND	U	0.0105	0.00526	mg/kg	1	N
INC-SB54-010	1701152-03	1/16/2017	SW8270SIM	Anthracene	ND	U	0.0105	0.00526	mg/kg	1	N
INC-SB54-010	1701152-03	1/16/2017	SW8270SIM	Benzo(a)anthracene	0.0142		0.0105	0.00526	mg/kg	1	N
INC-SB54-010	1701152-03	1/16/2017	SW8270SIM	Benzo(a)pyrene	0.0188		0.0105	0.00526	mg/kg	1	N
INC-SB54-010	1701152-03	1/16/2017	SW8270SIM	Benzo(b)fluoranthene	0.0220		0.0105	0.00526	mg/kg	1	N
INC-SB54-010	1701152-03	1/16/2017	SW8270SIM	Benzo(g,h,i)perylene	0.0192		0.0105	0.00526	mg/kg	1	N
INC-SB54-010	1701152-03	1/16/2017	SW8270SIM	Benzo(k)fluoranthene	0.0109		0.0105	0.00526	mg/kg	1	N
INC-SB54-010	1701152-03	1/16/2017	SW8270SIM	Chrysene	0.0185		0.0105	0.00526	mg/kg	1	N
INC-SB54-010	1701152-03	1/16/2017	SW8270SIM	Dibenz(a,h)anthracene	ND	U	0.0105	0.00526	mg/kg	1	N
INC-SB54-010	1701152-03	1/16/2017	SW8270SIM	Fluoranthene	0.0325		0.0105	0.00526	mg/kg	1	N
INC-SB54-010	1701152-03	1/16/2017	SW8270SIM	Fluorene	ND	U	0.0105	0.00526	mg/kg	1	N
INC-SB54-010	1701152-03	1/16/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.0177		0.0105	0.00526	mg/kg	1	N
INC-SB54-010	1701152-03	1/16/2017	SW8270SIM	Naphthalene	ND	U	0.0105	0.00526	mg/kg	1	N
INC-SB54-010	1701152-03	1/16/2017	SW8270SIM	Phenanthrene	0.0152		0.0105	0.00526	mg/kg	1	N
INC-SB54-010	1701152-03	1/16/2017	SW8270SIM	Pyrene	0.0277		0.0105	0.00526	mg/kg	1	N
INC-SB54-020	1701152-04	1/16/2017	D2216	Percent moisture	16.6		NA	NA	%	1	N
INC-SB54-020	1701152-04	1/16/2017	SW6020A	Antimony	ND	U	1.12	0.560	mg/kg	5	N
INC-SB54-020	1701152-04	1/16/2017	SW6020A	Arsenic	1.70		1.12	0.560	mg/kg	5	N
INC-SB54-020	1701152-04	1/16/2017	SW6020A	Barium	12.4		2.24	0.560	mg/kg	5	N
INC-SB54-020	1701152-04	1/16/2017	SW6020A	Beryllium	ND	U	0.336	0.112	mg/kg	5	N
INC-SB54-020	1701152-04	1/16/2017	SW6020A	Cadmium	ND	U	0.336	0.112	mg/kg	5	N
INC-SB54-020	1701152-04	1/16/2017	SW6020A	Chromium, total	2.66	JH	2.24	0.560	mg/kg	5	N
INC-SB54-020	1701152-04	1/16/2017	SW6020A	Lead	4.95		0.336	0.112	mg/kg	5	N
INC-SB54-020	1701152-04	1/16/2017	SW6020A	Nickel	1.94	J	2.24	0.560	mg/kg	5	N
INC-SB54-020	1701152-04	1/16/2017	SW6020A	Selenium	0.400	J	0.560	0.168	mg/kg	5	N
INC-SB54-020	1701152-04	1/16/2017	SW6020A	Silver	ND	U	0.226	0.113	mg/kg	5	N
INC-SB54-020	1701152-04	1/16/2017	SW7471B	Mercury	ND	U	0.0421	0.0168	mg/kg	1	N
INC-SB54-020	1701152-04	1/16/2017	SW8270SIM	Acenaphthene	ND	U	0.0118	0.00592	mg/kg	1	N
INC-SB54-020	1701152-04	1/16/2017	SW8270SIM	Acenaphthylene	ND	U	0.0118	0.00592	mg/kg	1	N
INC-SB54-020	1701152-04	1/16/2017	SW8270SIM	Anthracene	ND	U	0.0118	0.00592	mg/kg	1	N
INC-SB54-020	1701152-04	1/16/2017	SW8270SIM	Benzo(a)anthracene	0.00844	J	0.0118	0.00592	mg/kg	1	N
INC-SB54-020	1701152-04	1/16/2017	SW8270SIM	Benzo(a)pyrene	0.0101	J	0.0118	0.00592	mg/kg	1	N
INC-SB54-020	1701152-04	1/16/2017	SW8270SIM	Benzo(b)fluoranthene	0.0105	J	0.0118	0.00592	mg/kg	1	N
INC-SB54-020	1701152-04	1/16/2017	SW8270SIM	Benzo(g,h,i)perylene	0.00830	J	0.0118	0.00592	mg/kg	1	N
INC-SB54-020	1701152-04	1/16/2017	SW8270SIM	Benzo(k)fluoranthene	ND	U	0.0118	0.00592	mg/kg	1	N
INC-SB54-020	1701152-04	1/16/2017	SW8270SIM	Chrysene	0.00978	J	0.0118	0.00592	mg/kg	1	N
INC-SB54-020	1701152-04	1/16/2017	SW8270SIM	Dibenz(a,h)anthracene	ND	U	0.0118	0.00592	mg/kg	1	N
INC-SB54-020	1701152-04	1/16/2017	SW8270SIM	Fluoranthene	0.0199		0.0118	0.00592	mg/kg	1	N
INC-SB54-020	1701152-04	1/16/2017	SW8270SIM	Fluorene	ND	U	0.0118	0.00592	mg/kg	1	N
INC-SB54-020	1701152-04	1/16/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.00807	J	0.0118	0.00592	mg/kg	1	N
INC-SB54-020	1701152-04	1/16/2017	SW8270SIM	Naphthalene	ND	U	0.0118	0.00592	mg/kg	1	N
INC-SB54-020	1701152-04	1/16/2017	SW8270SIM	Phenanthrene	0.00755	J	0.0118	0.00592	mg/kg	1	N
INC-SB54-020	1701152-04	1/16/2017	SW8270SIM	Pyrene	0.0173		0.0118	0.00592	mg/kg	1	N
INC-SB55-010	1701152-05	1/16/2017	D2216	Percent moisture	20.7		NA	NA	%	1	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-SB55-010	1701152-05	1/16/2017	SW6020A	Antimony	10.1		1.19	0.595	mg/kg	5	N
INC-SB55-010	1701152-05	1/16/2017	SW6020A	Arsenic	11.6		1.19	0.595	mg/kg	5	N
INC-SB55-010	1701152-05	1/16/2017	SW6020A	Barium	577		23.8	5.95	mg/kg	50	N
INC-SB55-010	1701152-05	1/16/2017	SW6020A	Beryllium	0.295	J	0.357	0.119	mg/kg	5	N
INC-SB55-010	1701152-05	1/16/2017	SW6020A	Cadmium	3.54		0.357	0.119	mg/kg	5	N
INC-SB55-010	1701152-05	1/16/2017	SW6020A	Chromium, total	55.2	JH	2.38	0.595	mg/kg	5	N
INC-SB55-010	1701152-05	1/16/2017	SW6020A	Lead	1030		3.57	1.19	mg/kg	50	N
INC-SB55-010	1701152-05	1/16/2017	SW6020A	Nickel	49.5		2.38	0.595	mg/kg	5	N
INC-SB55-010	1701152-05	1/16/2017	SW6020A	Selenium	0.590	J	0.595	0.179	mg/kg	5	N
INC-SB55-010	1701152-05	1/16/2017	SW6020A	Silver	7.13		0.240	0.120	mg/kg	5	N
INC-SB55-010	1701152-05	1/16/2017	SW7471B	Mercury	0.154		0.0484	0.0193	mg/kg	1	N
INC-SB55-010	1701152-05	1/16/2017	SW8270SIM	Acenaphthene	0.00605	J	0.0120	0.00600	mg/kg	1	N
INC-SB55-010	1701152-05	1/16/2017	SW8270SIM	Acenaphthylene	0.0870		0.0120	0.00600	mg/kg	1	N
INC-SB55-010	1701152-05	1/16/2017	SW8270SIM	Anthracene	0.457		0.0120	0.00600	mg/kg	1	N
INC-SB55-010	1701152-05	1/16/2017	SW8270SIM	Benzo(a)anthracene	0.0924		0.0120	0.00600	mg/kg	1	N
INC-SB55-010	1701152-05	1/16/2017	SW8270SIM	Benzo(a)pyrene	0.0985		0.0120	0.00600	mg/kg	1	N
INC-SB55-010	1701152-05	1/16/2017	SW8270SIM	Benzo(b)fluoranthene	0.116		0.0120	0.00600	mg/kg	1	N
INC-SB55-010	1701152-05	1/16/2017	SW8270SIM	Benzo(g,h,i)perylene	0.169		0.0120	0.00600	mg/kg	1	N
INC-SB55-010	1701152-05	1/16/2017	SW8270SIM	Benzo(k)fluoranthene	0.0521		0.0120	0.00600	mg/kg	1	N
INC-SB55-010	1701152-05	1/16/2017	SW8270SIM	Chrysene	0.124		0.0120	0.00600	mg/kg	1	N
INC-SB55-010	1701152-05	1/16/2017	SW8270SIM	Dibenz(a,h)anthracene	0.0163		0.0120	0.00600	mg/kg	1	N
INC-SB55-010	1701152-05	1/16/2017	SW8270SIM	Fluoranthene	0.177		0.0120	0.00600	mg/kg	1	N
INC-SB55-010	1701152-05	1/16/2017	SW8270SIM	Fluorene	0.0393		0.0120	0.00600	mg/kg	1	N
INC-SB55-010	1701152-05	1/16/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.115		0.0120	0.00600	mg/kg	1	N
INC-SB55-010	1701152-05	1/16/2017	SW8270SIM	Naphthalene	0.00996	J	0.0120	0.00600	mg/kg	1	N
INC-SB55-010	1701152-05	1/16/2017	SW8270SIM	Phenanthrene	0.110		0.0120	0.00600	mg/kg	1	N
INC-SB55-010	1701152-05	1/16/2017	SW8270SIM	Pyrene	0.163		0.0120	0.00600	mg/kg	1	N
INC-SB55-020	1701152-06	1/16/2017	D2216	Percent moisture	19.9		NA	NA	%	1	N
INC-SB55-020	1701152-06	1/16/2017	SW6020A	Antimony	76.6		1.19	0.594	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW6020A	Arsenic	64.2		1.19	0.594	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW6020A	Barium	1820		23.8	5.94	mg/kg	50	N
INC-SB55-020	1701152-06	1/16/2017	SW6020A	Beryllium	0.134	J	0.357	0.119	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW6020A	Cadmium	6.58		0.357	0.119	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW6020A	Chromium, total	117	JH	2.38	0.594	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW6020A	Lead	6140		3.57	1.19	mg/kg	50	N
INC-SB55-020	1701152-06	1/16/2017	SW6020A	Nickel	129		2.38	0.594	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW6020A	Selenium	0.816		0.594	0.178	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW6020A	Silver	11.7		0.247	0.124	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW7471B	Mercury	1.51		0.229	0.0917	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW8270SIM	Acenaphthene	0.834		0.0621	0.0311	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW8270SIM	Acenaphthylene	0.280		0.0621	0.0311	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW8270SIM	Anthracene	ND	U	0.0621	0.0311	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW8270SIM	Benzo(a)anthracene	1.68		0.0621	0.0311	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW8270SIM	Benzo(a)pyrene	2.53		0.0621	0.0311	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW8270SIM	Benzo(b)fluoranthene	2.18		0.0621	0.0311	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW8270SIM	Benzo(g,h,i)perylene	2.01		0.0621	0.0311	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW8270SIM	Benzo(k)fluoranthene	0.935		0.0621	0.0311	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW8270SIM	Chrysene	1.99		0.0621	0.0311	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW8270SIM	Dibenz(a,h)anthracene	0.434		0.0621	0.0311	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW8270SIM	Fluoranthene	1.97		0.0621	0.0311	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW8270SIM	Fluorene	1.18		0.0621	0.0311	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	2.00		0.0621	0.0311	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW8270SIM	Naphthalene	0.0841		0.0621	0.0311	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW8270SIM	Phenanthrene	1.23		0.0621	0.0311	mg/kg	5	N
INC-SB55-020	1701152-06	1/16/2017	SW8270SIM	Pyrene	2.22		0.0621	0.0311	mg/kg	5	N
INC-SB55-030	1701152-07	1/16/2017	D2216	Percent moisture	17.3		NA	NA	%	1	N
INC-SB55-030	1701152-07	1/16/2017	SW6020A	Antimony	ND	U	1.16	0.581	mg/kg	5	N
INC-SB55-030	1701152-07	1/16/2017	SW6020A	Arsenic	1.73		1.16	0.581	mg/kg	5	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-SB55-030	1701152-07	1/16/2017	SW6020A	Barium	5.31		2.32	0.581	mg/kg	5	N
INC-SB55-030	1701152-07	1/16/2017	SW6020A	Beryllium	0.124	J	0.349	0.116	mg/kg	5	N
INC-SB55-030	1701152-07	1/16/2017	SW6020A	Cadmium	ND	U	0.349	0.116	mg/kg	5	N
INC-SB55-030	1701152-07	1/16/2017	SW6020A	Chromium, total	3.29	JH	2.32	0.581	mg/kg	5	N
INC-SB55-030	1701152-07	1/16/2017	SW6020A	Lead	5.92		0.349	0.116	mg/kg	5	N
INC-SB55-030	1701152-07	1/16/2017	SW6020A	Nickel	4.30		2.32	0.581	mg/kg	5	N
INC-SB55-030	1701152-07	1/16/2017	SW6020A	Selenium	0.823		0.581	0.174	mg/kg	5	N
INC-SB55-030	1701152-07	1/16/2017	SW6020A	Silver	ND	U	0.210	0.105	mg/kg	5	N
INC-SB55-030	1701152-07	1/16/2017	SW7471B	Mercury	ND	U	0.0428	0.0171	mg/kg	1	N
INC-SB55-030	1701152-07	1/16/2017	SW8270SIM	Acenaphthene	ND	U	0.0115	0.00573	mg/kg	1	N
INC-SB55-030	1701152-07	1/16/2017	SW8270SIM	Acenaphthylene	ND	U	0.0115	0.00573	mg/kg	1	N
INC-SB55-030	1701152-07	1/16/2017	SW8270SIM	Anthracene	ND	U	0.0115	0.00573	mg/kg	1	N
INC-SB55-030	1701152-07	1/16/2017	SW8270SIM	Benzo(a)anthracene	ND	U	0.0115	0.00573	mg/kg	1	N
INC-SB55-030	1701152-07	1/16/2017	SW8270SIM	Benzo(a)pyrene	ND	U	0.0115	0.00573	mg/kg	1	N
INC-SB55-030	1701152-07	1/16/2017	SW8270SIM	Benzo(b)fluoranthene	ND	U	0.0115	0.00573	mg/kg	1	N
INC-SB55-030	1701152-07	1/16/2017	SW8270SIM	Benzo(g,h,i)perylene	ND	U	0.0115	0.00573	mg/kg	1	N
INC-SB55-030	1701152-07	1/16/2017	SW8270SIM	Benzo(k)fluoranthene	ND	U	0.0115	0.00573	mg/kg	1	N
INC-SB55-030	1701152-07	1/16/2017	SW8270SIM	Chrysene	ND	U	0.0115	0.00573	mg/kg	1	N
INC-SB55-030	1701152-07	1/16/2017	SW8270SIM	Dibenz(a,h)anthracene	ND	U	0.0115	0.00573	mg/kg	1	N
INC-SB55-030	1701152-07	1/16/2017	SW8270SIM	Fluoranthene	ND	U	0.0115	0.00573	mg/kg	1	N
INC-SB55-030	1701152-07	1/16/2017	SW8270SIM	Fluorene	ND	U	0.0115	0.00573	mg/kg	1	N
INC-SB55-030	1701152-07	1/16/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	ND	U	0.0115	0.00573	mg/kg	1	N
INC-SB55-030	1701152-07	1/16/2017	SW8270SIM	Naphthalene	ND	U	0.0115	0.00573	mg/kg	1	N
INC-SB55-030	1701152-07	1/16/2017	SW8270SIM	Phenanthrene	0.00742	J	0.0115	0.00573	mg/kg	1	N
INC-SB55-030	1701152-07	1/16/2017	SW8270SIM	Pyrene	ND	U	0.0115	0.00573	mg/kg	1	N
INC-SB56-010	1701152-08	1/16/2017	D2216	Percent moisture	35.0		NA	NA	%	1	N
INC-SB56-010	1701152-08	1/16/2017	SW6020A	Antimony	34.2		1.47	0.733	mg/kg	5	N
INC-SB56-010	1701152-08	1/16/2017	SW6020A	Arsenic	55.9		1.47	0.733	mg/kg	5	N
INC-SB56-010	1701152-08	1/16/2017	SW6020A	Barium	1210		29.3	7.33	mg/kg	50	N
INC-SB56-010	1701152-08	1/16/2017	SW6020A	Beryllium	0.264	J	0.440	0.147	mg/kg	5	N
INC-SB56-010	1701152-08	1/16/2017	SW6020A	Cadmium	11.4		0.440	0.147	mg/kg	5	N
INC-SB56-010	1701152-08	1/16/2017	SW6020A	Chromium, total	157	JH	2.93	0.733	mg/kg	5	N
INC-SB56-010	1701152-08	1/16/2017	SW6020A	Lead	2010		4.40	1.47	mg/kg	50	N
INC-SB56-010	1701152-08	1/16/2017	SW6020A	Nickel	87.7		2.93	0.733	mg/kg	5	N
INC-SB56-010	1701152-08	1/16/2017	SW6020A	Selenium	0.776		0.733	0.220	mg/kg	5	N
INC-SB56-010	1701152-08	1/16/2017	SW6020A	Silver	9.42		0.296	0.148	mg/kg	5	N
INC-SB56-010	1701152-08	1/16/2017	SW7471B	Mercury	1.21		0.289	0.115	mg/kg	5	N
INC-SB56-010	1701152-08	1/16/2017	SW8270SIM	Acenaphthene	0.0297		0.0142	0.00711	mg/kg	1	N
INC-SB56-010	1701152-08	1/16/2017	SW8270SIM	Acenaphthylene	0.858		0.0142	0.00711	mg/kg	1	N
INC-SB56-010	1701152-08	1/16/2017	SW8270SIM	Anthracene	1.76		0.0142	0.00711	mg/kg	1	N
INC-SB56-010	1701152-08	1/16/2017	SW8270SIM	Benzo(a)anthracene	0.217		0.0142	0.00711	mg/kg	1	N
INC-SB56-010	1701152-08	1/16/2017	SW8270SIM	Benzo(a)pyrene	0.186		0.0142	0.00711	mg/kg	1	N
INC-SB56-010	1701152-08	1/16/2017	SW8270SIM	Benzo(b)fluoranthene	0.218		0.0142	0.00711	mg/kg	1	N
INC-SB56-010	1701152-08	1/16/2017	SW8270SIM	Benzo(g,h,i)perylene	0.336		0.0142	0.00711	mg/kg	1	N
INC-SB56-010	1701152-08	1/16/2017	SW8270SIM	Benzo(k)fluoranthene	0.0922		0.0142	0.00711	mg/kg	1	N
INC-SB56-010	1701152-08	1/16/2017	SW8270SIM	Chrysene	0.231		0.0142	0.00711	mg/kg	1	N
INC-SB56-010	1701152-08	1/16/2017	SW8270SIM	Dibenz(a,h)anthracene	0.0285		0.0142	0.00711	mg/kg	1	N
INC-SB56-010	1701152-08	1/16/2017	SW8270SIM	Fluoranthene	0.337		0.0142	0.00711	mg/kg	1	N
INC-SB56-010	1701152-08	1/16/2017	SW8270SIM	Fluorene	0.392		0.0142	0.00711	mg/kg	1	N
INC-SB56-010	1701152-08	1/16/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.219		0.0142	0.00711	mg/kg	1	N
INC-SB56-010	1701152-08	1/16/2017	SW8270SIM	Naphthalene	0.0266		0.0142	0.00711	mg/kg	1	N
INC-SB56-010	1701152-08	1/16/2017	SW8270SIM	Phenanthrene	0.323		0.0142	0.00711	mg/kg	1	N
INC-SB56-010	1701152-08	1/16/2017	SW8270SIM	Pyrene	0.419		0.0142	0.00711	mg/kg	1	N
INC-SB56-020	1701152-09	1/16/2017	D2216	Percent moisture	25.4		NA	NA	%	1	N
INC-SB56-020	1701152-09	1/16/2017	SW6020A	Antimony	25.1		1.33	0.664	mg/kg	5	N
INC-SB56-020	1701152-09	1/16/2017	SW6020A	Arsenic	31.1		1.33	0.664	mg/kg	5	N
INC-SB56-020	1701152-09	1/16/2017	SW6020A	Barium	1040		26.6	6.64	mg/kg	50	N
INC-SB56-020	1701152-09	1/16/2017	SW6020A	Beryllium	0.407		0.398	0.133	mg/kg	5	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-SB56-020	1701152-09	1/16/2017	SW6020A	Cadmium	8.66		0.398	0.133	mg/kg	5	N
INC-SB56-020	1701152-09	1/16/2017	SW6020A	Chromium, total	73.9	JH	2.66	0.664	mg/kg	5	N
INC-SB56-020	1701152-09	1/16/2017	SW6020A	Lead	1390		3.98	1.33	mg/kg	50	N
INC-SB56-020	1701152-09	1/16/2017	SW6020A	Nickel	65.6		2.66	0.664	mg/kg	5	N
INC-SB56-020	1701152-09	1/16/2017	SW6020A	Selenium	0.922		0.664	0.199	mg/kg	5	N
INC-SB56-020	1701152-09	1/16/2017	SW6020A	Silver	8.16		0.258	0.129	mg/kg	5	N
INC-SB56-020	1701152-09	1/16/2017	SW7471B	Mercury	0.504		0.0489	0.0196	mg/kg	1	N
INC-SB56-020	1701152-09	1/16/2017	SW8270SIM	Acenaphthene	0.0140		0.0123	0.00617	mg/kg	1	N
INC-SB56-020	1701152-09	1/16/2017	SW8270SIM	Acenaphthylene	0.152		0.0123	0.00617	mg/kg	1	N
INC-SB56-020	1701152-09	1/16/2017	SW8270SIM	Anthracene	0.775		0.0123	0.00617	mg/kg	1	N
INC-SB56-020	1701152-09	1/16/2017	SW8270SIM	Benzo(a)anthracene	0.179		0.0123	0.00617	mg/kg	1	N
INC-SB56-020	1701152-09	1/16/2017	SW8270SIM	Benzo(a)pyrene	0.180		0.0123	0.00617	mg/kg	1	N
INC-SB56-020	1701152-09	1/16/2017	SW8270SIM	Benzo(b)fluoranthene	0.189		0.0123	0.00617	mg/kg	1	N
INC-SB56-020	1701152-09	1/16/2017	SW8270SIM	Benzo(g,h,i)perylene	0.212		0.0123	0.00617	mg/kg	1	N
INC-SB56-020	1701152-09	1/16/2017	SW8270SIM	Benzo(k)fluoranthene	0.0926		0.0123	0.00617	mg/kg	1	N
INC-SB56-020	1701152-09	1/16/2017	SW8270SIM	Chrysene	0.208		0.0123	0.00617	mg/kg	1	N
INC-SB56-020	1701152-09	1/16/2017	SW8270SIM	Dibenz(a,h)anthracene	0.0289		0.0123	0.00617	mg/kg	1	N
INC-SB56-020	1701152-09	1/16/2017	SW8270SIM	Fluoranthene	0.318		0.0123	0.00617	mg/kg	1	N
INC-SB56-020	1701152-09	1/16/2017	SW8270SIM	Fluorene	0.0793		0.0123	0.00617	mg/kg	1	N
INC-SB56-020	1701152-09	1/16/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.168		0.0123	0.00617	mg/kg	1	N
INC-SB56-020	1701152-09	1/16/2017	SW8270SIM	Naphthalene	0.0146		0.0123	0.00617	mg/kg	1	N
INC-SB56-020	1701152-09	1/16/2017	SW8270SIM	Phenanthrene	0.202		0.0123	0.00617	mg/kg	1	N
INC-SB56-020	1701152-09	1/16/2017	SW8270SIM	Pyrene	0.290		0.0123	0.00617	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	D2216	Percent moisture	21.3		NA	NA	%	1	N
INC-SB57-010	1701264-11	1/26/2017	SW6020A	Antimony	8.68		1.21	0.605	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW6020A	Arsenic	11.5		1.21	0.605	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW6020A	Barium	675		24.2	6.05	mg/kg	50	N
INC-SB57-010	1701264-11	1/26/2017	SW6020A	Beryllium	0.349	J	0.363	0.121	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW6020A	Cadmium	8.61		0.363	0.121	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW6020A	Chromium, total	66.5		2.42	0.605	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW6020A	Lead	701	JL	3.63	1.21	mg/kg	50	N
INC-SB57-010	1701264-11	1/26/2017	SW6020A	Nickel	43.7		2.42	0.605	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW6020A	Selenium	3.78	J	0.605	0.182	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW6020A	Silver	3.04		0.242	0.121	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW7471B	Mercury	0.177		0.0499	0.0200	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8082A	Aroclor 1016	ND	UJ	0.123	0.0616	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8082A	Aroclor 1221	ND	U	0.123	0.0616	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8082A	Aroclor 1232	ND	U	0.123	0.0616	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8082A	Aroclor 1242	ND	UJ	0.123	0.0616	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8082A	Aroclor 1248	ND	UJ	0.123	0.0616	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8082A	Aroclor 1254	ND	UJ	0.123	0.0616	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8082A	Aroclor 1260	0.0974	JL	0.123	0.0616	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,1,1,2-Tetrachloroethane	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,1,1-Trichloroethane	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,1,2,2-Tetrachloroethane	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,1,2-Trichloroethane	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,1,2-Trichlorotrifluoroethane	ND	U	0.0249	0.00832	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,1-Dichloroethane	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,1-Dichloroethene	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,1-Dichloropropene	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,2,3-Trichlorobenzene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,2,3-Trichloropropane	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,2,4-Trichlorobenzene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,2,4-Trimethylbenzene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,2-Dibromo-3-chloropropane	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,2-Dibromoethane	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,2-Dichlorobenzene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,2-Dichloroethane	ND	U	0.00832	0.00166	mg/kg	1	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,2-Dichloropropane	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,3,5-Trimethylbenzene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,3-Dichlorobenzene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,3-Dichloropropane	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1,4-Dichlorobenzene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	1-Chlorohexane	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	2,2-Dichloropropane	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	2-Butanone(MEK)	ND	U	0.0249	0.00832	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	2-Chlorotoluene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	2-Hexanone	ND	U	0.0249	0.00832	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	4-Chlorotoluene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	4-Methyl-2-pentanone(MIBK)	ND	U	0.0249	0.00832	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Acetone	ND	U	0.0832	0.0249	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Benzene	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Bromobenzene	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Bromochloromethane	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Bromodichloromethane	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Bromoform	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Bromomethane	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Carbon disulfide	ND	U	0.0249	0.00832	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Carbon tetrachloride	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Chlorobenzene	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Chloroethane	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Chloroform	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Chloromethane	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	cis-1,2-Dichloroethene	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	cis-1,3-Dichloropropene	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Cyclohexane	ND	UX7	0.0249	0.00832	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Dibromochloromethane	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Dibromomethane	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Dichlorodifluoromethane	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Ethylbenzene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Hexachlorobutadiene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Isopropylbenzene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	m & p-Xylene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Methyl acetate	ND	U	0.0249	0.00832	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Methyl t-butyl ether	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Methylcyclohexane	ND	U	0.0249	0.00832	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Methylene chloride	ND	U	0.00832	0.00832	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Naphthalene	ND	UJL	0.0249	0.00832	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	n-Butylbenzene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	n-Propylbenzene	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	o-Xylene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	p-Isopropyltoluene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	sec-Butylbenzene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Styrene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	tert-Butylbenzene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Tetrachloroethene	ND	UJL	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Toluene	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	trans-1,2-Dichloroethene	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	trans-1,3-Dichloropropene	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Trichloroethene	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Trichlorofluoromethane	ND	U	0.0249	0.00832	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8260C	Vinyl chloride	ND	U	0.00832	0.00166	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	SW8270SIM	Acenaphthene	ND	U	0.0603	0.0302	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW8270SIM	Acenaphthylene	0.211		0.0603	0.0302	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW8270SIM	Anthracene	0.963		0.0603	0.0302	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW8270SIM	Benzo(a)anthracene	0.193		0.0603	0.0302	mg/kg	5	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-SB57-010	1701264-11	1/26/2017	SW8270SIM	Benzo(a)pyrene	0.232		0.0603	0.0302	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW8270SIM	Benzo(b)fluoranthene	0.278		0.0603	0.0302	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW8270SIM	Benzo(g,h,i)perylene	0.339		0.0603	0.0302	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW8270SIM	Benzo(k)fluoranthene	0.131		0.0603	0.0302	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW8270SIM	Chrysene	0.248		0.0603	0.0302	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW8270SIM	Dibenz(a,h)anthracene	0.0448	J	0.0603	0.0302	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW8270SIM	Fluoranthene	0.413		0.0603	0.0302	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW8270SIM	Fluorene	0.302		0.0603	0.0302	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.290		0.0603	0.0302	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW8270SIM	Naphthalene	ND	U	0.0603	0.0302	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW8270SIM	Phenanthrene	0.337		0.0603	0.0302	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	SW8270SIM	Pyrene	0.394		0.0603	0.0302	mg/kg	5	N
INC-SB57-010	1701264-11	1/26/2017	TX1005	T/R Hydrocarbons: >C12-C28	336		28.1	9.85	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	TX1005	T/R Hydrocarbons: >C28-C35	46.9		28.1	9.85	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	TX1005	T/R Hydrocarbons: C6-C12	ND	U	28.1	9.85	mg/kg	1	N
INC-SB57-010	1701264-11	1/26/2017	TX1005	T/R Hydrocarbons: C6-C35	383		28.1	9.85	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	D2216	Percent moisture	16.8		NA	NA	%	1	N
INC-SB57-020	1701264-12	1/26/2017	SW6020A	Antimony	148		120	60.1	mg/kg	500	N
INC-SB57-020	1701264-12	1/26/2017	SW6020A	Arsenic	49.1		1.20	0.601	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW6020A	Barium	936		240	60.1	mg/kg	500	N
INC-SB57-020	1701264-12	1/26/2017	SW6020A	Beryllium	0.190	J	0.361	0.120	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW6020A	Cadmium	15.9		0.361	0.120	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW6020A	Chromium, total	121		2.40	0.601	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW6020A	Lead	28000	JL	36.1	12.0	mg/kg	500	N
INC-SB57-020	1701264-12	1/26/2017	SW6020A	Nickel	95.7		2.40	0.601	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW6020A	Selenium	1.18	J	0.601	0.180	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW6020A	Silver	9.46		0.240	0.120	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW7471B	Mercury	0.597		0.221	0.0885	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW8082A	Aroclor 1016	ND	U	0.114	0.0568	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8082A	Aroclor 1221	ND	U	0.114	0.0568	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8082A	Aroclor 1232	ND	U	0.114	0.0568	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8082A	Aroclor 1242	ND	UJ	0.114	0.0568	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8082A	Aroclor 1248	ND	UJ	0.114	0.0568	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8082A	Aroclor 1254	ND	UJ	0.114	0.0568	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8082A	Aroclor 1260	ND	UJ	0.114	0.0568	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,1,1,2-Tetrachloroethane	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,1,1-Trichloroethane	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,1,2,2-Tetrachloroethane	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,1,2-Trichloroethane	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,1,2-Trichlorotrifluoroethane	ND	U	0.0193	0.00642	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,1-Dichloroethane	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,1-Dichloroethene	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,1-Dichloropropene	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,2,3-Trichlorobenzene	ND	UJL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,2,3-Trichloropropane	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,2,4-Trichlorobenzene	ND	UJL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,2,4-Trimethylbenzene	0.00460	JL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,2-Dibromo-3-chloropropane	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,2-Dibromoethane	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,2-Dichlorobenzene	ND	UJL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,2-Dichloroethane	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,2-Dichloropropane	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,3,5-Trimethylbenzene	ND	UJL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,3-Dichlorobenzene	ND	UJL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,3-Dichloropropane	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1,4-Dichlorobenzene	ND	UJL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	1-Chlorohexane	ND	UJL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	2,2-Dichloropropane	ND	U	0.00642	0.00128	mg/kg	1	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-SB57-020	1701264-12	1/26/2017	SW8260C	2-Butanone(MEK)	0.141		0.0193	0.00642	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	2-Chlorotoluene	ND	UJL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	2-Hexanone	ND	U	0.0193	0.00642	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	4-Chlorotoluene	ND	UJL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	4-Methyl-2-pentanone(MIBK)	ND	U	0.0193	0.00642	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Acetone	0.440		0.0642	0.0193	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Benzene	0.00139	J	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Bromobenzene	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Bromochloromethane	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Bromodichloromethane	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Bromoform	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Bromomethane	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Carbon disulfide	0.00690	J	0.0193	0.00642	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Carbon tetrachloride	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Chlorobenzene	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Chloroethane	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Chloroform	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Chloromethane	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	cis-1,2-Dichloroethene	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	cis-1,3-Dichloropropene	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Cyclohexane	ND	UX7	0.0193	0.00642	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Dibromochloromethane	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Dibromomethane	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Dichlorodifluoromethane	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Ethylbenzene	ND	UJL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Hexachlorobutadiene	ND	UJL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Isopropylbenzene	0.00897	JL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	m & p-Xylene	0.00148	JL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Methyl acetate	ND	U	0.0193	0.00642	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Methyl t-butyl ether	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Methylcyclohexane	0.0283		0.0193	0.00642	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Methylene chloride	ND	U	0.00642	0.00642	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Naphthalene	0.0179	JL	0.0193	0.00642	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	n-Butylbenzene	0.0327	JL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	n-Propylbenzene	0.0218		0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	o-Xylene	0.00221	JL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	p-Isopropyltoluene	ND	UJL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	sec-Butylbenzene	0.0467	JL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Styrene	ND	UJL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	tert-Butylbenzene	0.00457	JL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Tetrachloroethene	ND	UJL	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Toluene	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	trans-1,2-Dichloroethene	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	trans-1,3-Dichloropropene	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Trichloroethene	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Trichlorofluoromethane	ND	U	0.0193	0.00642	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8260C	Vinyl chloride	ND	U	0.00642	0.00128	mg/kg	1	N
INC-SB57-020	1701264-12	1/26/2017	SW8270SIM	Acenaphthene	1.15		0.0601	0.0300	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW8270SIM	Acenaphthylene	ND	U	0.0601	0.0300	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW8270SIM	Anthracene	ND	U	0.0601	0.0300	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW8270SIM	Benzo(a)anthracene	0.193		0.0601	0.0300	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW8270SIM	Benzo(a)pyrene	0.205		0.0601	0.0300	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW8270SIM	Benzo(b)fluoranthene	0.214		0.0601	0.0300	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW8270SIM	Benzo(g,h,i)perylene	0.245		0.0601	0.0300	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW8270SIM	Benzo(k)fluoranthene	0.0975		0.0601	0.0300	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW8270SIM	Chrysene	0.635		0.0601	0.0300	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW8270SIM	Dibenz(a,h)anthracene	0.0311	J	0.0601	0.0300	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW8270SIM	Fluoranthene	0.809		0.0601	0.0300	mg/kg	5	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-SB57-020	1701264-12	1/26/2017	SW8270SIM	Fluorene	1.48		0.0601	0.0300	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.169		0.0601	0.0300	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW8270SIM	Naphthalene	0.372		0.0601	0.0300	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW8270SIM	Phenanthrene	2.20		0.0601	0.0300	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	SW8270SIM	Pyrene	0.908		0.0601	0.0300	mg/kg	5	N
INC-SB57-020	1701264-12	1/26/2017	TX1005	T/R Hydrocarbons: >C12-C28	22900	JH	2510	879	mg/kg	100	N
INC-SB57-020	1701264-12	1/26/2017	TX1005	T/R Hydrocarbons: >C28-C35	ND	U	2510	879	mg/kg	100	N
INC-SB57-020	1701264-12	1/26/2017	TX1005	T/R Hydrocarbons: C6-C12	13300	JH	2510	879	mg/kg	100	N
INC-SB57-020	1701264-12	1/26/2017	TX1005	T/R Hydrocarbons: C6-C35	36200	JH	2510	879	mg/kg	100	N
INC-SB58-013	1701152-10	1/16/2017	D2216	Percent moisture	21.9		NA	NA	%	1	N
INC-SB58-013	1701152-10	1/16/2017	SW6020A	Antimony	3.39		1.22	0.609	mg/kg	5	N
INC-SB58-013	1701152-10	1/16/2017	SW6020A	Arsenic	9.08		1.22	0.609	mg/kg	5	N
INC-SB58-013	1701152-10	1/16/2017	SW6020A	Barium	487		2.44	0.609	mg/kg	5	N
INC-SB58-013	1701152-10	1/16/2017	SW6020A	Beryllium	0.236	J	0.366	0.122	mg/kg	5	N
INC-SB58-013	1701152-10	1/16/2017	SW6020A	Cadmium	1.45		0.366	0.122	mg/kg	5	N
INC-SB58-013	1701152-10	1/16/2017	SW6020A	Chromium, total	23.1	JH	2.44	0.609	mg/kg	5	N
INC-SB58-013	1701152-10	1/16/2017	SW6020A	Lead	507		0.366	0.122	mg/kg	5	N
INC-SB58-013	1701152-10	1/16/2017	SW6020A	Nickel	21.2		2.44	0.609	mg/kg	5	N
INC-SB58-013	1701152-10	1/16/2017	SW6020A	Selenium	0.672		0.609	0.183	mg/kg	5	N
INC-SB58-013	1701152-10	1/16/2017	SW6020A	Silver	0.635		0.235	0.117	mg/kg	5	N
INC-SB58-013	1701152-10	1/16/2017	SW7471B	Mercury	0.0821		0.0454	0.0181	mg/kg	1	N
INC-SB58-013	1701152-10	1/16/2017	SW8270SIM	Acenaphthene	0.0290		0.0119	0.00596	mg/kg	1	N
INC-SB58-013	1701152-10	1/16/2017	SW8270SIM	Acenaphthylene	0.0287		0.0119	0.00596	mg/kg	1	N
INC-SB58-013	1701152-10	1/16/2017	SW8270SIM	Anthracene	0.183		0.0119	0.00596	mg/kg	1	N
INC-SB58-013	1701152-10	1/16/2017	SW8270SIM	Benzo(a)anthracene	0.232		0.0119	0.00596	mg/kg	1	N
INC-SB58-013	1701152-10	1/16/2017	SW8270SIM	Benzo(a)pyrene	0.240		0.0119	0.00596	mg/kg	1	N
INC-SB58-013	1701152-10	1/16/2017	SW8270SIM	Benzo(b)fluoranthene	0.238		0.0119	0.00596	mg/kg	1	N
INC-SB58-013	1701152-10	1/16/2017	SW8270SIM	Benzo(g,h,i)perylene	0.199		0.0119	0.00596	mg/kg	1	N
INC-SB58-013	1701152-10	1/16/2017	SW8270SIM	Benzo(k)fluoranthene	0.0994		0.0119	0.00596	mg/kg	1	N
INC-SB58-013	1701152-10	1/16/2017	SW8270SIM	Chrysene	0.258		0.0119	0.00596	mg/kg	1	N
INC-SB58-013	1701152-10	1/16/2017	SW8270SIM	Dibenz(a,h)anthracene	0.0340		0.0119	0.00596	mg/kg	1	N
INC-SB58-013	1701152-10	1/16/2017	SW8270SIM	Fluoranthene	0.530		0.0119	0.00596	mg/kg	1	N
INC-SB58-013	1701152-10	1/16/2017	SW8270SIM	Fluorene	0.0311		0.0119	0.00596	mg/kg	1	N
INC-SB58-013	1701152-10	1/16/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.193		0.0119	0.00596	mg/kg	1	N
INC-SB58-013	1701152-10	1/16/2017	SW8270SIM	Naphthalene	0.00730	J	0.0119	0.00596	mg/kg	1	N
INC-SB58-013	1701152-10	1/16/2017	SW8270SIM	Phenanthrene	0.288		0.0119	0.00596	mg/kg	1	N
INC-SB58-013	1701152-10	1/16/2017	SW8270SIM	Pyrene	0.401		0.0119	0.00596	mg/kg	1	N
INC-SB58-020	1701152-11	1/16/2017	D2216	Percent moisture	28.0		NA	NA	%	1	N
INC-SB58-020	1701152-11	1/16/2017	SW6020A	Antimony	32.6		1.35	0.674	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW6020A	Arsenic	70.8		1.35	0.674	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW6020A	Barium	504		2.70	0.674	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW6020A	Beryllium	0.198	J	0.404	0.135	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW6020A	Cadmium	24.9		0.404	0.135	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW6020A	Chromium, total	74.8	JH	2.70	0.674	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW6020A	Lead	1780		4.04	1.35	mg/kg	50	N
INC-SB58-020	1701152-11	1/16/2017	SW6020A	Nickel	76.3		2.70	0.674	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW6020A	Selenium	4.11		0.674	0.202	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW6020A	Silver	3.32		0.275	0.137	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW7471B	Mercury	0.188		0.0512	0.0205	mg/kg	1	N
INC-SB58-020	1701152-11	1/16/2017	SW8270SIM	Acenaphthene	6.66		0.0653	0.0327	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW8270SIM	Acenaphthylene	ND	U	0.0653	0.0327	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW8270SIM	Anthracene	ND	U	0.0653	0.0327	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW8270SIM	Benzo(a)anthracene	0.346		0.0653	0.0327	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW8270SIM	Benzo(a)pyrene	0.301		0.0653	0.0327	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW8270SIM	Benzo(b)fluoranthene	0.316		0.0653	0.0327	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW8270SIM	Benzo(g,h,i)perylene	0.378		0.0653	0.0327	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW8270SIM	Benzo(k)fluoranthene	0.134		0.0653	0.0327	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW8270SIM	Chrysene	0.653		0.0653	0.0327	mg/kg	5	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-SB58-020	1701152-11	1/16/2017	SW8270SIM	Dibenz(a,h)anthracene	0.0372	J	0.0653	0.0327	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW8270SIM	Fluoranthene	1.81		0.0653	0.0327	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW8270SIM	Fluorene	ND	U	0.0653	0.0327	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.301		0.0653	0.0327	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW8270SIM	Naphthalene	ND	U	0.0653	0.0327	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW8270SIM	Phenanthrene	ND	U	0.0653	0.0327	mg/kg	5	N
INC-SB58-020	1701152-11	1/16/2017	SW8270SIM	Pyrene	2.47		0.0653	0.0327	mg/kg	5	N
INC-SB59-010	1701152-12	1/16/2017	D2216	Percent moisture	6.81		NA	NA	%	1	N
INC-SB59-010	1701152-12	1/16/2017	SW6020A	Antimony	1.36		1.02	0.511	mg/kg	5	N
INC-SB59-010	1701152-12	1/16/2017	SW6020A	Arsenic	1.36		1.02	0.511	mg/kg	5	N
INC-SB59-010	1701152-12	1/16/2017	SW6020A	Barium	37.2		2.04	0.511	mg/kg	5	N
INC-SB59-010	1701152-12	1/16/2017	SW6020A	Beryllium	ND	U	0.307	0.102	mg/kg	5	N
INC-SB59-010	1701152-12	1/16/2017	SW6020A	Cadmium	0.128	J	0.307	0.102	mg/kg	5	N
INC-SB59-010	1701152-12	1/16/2017	SW6020A	Chromium, total	4.06	JH	2.04	0.511	mg/kg	5	N
INC-SB59-010	1701152-12	1/16/2017	SW6020A	Lead	114		0.307	0.102	mg/kg	5	N
INC-SB59-010	1701152-12	1/16/2017	SW6020A	Nickel	2.41		2.04	0.511	mg/kg	5	N
INC-SB59-010	1701152-12	1/16/2017	SW6020A	Selenium	0.401	J	0.511	0.153	mg/kg	5	N
INC-SB59-010	1701152-12	1/16/2017	SW6020A	Silver	ND	U	0.201	0.100	mg/kg	5	N
INC-SB59-010	1701152-12	1/16/2017	SW7471B	Mercury	0.0358	J	0.0408	0.0163	mg/kg	1	N
INC-SB59-010	1701152-12	1/16/2017	SW8270SIM	Acenaphthene	0.00758	J	0.0102	0.00512	mg/kg	1	N
INC-SB59-010	1701152-12	1/16/2017	SW8270SIM	Acenaphthylene	0.0101	J	0.0102	0.00512	mg/kg	1	N
INC-SB59-010	1701152-12	1/16/2017	SW8270SIM	Anthracene	0.0142		0.0102	0.00512	mg/kg	1	N
INC-SB59-010	1701152-12	1/16/2017	SW8270SIM	Benzo(a)anthracene	0.0867		0.0102	0.00512	mg/kg	1	N
INC-SB59-010	1701152-12	1/16/2017	SW8270SIM	Benzo(a)pyrene	0.0891		0.0102	0.00512	mg/kg	1	N
INC-SB59-010	1701152-12	1/16/2017	SW8270SIM	Benzo(b)fluoranthene	0.0918		0.0102	0.00512	mg/kg	1	N
INC-SB59-010	1701152-12	1/16/2017	SW8270SIM	Benzo(g,h,i)perylene	0.0647		0.0102	0.00512	mg/kg	1	N
INC-SB59-010	1701152-12	1/16/2017	SW8270SIM	Benzo(k)fluoranthene	0.0433		0.0102	0.00512	mg/kg	1	N
INC-SB59-010	1701152-12	1/16/2017	SW8270SIM	Chrysene	0.0992		0.0102	0.00512	mg/kg	1	N
INC-SB59-010	1701152-12	1/16/2017	SW8270SIM	Dibenz(a,h)anthracene	0.0159		0.0102	0.00512	mg/kg	1	N
INC-SB59-010	1701152-12	1/16/2017	SW8270SIM	Fluoranthene	0.232		0.0102	0.00512	mg/kg	1	N
INC-SB59-010	1701152-12	1/16/2017	SW8270SIM	Fluorene	0.00758	J	0.0102	0.00512	mg/kg	1	N
INC-SB59-010	1701152-12	1/16/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.0671		0.0102	0.00512	mg/kg	1	N
INC-SB59-010	1701152-12	1/16/2017	SW8270SIM	Naphthalene	ND	U	0.0102	0.00512	mg/kg	1	N
INC-SB59-010	1701152-12	1/16/2017	SW8270SIM	Phenanthrene	0.0769		0.0102	0.00512	mg/kg	1	N
INC-SB59-010	1701152-12	1/16/2017	SW8270SIM	Pyrene	0.178		0.0102	0.00512	mg/kg	1	N
INC-SB59-020	1701152-13	1/16/2017	D2216	Percent moisture	7.38		NA	NA	%	1	N
INC-SB59-020	1701152-13	1/16/2017	SW6020A	Antimony	0.965	J	1.07	0.534	mg/kg	5	N
INC-SB59-020	1701152-13	1/16/2017	SW6020A	Arsenic	3.55		1.07	0.534	mg/kg	5	N
INC-SB59-020	1701152-13	1/16/2017	SW6020A	Barium	49.0		2.14	0.534	mg/kg	5	N
INC-SB59-020	1701152-13	1/16/2017	SW6020A	Beryllium	0.130	J	0.321	0.107	mg/kg	5	N
INC-SB59-020	1701152-13	1/16/2017	SW6020A	Cadmium	0.630		0.321	0.107	mg/kg	5	N
INC-SB59-020	1701152-13	1/16/2017	SW6020A	Chromium, total	23.2	JH	2.14	0.534	mg/kg	5	N
INC-SB59-020	1701152-13	1/16/2017	SW6020A	Lead	138		0.321	0.107	mg/kg	5	N
INC-SB59-020	1701152-13	1/16/2017	SW6020A	Nickel	9.28		2.14	0.534	mg/kg	5	N
INC-SB59-020	1701152-13	1/16/2017	SW6020A	Selenium	0.429	J	0.534	0.160	mg/kg	5	N
INC-SB59-020	1701152-13	1/16/2017	SW6020A	Silver	ND	U	0.208	0.104	mg/kg	5	N
INC-SB59-020	1701152-13	1/16/2017	SW7471B	Mercury	0.0431		0.0424	0.0169	mg/kg	1	N
INC-SB59-020	1701152-13	1/16/2017	SW8270SIM	Acenaphthene	0.0124		0.0106	0.00528	mg/kg	1	N
INC-SB59-020	1701152-13	1/16/2017	SW8270SIM	Acenaphthylene	0.0194		0.0106	0.00528	mg/kg	1	N
INC-SB59-020	1701152-13	1/16/2017	SW8270SIM	Anthracene	0.0321		0.0106	0.00528	mg/kg	1	N
INC-SB59-020	1701152-13	1/16/2017	SW8270SIM	Benzo(a)anthracene	0.0957		0.0106	0.00528	mg/kg	1	N
INC-SB59-020	1701152-13	1/16/2017	SW8270SIM	Benzo(a)pyrene	0.108		0.0106	0.00528	mg/kg	1	N
INC-SB59-020	1701152-13	1/16/2017	SW8270SIM	Benzo(b)fluoranthene	0.105		0.0106	0.00528	mg/kg	1	N
INC-SB59-020	1701152-13	1/16/2017	SW8270SIM	Benzo(g,h,i)perylene	0.0920		0.0106	0.00528	mg/kg	1	N
INC-SB59-020	1701152-13	1/16/2017	SW8270SIM	Benzo(k)fluoranthene	0.0558		0.0106	0.00528	mg/kg	1	N
INC-SB59-020	1701152-13	1/16/2017	SW8270SIM	Chrysene	0.110		0.0106	0.00528	mg/kg	1	N
INC-SB59-020	1701152-13	1/16/2017	SW8270SIM	Dibenz(a,h)anthracene	0.0148		0.0106	0.00528	mg/kg	1	N
INC-SB59-020	1701152-13	1/16/2017	SW8270SIM	Fluoranthene	0.230		0.0106	0.00528	mg/kg	1	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-SB59-020	1701152-13	1/16/2017	SW8270SIM	Fluorene	0.0159		0.0106	0.00528	mg/kg	1	N
INC-SB59-020	1701152-13	1/16/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.0756		0.0106	0.00528	mg/kg	1	N
INC-SB59-020	1701152-13	1/16/2017	SW8270SIM	Naphthalene	0.0185		0.0106	0.00528	mg/kg	1	N
INC-SB59-020	1701152-13	1/16/2017	SW8270SIM	Phenanthrene	0.139		0.0106	0.00528	mg/kg	1	N
INC-SB59-020	1701152-13	1/16/2017	SW8270SIM	Pyrene	0.175		0.0106	0.00528	mg/kg	1	N
INC-SB60-010	1701152-14	1/16/2017	D2216	Percent moisture	24.6		NA	NA	%	1	N
INC-SB60-010	1701152-14	1/16/2017	SW6020A	Antimony	15.2		1.23	0.614	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW6020A	Arsenic	31.2		1.23	0.614	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW6020A	Barium	857		24.6	6.14	mg/kg	50	N
INC-SB60-010	1701152-14	1/16/2017	SW6020A	Beryllium	0.177	J	0.368	0.123	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW6020A	Cadmium	8.36		0.368	0.123	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW6020A	Chromium, total	60.6	JH	2.46	0.614	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW6020A	Lead	1150		3.68	1.23	mg/kg	50	N
INC-SB60-010	1701152-14	1/16/2017	SW6020A	Nickel	36.3	J	2.46	0.614	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW6020A	Selenium	0.738		0.614	0.184	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW6020A	Silver	2.88		0.255	0.128	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW7471B	Mercury	0.367		0.0483	0.0193	mg/kg	1	N
INC-SB60-010	1701152-14	1/16/2017	SW8270SIM	Acenaphthene	0.105		0.0658	0.0329	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW8270SIM	Acenaphthylene	0.122		0.0658	0.0329	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW8270SIM	Anthracene	0.314		0.0658	0.0329	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW8270SIM	Benzo(a)anthracene	1.27		0.0658	0.0329	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW8270SIM	Benzo(a)pyrene	1.42		0.0658	0.0329	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW8270SIM	Benzo(b)fluoranthene	1.35		0.0658	0.0329	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW8270SIM	Benzo(g,h,i)perylene	1.06		0.0658	0.0329	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW8270SIM	Benzo(k)fluoranthene	0.604		0.0658	0.0329	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW8270SIM	Chrysene	1.54		0.0658	0.0329	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW8270SIM	Dibenz(a,h)anthracene	0.260		0.0658	0.0329	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW8270SIM	Fluoranthene	2.95		0.0658	0.0329	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW8270SIM	Fluorene	0.0939		0.0658	0.0329	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	1.07		0.0658	0.0329	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW8270SIM	Naphthalene	ND	U	0.0658	0.0329	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW8270SIM	Phenanthrene	1.65		0.0658	0.0329	mg/kg	5	N
INC-SB60-010	1701152-14	1/16/2017	SW8270SIM	Pyrene	2.37		0.0658	0.0329	mg/kg	5	N
INC-SB60-011	1701152-15	1/16/2017	D2216	Percent moisture	28.3		NA	NA	%	1	FD
INC-SB60-011	1701152-15	1/16/2017	SW6020A	Antimony	20.9		1.34	0.671	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW6020A	Arsenic	29.3		1.34	0.671	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW6020A	Barium	932		26.8	6.71	mg/kg	50	FD
INC-SB60-011	1701152-15	1/16/2017	SW6020A	Beryllium	0.207	J	0.403	0.134	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW6020A	Cadmium	10.8		0.403	0.134	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW6020A	Chromium, total	83.2	JH	2.68	0.671	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW6020A	Lead	1420		4.03	1.34	mg/kg	50	FD
INC-SB60-011	1701152-15	1/16/2017	SW6020A	Nickel	99.5	J	2.68	0.671	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW6020A	Selenium	1.33		0.671	0.201	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW6020A	Silver	3.24		0.239	0.119	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW7471B	Mercury	0.359		0.0536	0.0215	mg/kg	1	FD
INC-SB60-011	1701152-15	1/16/2017	SW8270SIM	Acenaphthene	0.0722		0.0681	0.0341	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW8270SIM	Acenaphthylene	0.113		0.0681	0.0341	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW8270SIM	Anthracene	0.199		0.0681	0.0341	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW8270SIM	Benzo(a)anthracene	1.04		0.0681	0.0341	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW8270SIM	Benzo(a)pyrene	1.21		0.0681	0.0341	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW8270SIM	Benzo(b)fluoranthene	1.16		0.0681	0.0341	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW8270SIM	Benzo(g,h,i)perylene	0.917		0.0681	0.0341	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW8270SIM	Benzo(k)fluoranthene	0.641		0.0681	0.0341	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW8270SIM	Chrysene	1.35		0.0681	0.0341	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW8270SIM	Dibenz(a,h)anthracene	0.228		0.0681	0.0341	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW8270SIM	Fluoranthene	2.39		0.0681	0.0341	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW8270SIM	Fluorene	0.0648	J	0.0681	0.0341	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.968		0.0681	0.0341	mg/kg	5	FD

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-SB60-011	1701152-15	1/16/2017	SW8270SIM	Naphthalene	0.0416	J	0.0681	0.0341	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW8270SIM	Phenanthrene	1.21		0.0681	0.0341	mg/kg	5	FD
INC-SB60-011	1701152-15	1/16/2017	SW8270SIM	Pyrene	1.94		0.0681	0.0341	mg/kg	5	FD
INC-SB60-020	1701152-16	1/16/2017	D2216	Percent moisture	16.4		NA	NA	%	1	N
INC-SB60-020	1701152-16	1/16/2017	SW6020A	Antimony	0.839	J	1.17	0.586	mg/kg	5	N
INC-SB60-020	1701152-16	1/16/2017	SW6020A	Arsenic	2.27		1.17	0.586	mg/kg	5	N
INC-SB60-020	1701152-16	1/16/2017	SW6020A	Barium	31.5		2.34	0.586	mg/kg	5	N
INC-SB60-020	1701152-16	1/16/2017	SW6020A	Beryllium	ND	U	0.352	0.117	mg/kg	5	N
INC-SB60-020	1701152-16	1/16/2017	SW6020A	Cadmium	0.351	J	0.352	0.117	mg/kg	5	N
INC-SB60-020	1701152-16	1/16/2017	SW6020A	Chromium, total	4.77	JH	2.34	0.586	mg/kg	5	N
INC-SB60-020	1701152-16	1/16/2017	SW6020A	Lead	32.9		0.352	0.117	mg/kg	5	N
INC-SB60-020	1701152-16	1/16/2017	SW6020A	Nickel	2.58		2.34	0.586	mg/kg	5	N
INC-SB60-020	1701152-16	1/16/2017	SW6020A	Selenium	0.365	J	0.586	0.176	mg/kg	5	N
INC-SB60-020	1701152-16	1/16/2017	SW6020A	Silver	0.215	J	0.226	0.113	mg/kg	5	N
INC-SB60-020	1701152-16	1/16/2017	SW7471B	Mercury	0.0299	J	0.0448	0.0179	mg/kg	1	N
INC-SB60-020	1701152-16	1/16/2017	SW8270SIM	Acenaphthene	ND	U	0.0112	0.00562	mg/kg	1	N
INC-SB60-020	1701152-16	1/16/2017	SW8270SIM	Acenaphthylene	ND	U	0.0112	0.00562	mg/kg	1	N
INC-SB60-020	1701152-16	1/16/2017	SW8270SIM	Anthracene	ND	U	0.0112	0.00562	mg/kg	1	N
INC-SB60-020	1701152-16	1/16/2017	SW8270SIM	Benzo(a)anthracene	0.00665	J	0.0112	0.00562	mg/kg	1	N
INC-SB60-020	1701152-16	1/16/2017	SW8270SIM	Benzo(a)pyrene	0.00706	J	0.0112	0.00562	mg/kg	1	N
INC-SB60-020	1701152-16	1/16/2017	SW8270SIM	Benzo(b)fluoranthene	0.00746	J	0.0112	0.00562	mg/kg	1	N
INC-SB60-020	1701152-16	1/16/2017	SW8270SIM	Benzo(g,h,i)perylene	0.00613	J	0.0112	0.00562	mg/kg	1	N
INC-SB60-020	1701152-16	1/16/2017	SW8270SIM	Benzo(k)fluoranthene	ND	U	0.0112	0.00562	mg/kg	1	N
INC-SB60-020	1701152-16	1/16/2017	SW8270SIM	Chrysene	0.00680	J	0.0112	0.00562	mg/kg	1	N
INC-SB60-020	1701152-16	1/16/2017	SW8270SIM	Dibenz(a,h)anthracene	ND	U	0.0112	0.00562	mg/kg	1	N
INC-SB60-020	1701152-16	1/16/2017	SW8270SIM	Fluoranthene	0.0134		0.0112	0.00562	mg/kg	1	N
INC-SB60-020	1701152-16	1/16/2017	SW8270SIM	Fluorene	ND	U	0.0112	0.00562	mg/kg	1	N
INC-SB60-020	1701152-16	1/16/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.00580	J	0.0112	0.00562	mg/kg	1	N
INC-SB60-020	1701152-16	1/16/2017	SW8270SIM	Naphthalene	ND	U	0.0112	0.00562	mg/kg	1	N
INC-SB60-020	1701152-16	1/16/2017	SW8270SIM	Phenanthrene	0.0105	J	0.0112	0.00562	mg/kg	1	N
INC-SB60-020	1701152-16	1/16/2017	SW8270SIM	Pyrene	0.0113		0.0112	0.00562	mg/kg	1	N
INC-SB61-010	1701264-09	1/25/2017	D2216	Percent moisture	21.1		NA	NA	%	1	N
INC-SB61-010	1701264-09	1/25/2017	SW6020A	Antimony	ND	U	1.20	0.598	mg/kg	5	N
INC-SB61-010	1701264-09	1/25/2017	SW6020A	Arsenic	5.67		1.20	0.598	mg/kg	5	N
INC-SB61-010	1701264-09	1/25/2017	SW6020A	Barium	54.9		2.39	0.598	mg/kg	5	N
INC-SB61-010	1701264-09	1/25/2017	SW6020A	Beryllium	0.190	J	0.359	0.120	mg/kg	5	N
INC-SB61-010	1701264-09	1/25/2017	SW6020A	Cadmium	0.236	J	0.359	0.120	mg/kg	5	N
INC-SB61-010	1701264-09	1/25/2017	SW6020A	Chromium, total	5.18		2.39	0.598	mg/kg	5	N
INC-SB61-010	1701264-09	1/25/2017	SW6020A	Lead	15.8	JL	0.359	0.120	mg/kg	5	N
INC-SB61-010	1701264-09	1/25/2017	SW6020A	Nickel	3.95		2.39	0.598	mg/kg	5	N
INC-SB61-010	1701264-09	1/25/2017	SW6020A	Selenium	0.668		0.598	0.179	mg/kg	5	N
INC-SB61-010	1701264-09	1/25/2017	SW6020A	Silver	ND	U	0.239	0.120	mg/kg	5	N
INC-SB61-010	1701264-09	1/25/2017	SW7471B	Mercury	0.0207	J	0.0465	0.0186	mg/kg	1	N
INC-SB61-010	1701264-09	1/25/2017	SW8270SIM	Acenaphthene	0.0122		0.0122	0.00608	mg/kg	1	N
INC-SB61-010	1701264-09	1/25/2017	SW8270SIM	Acenaphthylene	ND	U	0.0122	0.00608	mg/kg	1	N
INC-SB61-010	1701264-09	1/25/2017	SW8270SIM	Anthracene	0.0330		0.0122	0.00608	mg/kg	1	N
INC-SB61-010	1701264-09	1/25/2017	SW8270SIM	Benzo(a)anthracene	0.105		0.0122	0.00608	mg/kg	1	N
INC-SB61-010	1701264-09	1/25/2017	SW8270SIM	Benzo(a)pyrene	0.108		0.0122	0.00608	mg/kg	1	N
INC-SB61-010	1701264-09	1/25/2017	SW8270SIM	Benzo(b)fluoranthene	0.106		0.0122	0.00608	mg/kg	1	N
INC-SB61-010	1701264-09	1/25/2017	SW8270SIM	Benzo(g,h,i)perylene	0.0852		0.0122	0.00608	mg/kg	1	N
INC-SB61-010	1701264-09	1/25/2017	SW8270SIM	Benzo(k)fluoranthene	0.0538		0.0122	0.00608	mg/kg	1	N
INC-SB61-010	1701264-09	1/25/2017	SW8270SIM	Chrysene	0.108		0.0122	0.00608	mg/kg	1	N
INC-SB61-010	1701264-09	1/25/2017	SW8270SIM	Dibenz(a,h)anthracene	0.0198		0.0122	0.00608	mg/kg	1	N
INC-SB61-010	1701264-09	1/25/2017	SW8270SIM	Fluoranthene	0.244		0.0122	0.00608	mg/kg	1	N
INC-SB61-010	1701264-09	1/25/2017	SW8270SIM	Fluorene	0.0109	J	0.0122	0.00608	mg/kg	1	N
INC-SB61-010	1701264-09	1/25/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.0858		0.0122	0.00608	mg/kg	1	N
INC-SB61-010	1701264-09	1/25/2017	SW8270SIM	Naphthalene	ND	U	0.0122	0.00608	mg/kg	1	N
INC-SB61-010	1701264-09	1/25/2017	SW8270SIM	Phenanthrene	0.124		0.0122	0.00608	mg/kg	1	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-SB61-010	1701264-09	1/25/2017	SW8270SIM	Pyrene	0.179		0.0122	0.00608	mg/kg	1	N
INC-SB63-010	1701264-07	1/25/2017	D2216	Percent moisture	18.0		NA	NA	%	1	N
INC-SB63-010	1701264-07	1/25/2017	SW6020A	Antimony	1.73		1.17	0.586	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW6020A	Arsenic	6.99		1.17	0.586	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW6020A	Barium	208		2.34	0.586	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW6020A	Beryllium	0.124	J	0.352	0.117	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW6020A	Cadmium	0.794		0.352	0.117	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW6020A	Chromium, total	40.5		2.34	0.586	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW6020A	Lead	137	JL	0.352	0.117	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW6020A	Nickel	104		2.34	0.586	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW6020A	Selenium	0.453	J	0.586	0.176	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW6020A	Silver	ND	U	0.234	0.117	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW7471B	Mercury	0.0288	J	0.0480	0.0192	mg/kg	1	N
INC-SB63-010	1701264-07	1/25/2017	SW8270SIM	Acenaphthene	0.0283	J	0.0506	0.0253	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW8270SIM	Acenaphthylene	ND	U	0.0506	0.0253	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW8270SIM	Anthracene	0.213		0.0506	0.0253	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW8270SIM	Benzo(a)anthracene	1.70		0.0506	0.0253	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW8270SIM	Benzo(a)pyrene	1.52		0.0506	0.0253	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW8270SIM	Benzo(b)fluoranthene	1.47		0.0506	0.0253	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW8270SIM	Benzo(g,h,i)perylene	1.11		0.0506	0.0253	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW8270SIM	Benzo(k)fluoranthene	0.778		0.0506	0.0253	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW8270SIM	Chrysene	1.83		0.0506	0.0253	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW8270SIM	Dibenz(a,h)anthracene	0.288		0.0506	0.0253	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW8270SIM	Fluoranthene	3.20		0.0506	0.0253	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW8270SIM	Fluorene	ND	U	0.0506	0.0253	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	1.15		0.0506	0.0253	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW8270SIM	Naphthalene	ND	U	0.0506	0.0253	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW8270SIM	Phenanthrene	0.771		0.0506	0.0253	mg/kg	5	N
INC-SB63-010	1701264-07	1/25/2017	SW8270SIM	Pyrene	2.61		0.0506	0.0253	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	D2216	Percent moisture	22.6		NA	NA	%	1	N
INC-SB64-010	1701264-13	1/26/2017	SW6020A	Antimony	14.4		1.22	0.609	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW6020A	Arsenic	60.2		1.22	0.609	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW6020A	Barium	1000		24.4	6.09	mg/kg	50	N
INC-SB64-010	1701264-13	1/26/2017	SW6020A	Beryllium	0.234	J	0.366	0.122	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW6020A	Cadmium	12.7		0.366	0.122	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW6020A	Chromium, total	72.9	J	2.44	0.609	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW6020A	Lead	2230	JL	3.66	1.22	mg/kg	50	N
INC-SB64-010	1701264-13	1/26/2017	SW6020A	Nickel	412	J	2.44	0.609	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW6020A	Selenium	1.37	J	0.609	0.183	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW6020A	Silver	1.59		0.244	0.122	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW7471B	Mercury	1.19		0.257	0.103	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW8270SIM	Acenaphthene	ND	U	0.0627	0.0314	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW8270SIM	Acenaphthylene	ND	U	0.0627	0.0314	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW8270SIM	Anthracene	0.0635		0.0627	0.0314	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW8270SIM	Benzo(a)anthracene	0.283		0.0627	0.0314	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW8270SIM	Benzo(a)pyrene	0.354		0.0627	0.0314	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW8270SIM	Benzo(b)fluoranthene	0.348		0.0627	0.0314	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW8270SIM	Benzo(g,h,i)perylene	0.344		0.0627	0.0314	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW8270SIM	Benzo(k)fluoranthene	0.180		0.0627	0.0314	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW8270SIM	Chrysene	0.318		0.0627	0.0314	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW8270SIM	Dibenz(a,h)anthracene	0.0812		0.0627	0.0314	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW8270SIM	Fluoranthene	0.449	J	0.0627	0.0314	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW8270SIM	Fluorene	ND	U	0.0627	0.0314	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.324		0.0627	0.0314	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW8270SIM	Naphthalene	ND	U	0.0627	0.0314	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW8270SIM	Phenanthrene	0.208		0.0627	0.0314	mg/kg	5	N
INC-SB64-010	1701264-13	1/26/2017	SW8270SIM	Pyrene	0.385	J	0.0627	0.0314	mg/kg	5	N
INC-SB64-011	1701264-14	1/26/2017	D2216	Percent moisture	23.1		NA	NA	%	1	FD

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-SB64-011	1701264-14	1/26/2017	SW6020A	Antimony	9.46		1.26	0.631	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW6020A	Arsenic	55.7		1.26	0.631	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW6020A	Barium	656		25.3	6.31	mg/kg	50	FD
INC-SB64-011	1701264-14	1/26/2017	SW6020A	Beryllium	0.135	J	0.379	0.126	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW6020A	Cadmium	16.5		0.379	0.126	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW6020A	Chromium, total	135	J	2.53	0.631	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW6020A	Lead	2670	JL	3.79	1.26	mg/kg	50	FD
INC-SB64-011	1701264-14	1/26/2017	SW6020A	Nickel	134	J	2.53	0.631	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW6020A	Selenium	0.870	J	0.631	0.189	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW6020A	Silver	1.15		0.253	0.126	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW7471B	Mercury	0.413		0.0504	0.0201	mg/kg	1	FD
INC-SB64-011	1701264-14	1/26/2017	SW8270SIM	Acenaphthene	ND	U	0.0616	0.0308	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW8270SIM	Acenaphthylene	ND	U	0.0616	0.0308	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW8270SIM	Anthracene	0.0315	J	0.0616	0.0308	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW8270SIM	Benzo(a)anthracene	0.154		0.0616	0.0308	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW8270SIM	Benzo(a)pyrene	0.234		0.0616	0.0308	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW8270SIM	Benzo(b)fluoranthene	0.240		0.0616	0.0308	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW8270SIM	Benzo(g,h,i)perylene	0.264		0.0616	0.0308	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW8270SIM	Benzo(k)fluoranthene	0.115		0.0616	0.0308	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW8270SIM	Chrysene	0.176		0.0616	0.0308	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW8270SIM	Dibenz(a,h)anthracene	0.0581	J	0.0616	0.0308	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW8270SIM	Fluoranthene	0.231	J	0.0616	0.0308	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW8270SIM	Fluorene	ND	U	0.0616	0.0308	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.238		0.0616	0.0308	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW8270SIM	Naphthalene	ND	U	0.0616	0.0308	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW8270SIM	Phenanthrene	0.0789		0.0616	0.0308	mg/kg	5	FD
INC-SB64-011	1701264-14	1/26/2017	SW8270SIM	Pyrene	0.203	J	0.0616	0.0308	mg/kg	5	FD
INC-SB66-010	1701264-01	1/25/2017	D2216	Percent moisture	12.7		NA	NA	%	1	N
INC-SB66-010	1701264-01	1/25/2017	SW6020A	Antimony	0.651	J	1.09	0.545	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW6020A	Arsenic	3.50		1.09	0.545	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW6020A	Barium	535		2.18	0.545	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW6020A	Beryllium	0.172	J	0.327	0.109	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW6020A	Cadmium	0.577		0.327	0.109	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW6020A	Chromium, total	12.3		2.18	0.545	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW6020A	Lead	117	JL	0.327	0.109	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW6020A	Nickel	7.38		2.18	0.545	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW6020A	Selenium	0.728		0.545	0.164	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW6020A	Silver	ND	U	0.218	0.109	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW7471B	Mercury	0.0832		0.0385	0.0154	mg/kg	1	N
INC-SB66-010	1701264-01	1/25/2017	SW8270SIM	Acenaphthene	0.156		0.0527	0.0264	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW8270SIM	Acenaphthylene	0.162		0.0527	0.0264	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW8270SIM	Anthracene	0.501		0.0527	0.0264	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW8270SIM	Benzo(a)anthracene	1.73		0.0527	0.0264	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW8270SIM	Benzo(a)pyrene	1.81		0.0527	0.0264	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW8270SIM	Benzo(b)fluoranthene	1.53		0.0527	0.0264	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW8270SIM	Benzo(g,h,i)perylene	1.33		0.0527	0.0264	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW8270SIM	Benzo(k)fluoranthene	0.828		0.0527	0.0264	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW8270SIM	Chrysene	1.94		0.0527	0.0264	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW8270SIM	Dibenz(a,h)anthracene	0.254		0.0527	0.0264	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW8270SIM	Fluoranthene	3.30		0.0527	0.0264	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW8270SIM	Fluorene	0.191		0.0527	0.0264	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	1.26		0.0527	0.0264	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW8270SIM	Naphthalene	0.0822		0.0527	0.0264	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW8270SIM	Phenanthrene	2.15		0.0527	0.0264	mg/kg	5	N
INC-SB66-010	1701264-01	1/25/2017	SW8270SIM	Pyrene	2.71		0.0527	0.0264	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	D2216	Percent moisture	10.4		NA	NA	%	1	N
INC-SB66-020	1701264-02	1/25/2017	SW6020A	Antimony	ND	U	1.04	0.522	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW6020A	Arsenic	3.12		1.04	0.522	mg/kg	5	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-SB66-020	1701264-02	1/25/2017	SW6020A	Barium	86.0		2.09	0.522	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW6020A	Beryllium	0.162	J	0.313	0.104	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW6020A	Cadmium	0.206	J	0.313	0.104	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW6020A	Chromium, total	6.37		2.09	0.522	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW6020A	Lead	47.3	JL	0.313	0.104	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW6020A	Nickel	4.80		2.09	0.522	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW6020A	Selenium	0.650		0.522	0.157	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW6020A	Silver	ND	U	0.209	0.104	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW7471B	Mercury	0.0710		0.0427	0.0171	mg/kg	1	N
INC-SB66-020	1701264-02	1/25/2017	SW8270SIM	Acenaphthene	ND	U	0.0547	0.0273	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW8270SIM	Acenaphthylene	0.0757		0.0547	0.0273	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW8270SIM	Anthracene	0.0752		0.0547	0.0273	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW8270SIM	Benzo(a)anthracene	0.269		0.0547	0.0273	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW8270SIM	Benzo(a)pyrene	0.341		0.0547	0.0273	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW8270SIM	Benzo(b)fluoranthene	0.306		0.0547	0.0273	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW8270SIM	Benzo(g,h,i)perylene	0.309		0.0547	0.0273	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW8270SIM	Benzo(k)fluoranthene	0.159		0.0547	0.0273	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW8270SIM	Chrysene	0.324		0.0547	0.0273	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW8270SIM	Dibenz(a,h)anthracene	0.0720		0.0547	0.0273	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW8270SIM	Fluoranthene	0.491		0.0547	0.0273	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW8270SIM	Fluorene	0.0334	J	0.0547	0.0273	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.267		0.0547	0.0273	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW8270SIM	Naphthalene	ND	U	0.0547	0.0273	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW8270SIM	Phenanthrene	0.220		0.0547	0.0273	mg/kg	5	N
INC-SB66-020	1701264-02	1/25/2017	SW8270SIM	Pyrene	0.419		0.0547	0.0273	mg/kg	5	N
INC-SB66-021	1701264-04	1/25/2017	D2216	Percent moisture	11.2		NA	NA	%	1	FD
INC-SB66-021	1701264-04	1/25/2017	SW6020A	Antimony	ND	U	1.10	0.552	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW6020A	Arsenic	3.03		1.10	0.552	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW6020A	Barium	89.2		2.21	0.552	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW6020A	Beryllium	0.148	J	0.331	0.110	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW6020A	Cadmium	0.213	J	0.331	0.110	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW6020A	Chromium, total	6.63		2.21	0.552	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW6020A	Lead	50.7	JL	0.331	0.110	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW6020A	Nickel	4.75		2.21	0.552	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW6020A	Selenium	0.661		0.552	0.166	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW6020A	Silver	ND	U	0.221	0.110	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW7471B	Mercury	0.0559		0.0418	0.0167	mg/kg	1	FD
INC-SB66-021	1701264-04	1/25/2017	SW8270SIM	Acenaphthene	ND	U	0.0548	0.0274	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW8270SIM	Acenaphthylene	0.0765		0.0548	0.0274	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW8270SIM	Anthracene	0.0896		0.0548	0.0274	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW8270SIM	Benzo(a)anthracene	0.262		0.0548	0.0274	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW8270SIM	Benzo(a)pyrene	0.331		0.0548	0.0274	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW8270SIM	Benzo(b)fluoranthene	0.282		0.0548	0.0274	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW8270SIM	Benzo(g,h,i)perylene	0.294		0.0548	0.0274	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW8270SIM	Benzo(k)fluoranthene	0.153		0.0548	0.0274	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW8270SIM	Chrysene	0.315		0.0548	0.0274	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW8270SIM	Dibenz(a,h)anthracene	0.0540	J	0.0548	0.0274	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW8270SIM	Fluoranthene	0.499		0.0548	0.0274	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW8270SIM	Fluorene	0.0343	J	0.0548	0.0274	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.252		0.0548	0.0274	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW8270SIM	Naphthalene	ND	U	0.0548	0.0274	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW8270SIM	Phenanthrene	0.258		0.0548	0.0274	mg/kg	5	FD
INC-SB66-021	1701264-04	1/25/2017	SW8270SIM	Pyrene	0.457		0.0548	0.0274	mg/kg	5	FD
INC-SB67-010	1701264-05	1/25/2017	D2216	Percent moisture	10.4		NA	NA	%	1	N
INC-SB67-010	1701264-05	1/25/2017	SW6020A	Antimony	ND	U	1.08	0.542	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW6020A	Arsenic	2.39		1.08	0.542	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW6020A	Barium	99.8		2.17	0.542	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW6020A	Beryllium	0.110	J	0.325	0.108	mg/kg	5	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-SB67-010	1701264-05	1/25/2017	SW6020A	Cadmium	0.173	J	0.325	0.108	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW6020A	Chromium, total	13.5		2.17	0.542	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW6020A	Lead	35.7	JL	0.325	0.108	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW6020A	Nickel	15.5		2.17	0.542	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW6020A	Selenium	0.501	J	0.542	0.163	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW6020A	Silver	ND	U	0.217	0.108	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW7471B	Mercury	0.0340	J	0.0429	0.0172	mg/kg	1	N
INC-SB67-010	1701264-05	1/25/2017	SW8270SIM	Acenaphthene	ND	U	0.0541	0.0270	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW8270SIM	Acenaphthylene	0.0485	J	0.0541	0.0270	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW8270SIM	Anthracene	0.0552		0.0541	0.0270	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW8270SIM	Benzo(a)anthracene	0.0906		0.0541	0.0270	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW8270SIM	Benzo(a)pyrene	0.184		0.0541	0.0270	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW8270SIM	Benzo(b)fluoranthene	0.192		0.0541	0.0270	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW8270SIM	Benzo(g,h,i)perylene	0.347		0.0541	0.0270	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW8270SIM	Benzo(k)fluoranthene	0.0633		0.0541	0.0270	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW8270SIM	Chrysene	0.288		0.0541	0.0270	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW8270SIM	Dibenz(a,h)anthracene	0.0339	J	0.0541	0.0270	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW8270SIM	Fluoranthene	0.133		0.0541	0.0270	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW8270SIM	Fluorene	0.0325	J	0.0541	0.0270	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.155		0.0541	0.0270	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW8270SIM	Naphthalene	0.0603		0.0541	0.0270	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW8270SIM	Phenanthrene	0.0581		0.0541	0.0270	mg/kg	5	N
INC-SB67-010	1701264-05	1/25/2017	SW8270SIM	Pyrene	0.388		0.0541	0.0270	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	D2216	Percent moisture	12.6		NA	NA	%	1	N
INC-SB67-023	1701264-06	1/25/2017	SW6020A	Antimony	1.10	J	1.11	0.556	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW6020A	Arsenic	4.55		1.11	0.556	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW6020A	Barium	200		2.22	0.556	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW6020A	Beryllium	0.201	J	0.333	0.111	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW6020A	Cadmium	1.02		0.333	0.111	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW6020A	Chromium, total	10.8		2.22	0.556	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW6020A	Lead	207	JL	0.333	0.111	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW6020A	Nickel	8.03		2.22	0.556	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW6020A	Selenium	0.919	J	0.556	0.167	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW6020A	Silver	0.144	J	0.222	0.111	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW7471B	Mercury	0.111		0.0439	0.0175	mg/kg	1	N
INC-SB67-023	1701264-06	1/25/2017	SW8270SIM	Acenaphthene	0.431		0.0565	0.0282	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW8270SIM	Acenaphthylene	0.276		0.0565	0.0282	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW8270SIM	Anthracene	1.26		0.0565	0.0282	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW8270SIM	Benzo(a)anthracene	3.40		0.0565	0.0282	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW8270SIM	Benzo(a)pyrene	3.04		0.0565	0.0282	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW8270SIM	Benzo(b)fluoranthene	2.66		0.0565	0.0282	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW8270SIM	Benzo(g,h,i)perylene	1.93		0.0565	0.0282	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW8270SIM	Benzo(k)fluoranthene	1.48		0.0565	0.0282	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW8270SIM	Chrysene	3.48		0.0565	0.0282	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW8270SIM	Dibenz(a,h)anthracene	0.538		0.0565	0.0282	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW8270SIM	Fluoranthene	7.84		0.0565	0.0282	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW8270SIM	Fluorene	0.639		0.0565	0.0282	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	2.06		0.0565	0.0282	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW8270SIM	Naphthalene	0.108		0.0565	0.0282	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW8270SIM	Phenanthrene	6.01		0.0565	0.0282	mg/kg	5	N
INC-SB67-023	1701264-06	1/25/2017	SW8270SIM	Pyrene	5.86		0.0565	0.0282	mg/kg	5	N
INC-SB68-010	1701152-17	1/17/2017	D2216	Percent moisture	30.0		NA	NA	%	1	N
INC-SB68-010	1701152-17	1/17/2017	SW6020A	Antimony	1.20	J	1.35	0.673	mg/kg	5	N
INC-SB68-010	1701152-17	1/17/2017	SW6020A	Arsenic	5.30		1.35	0.673	mg/kg	5	N
INC-SB68-010	1701152-17	1/17/2017	SW6020A	Barium	63.8		2.69	0.673	mg/kg	5	N
INC-SB68-010	1701152-17	1/17/2017	SW6020A	Beryllium	0.158	J	0.404	0.135	mg/kg	5	N
INC-SB68-010	1701152-17	1/17/2017	SW6020A	Cadmium	0.471		0.404	0.135	mg/kg	5	N
INC-SB68-010	1701152-17	1/17/2017	SW6020A	Chromium, total	10.6	JH	2.69	0.673	mg/kg	5	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-SB68-010	1701152-17	1/17/2017	SW6020A	Lead	200		0.404	0.135	mg/kg	5	N
INC-SB68-010	1701152-17	1/17/2017	SW6020A	Nickel	8.97		2.69	0.673	mg/kg	5	N
INC-SB68-010	1701152-17	1/17/2017	SW6020A	Selenium	0.663	J	0.673	0.202	mg/kg	5	N
INC-SB68-010	1701152-17	1/17/2017	SW6020A	Silver	0.252	J	0.275	0.137	mg/kg	5	N
INC-SB68-010	1701152-17	1/17/2017	SW7471B	Mercury	0.0835		0.0548	0.0219	mg/kg	1	N
INC-SB68-010	1701152-17	1/17/2017	SW8270SIM	Acenaphthene	0.945		0.134	0.0670	mg/kg	10	N
INC-SB68-010	1701152-17	1/17/2017	SW8270SIM	Acenaphthylene	1.16		0.134	0.0670	mg/kg	10	N
INC-SB68-010	1701152-17	1/17/2017	SW8270SIM	Anthracene	3.52		0.134	0.0670	mg/kg	10	N
INC-SB68-010	1701152-17	1/17/2017	SW8270SIM	Benzo(a)anthracene	15.0		0.134	0.0670	mg/kg	10	N
INC-SB68-010	1701152-17	1/17/2017	SW8270SIM	Benzo(a)pyrene	16.8		0.134	0.0670	mg/kg	10	N
INC-SB68-010	1701152-17	1/17/2017	SW8270SIM	Benzo(b)fluoranthene	15.4		0.134	0.0670	mg/kg	10	N
INC-SB68-010	1701152-17	1/17/2017	SW8270SIM	Benzo(g,h,i)perylene	12.0		0.134	0.0670	mg/kg	10	N
INC-SB68-010	1701152-17	1/17/2017	SW8270SIM	Benzo(k)fluoranthene	7.14		0.134	0.0670	mg/kg	10	N
INC-SB68-010	1701152-17	1/17/2017	SW8270SIM	Chrysene	17.3		0.134	0.0670	mg/kg	10	N
INC-SB68-010	1701152-17	1/17/2017	SW8270SIM	Dibenz(a,h)anthracene	2.42		0.134	0.0670	mg/kg	10	N
INC-SB68-010	1701152-17	1/17/2017	SW8270SIM	Fluoranthene	30.8		0.134	0.0670	mg/kg	10	N
INC-SB68-010	1701152-17	1/17/2017	SW8270SIM	Fluorene	1.00		0.134	0.0670	mg/kg	10	N
INC-SB68-010	1701152-17	1/17/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	12.6		0.134	0.0670	mg/kg	10	N
INC-SB68-010	1701152-17	1/17/2017	SW8270SIM	Naphthalene	0.252		0.134	0.0670	mg/kg	10	N
INC-SB68-010	1701152-17	1/17/2017	SW8270SIM	Phenanthrene	15.1		0.134	0.0670	mg/kg	10	N
INC-SB68-010	1701152-17	1/17/2017	SW8270SIM	Pyrene	25.3		0.134	0.0670	mg/kg	10	N
INC-SB68-020	1701152-18	1/17/2017	D2216	Percent moisture	12.8		NA	NA	%	1	N
INC-SB68-020	1701152-18	1/17/2017	SW6020A	Antimony	1.28		1.06	0.531	mg/kg	5	N
INC-SB68-020	1701152-18	1/17/2017	SW6020A	Arsenic	4.34		1.06	0.531	mg/kg	5	N
INC-SB68-020	1701152-18	1/17/2017	SW6020A	Barium	286		2.12	0.531	mg/kg	5	N
INC-SB68-020	1701152-18	1/17/2017	SW6020A	Beryllium	0.196	J	0.319	0.106	mg/kg	5	N
INC-SB68-020	1701152-18	1/17/2017	SW6020A	Cadmium	0.533		0.319	0.106	mg/kg	5	N
INC-SB68-020	1701152-18	1/17/2017	SW6020A	Chromium, total	11.3	JH	2.12	0.531	mg/kg	5	N
INC-SB68-020	1701152-18	1/17/2017	SW6020A	Lead	172		0.319	0.106	mg/kg	5	N
INC-SB68-020	1701152-18	1/17/2017	SW6020A	Nickel	6.95		2.12	0.531	mg/kg	5	N
INC-SB68-020	1701152-18	1/17/2017	SW6020A	Selenium	0.382	J	0.531	0.159	mg/kg	5	N
INC-SB68-020	1701152-18	1/17/2017	SW6020A	Silver	1.02		0.214	0.107	mg/kg	5	N
INC-SB68-020	1701152-18	1/17/2017	SW7471B	Mercury	0.0525		0.0451	0.0180	mg/kg	1	N
INC-SB68-020	1701152-18	1/17/2017	SW8270SIM	Acenaphthene	0.00823	J	0.0110	0.00551	mg/kg	1	N
INC-SB68-020	1701152-18	1/17/2017	SW8270SIM	Acenaphthylene	0.0203		0.0110	0.00551	mg/kg	1	N
INC-SB68-020	1701152-18	1/17/2017	SW8270SIM	Anthracene	0.0281		0.0110	0.00551	mg/kg	1	N
INC-SB68-020	1701152-18	1/17/2017	SW8270SIM	Benzo(a)anthracene	0.123		0.0110	0.00551	mg/kg	1	N
INC-SB68-020	1701152-18	1/17/2017	SW8270SIM	Benzo(a)pyrene	0.146		0.0110	0.00551	mg/kg	1	N
INC-SB68-020	1701152-18	1/17/2017	SW8270SIM	Benzo(b)fluoranthene	0.130		0.0110	0.00551	mg/kg	1	N
INC-SB68-020	1701152-18	1/17/2017	SW8270SIM	Benzo(g,h,i)perylene	0.109		0.0110	0.00551	mg/kg	1	N
INC-SB68-020	1701152-18	1/17/2017	SW8270SIM	Benzo(k)fluoranthene	0.0696		0.0110	0.00551	mg/kg	1	N
INC-SB68-020	1701152-18	1/17/2017	SW8270SIM	Chrysene	0.133		0.0110	0.00551	mg/kg	1	N
INC-SB68-020	1701152-18	1/17/2017	SW8270SIM	Dibenz(a,h)anthracene	0.0224		0.0110	0.00551	mg/kg	1	N
INC-SB68-020	1701152-18	1/17/2017	SW8270SIM	Fluoranthene	0.265		0.0110	0.00551	mg/kg	1	N
INC-SB68-020	1701152-18	1/17/2017	SW8270SIM	Fluorene	0.0103	J	0.0110	0.00551	mg/kg	1	N
INC-SB68-020	1701152-18	1/17/2017	SW8270SIM	Indeno(1,2,3-cd)pyrene	0.106		0.0110	0.00551	mg/kg	1	N
INC-SB68-020	1701152-18	1/17/2017	SW8270SIM	Naphthalene	ND	U	0.0110	0.00551	mg/kg	1	N
INC-SB68-020	1701152-18	1/17/2017	SW8270SIM	Phenanthrene	0.123		0.0110	0.00551	mg/kg	1	N
INC-SB68-020	1701152-18	1/17/2017	SW8270SIM	Pyrene	0.216		0.0110	0.00551	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	D2216	Percent moisture	19.8		NA	NA	%	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,1,1,2-Tetrachloroethane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,1,1-Trichloroethane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,1,2,2-Tetrachloroethane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,1,2-Trichloroethane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,1,2-Trichlorotrifluoroethane	ND	U	0.0201	0.00670	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,1-Dichloroethane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,1-Dichloroethene	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,1-Dichloropropene	ND	U	0.00670	0.00134	mg/kg	1	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,2,3-Trichlorobenzene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,2,3-Trichloropropane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,2,4-Trichlorobenzene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,2,4-Trimethylbenzene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,2-Dibromo-3-chloropropane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,2-Dibromoethane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,2-Dichlorobenzene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,2-Dichloroethane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,2-Dichloropropane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,3,5-Trimethylbenzene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,3-Dichlorobenzene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,3-Dichloropropane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1,4-Dichlorobenzene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	1-Chlorohexane	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	2,2-Dichloropropane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	2-Butanone(MEK)	ND	U	0.0201	0.00670	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	2-Chlorotoluene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	2-Hexanone	ND	U	0.0201	0.00670	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	4-Chlorotoluene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	4-Methyl-2-pentanone(MIBK)	ND	U	0.0201	0.00670	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Acetone	ND	U	0.0670	0.0201	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Benzene	0.00139	J	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Bromobenzene	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Bromochloromethane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Bromodichloromethane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Bromoform	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Bromomethane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Carbon disulfide	ND	U	0.0201	0.00670	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Carbon tetrachloride	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Chlorobenzene	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Chloroethane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Chloroform	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Chloromethane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	cis-1,2-Dichloroethene	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	cis-1,3-Dichloropropene	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Cyclohexane	ND	UX7	0.0201	0.00670	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Dibromochloromethane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Dibromomethane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Dichlorodifluoromethane	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Ethylbenzene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Hexachlorobutadiene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Isopropylbenzene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	m & p-Xylene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Methyl acetate	ND	U	0.0201	0.00670	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Methyl t-butyl ether	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Methylcyclohexane	ND	U	0.0201	0.00670	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Methylene chloride	ND	U	0.00670	0.00670	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Naphthalene	ND	UJL	0.0201	0.00670	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	n-Butylbenzene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	n-Propylbenzene	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	o-Xylene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	p-Isopropyltoluene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	sec-Butylbenzene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Styrene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	tert-Butylbenzene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Tetrachloroethene	ND	UJL	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Toluene	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	trans-1,2-Dichloroethene	ND	U	0.00670	0.00134	mg/kg	1	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-SB69-010	1701264-15	1/26/2017	SW8260C	trans-1,3-Dichloropropene	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Trichloroethene	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Trichlorofluoromethane	ND	U	0.0201	0.00670	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	SW8260C	Vinyl chloride	ND	U	0.00670	0.00134	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	TX1005	T/R Hydrocarbons: >C12-C28	134		26.4	9.24	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	TX1005	T/R Hydrocarbons: >C28-C35	9.60	J	26.4	9.24	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	TX1005	T/R Hydrocarbons: C6-C12	ND	U	26.4	9.24	mg/kg	1	N
INC-SB69-010	1701264-15	1/26/2017	TX1005	T/R Hydrocarbons: C6-C35	144		26.4	9.24	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	D2216	Percent moisture	21.7		NA	NA	%	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,1,1,2-Tetrachloroethane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,1,1-Trichloroethane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,1,2,2-Tetrachloroethane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,1,2-Trichloroethane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,1,2-Trichlorotrifluoroethane	ND	U	0.0173	0.00578	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,1-Dichloroethane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,1-Dichloroethene	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,1-Dichloropropene	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,2,3-Trichlorobenzene	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,2,3-Trichloropropane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,2,4-Trichlorobenzene	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,2,4-Trimethylbenzene	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,2-Dibromo-3-chloropropane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,2-Dibromoethane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,2-Dichlorobenzene	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,2-Dichloroethane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,2-Dichloropropane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,3,5-Trimethylbenzene	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,3-Dichlorobenzene	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,3-Dichloropropane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1,4-Dichlorobenzene	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	1-Chlorohexane	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	2,2-Dichloropropane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	2-Butanone(MEK)	ND	U	0.0173	0.00578	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	2-Chlorotoluene	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	2-Hexanone	ND	U	0.0173	0.00578	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	4-Chlorotoluene	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	4-Methyl-2-pentanone(MIBK)	ND	U	0.0173	0.00578	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Acetone	ND	U	0.0578	0.0173	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Benzene	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Bromobenzene	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Bromochloromethane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Bromodichloromethane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Bromoform	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Bromomethane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Carbon disulfide	ND	U	0.0173	0.00578	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Carbon tetrachloride	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Chlorobenzene	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Chloroethane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Chloroform	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Chloromethane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	cis-1,2-Dichloroethene	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	cis-1,3-Dichloropropene	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Cyclohexane	ND	UX7	0.0173	0.00578	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Dibromochloromethane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Dibromomethane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Dichlorodifluoromethane	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Ethylbenzene	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Hexachlorobutadiene	ND	UJL	0.00578	0.00116	mg/kg	1	N

Sample ID	Laboratory Sample ID	Date Collected	Analytical Method	Analyte	Result	Data Qualifier	Method Quantitation Limit	Sample Detection Limit	Units	Dilution Factor	Sample Type
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Isopropylbenzene	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	m & p-Xylene	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Methyl acetate	ND	U	0.0173	0.00578	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Methyl t-butyl ether	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Methylcyclohexane	ND	U	0.0173	0.00578	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Methylene chloride	ND	U	0.00578	0.00578	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Naphthalene	ND	UJL	0.0173	0.00578	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	n-Butylbenzene	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	n-Propylbenzene	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	o-Xylene	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	p-Isopropyltoluene	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	sec-Butylbenzene	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Styrene	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	tert-Butylbenzene	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Tetrachloroethene	ND	UJL	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Toluene	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	trans-1,2-Dichloroethene	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	trans-1,3-Dichloropropene	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Trichloroethene	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Trichlorofluoromethane	ND	U	0.0173	0.00578	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	SW8260C	Vinyl chloride	ND	U	0.00578	0.00116	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	TX1005	T/R Hydrocarbons: >C12-C28	15.6	J	24.1	8.45	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	TX1005	T/R Hydrocarbons: >C28-C35	ND	U	24.1	8.45	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	TX1005	T/R Hydrocarbons: C6-C12	ND	U	24.1	8.45	mg/kg	1	N
INC-SB70-010	1701264-16	1/26/2017	TX1005	T/R Hydrocarbons: C6-C35	15.6	J	24.1	8.45	mg/kg	1	N

Note: See Data Qualifier Definitions table.

FD - Field duplicate sample
ID - Identification
mg/L - Milligrams per liter
N - Normal field sample
NA - Not applicable
SW-846 - Test Methods for Evaluation of Solid Waste: Physical/Chemical Methods, EPA, Office of Solid Waste and Emergency Response, December 1996, Revision 3 and subsequent revisions

TCEQ – Texas Commission on Environmental Quality

Attachment B
TRRP-13 LRCs and ERs

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: GLO/City of Galveston	**Date:** 1/27/2017
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1701152
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			R4-02
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: GLO/City of Galveston	**Date:** 1/27/2017
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1701152

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			S9-01
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with NELAC Chapter 5,
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs).
R4 Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits.
R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits.
R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits
R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-5, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager		01/27/17
Scott Schroeder – Technical Director	Signature	Date

DHL Analytical, Inc. **Date:** *27-Jan-17*

CLIENT: AECOM
Project: GLO/City of Galveston
Lab Order: 1701152

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7471B - Mercury Analysis
Method SW8270D-LL - PAH Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 1/18/2017. A total of 18 samples were received and analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R4-02

For PAH Analysis, the recovery of surrogate 2-Fluorobiphenyl for Sample INC-SB59-010 was below the method control limits. This is flagged accordingly in the QC Summary report. The remaining surrogate for this sample was within method control limits. No further corrective action was taken.

Exception Report R7-03

For Metals Analysis, for Batch 78836, the recoveries of up to three analytes for the Matrix Spike and Matrix Spike Duplicate (1701152-10 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

Exception Report S9-01

For Metals Analysis, for Batch 78836, the recoveries of two analytes for the Post Digestion Spike (1701152-10 PDS) were above the method control limits. These are flagged accordingly in the QC Summary report. These analytes were within method control limits in the associated Serial Dilution. No further corrective action was taken.

For Metals Analysis, for Batch 78880, the RPD of Silver for the Serial Dilution (1701152-10 SD) was marginally above the method control limit. This is flagged accordingly in the QC Summary report. This analyte was within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: GLO/City of Galveston	**Date:** 2/7/2017
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1701264
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?	X				
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			R4-02
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: GLO/City of Galveston | **Date:** 2/7/2017

Reviewer Name: Angie O'Donnell | **Laboratory Work Order:** 1701264

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?		X			S2-02
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			S9-01
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with NELAC Chapter 5,
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs).
R4 Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits.
R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits.
R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits
R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-5, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager		02/07/17
Scott Schroeder – Technical Director	Signature	Date

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW8260C - Volatile Organics Analysis (The compound Cyclohexane is not NELAC Certified)
Method SW8270D-LL - PAH Analysis
Method SW8082A - PCB Analysis
Method TX1005 - Total Petroleum Hydrocarbons Analysis
Method SW6020A - Metals Analysis
Method SW7471B - Mercury Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 1/27/2017. A total of 16 samples were received and analyzed. The sampled arrived in good condition and were properly packaged.

Exception Report R4-02

For TX1005 Analysis, the recovery of surrogate Octacosane for Sample INC-SB57-010 was above the method control limits. This is flagged accordingly in the Analytical Data Report. The remaining surrogate for this sample was within method control limits. No further corrective action was taken.

For TX1005 Analysis, the recoveries of both surrogates for Sample INC-SB57-020 were above the method control limits, due to co-elution. These are flagged accordingly in the Analytical Data Report. No further corrective action was taken.

For Volatiles Analysis, the recovery of surrogate 4-Bromofluorobenzene for Sample INC-SB57-020 was above the method control limits. This is flagged accordingly in the Analytical Data Report. The remaining surrogates for this sample were within method control limits. No further corrective action was taken.

Exception Report R7-03

For Metals Analysis, the recovery of Lead for the Matrix Spike (1701264-06 MS) was below the method control limits. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated LCS/MSD. No further corrective action was taken.

For Mercury Analysis, the recoveries of the Matrix Spike and Matrix Spike Duplicate (1701222-02 MS/MSD) were below the method control limits. These are flagged accordingly in the QC Summary

Report. The associated LCS was within method control limits. No further corrective action was taken.

For Volatiles Analysis, for soil Batch 79018, the recoveries of up to twenty-six compounds for the Matrix Spike and Matrix Spike Duplicate (1701264-11 MS/MSD) were slightly below the method control limits. These are flagged accordingly in the QC Summary Report. The recoveries of these compounds were within method control limits in the associated LCS. No further corrective action was taken.

For PAH Analysis, for soil Batch 79031, the recoveries of twelve compounds for the Matrix Spike and Matrix Spike Duplicate (1701264-06 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. The recoveries of these compounds were within method control limits in the associated LCS. No further corrective action was taken.

Exception Report R10-01

For PCB Analysis, a Copper clean-up was performed, as per the method, on Sample INC-SB57-020, Method Blank-78945, LCS-78945, the Matrix Spike and Matrix Spike Duplicate (1701264-12 MS/MSD), due to matrix. The reference sample selected for the Batch QC was from this workorder. No further corrective action was taken.

Exception Report S2-02

For PCB Analysis, the recovery of Aroclor 1260 for the Continuing Calibration Verification (CCV2-170202) was below the method control limits, due to suppression of signal due to matrix. This is flagged accordingly in the QC Summary report. This araclor is within method control limit in the associated Matrix Spike and matrix Spike Duplicate (1701264-12 MS/MSD). No further corrective action was taken.

For Volatiles Analysis, for water samples performed on 1/28/2017, the recovery of Dichlorodifluoromethane for the Initial Calibration Verification (ICV-170128) was slightly below the method control limits specified in SW8260C (80-120% recovery). This is flagged accordingly in the QC Summary report. The number of target analytes outside of the method control limits for the ICV are less than 20% of the total number of compounds being reported; this is allowed in SW8260C specifications. This compound was within method control limits in the associated LCS. No further corrective action was taken.

Exception Report S9-01

For Metals Analysis, the RPD of Selenium for the Serial Dilution (1701264-06 SD) was above the method control limit. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

For Mercury Analysis, the recovery of the Post Digestion Spike (1701222-02 PDS) was below the method control limits. This is flagged accordingly in the QC Summary Report. The associated Serial Dilution was within method control limits. No further corrective action was taken.

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: GLO/City of Galveston	**Date:** 2/14/2017
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1702034
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			R4-02
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: GLO/City of Galveston	**Date:** 2/14/2017
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1702034

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?		X			**S4-01**
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with NELAC Chapter 5,
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs).
R4 Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits.
R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits.
R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits
R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-5, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager

Scott Schroeder – Technical Director

Signature

02/14/17
Date

DHL Analytical, Inc. **Date:** *14-Feb-17*

CLIENT: AECOM
Project: GLO/City of Galveston
Lab Order: 1702034

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7470A - Mercury Analysis
Method SW8270D-LL - PAH Analysis

Exception Report R1-01

The samples were received and log-in performed on 2/3/2017. A total of 13 samples were received and analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R4-02

For PAH Analysis, the recovery of surrogate 2-Fluorobiphenyl for four samples was slightly below the method control limits. This is flagged accordingly in the QC Summary report. The remaining surrogate for these samples was within method control limits. No further corrective action was taken.

For PAH Analysis, the recoveries of surrogate 2-Fluorobiphenyl (at 1x) and the recovery of surrogate 4-Terphenyl-d14 (at 50x) for Sample INC-MW5-010 were slightly below the method control limits. These are flagged accordingly in the QC Summary report. The remaining surrogate at these dilutions were within method control limits. No further corrective action was taken.

Exception Report S4-01

For Metals Analysis, the response factor(s) of Internal Standards Bismuth and Indium for Sample INC-MW07-010 were below the method control limit, due to matrix interference and verified by re-analysis. The affected analytes are nondetect, with the exception of Lead and Barium, which may be biased slightly high for this sample. No further corrective action was taken.

For Metals Analysis, the response factor of Internal Standard Bismuth for the Matrix Spike and Matrix Spike Duplicate (1702034-13 MS/MSD) was below the method control limits, due to matrix interference and verified by re-analysis. The recovery of the affected analyte, Lead, was within method control limits in these samples. The reference sample selected for the Batch QC was from this workorder. No further corrective action was taken.

DHL Analytical, Inc.
Laboratory Review Checklist: Reportable Data

Project Name: GLO/City of Galveston	**Date:** 1/27/2017
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1701152
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				**R1-01**
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			**R4-02**
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			**R7-03**
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.
Laboratory Review Checklist (continued): Supporting Data

Project Name: GLO/City of Galveston | **Date:** 1/27/2017

Reviewer Name: Angie O'Donnell | **Laboratory Work Order:** 1701152

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			**S9-01**
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
- a) Items consistent with NELAC Chapter 5,
- b) dilution factors,
- c) preparation methods,
- d) cleanup methods, and
- e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:
- a) Calculated recovery (%R), and
- b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
- a) LCS spiking amounts,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d) Calculated %Rs and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits

R8 Laboratory analytical duplicate (if applicable) recovery and precision:
- a) The amount of analyte measured in the duplicate,
- b) The calculated RPD, and
- c) The laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-5, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager		01/27/17
Scott Schroeder – Technical Director	Signature	Date

DHL Analytical, Inc. **Date:** *27-Jan-17*

CLIENT: AECOM
Project: GLO/City of Galveston
Lab Order: 1701152

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7471B - Mercury Analysis
Method SW8270D-LL - PAH Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 1/18/2017. A total of 18 samples were received and analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R4-02

For PAH Analysis, the recovery of surrogate 2-Fluorobiphenyl for Sample INC-SB59-010 was below the method control limits. This is flagged accordingly in the QC Summary report. The remaining surrogate for this sample was within method control limits. No further corrective action was taken.

Exception Report R7-03

For Metals Analysis, for Batch 78836, the recoveries of up to three analytes for the Matrix Spike and Matrix Spike Duplicate (1701152-10 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

Exception Report S9-01

For Metals Analysis, for Batch 78836, the recoveries of two analytes for the Post Digestion Spike (1701152-10 PDS) were above the method control limits. These are flagged accordingly in the QC Summary report. These analytes were within method control limits in the associated Serial Dilution. No further corrective action was taken.

For Metals Analysis, for Batch 78880, the RPD of Silver for the Serial Dilution (1701152-10 SD) was marginally above the method control limit. This is flagged accordingly in the QC Summary report. This analyte was within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT: AECOM
Project: GLO/City of Galveston
Lab Order: 1701152

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1701152-01	INC-SB53-010		01/16/17 04:45 PM	1/18/2017
1701152-02	INC-SB53-020		01/16/17 04:55 PM	1/18/2017
1701152-03	INC-SB54-010		01/16/17 05:15 PM	1/18/2017
1701152-04	INC-SB54-020		01/16/17 05:25 PM	1/18/2017
1701152-05	INC-SB55-010		01/16/17 10:10 AM	1/18/2017
1701152-06	INC-SB55-020		01/16/17 10:50 AM	1/18/2017
1701152-07	INC-SB55-030		01/16/17 12:00 PM	1/18/2017
1701152-08	INC-SB56-010		01/16/17 01:20 PM	1/18/2017
1701152-09	INC-SB56-020		01/16/17 01:30 PM	1/18/2017
1701152-10	INC-SB58-013		01/16/17 02:15 PM	1/18/2017
1701152-11	INC-SB58-020		01/16/17 02:25 PM	1/18/2017
1701152-12	INC-SB59-010		01/16/17 03:30 PM	1/18/2017
1701152-13	INC-SB59-020		01/16/17 03:45 PM	1/18/2017
1701152-14	INC-SB60-010		01/16/17 02:50 PM	1/18/2017
1701152-15	INC-SB60-011		01/16/17 02:50 PM	1/18/2017
1701152-16	INC-SB60-020		01/16/17 03:00 PM	1/18/2017
1701152-17	INC-SB68-010		01/17/17 01:30 PM	1/18/2017
1701152-18	INC-SB68-020		01/17/17 01:40 PM	1/18/2017

DHL Analytical, Inc.

27-Jan-17

Lab Order: 1701152
Client: AECOM
Project: GLO/City of Galveston

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1701152-01A	INC-SB53-010	01/16/17 04:45 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB53-010	01/16/17 04:45 PM	Soil	D2216	Moisture Preparation	01/24/17 01:01 PM	78874
	INC-SB53-010	01/16/17 04:45 PM	Soil	SW3550C	Soil Prep Sonication: PAH	01/20/17 09:00 AM	78824
	INC-SB53-010	01/16/17 04:45 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/25/17 08:09 AM	78880
	INC-SB53-010	01/16/17 04:45 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
1701152-02A	INC-SB53-020	01/16/17 04:55 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB53-020	01/16/17 04:55 PM	Soil	D2216	Moisture Preparation	01/24/17 01:01 PM	78874
	INC-SB53-020	01/16/17 04:55 PM	Soil	SW3550C	Soil Prep Sonication: PAH	01/20/17 09:00 AM	78824
	INC-SB53-020	01/16/17 04:55 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB53-020	01/16/17 04:55 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB53-020	01/16/17 04:55 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/25/17 08:09 AM	78880
1701152-03A	INC-SB54-010	01/16/17 05:15 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB54-010	01/16/17 05:15 PM	Soil	D2216	Moisture Preparation	01/24/17 01:01 PM	78874
	INC-SB54-010	01/16/17 05:15 PM	Soil	SW3550C	Soil Prep Sonication: PAH	01/20/17 09:00 AM	78824
	INC-SB54-010	01/16/17 05:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB54-010	01/16/17 05:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB54-010	01/16/17 05:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/25/17 08:09 AM	78880
1701152-04A	INC-SB54-020	01/16/17 05:25 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB54-020	01/16/17 05:25 PM	Soil	D2216	Moisture Preparation	01/24/17 01:01 PM	78874
	INC-SB54-020	01/16/17 05:25 PM	Soil	SW3550C	Soil Prep Sonication: PAH	01/20/17 09:00 AM	78824
	INC-SB54-020	01/16/17 05:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB54-020	01/16/17 05:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/25/17 08:09 AM	78880
1701152-05A	INC-SB55-010	01/16/17 10:10 AM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB55-010	01/16/17 10:10 AM	Soil	D2216	Moisture Preparation	01/24/17 01:01 PM	78874
	INC-SB55-010	01/16/17 10:10 AM	Soil	SW3550C	Soil Prep Sonication: PAH	01/20/17 09:00 AM	78824
	INC-SB55-010	01/16/17 10:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB55-010	01/16/17 10:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB55-010	01/16/17 10:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/25/17 08:09 AM	78880

Lab Order: 1701152
Client: AECOM
Project: GLO/City of Galveston

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1701152-06A	INC-SB55-020	01/16/17 10:50 AM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB55-020	01/16/17 10:50 AM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB55-020	01/16/17 10:50 AM	Soil	D2216	Moisture Preparation	01/24/17 01:01 PM	78874
	INC-SB55-020	01/16/17 10:50 AM	Soil	SW3550C	Soil Prep Sonication: PAH	01/20/17 09:00 AM	78824
	INC-SB55-020	01/16/17 10:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB55-020	01/16/17 10:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB55-020	01/16/17 10:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/25/17 08:09 AM	78880
1701152-07A	INC-SB55-030	01/16/17 12:00 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB55-030	01/16/17 12:00 PM	Soil	D2216	Moisture Preparation	01/24/17 01:01 PM	78874
	INC-SB55-030	01/16/17 12:00 PM	Soil	SW3550C	Soil Prep Sonication: PAH	01/20/17 09:00 AM	78824
	INC-SB55-030	01/16/17 12:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB55-030	01/16/17 12:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/25/17 08:09 AM	78880
1701152-08A	INC-SB56-010	01/16/17 01:20 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB56-010	01/16/17 01:20 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB56-010	01/16/17 01:20 PM	Soil	D2216	Moisture Preparation	01/24/17 01:01 PM	78874
	INC-SB56-010	01/16/17 01:20 PM	Soil	SW3550C	Soil Prep Sonication: PAH	01/20/17 09:00 AM	78824
	INC-SB56-010	01/16/17 01:20 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB56-010	01/16/17 01:20 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB56-010	01/16/17 01:20 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/25/17 08:09 AM	78880
1701152-09A	INC-SB56-020	01/16/17 01:30 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB56-020	01/16/17 01:30 PM	Soil	D2216	Moisture Preparation	01/25/17 02:14 PM	78899
	INC-SB56-020	01/16/17 01:30 PM	Soil	SW3550C	Soil Prep Sonication: PAH	01/20/17 09:00 AM	78824
	INC-SB56-020	01/16/17 01:30 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB56-020	01/16/17 01:30 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB56-020	01/16/17 01:30 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/25/17 08:09 AM	78880
1701152-10A	INC-SB58-013	01/16/17 02:15 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB58-013	01/16/17 02:15 PM	Soil	D2216	Moisture Preparation	01/25/17 02:14 PM	78899
	INC-SB58-013	01/16/17 02:15 PM	Soil	SW3550C	Soil Prep Sonication: PAH	01/20/17 09:00 AM	78824

Lab Order: 1701152
Client: AECOM
Project: GLO/City of Galveston

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1701152-10A	INC-SB58-013	01/16/17 02:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB58-013	01/16/17 02:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/25/17 08:09 AM	78880
1701152-11A	INC-SB58-020	01/16/17 02:25 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB58-020	01/16/17 02:25 PM	Soil	D2216	Moisture Preparation	01/25/17 02:14 PM	78899
	INC-SB58-020	01/16/17 02:25 PM	Soil	SW3550C	Soil Prep Sonication: PAH	01/20/17 09:00 AM	78824
	INC-SB58-020	01/16/17 02:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/25/17 08:09 AM	78880
	INC-SB58-020	01/16/17 02:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB58-020	01/16/17 02:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
1701152-12A	INC-SB59-010	01/16/17 03:30 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB59-010	01/16/17 03:30 PM	Soil	D2216	Moisture Preparation	01/25/17 02:14 PM	78899
	INC-SB59-010	01/16/17 03:30 PM	Soil	SW3550C	Soil Prep Sonication: PAH	01/20/17 09:00 AM	78824
	INC-SB59-010	01/16/17 03:30 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB59-010	01/16/17 03:30 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/25/17 08:09 AM	78880
1701152-13A	INC-SB59-020	01/16/17 03:45 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB59-020	01/16/17 03:45 PM	Soil	D2216	Moisture Preparation	01/25/17 02:14 PM	78899
	INC-SB59-020	01/16/17 03:45 PM	Soil	SW3550C	Soil Prep Sonication: PAH	01/20/17 09:00 AM	78824
	INC-SB59-020	01/16/17 03:45 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB59-020	01/16/17 03:45 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/25/17 08:09 AM	78880
1701152-14A	INC-SB60-010	01/16/17 02:50 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB60-010	01/16/17 02:50 PM	Soil	D2216	Moisture Preparation	01/25/17 02:14 PM	78899
	INC-SB60-010	01/16/17 02:50 PM	Soil	SW3550C	Soil Prep Sonication: PAH	01/20/17 09:00 AM	78824
	INC-SB60-010	01/16/17 02:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB60-010	01/16/17 02:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/25/17 08:09 AM	78880
	INC-SB60-010	01/16/17 02:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
1701152-15A	INC-SB60-011	01/16/17 02:50 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB60-011	01/16/17 02:50 PM	Soil	D2216	Moisture Preparation	01/25/17 02:14 PM	78899
	INC-SB60-011	01/16/17 02:50 PM	Soil	SW3550C	Soil Prep Sonication: PAH	01/20/17 09:00 AM	78824
	INC-SB60-011	01/16/17 02:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836

Lab Order: 1701152
Client: AECOM
Project: GLO/City of Galveston

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1701152-15A	INC-SB60-011	01/16/17 02:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB60-011	01/16/17 02:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/25/17 08:09 AM	78880
1701152-16A	INC-SB60-020	01/16/17 03:00 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB60-020	01/16/17 03:00 PM	Soil	D2216	Moisture Preparation	01/25/17 02:14 PM	78899
	INC-SB60-020	01/16/17 03:00 PM	Soil	SW3550C	Soil Prep Sonication: PAH	01/20/17 09:00 AM	78824
	INC-SB60-020	01/16/17 03:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/25/17 08:09 AM	78880
	INC-SB60-020	01/16/17 03:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
1701152-17A	INC-SB68-010	01/17/17 01:30 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB68-010	01/17/17 01:30 PM	Soil	D2216	Moisture Preparation	01/25/17 02:14 PM	78899
	INC-SB68-010	01/17/17 01:30 PM	Soil	SW3550C	Soil Prep Sonication: PAH	01/20/17 09:00 AM	78824
	INC-SB68-010	01/17/17 01:30 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB68-010	01/17/17 01:30 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/25/17 08:09 AM	78880
1701152-18A	INC-SB68-020	01/17/17 01:40 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/23/17 08:12 AM	78838
	INC-SB68-020	01/17/17 01:40 PM	Soil	D2216	Moisture Preparation	01/25/17 02:14 PM	78899
	INC-SB68-020	01/17/17 01:40 PM	Soil	SW3550C	Soil Prep Sonication: PAH	01/20/17 09:00 AM	78824
	INC-SB68-020	01/17/17 01:40 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/23/17 08:05 AM	78836
	INC-SB68-020	01/17/17 01:40 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	01/25/17 08:09 AM	78880

Lab Order: 1701152
Client: AECOM
Project: GLO/City of Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1701152-01A	INC-SB53-010	Soil	SW8270D-LL	PAHs: GC/MS	78824	1	01/24/17 12:46 PM	GCMS6_170124A
	INC-SB53-010	Soil	D2216	Percent Moisture	78874	1	01/25/17 09:00 AM	PMOIST_170124B
	INC-SB53-010	Soil	SW7471B	Total Mercury: Soil/Solid	78838	1	01/25/17 12:58 PM	CETAC2_HG_170125B
	INC-SB53-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	5	01/24/17 11:10 AM	ICP-MS4_170124A
	INC-SB53-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78880	5	01/26/17 03:21 PM	ICP-MS4_170126A
1701152-02A	INC-SB53-020	Soil	SW8270D-LL	PAHs: GC/MS	78824	5	01/23/17 06:16 PM	GCMS6_170123A
	INC-SB53-020	Soil	D2216	Percent Moisture	78874	1	01/25/17 09:00 AM	PMOIST_170124B
	INC-SB53-020	Soil	SW7471B	Total Mercury: Soil/Solid	78838	1	01/25/17 01:00 PM	CETAC2_HG_170125B
	INC-SB53-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	5	01/24/17 11:12 AM	ICP-MS4_170124A
	INC-SB53-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	50	01/26/17 01:04 PM	ICP-MS4_170126A
	INC-SB53-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78880	5	01/26/17 03:23 PM	ICP-MS4_170126A
1701152-03A	INC-SB54-010	Soil	SW8270D-LL	PAHs: GC/MS	78824	1	01/23/17 12:10 PM	GCMS6_170123A
	INC-SB54-010	Soil	D2216	Percent Moisture	78874	1	01/25/17 09:00 AM	PMOIST_170124B
	INC-SB54-010	Soil	SW7471B	Total Mercury: Soil/Solid	78838	1	01/25/17 01:02 PM	CETAC2_HG_170125B
	INC-SB54-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	100	01/26/17 01:06 PM	ICP-MS4_170126A
	INC-SB54-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78880	5	01/26/17 03:25 PM	ICP-MS4_170126A
	INC-SB54-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	5	01/24/17 11:14 AM	ICP-MS4_170124A
1701152-04A	INC-SB54-020	Soil	SW8270D-LL	PAHs: GC/MS	78824	1	01/23/17 11:40 AM	GCMS6_170123A
	INC-SB54-020	Soil	D2216	Percent Moisture	78874	1	01/25/17 09:00 AM	PMOIST_170124B
	INC-SB54-020	Soil	SW7471B	Total Mercury: Soil/Solid	78838	1	01/25/17 01:04 PM	CETAC2_HG_170125B
	INC-SB54-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	5	01/24/17 11:15 AM	ICP-MS4_170124A
	INC-SB54-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78880	5	01/26/17 03:27 PM	ICP-MS4_170126A
1701152-05A	INC-SB55-010	Soil	SW8270D-LL	PAHs: GC/MS	78824	1	01/24/17 11:47 AM	GCMS6_170124A
	INC-SB55-010	Soil	D2216	Percent Moisture	78874	1	01/25/17 09:00 AM	PMOIST_170124B
	INC-SB55-010	Soil	SW7471B	Total Mercury: Soil/Solid	78838	1	01/25/17 01:07 PM	CETAC2_HG_170125B
	INC-SB55-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78880	5	01/26/17 03:29 PM	ICP-MS4_170126A

Lab Order: 1701152
Client: AECOM
Project: GLO/City of Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1701152-05A	INC-SB55-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	50	01/26/17 01:08 PM	ICP-MS4_170126A
	INC-SB55-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	5	01/24/17 11:18 AM	ICP-MS4_170124A
1701152-06A	INC-SB55-020	Soil	SW8270D-LL	PAHs: GC/MS	78824	5	01/23/17 01:16 PM	GCMS6_170123A
	INC-SB55-020	Soil	D2216	Percent Moisture	78874	1	01/25/17 09:00 AM	PMOIST_170124B
	INC-SB55-020	Soil	SW7471B	Total Mercury: Soil/Solid	78838	1	01/25/17 01:09 PM	CETAC2_HG_170125B
	INC-SB55-020	Soil	SW7471B	Total Mercury: Soil/Solid	78838	5	01/25/17 01:49 PM	CETAC2_HG_170125B
	INC-SB55-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	5	01/24/17 11:19 AM	ICP-MS4_170124A
	INC-SB55-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	50	01/26/17 01:10 PM	ICP-MS4_170126A
	INC-SB55-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78880	5	01/26/17 03:31 PM	ICP-MS4_170126A
1701152-07A	INC-SB55-030	Soil	SW8270D-LL	PAHs: GC/MS	78824	1	01/23/17 10:40 AM	GCMS6_170123A
	INC-SB55-030	Soil	D2216	Percent Moisture	78874	1	01/25/17 09:00 AM	PMOIST_170124B
	INC-SB55-030	Soil	SW7471B	Total Mercury: Soil/Solid	78838	1	01/25/17 01:11 PM	CETAC2_HG_170125B
	INC-SB55-030	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	5	01/24/17 11:21 AM	ICP-MS4_170124A
	INC-SB55-030	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78880	5	01/26/17 03:33 PM	ICP-MS4_170126A
1701152-08A	INC-SB56-010	Soil	SW8270D-LL	PAHs: GC/MS	78824	1	01/24/17 01:46 PM	GCMS6_170124A
	INC-SB56-010	Soil	D2216	Percent Moisture	78874	1	01/25/17 09:00 AM	PMOIST_170124B
	INC-SB56-010	Soil	SW7471B	Total Mercury: Soil/Solid	78838	1	01/25/17 01:14 PM	CETAC2_HG_170125B
	INC-SB56-010	Soil	SW7471B	Total Mercury: Soil/Solid	78838	5	01/25/17 01:51 PM	CETAC2_HG_170125B
	INC-SB56-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	5	01/24/17 11:23 AM	ICP-MS4_170124A
	INC-SB56-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	50	01/26/17 01:12 PM	ICP-MS4_170126A
	INC-SB56-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78880	5	01/26/17 03:35 PM	ICP-MS4_170126A
1701152-09A	INC-SB56-020	Soil	SW8270D-LL	PAHs: GC/MS	78824	1	01/24/17 12:17 PM	GCMS6_170124A
	INC-SB56-020	Soil	D2216	Percent Moisture	78899	1	01/26/17 08:10 AM	PMOIST_170125A
	INC-SB56-020	Soil	SW7471B	Total Mercury: Soil/Solid	78838	1	01/25/17 01:16 PM	CETAC2_HG_170125B
	INC-SB56-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	5	01/24/17 11:25 AM	ICP-MS4_170124A

Lab Order: 1701152
Client: AECOM
Project: GLO/City of Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1701152-09A	INC-SB56-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78880	5	01/26/17 03:37 PM	ICP-MS4_170126A
	INC-SB56-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	50	01/26/17 01:14 PM	ICP-MS4_170126A
1701152-10A	INC-SB58-013	Soil	SW8270D-LL	PAHs: GC/MS	78824	1	01/24/17 10:46 AM	GCMS6_170124A
	INC-SB58-013	Soil	D2216	Percent Moisture	78899	1	01/26/17 08:10 AM	PMOIST_170125A
	INC-SB58-013	Soil	SW7471B	Total Mercury: Soil/Solid	78838	1	01/25/17 12:46 PM	CETAC2_HG_170125B
	INC-SB58-013	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	5	01/24/17 11:06 AM	ICP-MS4_170124A
	INC-SB58-013	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78880	5	01/26/17 03:17 PM	ICP-MS4_170126A
1701152-11A	INC-SB58-020	Soil	SW8270D-LL	PAHs: GC/MS	78824	5	01/23/17 04:16 PM	GCMS6_170123A
	INC-SB58-020	Soil	D2216	Percent Moisture	78899	1	01/26/17 08:10 AM	PMOIST_170125A
	INC-SB58-020	Soil	SW7471B	Total Mercury: Soil/Solid	78838	1	01/25/17 01:23 PM	CETAC2_HG_170125B
	INC-SB58-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	5	01/24/17 12:06 PM	ICP-MS4_170124A
	INC-SB58-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	50	01/26/17 01:16 PM	ICP-MS4_170126A
	INC-SB58-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78880	5	01/26/17 03:54 PM	ICP-MS4_170126A
1701152-12A	INC-SB59-010	Soil	SW8270D-LL	PAHs: GC/MS	78824	1	01/24/17 10:16 AM	GCMS6_170124A
	INC-SB59-010	Soil	D2216	Percent Moisture	78899	1	01/26/17 08:10 AM	PMOIST_170125A
	INC-SB59-010	Soil	SW7471B	Total Mercury: Soil/Solid	78838	1	01/25/17 01:25 PM	CETAC2_HG_170125B
	INC-SB59-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	5	01/24/17 12:08 PM	ICP-MS4_170124A
	INC-SB59-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78880	5	01/26/17 03:56 PM	ICP-MS4_170126A
1701152-13A	INC-SB59-020	Soil	SW8270D-LL	PAHs: GC/MS	78824	1	01/24/17 01:17 PM	GCMS6_170124A
	INC-SB59-020	Soil	D2216	Percent Moisture	78899	1	01/26/17 08:10 AM	PMOIST_170125A
	INC-SB59-020	Soil	SW7471B	Total Mercury: Soil/Solid	78838	1	01/25/17 01:27 PM	CETAC2_HG_170125B
	INC-SB59-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	5	01/24/17 12:10 PM	ICP-MS4_170124A
	INC-SB59-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78880	5	01/26/17 03:58 PM	ICP-MS4_170126A
1701152-14A	INC-SB60-010	Soil	SW8270D-LL	PAHs: GC/MS	78824	5	01/23/17 02:46 PM	GCMS6_170123A
	INC-SB60-010	Soil	D2216	Percent Moisture	78899	1	01/26/17 08:10 AM	PMOIST_170125A
	INC-SB60-010	Soil	SW7471B	Total Mercury: Soil/Solid	78838	1	01/25/17 01:29 PM	CETAC2_HG_170125B

Lab Order: 1701152
Client: AECOM
Project: GLO/City of Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1701152-14A	INC-SB60-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	5	01/24/17 12:12 PM	ICP-MS4_170124A
	INC-SB60-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	50	01/26/17 01:18 PM	ICP-MS4_170126A
	INC-SB60-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78880	5	01/26/17 04:00 PM	ICP-MS4_170126A
1701152-15A	INC-SB60-011	Soil	SW8270D-LL	PAHs: GC/MS	78824	5	01/23/17 02:16 PM	GCMS6_170123A
	INC-SB60-011	Soil	D2216	Percent Moisture	78899	1	01/26/17 08:10 AM	PMOIST_170125A
	INC-SB60-011	Soil	SW7471B	Total Mercury: Soil/Solid	78838	1	01/25/17 01:32 PM	CETAC2_HG_170125B
	INC-SB60-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	5	01/24/17 12:14 PM	ICP-MS4_170124A
	INC-SB60-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	50	01/26/17 01:20 PM	ICP-MS4_170126A
	INC-SB60-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78880	5	01/26/17 04:02 PM	ICP-MS4_170126A
1701152-16A	INC-SB60-020	Soil	SW8270D-LL	PAHs: GC/MS	78824	1	01/23/17 11:10 AM	GCMS6_170123A
	INC-SB60-020	Soil	D2216	Percent Moisture	78899	1	01/26/17 08:10 AM	PMOIST_170125A
	INC-SB60-020	Soil	SW7471B	Total Mercury: Soil/Solid	78838	1	01/25/17 01:34 PM	CETAC2_HG_170125B
	INC-SB60-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78880	5	01/26/17 04:04 PM	ICP-MS4_170126A
	INC-SB60-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	5	01/24/17 12:16 PM	ICP-MS4_170124A
1701152-17A	INC-SB68-010	Soil	SW8270D-LL	PAHs: GC/MS	78824	10	01/23/17 07:16 PM	GCMS6_170123A
	INC-SB68-010	Soil	D2216	Percent Moisture	78899	1	01/26/17 08:10 AM	PMOIST_170125A
	INC-SB68-010	Soil	SW7471B	Total Mercury: Soil/Solid	78838	1	01/25/17 01:36 PM	CETAC2_HG_170125B
	INC-SB68-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	5	01/24/17 12:18 PM	ICP-MS4_170124A
	INC-SB68-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78880	5	01/26/17 04:06 PM	ICP-MS4_170126A
1701152-18A	INC-SB68-020	Soil	SW8270D-LL	PAHs: GC/MS	78824	1	01/24/17 11:16 AM	GCMS6_170124A
	INC-SB68-020	Soil	D2216	Percent Moisture	78899	1	01/26/17 08:10 AM	PMOIST_170125A
	INC-SB68-020	Soil	SW7471B	Total Mercury: Soil/Solid	78838	1	01/25/17 01:39 PM	CETAC2_HG_170125B
	INC-SB68-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78880	5	01/26/17 04:08 PM	ICP-MS4_170126A
	INC-SB68-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78836	5	01/24/17 12:20 PM	ICP-MS4_170124A

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB53-010
Project:	GLO/City of Galveston	**Lab ID:**	1701152-01
Project No:	60420789.3301	**Collection Date:**	01/16/17 04:45 PM
Lab Order:	1701152	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	0.706	0.531	1.06	J	mg/Kg-dry	5	01/24/17 11:10 AM
Arsenic	3.37	0.531	1.06		mg/Kg-dry	5	01/24/17 11:10 AM
Barium	66.7	0.531	2.12		mg/Kg-dry	5	01/24/17 11:10 AM
Beryllium	0.283	0.106	0.319	J	mg/Kg-dry	5	01/24/17 11:10 AM
Cadmium	0.451	0.106	0.319		mg/Kg-dry	5	01/24/17 11:10 AM
Chromium	7.78	0.531	2.12		mg/Kg-dry	5	01/24/17 11:10 AM
Lead	32.2	0.106	0.319		mg/Kg-dry	5	01/24/17 11:10 AM
Nickel	5.45	0.531	2.12		mg/Kg-dry	5	01/24/17 11:10 AM
Selenium	0.512	0.159	0.531	J	mg/Kg-dry	5	01/24/17 11:10 AM
Silver	0.115	0.111	0.223	J	mg/Kg-dry	5	01/26/17 03:21 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **RO**
Mercury	0.0299	0.0171	0.0429	J	mg/Kg-dry	1	01/25/17 12:58 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	0.0158	0.00568	0.0114		mg/Kg-dry	1	01/24/17 12:46 PM
Acenaphthylene	0.0222	0.00568	0.0114		mg/Kg-dry	1	01/24/17 12:46 PM
Anthracene	0.0590	0.00568	0.0114		mg/Kg-dry	1	01/24/17 12:46 PM
Benzo[a]anthracene	0.201	0.00568	0.0114		mg/Kg-dry	1	01/24/17 12:46 PM
Benzo[a]pyrene	0.223	0.00568	0.0114		mg/Kg-dry	1	01/24/17 12:46 PM
Benzo[b]fluoranthene	0.205	0.00568	0.0114		mg/Kg-dry	1	01/24/17 12:46 PM
Benzo[g,h,i]perylene	0.151	0.00568	0.0114		mg/Kg-dry	1	01/24/17 12:46 PM
Benzo[k]fluoranthene	0.112	0.00568	0.0114		mg/Kg-dry	1	01/24/17 12:46 PM
Chrysene	0.240	0.00568	0.0114		mg/Kg-dry	1	01/24/17 12:46 PM
Dibenz[a,h]anthracene	0.0313	0.00568	0.0114		mg/Kg-dry	1	01/24/17 12:46 PM
Fluoranthene	0.453	0.00568	0.0114		mg/Kg-dry	1	01/24/17 12:46 PM
Fluorene	0.0169	0.00568	0.0114		mg/Kg-dry	1	01/24/17 12:46 PM
Indeno[1,2,3-cd]pyrene	0.151	0.00568	0.0114		mg/Kg-dry	1	01/24/17 12:46 PM
Naphthalene	<0.00568	0.00568	0.0114		mg/Kg-dry	1	01/24/17 12:46 PM
Phenanthrene	0.244	0.00568	0.0114		mg/Kg-dry	1	01/24/17 12:46 PM
Pyrene	0.372	0.00568	0.0114		mg/Kg-dry	1	01/24/17 12:46 PM
Surr: 2-Fluorobiphenyl	46.8	0	43-125		%REC	1	01/24/17 12:46 PM
Surr: 4-Terphenyl-d14	47.4	0	32-125		%REC	1	01/24/17 12:46 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	12.0	0	0		WT%	1	01/25/17 09:00 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB53-020
Project:	GLO/City of Galveston	**Lab ID:**	1701152-02
Project No:	60420789.3301	**Collection Date:**	01/16/17 04:55 PM
Lab Order:	1701152	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	8.54	0.542	1.08		mg/Kg-dry	5	01/24/17 11:12 AM
Arsenic	6.74	0.542	1.08		mg/Kg-dry	5	01/24/17 11:12 AM
Barium	181	0.542	2.17		mg/Kg-dry	5	01/24/17 11:12 AM
Beryllium	0.121	0.108	0.325	J	mg/Kg-dry	5	01/24/17 11:12 AM
Cadmium	1.42	0.108	0.325		mg/Kg-dry	5	01/24/17 11:12 AM
Chromium	29.0	0.542	2.17		mg/Kg-dry	5	01/24/17 11:12 AM
Lead	736	1.08	3.25		mg/Kg-dry	50	01/26/17 01:04 PM
Nickel	17.9	0.542	2.17		mg/Kg-dry	5	01/24/17 11:12 AM
Selenium	0.500	0.163	0.542	J	mg/Kg-dry	5	01/24/17 11:12 AM
Silver	0.364	0.108	0.217		mg/Kg-dry	5	01/26/17 03:23 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **RO**
Mercury	0.238	0.0169	0.0423		mg/Kg-dry	1	01/25/17 01:00 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	0.591	0.0290	0.0580		mg/Kg-dry	5	01/23/17 06:16 PM
Acenaphthylene	0.413	0.0290	0.0580		mg/Kg-dry	5	01/23/17 06:16 PM
Anthracene	2.19	0.0290	0.0580		mg/Kg-dry	5	01/23/17 06:16 PM
Benzo[a]anthracene	4.20	0.0290	0.0580		mg/Kg-dry	5	01/23/17 06:16 PM
Benzo[a]pyrene	4.02	0.0290	0.0580		mg/Kg-dry	5	01/23/17 06:16 PM
Benzo[b]fluoranthene	4.07	0.0290	0.0580		mg/Kg-dry	5	01/23/17 06:16 PM
Benzo[g,h,i]perylene	3.52	0.0290	0.0580		mg/Kg-dry	5	01/23/17 06:16 PM
Benzo[k]fluoranthene	2.08	0.0290	0.0580		mg/Kg-dry	5	01/23/17 06:16 PM
Chrysene	4.63	0.0290	0.0580		mg/Kg-dry	5	01/23/17 06:16 PM
Dibenz[a,h]anthracene	0.665	0.0290	0.0580		mg/Kg-dry	5	01/23/17 06:16 PM
Fluoranthene	10.1	0.0290	0.0580		mg/Kg-dry	5	01/23/17 06:16 PM
Fluorene	1.00	0.0290	0.0580		mg/Kg-dry	5	01/23/17 06:16 PM
Indeno[1,2,3-cd]pyrene	3.38	0.0290	0.0580		mg/Kg-dry	5	01/23/17 06:16 PM
Naphthalene	0.311	0.0290	0.0580		mg/Kg-dry	5	01/23/17 06:16 PM
Phenanthrene	7.88	0.0290	0.0580		mg/Kg-dry	5	01/23/17 06:16 PM
Pyrene	7.67	0.0290	0.0580		mg/Kg-dry	5	01/23/17 06:16 PM
Surr: 2-Fluorobiphenyl	71.6	0	43-125		%REC	5	01/23/17 06:16 PM
Surr: 4-Terphenyl-d14	71.2	0	32-125		%REC	5	01/23/17 06:16 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	14.6	0	0		WT%	1	01/25/17 09:00 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB54-010
Project:	GLO/City of Galveston	**Lab ID:**	1701152-03
Project No:	60420789.3301	**Collection Date:**	01/16/17 05:15 PM
Lab Order:	1701152	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	<0.478	0.478	0.956		mg/Kg-dry	5	01/24/17 11:14 AM
Arsenic	2.17	0.478	0.956		mg/Kg-dry	5	01/24/17 11:14 AM
Barium	3130	9.56	38.2		mg/Kg-dry	100	01/26/17 01:06 PM
Beryllium	3.01	0.0956	0.287		mg/Kg-dry	5	01/24/17 11:14 AM
Cadmium	0.228	0.0956	0.287	J	mg/Kg-dry	5	01/24/17 11:14 AM
Chromium	53.6	0.478	1.91		mg/Kg-dry	5	01/24/17 11:14 AM
Lead	28.4	0.0956	0.287		mg/Kg-dry	5	01/24/17 11:14 AM
Nickel	32.9	0.478	1.91		mg/Kg-dry	5	01/24/17 11:14 AM
Selenium	2.44	0.143	0.478		mg/Kg-dry	5	01/24/17 11:14 AM
Silver	<0.101	0.101	0.202		mg/Kg-dry	5	01/26/17 03:25 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **RO**
Mercury	<0.0161	0.0161	0.0403		mg/Kg-dry	1	01/25/17 01:02 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	<0.00526	0.00526	0.0105		mg/Kg-dry	1	01/23/17 12:10 PM
Acenaphthylene	<0.00526	0.00526	0.0105		mg/Kg-dry	1	01/23/17 12:10 PM
Anthracene	<0.00526	0.00526	0.0105		mg/Kg-dry	1	01/23/17 12:10 PM
Benzo[a]anthracene	0.0142	0.00526	0.0105		mg/Kg-dry	1	01/23/17 12:10 PM
Benzo[a]pyrene	0.0188	0.00526	0.0105		mg/Kg-dry	1	01/23/17 12:10 PM
Benzo[b]fluoranthene	0.0220	0.00526	0.0105		mg/Kg-dry	1	01/23/17 12:10 PM
Benzo[g,h,i]perylene	0.0192	0.00526	0.0105		mg/Kg-dry	1	01/23/17 12:10 PM
Benzo[k]fluoranthene	0.0109	0.00526	0.0105		mg/Kg-dry	1	01/23/17 12:10 PM
Chrysene	0.0185	0.00526	0.0105		mg/Kg-dry	1	01/23/17 12:10 PM
Dibenz[a,h]anthracene	<0.00526	0.00526	0.0105		mg/Kg-dry	1	01/23/17 12:10 PM
Fluoranthene	0.0325	0.00526	0.0105		mg/Kg-dry	1	01/23/17 12:10 PM
Fluorene	<0.00526	0.00526	0.0105		mg/Kg-dry	1	01/23/17 12:10 PM
Indeno[1,2,3-cd]pyrene	0.0177	0.00526	0.0105		mg/Kg-dry	1	01/23/17 12:10 PM
Naphthalene	<0.00526	0.00526	0.0105		mg/Kg-dry	1	01/23/17 12:10 PM
Phenanthrene	0.0152	0.00526	0.0105		mg/Kg-dry	1	01/23/17 12:10 PM
Pyrene	0.0277	0.00526	0.0105		mg/Kg-dry	1	01/23/17 12:10 PM
Surr: 2-Fluorobiphenyl	64.6	0	43-125		%REC	1	01/23/17 12:10 PM
Surr: 4-Terphenyl-d14	66.2	0	32-125		%REC	1	01/23/17 12:10 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	4.90	0	0		WT%	1	01/25/17 09:00 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB54-020
Project:	GLO/City of Galveston	**Lab ID:**	1701152-04
Project No:	60420789.3301	**Collection Date:**	01/16/17 05:25 PM
Lab Order:	1701152	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	<0.560	0.560	1.12		mg/Kg-dry	5	01/24/17 11:15 AM
Arsenic	1.70	0.560	1.12		mg/Kg-dry	5	01/24/17 11:15 AM
Barium	12.4	0.560	2.24		mg/Kg-dry	5	01/24/17 11:15 AM
Beryllium	<0.112	0.112	0.336		mg/Kg-dry	5	01/24/17 11:15 AM
Cadmium	<0.112	0.112	0.336		mg/Kg-dry	5	01/24/17 11:15 AM
Chromium	2.66	0.560	2.24		mg/Kg-dry	5	01/24/17 11:15 AM
Lead	4.95	0.112	0.336		mg/Kg-dry	5	01/24/17 11:15 AM
Nickel	1.94	0.560	2.24	J	mg/Kg-dry	5	01/24/17 11:15 AM
Selenium	0.400	0.168	0.560	J	mg/Kg-dry	5	01/24/17 11:15 AM
Silver	<0.113	0.113	0.226		mg/Kg-dry	5	01/26/17 03:27 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **RO**
Mercury	<0.0168	0.0168	0.0421		mg/Kg-dry	1	01/25/17 01:04 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	<0.00592	0.00592	0.0118		mg/Kg-dry	1	01/23/17 11:40 AM
Acenaphthylene	<0.00592	0.00592	0.0118		mg/Kg-dry	1	01/23/17 11:40 AM
Anthracene	<0.00592	0.00592	0.0118		mg/Kg-dry	1	01/23/17 11:40 AM
Benzo[a]anthracene	0.00844	0.00592	0.0118	J	mg/Kg-dry	1	01/23/17 11:40 AM
Benzo[a]pyrene	0.0101	0.00592	0.0118	J	mg/Kg-dry	1	01/23/17 11:40 AM
Benzo[b]fluoranthene	0.0105	0.00592	0.0118	J	mg/Kg-dry	1	01/23/17 11:40 AM
Benzo[g,h,i]perylene	0.00830	0.00592	0.0118	J	mg/Kg-dry	1	01/23/17 11:40 AM
Benzo[k]fluoranthene	<0.00592	0.00592	0.0118		mg/Kg-dry	1	01/23/17 11:40 AM
Chrysene	0.00978	0.00592	0.0118	J	mg/Kg-dry	1	01/23/17 11:40 AM
Dibenz[a,h]anthracene	<0.00592	0.00592	0.0118		mg/Kg-dry	1	01/23/17 11:40 AM
Fluoranthene	0.0199	0.00592	0.0118		mg/Kg-dry	1	01/23/17 11:40 AM
Fluorene	<0.00592	0.00592	0.0118		mg/Kg-dry	1	01/23/17 11:40 AM
Indeno[1,2,3-cd]pyrene	0.00807	0.00592	0.0118	J	mg/Kg-dry	1	01/23/17 11:40 AM
Naphthalene	<0.00592	0.00592	0.0118		mg/Kg-dry	1	01/23/17 11:40 AM
Phenanthrene	0.00755	0.00592	0.0118	J	mg/Kg-dry	1	01/23/17 11:40 AM
Pyrene	0.0173	0.00592	0.0118		mg/Kg-dry	1	01/23/17 11:40 AM
Surr: 2-Fluorobiphenyl	64.5	0	43-125		%REC	1	01/23/17 11:40 AM
Surr: 4-Terphenyl-d14	68.1	0	32-125		%REC	1	01/23/17 11:40 AM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	16.6	0	0		WT%	1	01/25/17 09:00 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB55-010
Project:	GLO/City of Galveston	**Lab ID:**	1701152-05
Project No:	60420789.3301	**Collection Date:**	01/16/17 10:10 AM
Lab Order:	1701152	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	10.1	0.595	1.19		mg/Kg-dry	5	01/24/17 11:18 AM
Arsenic	11.6	0.595	1.19		mg/Kg-dry	5	01/24/17 11:18 AM
Barium	577	5.95	23.8		mg/Kg-dry	50	01/26/17 01:08 PM
Beryllium	0.295	0.119	0.357	J	mg/Kg-dry	5	01/24/17 11:18 AM
Cadmium	3.54	0.119	0.357		mg/Kg-dry	5	01/24/17 11:18 AM
Chromium	55.2	0.595	2.38		mg/Kg-dry	5	01/24/17 11:18 AM
Lead	1030	1.19	3.57		mg/Kg-dry	50	01/26/17 01:08 PM
Nickel	49.5	0.595	2.38		mg/Kg-dry	5	01/24/17 11:18 AM
Selenium	0.590	0.179	0.595	J	mg/Kg-dry	5	01/24/17 11:18 AM
Silver	7.13	0.120	0.240		mg/Kg-dry	5	01/26/17 03:29 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **RO**
Mercury	0.154	0.0193	0.0484		mg/Kg-dry	1	01/25/17 01:07 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	0.00605	0.00600	0.0120	J	mg/Kg-dry	1	01/24/17 11:47 AM
Acenaphthylene	0.0870	0.00600	0.0120		mg/Kg-dry	1	01/24/17 11:47 AM
Anthracene	0.457	0.00600	0.0120		mg/Kg-dry	1	01/24/17 11:47 AM
Benzo[a]anthracene	0.0924	0.00600	0.0120		mg/Kg-dry	1	01/24/17 11:47 AM
Benzo[a]pyrene	0.0985	0.00600	0.0120		mg/Kg-dry	1	01/24/17 11:47 AM
Benzo[b]fluoranthene	0.116	0.00600	0.0120		mg/Kg-dry	1	01/24/17 11:47 AM
Benzo[g,h,i]perylene	0.169	0.00600	0.0120		mg/Kg-dry	1	01/24/17 11:47 AM
Benzo[k]fluoranthene	0.0521	0.00600	0.0120		mg/Kg-dry	1	01/24/17 11:47 AM
Chrysene	0.124	0.00600	0.0120		mg/Kg-dry	1	01/24/17 11:47 AM
Dibenz[a,h]anthracene	0.0163	0.00600	0.0120		mg/Kg-dry	1	01/24/17 11:47 AM
Fluoranthene	0.177	0.00600	0.0120		mg/Kg-dry	1	01/24/17 11:47 AM
Fluorene	0.0393	0.00600	0.0120		mg/Kg-dry	1	01/24/17 11:47 AM
Indeno[1,2,3-cd]pyrene	0.115	0.00600	0.0120		mg/Kg-dry	1	01/24/17 11:47 AM
Naphthalene	0.00996	0.00600	0.0120	J	mg/Kg-dry	1	01/24/17 11:47 AM
Phenanthrene	0.110	0.00600	0.0120		mg/Kg-dry	1	01/24/17 11:47 AM
Pyrene	0.163	0.00600	0.0120		mg/Kg-dry	1	01/24/17 11:47 AM
Surr: 2-Fluorobiphenyl	52.4	0	43-125		%REC	1	01/24/17 11:47 AM
Surr: 4-Terphenyl-d14	53.7	0	32-125		%REC	1	01/24/17 11:47 AM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	20.7	0	0		WT%	1	01/25/17 09:00 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB55-020
Project:	GLO/City of Galveston	**Lab ID:**	1701152-06
Project No:	60420789.3301	**Collection Date:**	01/16/17 10:50 AM
Lab Order:	1701152	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	76.6	0.594	1.19		mg/Kg-dry	5	01/24/17 11:19 AM
Arsenic	64.2	0.594	1.19		mg/Kg-dry	5	01/24/17 11:19 AM
Barium	1820	5.94	23.8		mg/Kg-dry	50	01/26/17 01:10 PM
Beryllium	0.134	0.119	0.357	J	mg/Kg-dry	5	01/24/17 11:19 AM
Cadmium	6.58	0.119	0.357		mg/Kg-dry	5	01/24/17 11:19 AM
Chromium	117	0.594	2.38		mg/Kg-dry	5	01/24/17 11:19 AM
Lead	6140	1.19	3.57		mg/Kg-dry	50	01/26/17 01:10 PM
Nickel	129	0.594	2.38		mg/Kg-dry	5	01/24/17 11:19 AM
Selenium	0.816	0.178	0.594		mg/Kg-dry	5	01/24/17 11:19 AM
Silver	11.7	0.124	0.247		mg/Kg-dry	5	01/26/17 03:31 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **RO**
Mercury	1.51	0.0917	0.229		mg/Kg-dry	5	01/25/17 01:49 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	0.834	0.0311	0.0621		mg/Kg-dry	5	01/23/17 01:16 PM
Acenaphthylene	0.280	0.0311	0.0621		mg/Kg-dry	5	01/23/17 01:16 PM
Anthracene	<0.0311	0.0311	0.0621		mg/Kg-dry	5	01/23/17 01:16 PM
Benzo[a]anthracene	1.68	0.0311	0.0621		mg/Kg-dry	5	01/23/17 01:16 PM
Benzo[a]pyrene	2.53	0.0311	0.0621		mg/Kg-dry	5	01/23/17 01:16 PM
Benzo[b]fluoranthene	2.18	0.0311	0.0621		mg/Kg-dry	5	01/23/17 01:16 PM
Benzo[g,h,i]perylene	2.01	0.0311	0.0621		mg/Kg-dry	5	01/23/17 01:16 PM
Benzo[k]fluoranthene	0.935	0.0311	0.0621		mg/Kg-dry	5	01/23/17 01:16 PM
Chrysene	1.99	0.0311	0.0621		mg/Kg-dry	5	01/23/17 01:16 PM
Dibenz[a,h]anthracene	0.434	0.0311	0.0621		mg/Kg-dry	5	01/23/17 01:16 PM
Fluoranthene	1.97	0.0311	0.0621		mg/Kg-dry	5	01/23/17 01:16 PM
Fluorene	1.18	0.0311	0.0621		mg/Kg-dry	5	01/23/17 01:16 PM
Indeno[1,2,3-cd]pyrene	2.00	0.0311	0.0621		mg/Kg-dry	5	01/23/17 01:16 PM
Naphthalene	0.0841	0.0311	0.0621		mg/Kg-dry	5	01/23/17 01:16 PM
Phenanthrene	1.23	0.0311	0.0621		mg/Kg-dry	5	01/23/17 01:16 PM
Pyrene	2.22	0.0311	0.0621		mg/Kg-dry	5	01/23/17 01:16 PM
Surr: 2-Fluorobiphenyl	71.4	0	43-125		%REC	5	01/23/17 01:16 PM
Surr: 4-Terphenyl-d14	69.1	0	32-125		%REC	5	01/23/17 01:16 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	19.9	0	0		WT%	1	01/25/17 09:00 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB55-030
Project:	GLO/City of Galveston	**Lab ID:**	1701152-07
Project No:	60420789.3301	**Collection Date:**	01/16/17 12:00 PM
Lab Order:	1701152	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	<0.581	0.581	1.16		mg/Kg-dry	5	01/24/17 11:21 AM
Arsenic	1.73	0.581	1.16		mg/Kg-dry	5	01/24/17 11:21 AM
Barium	5.31	0.581	2.32		mg/Kg-dry	5	01/24/17 11:21 AM
Beryllium	0.124	0.116	0.349	J	mg/Kg-dry	5	01/24/17 11:21 AM
Cadmium	<0.116	0.116	0.349		mg/Kg-dry	5	01/24/17 11:21 AM
Chromium	3.29	0.581	2.32		mg/Kg-dry	5	01/24/17 11:21 AM
Lead	5.92	0.116	0.349		mg/Kg-dry	5	01/24/17 11:21 AM
Nickel	4.30	0.581	2.32		mg/Kg-dry	5	01/24/17 11:21 AM
Selenium	0.823	0.174	0.581		mg/Kg-dry	5	01/24/17 11:21 AM
Silver	<0.105	0.105	0.210		mg/Kg-dry	5	01/26/17 03:33 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **RO**
Mercury	<0.0171	0.0171	0.0428		mg/Kg-dry	1	01/25/17 01:11 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	<0.00573	0.00573	0.0115		mg/Kg-dry	1	01/23/17 10:40 AM
Acenaphthylene	<0.00573	0.00573	0.0115		mg/Kg-dry	1	01/23/17 10:40 AM
Anthracene	<0.00573	0.00573	0.0115		mg/Kg-dry	1	01/23/17 10:40 AM
Benzo[a]anthracene	<0.00573	0.00573	0.0115		mg/Kg-dry	1	01/23/17 10:40 AM
Benzo[a]pyrene	<0.00573	0.00573	0.0115		mg/Kg-dry	1	01/23/17 10:40 AM
Benzo[b]fluoranthene	<0.00573	0.00573	0.0115		mg/Kg-dry	1	01/23/17 10:40 AM
Benzo[g,h,i]perylene	<0.00573	0.00573	0.0115		mg/Kg-dry	1	01/23/17 10:40 AM
Benzo[k]fluoranthene	<0.00573	0.00573	0.0115		mg/Kg-dry	1	01/23/17 10:40 AM
Chrysene	<0.00573	0.00573	0.0115		mg/Kg-dry	1	01/23/17 10:40 AM
Dibenz[a,h]anthracene	<0.00573	0.00573	0.0115		mg/Kg-dry	1	01/23/17 10:40 AM
Fluoranthene	<0.00573	0.00573	0.0115		mg/Kg-dry	1	01/23/17 10:40 AM
Fluorene	<0.00573	0.00573	0.0115		mg/Kg-dry	1	01/23/17 10:40 AM
Indeno[1,2,3-cd]pyrene	<0.00573	0.00573	0.0115		mg/Kg-dry	1	01/23/17 10:40 AM
Naphthalene	<0.00573	0.00573	0.0115		mg/Kg-dry	1	01/23/17 10:40 AM
Phenanthrene	0.00742	0.00573	0.0115	J	mg/Kg-dry	1	01/23/17 10:40 AM
Pyrene	<0.00573	0.00573	0.0115		mg/Kg-dry	1	01/23/17 10:40 AM
Surr: 2-Fluorobiphenyl	63.4	0	43-125		%REC	1	01/23/17 10:40 AM
Surr: 4-Terphenyl-d14	63.7	0	32-125		%REC	1	01/23/17 10:40 AM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	17.3	0	0		WT%	1	01/25/17 09:00 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB56-010
Project:	GLO/City of Galveston	**Lab ID:**	1701152-08
Project No:	60420789.3301	**Collection Date:**	01/16/17 01:20 PM
Lab Order:	1701152	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	34.2	0.733	1.47		mg/Kg-dry	5	01/24/17 11:23 AM
Arsenic	55.9	0.733	1.47		mg/Kg-dry	5	01/24/17 11:23 AM
Barium	1210	7.33	29.3		mg/Kg-dry	50	01/26/17 01:12 PM
Beryllium	0.264	0.147	0.440	J	mg/Kg-dry	5	01/24/17 11:23 AM
Cadmium	11.4	0.147	0.440		mg/Kg-dry	5	01/24/17 11:23 AM
Chromium	157	0.733	2.93		mg/Kg-dry	5	01/24/17 11:23 AM
Lead	2010	1.47	4.40		mg/Kg-dry	50	01/26/17 01:12 PM
Nickel	87.7	0.733	2.93		mg/Kg-dry	5	01/24/17 11:23 AM
Selenium	0.776	0.220	0.733		mg/Kg-dry	5	01/24/17 11:23 AM
Silver	9.42	0.148	0.296		mg/Kg-dry	5	01/26/17 03:35 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **RO**
Mercury	1.21	0.115	0.289		mg/Kg-dry	5	01/25/17 01:51 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	0.0297	0.00711	0.0142		mg/Kg-dry	1	01/24/17 01:46 PM
Acenaphthylene	0.858	0.00711	0.0142		mg/Kg-dry	1	01/24/17 01:46 PM
Anthracene	1.76	0.00711	0.0142		mg/Kg-dry	1	01/24/17 01:46 PM
Benzo[a]anthracene	0.217	0.00711	0.0142		mg/Kg-dry	1	01/24/17 01:46 PM
Benzo[a]pyrene	0.186	0.00711	0.0142		mg/Kg-dry	1	01/24/17 01:46 PM
Benzo[b]fluoranthene	0.218	0.00711	0.0142		mg/Kg-dry	1	01/24/17 01:46 PM
Benzo[g,h,i]perylene	0.336	0.00711	0.0142		mg/Kg-dry	1	01/24/17 01:46 PM
Benzo[k]fluoranthene	0.0922	0.00711	0.0142		mg/Kg-dry	1	01/24/17 01:46 PM
Chrysene	0.231	0.00711	0.0142		mg/Kg-dry	1	01/24/17 01:46 PM
Dibenz[a,h]anthracene	0.0285	0.00711	0.0142		mg/Kg-dry	1	01/24/17 01:46 PM
Fluoranthene	0.337	0.00711	0.0142		mg/Kg-dry	1	01/24/17 01:46 PM
Fluorene	0.392	0.00711	0.0142		mg/Kg-dry	1	01/24/17 01:46 PM
Indeno[1,2,3-cd]pyrene	0.219	0.00711	0.0142		mg/Kg-dry	1	01/24/17 01:46 PM
Naphthalene	0.0266	0.00711	0.0142		mg/Kg-dry	1	01/24/17 01:46 PM
Phenanthrene	0.323	0.00711	0.0142		mg/Kg-dry	1	01/24/17 01:46 PM
Pyrene	0.419	0.00711	0.0142		mg/Kg-dry	1	01/24/17 01:46 PM
Surr: 2-Fluorobiphenyl	53.7	0	43-125		%REC	1	01/24/17 01:46 PM
Surr: 4-Terphenyl-d14	58.3	0	32-125		%REC	1	01/24/17 01:46 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	35.0	0	0		WT%	1	01/25/17 09:00 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB56-020
Project:	GLO/City of Galveston	**Lab ID:**	1701152-09
Project No:	60420789.3301	**Collection Date:**	01/16/17 01:30 PM
Lab Order:	1701152	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	25.1	0.664	1.33		mg/Kg-dry	5	01/24/17 11:25 AM
Arsenic	31.1	0.664	1.33		mg/Kg-dry	5	01/24/17 11:25 AM
Barium	1040	6.64	26.6		mg/Kg-dry	50	01/26/17 01:14 PM
Beryllium	0.407	0.133	0.398		mg/Kg-dry	5	01/24/17 11:25 AM
Cadmium	8.66	0.133	0.398		mg/Kg-dry	5	01/24/17 11:25 AM
Chromium	73.9	0.664	2.66		mg/Kg-dry	5	01/24/17 11:25 AM
Lead	1390	1.33	3.98		mg/Kg-dry	50	01/26/17 01:14 PM
Nickel	65.6	0.664	2.66		mg/Kg-dry	5	01/24/17 11:25 AM
Selenium	0.922	0.199	0.664		mg/Kg-dry	5	01/24/17 11:25 AM
Silver	8.16	0.129	0.258		mg/Kg-dry	5	01/26/17 03:37 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **RO**
Mercury	0.504	0.0196	0.0489		mg/Kg-dry	1	01/25/17 01:16 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	0.0140	0.00617	0.0123		mg/Kg-dry	1	01/24/17 12:17 PM
Acenaphthylene	0.152	0.00617	0.0123		mg/Kg-dry	1	01/24/17 12:17 PM
Anthracene	0.775	0.00617	0.0123		mg/Kg-dry	1	01/24/17 12:17 PM
Benzo[a]anthracene	0.179	0.00617	0.0123		mg/Kg-dry	1	01/24/17 12:17 PM
Benzo[a]pyrene	0.180	0.00617	0.0123		mg/Kg-dry	1	01/24/17 12:17 PM
Benzo[b]fluoranthene	0.189	0.00617	0.0123		mg/Kg-dry	1	01/24/17 12:17 PM
Benzo[g,h,i]perylene	0.212	0.00617	0.0123		mg/Kg-dry	1	01/24/17 12:17 PM
Benzo[k]fluoranthene	0.0926	0.00617	0.0123		mg/Kg-dry	1	01/24/17 12:17 PM
Chrysene	0.208	0.00617	0.0123		mg/Kg-dry	1	01/24/17 12:17 PM
Dibenz[a,h]anthracene	0.0289	0.00617	0.0123		mg/Kg-dry	1	01/24/17 12:17 PM
Fluoranthene	0.318	0.00617	0.0123		mg/Kg-dry	1	01/24/17 12:17 PM
Fluorene	0.0793	0.00617	0.0123		mg/Kg-dry	1	01/24/17 12:17 PM
Indeno[1,2,3-cd]pyrene	0.168	0.00617	0.0123		mg/Kg-dry	1	01/24/17 12:17 PM
Naphthalene	0.0146	0.00617	0.0123		mg/Kg-dry	1	01/24/17 12:17 PM
Phenanthrene	0.202	0.00617	0.0123		mg/Kg-dry	1	01/24/17 12:17 PM
Pyrene	0.290	0.00617	0.0123		mg/Kg-dry	1	01/24/17 12:17 PM
Surr: 2-Fluorobiphenyl	52.2	0	43-125		%REC	1	01/24/17 12:17 PM
Surr: 4-Terphenyl-d14	53.6	0	32-125		%REC	1	01/24/17 12:17 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	25.4	0	0		WT%	1	01/26/17 08:10 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB58-013
Project:	GLO/City of Galveston	**Lab ID:**	1701152-10
Project No:	60420789.3301	**Collection Date:**	01/16/17 02:15 PM
Lab Order:	1701152	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	3.39	0.609	1.22		mg/Kg-dry	5	01/24/17 11:06 AM
Arsenic	9.08	0.609	1.22		mg/Kg-dry	5	01/24/17 11:06 AM
Barium	487	0.609	2.44		mg/Kg-dry	5	01/24/17 11:06 AM
Beryllium	0.236	0.122	0.366	J	mg/Kg-dry	5	01/24/17 11:06 AM
Cadmium	1.45	0.122	0.366		mg/Kg-dry	5	01/24/17 11:06 AM
Chromium	23.1	0.609	2.44		mg/Kg-dry	5	01/24/17 11:06 AM
Lead	507	0.122	0.366		mg/Kg-dry	5	01/24/17 11:06 AM
Nickel	21.2	0.609	2.44		mg/Kg-dry	5	01/24/17 11:06 AM
Selenium	0.672	0.183	0.609		mg/Kg-dry	5	01/24/17 11:06 AM
Silver	0.635	0.117	0.235		mg/Kg-dry	5	01/26/17 03:17 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **RO**
Mercury	0.0821	0.0181	0.0454		mg/Kg-dry	1	01/25/17 12:46 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	0.0290	0.00596	0.0119		mg/Kg-dry	1	01/24/17 10:46 AM
Acenaphthylene	0.0287	0.00596	0.0119		mg/Kg-dry	1	01/24/17 10:46 AM
Anthracene	0.183	0.00596	0.0119		mg/Kg-dry	1	01/24/17 10:46 AM
Benzo[a]anthracene	0.232	0.00596	0.0119		mg/Kg-dry	1	01/24/17 10:46 AM
Benzo[a]pyrene	0.240	0.00596	0.0119		mg/Kg-dry	1	01/24/17 10:46 AM
Benzo[b]fluoranthene	0.238	0.00596	0.0119		mg/Kg-dry	1	01/24/17 10:46 AM
Benzo[g,h,i]perylene	0.199	0.00596	0.0119		mg/Kg-dry	1	01/24/17 10:46 AM
Benzo[k]fluoranthene	0.0994	0.00596	0.0119		mg/Kg-dry	1	01/24/17 10:46 AM
Chrysene	0.258	0.00596	0.0119		mg/Kg-dry	1	01/24/17 10:46 AM
Dibenz[a,h]anthracene	0.0340	0.00596	0.0119		mg/Kg-dry	1	01/24/17 10:46 AM
Fluoranthene	0.530	0.00596	0.0119		mg/Kg-dry	1	01/24/17 10:46 AM
Fluorene	0.0311	0.00596	0.0119		mg/Kg-dry	1	01/24/17 10:46 AM
Indeno[1,2,3-cd]pyrene	0.193	0.00596	0.0119		mg/Kg-dry	1	01/24/17 10:46 AM
Naphthalene	0.00730	0.00596	0.0119	J	mg/Kg-dry	1	01/24/17 10:46 AM
Phenanthrene	0.288	0.00596	0.0119		mg/Kg-dry	1	01/24/17 10:46 AM
Pyrene	0.401	0.00596	0.0119		mg/Kg-dry	1	01/24/17 10:46 AM
Surr: 2-Fluorobiphenyl	56.7	0	43-125		%REC	1	01/24/17 10:46 AM
Surr: 4-Terphenyl-d14	55.4	0	32-125		%REC	1	01/24/17 10:46 AM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	21.9	0	0		WT%	1	01/26/17 08:10 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB58-020
Project:	GLO/City of Galveston	**Lab ID:**	1701152-11
Project No:	60420789.3301	**Collection Date:**	01/16/17 02:25 PM
Lab Order:	1701152	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	32.6	0.674	1.35		mg/Kg-dry	5	01/24/17 12:06 PM
Arsenic	70.8	0.674	1.35		mg/Kg-dry	5	01/24/17 12:06 PM
Barium	504	0.674	2.70		mg/Kg-dry	5	01/24/17 12:06 PM
Beryllium	0.198	0.135	0.404	J	mg/Kg-dry	5	01/24/17 12:06 PM
Cadmium	24.9	0.135	0.404		mg/Kg-dry	5	01/24/17 12:06 PM
Chromium	74.8	0.674	2.70		mg/Kg-dry	5	01/24/17 12:06 PM
Lead	1780	1.35	4.04		mg/Kg-dry	50	01/26/17 01:16 PM
Nickel	76.3	0.674	2.70		mg/Kg-dry	5	01/24/17 12:06 PM
Selenium	4.11	0.202	0.674		mg/Kg-dry	5	01/24/17 12:06 PM
Silver	3.32	0.137	0.275		mg/Kg-dry	5	01/26/17 03:54 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **RO**
Mercury	0.188	0.0205	0.0512		mg/Kg-dry	1	01/25/17 01:23 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	6.66	0.0327	0.0653		mg/Kg-dry	5	01/23/17 04:16 PM
Acenaphthylene	<0.0327	0.0327	0.0653		mg/Kg-dry	5	01/23/17 04:16 PM
Anthracene	<0.0327	0.0327	0.0653		mg/Kg-dry	5	01/23/17 04:16 PM
Benzo[a]anthracene	0.346	0.0327	0.0653		mg/Kg-dry	5	01/23/17 04:16 PM
Benzo[a]pyrene	0.301	0.0327	0.0653		mg/Kg-dry	5	01/23/17 04:16 PM
Benzo[b]fluoranthene	0.316	0.0327	0.0653		mg/Kg-dry	5	01/23/17 04:16 PM
Benzo[g,h,i]perylene	0.378	0.0327	0.0653		mg/Kg-dry	5	01/23/17 04:16 PM
Benzo[k]fluoranthene	0.134	0.0327	0.0653		mg/Kg-dry	5	01/23/17 04:16 PM
Chrysene	0.653	0.0327	0.0653		mg/Kg-dry	5	01/23/17 04:16 PM
Dibenz[a,h]anthracene	0.0372	0.0327	0.0653	J	mg/Kg-dry	5	01/23/17 04:16 PM
Fluoranthene	1.81	0.0327	0.0653		mg/Kg-dry	5	01/23/17 04:16 PM
Fluorene	<0.0327	0.0327	0.0653		mg/Kg-dry	5	01/23/17 04:16 PM
Indeno[1,2,3-cd]pyrene	0.301	0.0327	0.0653		mg/Kg-dry	5	01/23/17 04:16 PM
Naphthalene	<0.0327	0.0327	0.0653		mg/Kg-dry	5	01/23/17 04:16 PM
Phenanthrene	<0.0327	0.0327	0.0653		mg/Kg-dry	5	01/23/17 04:16 PM
Pyrene	2.47	0.0327	0.0653		mg/Kg-dry	5	01/23/17 04:16 PM
Surr: 2-Fluorobiphenyl	75.4	0	43-125		%REC	5	01/23/17 04:16 PM
Surr: 4-Terphenyl-d14	69.1	0	32-125		%REC	5	01/23/17 04:16 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	28.0	0	0		WT%	1	01/26/17 08:10 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB59-010
Project:	GLO/City of Galveston	**Lab ID:**	1701152-12
Project No:	60420789.3301	**Collection Date:**	01/16/17 03:30 PM
Lab Order:	1701152	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	1.36	0.511	1.02		mg/Kg-dry	5	01/24/17 12:08 PM
Arsenic	1.36	0.511	1.02		mg/Kg-dry	5	01/24/17 12:08 PM
Barium	37.2	0.511	2.04		mg/Kg-dry	5	01/24/17 12:08 PM
Beryllium	<0.102	0.102	0.307		mg/Kg-dry	5	01/24/17 12:08 PM
Cadmium	0.128	0.102	0.307	J	mg/Kg-dry	5	01/24/17 12:08 PM
Chromium	4.06	0.511	2.04		mg/Kg-dry	5	01/24/17 12:08 PM
Lead	114	0.102	0.307		mg/Kg-dry	5	01/24/17 12:08 PM
Nickel	2.41	0.511	2.04		mg/Kg-dry	5	01/24/17 12:08 PM
Selenium	0.401	0.153	0.511	J	mg/Kg-dry	5	01/24/17 12:08 PM
Silver	<0.100	0.100	0.201		mg/Kg-dry	5	01/26/17 03:56 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **RO**
Mercury	0.0358	0.0163	0.0408	J	mg/Kg-dry	1	01/25/17 01:25 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	0.00758	0.00512	0.0102	J	mg/Kg-dry	1	01/24/17 10:16 AM
Acenaphthylene	0.0101	0.00512	0.0102	J	mg/Kg-dry	1	01/24/17 10:16 AM
Anthracene	0.0142	0.00512	0.0102		mg/Kg-dry	1	01/24/17 10:16 AM
Benzo[a]anthracene	0.0867	0.00512	0.0102		mg/Kg-dry	1	01/24/17 10:16 AM
Benzo[a]pyrene	0.0891	0.00512	0.0102		mg/Kg-dry	1	01/24/17 10:16 AM
Benzo[b]fluoranthene	0.0918	0.00512	0.0102		mg/Kg-dry	1	01/24/17 10:16 AM
Benzo[g,h,i]perylene	0.0647	0.00512	0.0102		mg/Kg-dry	1	01/24/17 10:16 AM
Benzo[k]fluoranthene	0.0433	0.00512	0.0102		mg/Kg-dry	1	01/24/17 10:16 AM
Chrysene	0.0992	0.00512	0.0102		mg/Kg-dry	1	01/24/17 10:16 AM
Dibenz[a,h]anthracene	0.0159	0.00512	0.0102		mg/Kg-dry	1	01/24/17 10:16 AM
Fluoranthene	0.232	0.00512	0.0102		mg/Kg-dry	1	01/24/17 10:16 AM
Fluorene	0.00758	0.00512	0.0102	J	mg/Kg-dry	1	01/24/17 10:16 AM
Indeno[1,2,3-cd]pyrene	0.0671	0.00512	0.0102		mg/Kg-dry	1	01/24/17 10:16 AM
Naphthalene	<0.00512	0.00512	0.0102		mg/Kg-dry	1	01/24/17 10:16 AM
Phenanthrene	0.0769	0.00512	0.0102		mg/Kg-dry	1	01/24/17 10:16 AM
Pyrene	0.178	0.00512	0.0102		mg/Kg-dry	1	01/24/17 10:16 AM
Surr: 2-Fluorobiphenyl	40.9	0	43-125	S	%REC	1	01/24/17 10:16 AM
Surr: 4-Terphenyl-d14	42.1	0	32-125		%REC	1	01/24/17 10:16 AM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	6.81	0	0		WT%	1	01/26/17 08:10 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB59-020
Project:	GLO/City of Galveston	**Lab ID:**	1701152-13
Project No:	60420789.3301	**Collection Date:**	01/16/17 03:45 PM
Lab Order:	1701152	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	0.965	0.534	1.07	J	mg/Kg-dry	5	01/24/17 12:10 PM
Arsenic	3.55	0.534	1.07		mg/Kg-dry	5	01/24/17 12:10 PM
Barium	49.0	0.534	2.14		mg/Kg-dry	5	01/24/17 12:10 PM
Beryllium	0.130	0.107	0.321	J	mg/Kg-dry	5	01/24/17 12:10 PM
Cadmium	0.630	0.107	0.321		mg/Kg-dry	5	01/24/17 12:10 PM
Chromium	23.2	0.534	2.14		mg/Kg-dry	5	01/24/17 12:10 PM
Lead	138	0.107	0.321		mg/Kg-dry	5	01/24/17 12:10 PM
Nickel	9.28	0.534	2.14		mg/Kg-dry	5	01/24/17 12:10 PM
Selenium	0.429	0.160	0.534	J	mg/Kg-dry	5	01/24/17 12:10 PM
Silver	<0.104	0.104	0.208		mg/Kg-dry	5	01/26/17 03:58 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **RO**
Mercury	0.0431	0.0169	0.0424		mg/Kg-dry	1	01/25/17 01:27 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	0.0124	0.00528	0.0106		mg/Kg-dry	1	01/24/17 01:17 PM
Acenaphthylene	0.0194	0.00528	0.0106		mg/Kg-dry	1	01/24/17 01:17 PM
Anthracene	0.0321	0.00528	0.0106		mg/Kg-dry	1	01/24/17 01:17 PM
Benzo[a]anthracene	0.0957	0.00528	0.0106		mg/Kg-dry	1	01/24/17 01:17 PM
Benzo[a]pyrene	0.108	0.00528	0.0106		mg/Kg-dry	1	01/24/17 01:17 PM
Benzo[b]fluoranthene	0.105	0.00528	0.0106		mg/Kg-dry	1	01/24/17 01:17 PM
Benzo[g,h,i]perylene	0.0920	0.00528	0.0106		mg/Kg-dry	1	01/24/17 01:17 PM
Benzo[k]fluoranthene	0.0558	0.00528	0.0106		mg/Kg-dry	1	01/24/17 01:17 PM
Chrysene	0.110	0.00528	0.0106		mg/Kg-dry	1	01/24/17 01:17 PM
Dibenz[a,h]anthracene	0.0148	0.00528	0.0106		mg/Kg-dry	1	01/24/17 01:17 PM
Fluoranthene	0.230	0.00528	0.0106		mg/Kg-dry	1	01/24/17 01:17 PM
Fluorene	0.0159	0.00528	0.0106		mg/Kg-dry	1	01/24/17 01:17 PM
Indeno[1,2,3-cd]pyrene	0.0756	0.00528	0.0106		mg/Kg-dry	1	01/24/17 01:17 PM
Naphthalene	0.0185	0.00528	0.0106		mg/Kg-dry	1	01/24/17 01:17 PM
Phenanthrene	0.139	0.00528	0.0106		mg/Kg-dry	1	01/24/17 01:17 PM
Pyrene	0.175	0.00528	0.0106		mg/Kg-dry	1	01/24/17 01:17 PM
Surr: 2-Fluorobiphenyl	54.1	0	43-125		%REC	1	01/24/17 01:17 PM
Surr: 4-Terphenyl-d14	54.8	0	32-125		%REC	1	01/24/17 01:17 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	7.38	0	0		WT%	1	01/26/17 08:10 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB60-010
Project:	GLO/City of Galveston	**Lab ID:**	1701152-14
Project No:	60420789.3301	**Collection Date:**	01/16/17 02:50 PM
Lab Order:	1701152	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	15.2	0.614	1.23		mg/Kg-dry	5	01/24/17 12:12 PM
Arsenic	31.2	0.614	1.23		mg/Kg-dry	5	01/24/17 12:12 PM
Barium	857	6.14	24.6		mg/Kg-dry	50	01/26/17 01:18 PM
Beryllium	0.177	0.123	0.368	J	mg/Kg-dry	5	01/24/17 12:12 PM
Cadmium	8.36	0.123	0.368		mg/Kg-dry	5	01/24/17 12:12 PM
Chromium	60.6	0.614	2.46		mg/Kg-dry	5	01/24/17 12:12 PM
Lead	1150	1.23	3.68		mg/Kg-dry	50	01/26/17 01:18 PM
Nickel	36.3	0.614	2.46		mg/Kg-dry	5	01/24/17 12:12 PM
Selenium	0.738	0.184	0.614		mg/Kg-dry	5	01/24/17 12:12 PM
Silver	2.88	0.128	0.255		mg/Kg-dry	5	01/26/17 04:00 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **RO**
Mercury	0.367	0.0193	0.0483		mg/Kg-dry	1	01/25/17 01:29 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	0.105	0.0329	0.0658		mg/Kg-dry	5	01/23/17 02:46 PM
Acenaphthylene	0.122	0.0329	0.0658		mg/Kg-dry	5	01/23/17 02:46 PM
Anthracene	0.314	0.0329	0.0658		mg/Kg-dry	5	01/23/17 02:46 PM
Benzo[a]anthracene	1.27	0.0329	0.0658		mg/Kg-dry	5	01/23/17 02:46 PM
Benzo[a]pyrene	1.42	0.0329	0.0658		mg/Kg-dry	5	01/23/17 02:46 PM
Benzo[b]fluoranthene	1.35	0.0329	0.0658		mg/Kg-dry	5	01/23/17 02:46 PM
Benzo[g,h,i]perylene	1.06	0.0329	0.0658		mg/Kg-dry	5	01/23/17 02:46 PM
Benzo[k]fluoranthene	0.604	0.0329	0.0658		mg/Kg-dry	5	01/23/17 02:46 PM
Chrysene	1.54	0.0329	0.0658		mg/Kg-dry	5	01/23/17 02:46 PM
Dibenz[a,h]anthracene	0.260	0.0329	0.0658		mg/Kg-dry	5	01/23/17 02:46 PM
Fluoranthene	2.95	0.0329	0.0658		mg/Kg-dry	5	01/23/17 02:46 PM
Fluorene	0.0939	0.0329	0.0658		mg/Kg-dry	5	01/23/17 02:46 PM
Indeno[1,2,3-cd]pyrene	1.07	0.0329	0.0658		mg/Kg-dry	5	01/23/17 02:46 PM
Naphthalene	<0.0329	0.0329	0.0658		mg/Kg-dry	5	01/23/17 02:46 PM
Phenanthrene	1.65	0.0329	0.0658		mg/Kg-dry	5	01/23/17 02:46 PM
Pyrene	2.37	0.0329	0.0658		mg/Kg-dry	5	01/23/17 02:46 PM
Surr: 2-Fluorobiphenyl	67.8	0	43-125		%REC	5	01/23/17 02:46 PM
Surr: 4-Terphenyl-d14	68.2	0	32-125		%REC	5	01/23/17 02:46 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	24.6	0	0		WT%	1	01/26/17 08:10 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB60-011
Project:	GLO/City of Galveston	**Lab ID:**	1701152-15
Project No:	60420789.3301	**Collection Date:**	01/16/17 02:50 PM
Lab Order:	1701152	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	20.9	0.671	1.34		mg/Kg-dry	5	01/24/17 12:14 PM
Arsenic	29.3	0.671	1.34		mg/Kg-dry	5	01/24/17 12:14 PM
Barium	932	6.71	26.8		mg/Kg-dry	50	01/26/17 01:20 PM
Beryllium	0.207	0.134	0.403	J	mg/Kg-dry	5	01/24/17 12:14 PM
Cadmium	10.8	0.134	0.403		mg/Kg-dry	5	01/24/17 12:14 PM
Chromium	83.2	0.671	2.68		mg/Kg-dry	5	01/24/17 12:14 PM
Lead	1420	1.34	4.03		mg/Kg-dry	50	01/26/17 01:20 PM
Nickel	99.5	0.671	2.68		mg/Kg-dry	5	01/24/17 12:14 PM
Selenium	1.33	0.201	0.671		mg/Kg-dry	5	01/24/17 12:14 PM
Silver	3.24	0.119	0.239		mg/Kg-dry	5	01/26/17 04:02 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **RO**
Mercury	0.359	0.0215	0.0536		mg/Kg-dry	1	01/25/17 01:32 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	0.0722	0.0341	0.0681		mg/Kg-dry	5	01/23/17 02:16 PM
Acenaphthylene	0.113	0.0341	0.0681		mg/Kg-dry	5	01/23/17 02:16 PM
Anthracene	0.199	0.0341	0.0681		mg/Kg-dry	5	01/23/17 02:16 PM
Benzo[a]anthracene	1.04	0.0341	0.0681		mg/Kg-dry	5	01/23/17 02:16 PM
Benzo[a]pyrene	1.21	0.0341	0.0681		mg/Kg-dry	5	01/23/17 02:16 PM
Benzo[b]fluoranthene	1.16	0.0341	0.0681		mg/Kg-dry	5	01/23/17 02:16 PM
Benzo[g,h,i]perylene	0.917	0.0341	0.0681		mg/Kg-dry	5	01/23/17 02:16 PM
Benzo[k]fluoranthene	0.641	0.0341	0.0681		mg/Kg-dry	5	01/23/17 02:16 PM
Chrysene	1.35	0.0341	0.0681		mg/Kg-dry	5	01/23/17 02:16 PM
Dibenz[a,h]anthracene	0.228	0.0341	0.0681		mg/Kg-dry	5	01/23/17 02:16 PM
Fluoranthene	2.39	0.0341	0.0681		mg/Kg-dry	5	01/23/17 02:16 PM
Fluorene	0.0648	0.0341	0.0681	J	mg/Kg-dry	5	01/23/17 02:16 PM
Indeno[1,2,3-cd]pyrene	0.968	0.0341	0.0681		mg/Kg-dry	5	01/23/17 02:16 PM
Naphthalene	0.0416	0.0341	0.0681	J	mg/Kg-dry	5	01/23/17 02:16 PM
Phenanthrene	1.21	0.0341	0.0681		mg/Kg-dry	5	01/23/17 02:16 PM
Pyrene	1.94	0.0341	0.0681		mg/Kg-dry	5	01/23/17 02:16 PM
Surr: 2-Fluorobiphenyl	67.7	0	43-125		%REC	5	01/23/17 02:16 PM
Surr: 4-Terphenyl-d14	67.0	0	32-125		%REC	5	01/23/17 02:16 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	28.3	0	0		WT%	1	01/26/17 08:10 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB60-020
Project:	GLO/City of Galveston	**Lab ID:**	1701152-16
Project No:	60420789.3301	**Collection Date:**	01/16/17 03:00 PM
Lab Order:	1701152	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	0.839	0.586	1.17	J	mg/Kg-dry	5	01/24/17 12:16 PM
Arsenic	2.27	0.586	1.17		mg/Kg-dry	5	01/24/17 12:16 PM
Barium	31.5	0.586	2.34		mg/Kg-dry	5	01/24/17 12:16 PM
Beryllium	<0.117	0.117	0.352		mg/Kg-dry	5	01/24/17 12:16 PM
Cadmium	0.351	0.117	0.352	J	mg/Kg-dry	5	01/24/17 12:16 PM
Chromium	4.77	0.586	2.34		mg/Kg-dry	5	01/24/17 12:16 PM
Lead	32.9	0.117	0.352		mg/Kg-dry	5	01/24/17 12:16 PM
Nickel	2.58	0.586	2.34		mg/Kg-dry	5	01/24/17 12:16 PM
Selenium	0.365	0.176	0.586	J	mg/Kg-dry	5	01/24/17 12:16 PM
Silver	0.215	0.113	0.226	J	mg/Kg-dry	5	01/26/17 04:04 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **RO**
Mercury	0.0299	0.0179	0.0448	J	mg/Kg-dry	1	01/25/17 01:34 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	<0.00562	0.00562	0.0112		mg/Kg-dry	1	01/23/17 11:10 AM
Acenaphthylene	<0.00562	0.00562	0.0112		mg/Kg-dry	1	01/23/17 11:10 AM
Anthracene	<0.00562	0.00562	0.0112		mg/Kg-dry	1	01/23/17 11:10 AM
Benzo[a]anthracene	0.00665	0.00562	0.0112	J	mg/Kg-dry	1	01/23/17 11:10 AM
Benzo[a]pyrene	0.00706	0.00562	0.0112	J	mg/Kg-dry	1	01/23/17 11:10 AM
Benzo[b]fluoranthene	0.00746	0.00562	0.0112	J	mg/Kg-dry	1	01/23/17 11:10 AM
Benzo[g,h,i]perylene	0.00613	0.00562	0.0112	J	mg/Kg-dry	1	01/23/17 11:10 AM
Benzo[k]fluoranthene	<0.00562	0.00562	0.0112		mg/Kg-dry	1	01/23/17 11:10 AM
Chrysene	0.00680	0.00562	0.0112	J	mg/Kg-dry	1	01/23/17 11:10 AM
Dibenz[a,h]anthracene	<0.00562	0.00562	0.0112		mg/Kg-dry	1	01/23/17 11:10 AM
Fluoranthene	0.0134	0.00562	0.0112		mg/Kg-dry	1	01/23/17 11:10 AM
Fluorene	<0.00562	0.00562	0.0112		mg/Kg-dry	1	01/23/17 11:10 AM
Indeno[1,2,3-cd]pyrene	0.00580	0.00562	0.0112	J	mg/Kg-dry	1	01/23/17 11:10 AM
Naphthalene	<0.00562	0.00562	0.0112		mg/Kg-dry	1	01/23/17 11:10 AM
Phenanthrene	0.0105	0.00562	0.0112	J	mg/Kg-dry	1	01/23/17 11:10 AM
Pyrene	0.0113	0.00562	0.0112		mg/Kg-dry	1	01/23/17 11:10 AM
Surr: 2-Fluorobiphenyl	64.2	0	43-125		%REC	1	01/23/17 11:10 AM
Surr: 4-Terphenyl-d14	66.6	0	32-125		%REC	1	01/23/17 11:10 AM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	16.4	0	0		WT%	1	01/26/17 08:10 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB68-010
Project:	GLO/City of Galveston	**Lab ID:**	1701152-17
Project No:	60420789.3301	**Collection Date:**	01/17/17 01:30 PM
Lab Order:	1701152	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	1.20	0.673	1.35	J	mg/Kg-dry	5	01/24/17 12:18 PM
Arsenic	5.30	0.673	1.35		mg/Kg-dry	5	01/24/17 12:18 PM
Barium	63.8	0.673	2.69		mg/Kg-dry	5	01/24/17 12:18 PM
Beryllium	0.158	0.135	0.404	J	mg/Kg-dry	5	01/24/17 12:18 PM
Cadmium	0.471	0.135	0.404		mg/Kg-dry	5	01/24/17 12:18 PM
Chromium	10.6	0.673	2.69		mg/Kg-dry	5	01/24/17 12:18 PM
Lead	200	0.135	0.404		mg/Kg-dry	5	01/24/17 12:18 PM
Nickel	8.97	0.673	2.69		mg/Kg-dry	5	01/24/17 12:18 PM
Selenium	0.663	0.202	0.673	J	mg/Kg-dry	5	01/24/17 12:18 PM
Silver	0.252	0.137	0.275	J	mg/Kg-dry	5	01/26/17 04:06 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **RO**
Mercury	0.0835	0.0219	0.0548		mg/Kg-dry	1	01/25/17 01:36 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	0.945	0.0670	0.134		mg/Kg-dry	10	01/23/17 07:16 PM
Acenaphthylene	1.16	0.0670	0.134		mg/Kg-dry	10	01/23/17 07:16 PM
Anthracene	3.52	0.0670	0.134		mg/Kg-dry	10	01/23/17 07:16 PM
Benzo[a]anthracene	15.0	0.0670	0.134		mg/Kg-dry	10	01/23/17 07:16 PM
Benzo[a]pyrene	16.8	0.0670	0.134		mg/Kg-dry	10	01/23/17 07:16 PM
Benzo[b]fluoranthene	15.4	0.0670	0.134		mg/Kg-dry	10	01/23/17 07:16 PM
Benzo[g,h,i]perylene	12.0	0.0670	0.134		mg/Kg-dry	10	01/23/17 07:16 PM
Benzo[k]fluoranthene	7.14	0.0670	0.134		mg/Kg-dry	10	01/23/17 07:16 PM
Chrysene	17.3	0.0670	0.134		mg/Kg-dry	10	01/23/17 07:16 PM
Dibenz[a,h]anthracene	2.42	0.0670	0.134		mg/Kg-dry	10	01/23/17 07:16 PM
Fluoranthene	30.8	0.0670	0.134		mg/Kg-dry	10	01/23/17 07:16 PM
Fluorene	1.00	0.0670	0.134		mg/Kg-dry	10	01/23/17 07:16 PM
Indeno[1,2,3-cd]pyrene	12.6	0.0670	0.134		mg/Kg-dry	10	01/23/17 07:16 PM
Naphthalene	0.252	0.0670	0.134		mg/Kg-dry	10	01/23/17 07:16 PM
Phenanthrene	15.1	0.0670	0.134		mg/Kg-dry	10	01/23/17 07:16 PM
Pyrene	25.3	0.0670	0.134		mg/Kg-dry	10	01/23/17 07:16 PM
Surr: 2-Fluorobiphenyl	67.4	0	43-125		%REC	10	01/23/17 07:16 PM
Surr: 4-Terphenyl-d14	66.9	0	32-125		%REC	10	01/23/17 07:16 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	30.0	0	0		WT%	1	01/26/17 08:10 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB68-020
Project:	GLO/City of Galveston	**Lab ID:**	1701152-18
Project No:	60420789.3301	**Collection Date:**	01/17/17 01:40 PM
Lab Order:	1701152	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	1.28	0.531	1.06		mg/Kg-dry	5	01/24/17 12:20 PM
Arsenic	4.34	0.531	1.06		mg/Kg-dry	5	01/24/17 12:20 PM
Barium	286	0.531	2.12		mg/Kg-dry	5	01/24/17 12:20 PM
Beryllium	0.196	0.106	0.319	J	mg/Kg-dry	5	01/24/17 12:20 PM
Cadmium	0.533	0.106	0.319		mg/Kg-dry	5	01/24/17 12:20 PM
Chromium	11.3	0.531	2.12		mg/Kg-dry	5	01/24/17 12:20 PM
Lead	172	0.106	0.319		mg/Kg-dry	5	01/24/17 12:20 PM
Nickel	6.95	0.531	2.12		mg/Kg-dry	5	01/24/17 12:20 PM
Selenium	0.382	0.159	0.531	J	mg/Kg-dry	5	01/24/17 12:20 PM
Silver	1.02	0.107	0.214		mg/Kg-dry	5	01/26/17 04:08 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **RO**
Mercury	0.0525	0.0180	0.0451		mg/Kg-dry	1	01/25/17 01:39 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	0.00823	0.00551	0.0110	J	mg/Kg-dry	1	01/24/17 11:16 AM
Acenaphthylene	0.0203	0.00551	0.0110		mg/Kg-dry	1	01/24/17 11:16 AM
Anthracene	0.0281	0.00551	0.0110		mg/Kg-dry	1	01/24/17 11:16 AM
Benzo[a]anthracene	0.123	0.00551	0.0110		mg/Kg-dry	1	01/24/17 11:16 AM
Benzo[a]pyrene	0.146	0.00551	0.0110		mg/Kg-dry	1	01/24/17 11:16 AM
Benzo[b]fluoranthene	0.130	0.00551	0.0110		mg/Kg-dry	1	01/24/17 11:16 AM
Benzo[g,h,i]perylene	0.109	0.00551	0.0110		mg/Kg-dry	1	01/24/17 11:16 AM
Benzo[k]fluoranthene	0.0696	0.00551	0.0110		mg/Kg-dry	1	01/24/17 11:16 AM
Chrysene	0.133	0.00551	0.0110		mg/Kg-dry	1	01/24/17 11:16 AM
Dibenz[a,h]anthracene	0.0224	0.00551	0.0110		mg/Kg-dry	1	01/24/17 11:16 AM
Fluoranthene	0.265	0.00551	0.0110		mg/Kg-dry	1	01/24/17 11:16 AM
Fluorene	0.0103	0.00551	0.0110	J	mg/Kg-dry	1	01/24/17 11:16 AM
Indeno[1,2,3-cd]pyrene	0.106	0.00551	0.0110		mg/Kg-dry	1	01/24/17 11:16 AM
Naphthalene	<0.00551	0.00551	0.0110		mg/Kg-dry	1	01/24/17 11:16 AM
Phenanthrene	0.123	0.00551	0.0110		mg/Kg-dry	1	01/24/17 11:16 AM
Pyrene	0.216	0.00551	0.0110		mg/Kg-dry	1	01/24/17 11:16 AM
Surr: 2-Fluorobiphenyl	54.2	0	43-125		%REC	1	01/24/17 11:16 AM
Surr: 4-Terphenyl-d14	56.1	0	32-125		%REC	1	01/24/17 11:16 AM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	12.8	0	0		WT%	1	01/26/17 08:10 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_161223A**

Sample ID	**DCS-78430**	Batch ID:	**78430**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**CETAC2_HG_161223A**	Analysis Date:	**12/23/2016 10:39:27 A**	Prep Date:	**12/22/2016**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0397	0.0400	0.04000	0	99.3	80	124	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170125B**

The QC data in batch 78838 applies to the following samples: 1701152-01A, 1701152-02A, 1701152-03A, 1701152-04A, 1701152-05A, 1701152-06A, 1701152-07A, 1701152-08A, 1701152-09A, 1701152-10A, 1701152-11A, 1701152-12A, 1701152-13A, 1701152-14A, 1701152-15A, 1701152-16A, 1701152-17A, 1701152-18A

Sample ID **MB-78838** Batch ID: **78838** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **MBLK** Run ID: **CETAC2_HG_170125B** Analysis Date: **1/25/2017 12:40:02 PM** Prep Date: **1/23/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0160	0.0400								

Sample ID **LCS-78838** Batch ID: **78838** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCS** Run ID: **CETAC2_HG_170125B** Analysis Date: **1/25/2017 12:42:18 PM** Prep Date: **1/23/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.214	0.0400	0.2000	0	107	85	115			

Sample ID **LCSD-78838** Batch ID: **78838** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCSD** Run ID: **CETAC2_HG_170125B** Analysis Date: **1/25/2017 12:44:34 PM** Prep Date: **1/23/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.212	0.0400	0.2000	0	106	85	115	0.939	25	

Sample ID **1701152-10A SD** Batch ID: **78838** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **CETAC2_HG_170125B** Analysis Date: **1/25/2017 12:49:07 PM** Prep Date: **1/23/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0907	0.227	0	0.08211				0	10	

Sample ID **1701152-10A PDS** Batch ID: **78838** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **CETAC2_HG_170125B** Analysis Date: **1/25/2017 12:51:22 PM** Prep Date: **1/23/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.357	0.0454	0.2835	0.08211	97.0	85	115			

Sample ID **1701152-10A MS** Batch ID: **78838** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **CETAC2_HG_170125B** Analysis Date: **1/25/2017 12:53:37 PM** Prep Date: **1/23/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.319	0.0463	0.2313	0.08211	102	80	120			

Sample ID **1701152-10A MSD** Batch ID: **78838** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **CETAC2_HG_170125B** Analysis Date: **1/25/2017 12:55:53 PM** Prep Date: **1/23/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.332	0.0457	0.2284	0.08211	110	80	120	4.02	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170125B**

Sample ID	**ICV-170125**	Batch ID:	**R90148**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**CETAC2_HG_170125B**	Analysis Date:	**1/25/2017 11:19:18 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00405	0.0400	0.004000	0	101	90	110			

Sample ID	**CCV2-170125**	Batch ID:	**R90148**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170125B**	Analysis Date:	**1/25/2017 12:29:43 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00204	0.0400	0.002000	0	102	90	110			

Sample ID	**CCV3-170125**	Batch ID:	**R90148**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170125B**	Analysis Date:	**1/25/2017 1:18:35 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00205	0.0400	0.002000	0	103	90	110			

Sample ID	**CCV4-170125**	Batch ID:	**R90148**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170125B**	Analysis Date:	**1/25/2017 1:43:37 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00203	0.0400	0.002000	0	102	90	110			

Sample ID	**CCV5-170125**	Batch ID:	**R90148**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170125B**	Analysis Date:	**1/25/2017 1:54:06 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00205	0.0400	0.002000	0	103	90	110			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_161227C**

Sample ID	**DCS1-78429**	Batch ID:	**78429**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**ICP-MS4_161227C**	Analysis Date:	**12/27/2016 12:23:00 P**	Prep Date:	**12/22/2016**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.278	0.300	0.2500	0	111	80	120	0	0	
Cadmium	0.271	0.300	0.2500	0	108	80	120	0	0	
Lead	0.295	0.300	0.2500	0	118	80	120	0	0	
Silver	0.299	0.200	0.2500	0	120	80	120	0	0	

Sample ID	**DCS2-78429**	Batch ID:	**78429**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**ICP-MS4_161227C**	Analysis Date:	**12/27/2016 12:25:00 P**	Prep Date:	**12/22/2016**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	1.32	1.00	1.250	0	106	80	120	0	0	
Arsenic	1.27	1.00	1.250	0	102	80	120	0	0	
Barium	1.31	2.00	1.250	0	104	80	120	0	0	
Chromium	1.37	2.00	1.250	0	109	80	120	0	0	
Nickel	1.48	2.00	1.250	0	119	80	120	0	0	
Selenium	1.30	0.500	1.250	0	104	80	120	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170124A**

The QC data in batch 78836 applies to the following samples: 1701152-01A, 1701152-02A, 1701152-03A, 1701152-04A, 1701152-05A, 1701152-06A, 1701152-07A, 1701152-08A, 1701152-09A, 1701152-10A, 1701152-11A, 1701152-12A, 1701152-13A, 1701152-14A, 1701152-15A, 1701152-16A, 1701152-17A, 1701152-18A

Sample ID **MB-78836** Batch ID: **78836** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS4_170124A** Analysis Date: **1/24/2017 10:57:00 AM** Prep Date: **1/23/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.500	1.00								
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Beryllium	<0.100	0.300								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Lead	<0.100	0.300								
Nickel	<0.500	2.00								
Selenium	<0.150	0.500								

Sample ID **LCS-78836** Batch ID: **78836** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS4_170124A** Analysis Date: **1/24/2017 10:59:00 AM** Prep Date: **1/23/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	52.8	1.00	50.00	0	106	80	120			
Arsenic	56.3	1.00	50.00	0	113	80	120			
Barium	54.4	2.00	50.00	0	109	80	120			
Beryllium	52.2	0.300	50.00	0	104	80	120			
Cadmium	53.9	0.300	50.00	0	108	80	120			
Chromium	56.6	2.00	50.00	0	113	80	120			
Lead	56.4	0.300	50.00	0	113	80	120			
Nickel	57.4	2.00	50.00	0	115	80	120			
Selenium	55.8	0.500	50.00	0	112	80	120			

Sample ID **LCSD-78836** Batch ID: **78836** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS4_170124A** Analysis Date: **1/24/2017 11:01:00 AM** Prep Date: **1/23/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	51.9	1.00	50.00	0	104	80	120	1.74	25	
Arsenic	54.6	1.00	50.00	0	109	80	120	3.04	25	
Barium	52.7	2.00	50.00	0	105	80	120	3.15	25	
Beryllium	51.3	0.300	50.00	0	103	80	120	1.72	25	
Cadmium	52.7	0.300	50.00	0	105	80	120	2.15	25	
Chromium	56.1	2.00	50.00	0	112	80	120	0.886	25	
Lead	54.8	0.300	50.00	0	110	80	120	2.77	25	
Nickel	55.9	2.00	50.00	0	112	80	120	2.59	25	
Selenium	53.9	0.500	50.00	0	108	80	120	3.54	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170124A**

Sample ID	**1701152-10A SD**	Batch ID:	**78836**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**SD**	Run ID:	**ICP-MS4_170124A**	Analysis Date:	**1/24/2017 11:08:00 AM**	Prep Date:	**1/23/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	3.43	6.09	0	3.391				1.05	10	
Arsenic	8.97	6.09	0	9.082				1.20	10	
Barium	481	12.2	0	487.4				1.39	10	
Beryllium	<0.609	1.83	0	0.2358				0	10	
Cadmium	1.46	1.83	0	1.452				0.502	10	
Chromium	23.8	12.2	0	23.08				3.13	10	
Lead	515	1.83	0	507.5				1.47	10	
Nickel	21.6	12.2	0	21.19				1.99	10	
Selenium	<0.914	3.05	0	0.6719				0	10	

Sample ID	**1701152-10A PDS**	Batch ID:	**78836**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**PDS**	Run ID:	**ICP-MS4_170124A**	Analysis Date:	**1/24/2017 11:27:00 AM**	Prep Date:	**1/23/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	63.9	1.22	60.94	3.391	99.2	80	120			
Arsenic	73.7	1.22	60.94	9.082	106	80	120			
Barium	564	2.44	60.94	487.4	126	80	120			S
Beryllium	64.3	0.366	60.94	0.2358	105	80	120			
Cadmium	63.1	0.366	60.94	1.452	101	80	120			
Chromium	90.5	2.44	60.94	23.08	111	80	120			
Lead	586	0.366	60.94	507.5	129	80	120			S
Nickel	86.9	2.44	60.94	21.19	108	80	120			
Selenium	64.8	0.609	60.94	0.6719	105	80	120			

Sample ID	**1701152-10A MS**	Batch ID:	**78836**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**ICP-MS4_170124A**	Analysis Date:	**1/24/2017 11:29:00 AM**	Prep Date:	**1/23/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	64.9	1.23	61.53	3.391	100	80	120			
Arsenic	77.0	1.23	61.53	9.082	110	80	120			
Barium	552	2.46	61.53	487.4	104	80	120			
Beryllium	65.7	0.369	61.53	0.2358	106	80	120			
Cadmium	67.2	0.369	61.53	1.452	107	80	120			
Chromium	98.5	2.46	61.53	23.08	123	80	120			S
Lead	665	0.369	61.53	507.5	256	80	120			S
Nickel	92.4	2.46	61.53	21.19	116	80	120			
Selenium	66.5	0.615	61.53	0.6719	107	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170124A**

Sample ID	**1701152-10A MSD**	Batch ID:	**78836**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**ICP-MS4_170124A**	Analysis Date:	**1/24/2017 11:31:00 AM**	Prep Date:	**1/23/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	66.8	1.21	60.37	3.391	105	80	120	2.92	25	
Arsenic	75.5	1.21	60.37	9.082	110	80	120	2.03	25	
Barium	495	2.41	60.37	487.4	12.8	80	120	10.8	25	S
Beryllium	64.9	0.362	60.37	0.2358	107	80	120	1.20	25	
Cadmium	66.2	0.362	60.37	1.452	107	80	120	1.55	25	
Chromium	102	2.41	60.37	23.08	131	80	120	3.61	25	S
Lead	553	0.362	60.37	507.5	75.4	80	120	18.4	25	S
Nickel	85.1	2.41	60.37	21.19	106	80	120	8.18	25	
Selenium	64.6	0.604	60.37	0.6719	106	80	120	2.83	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170124A**

Sample ID **ICV-170124** Batch ID: **R90125** TestNo: **SW6020A** Units: **mg/L**
SampType: **ICV** Run ID: **ICP-MS4_170124A** Analysis Date: **1/24/2017 10:44:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.0984	0.00250	0.100	0	98.4	90	110			
Arsenic	0.101	0.00500	0.100	0	101	90	110			
Barium	0.0987	0.0100	0.100	0	98.7	90	110			
Beryllium	0.0971	0.00100	0.100	0	97.1	90	110			
Cadmium	0.0987	0.00100	0.100	0	98.7	90	110			
Chromium	0.108	0.00500	0.100	0	108	90	110			
Lead	0.102	0.00100	0.100	0	102	90	110			
Nickel	0.105	0.0100	0.100	0	105	90	110			
Selenium	0.0996	0.00500	0.100	0	99.6	90	110			

Sample ID **LCVL-170124** Batch ID: **R90125** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170124A** Analysis Date: **1/24/2017 10:48:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00215	0.00250	0.00200	0	107	70	130			
Arsenic	0.00522	0.00500	0.00500	0	104	70	130			
Barium	0.00516	0.0100	0.00500	0	103	70	130			
Beryllium	0.000905	0.00100	0.00100	0	90.5	70	130			
Cadmium	0.00104	0.00100	0.00100	0	104	70	130			
Chromium	0.00538	0.00500	0.00500	0	108	70	130			
Lead	0.00104	0.00100	0.00100	0	104	70	130			
Nickel	0.00550	0.0100	0.00500	0	110	70	130			
Selenium	0.00517	0.00500	0.00500	0	103	70	130			

Sample ID **CCV1-170124** Batch ID: **R90125** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_170124A** Analysis Date: **1/24/2017 11:45:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.204	0.00250	0.200	0	102	90	110			
Arsenic	0.215	0.00500	0.200	0	108	90	110			
Barium	0.210	0.0100	0.200	0	105	90	110			
Beryllium	0.211	0.00100	0.200	0	105	90	110			
Cadmium	0.212	0.00100	0.200	0	106	90	110			
Chromium	0.219	0.00500	0.200	0	109	90	110			
Lead	0.214	0.00100	0.200	0	107	90	110			
Nickel	0.220	0.0100	0.200	0	110	90	110			
Selenium	0.217	0.00500	0.200	0	108	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170124A**

Sample ID **LCVL1-170124** Batch ID: **R90125** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170124A** Analysis Date: **1/24/2017 11:58:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00199	0.00250	0.00200	0	99.4	70	130			
Arsenic	0.00521	0.00500	0.00500	0	104	70	130			
Barium	0.00514	0.0100	0.00500	0	103	70	130			
Beryllium	0.00104	0.00100	0.00100	0	104	70	130			
Cadmium	0.00107	0.00100	0.00100	0	107	70	130			
Chromium	0.00536	0.00500	0.00500	0	107	70	130			
Lead	0.00122	0.00100	0.00100	0	122	70	130			
Nickel	0.00552	0.0100	0.00500	0	110	70	130			
Selenium	0.00549	0.00500	0.00500	0	110	70	130			

Sample ID **CCV2-170124** Batch ID: **R90125** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_170124A** Analysis Date: **1/24/2017 12:28:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.205	0.00250	0.200	0	103	90	110			
Arsenic	0.216	0.00500	0.200	0	108	90	110			
Barium	0.211	0.0100	0.200	0	106	90	110			
Beryllium	0.208	0.00100	0.200	0	104	90	110			
Cadmium	0.212	0.00100	0.200	0	106	90	110			
Chromium	0.220	0.00500	0.200	0	110	90	110			
Lead	0.216	0.00100	0.200	0	108	90	110			
Nickel	0.221	0.0100	0.200	0	110	90	110			
Selenium	0.215	0.00500	0.200	0	107	90	110			

Sample ID **LCVL2-170124** Batch ID: **R90125** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170124A** Analysis Date: **1/24/2017 12:36:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00204	0.00250	0.00200	0	102	70	130			
Arsenic	0.00519	0.00500	0.00500	0	104	70	130			
Barium	0.00509	0.0100	0.00500	0	102	70	130			
Beryllium	0.000942	0.00100	0.00100	0	94.2	70	130			
Cadmium	0.00106	0.00100	0.00100	0	106	70	130			
Chromium	0.00542	0.00500	0.00500	0	108	70	130			
Lead	0.00121	0.00100	0.00100	0	121	70	130			
Nickel	0.00552	0.0100	0.00500	0	110	70	130			
Selenium	0.00487	0.00500	0.00500	0	97.3	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170126A**

The QC data in batch 78880 applies to the following samples: 1701152-01A, 1701152-02A, 1701152-03A, 1701152-04A, 1701152-05A, 1701152-06A, 1701152-07A, 1701152-08A, 1701152-09A, 1701152-10A, 1701152-11A, 1701152-12A, 1701152-13A, 1701152-14A, 1701152-15A, 1701152-16A, 1701152-17A, 1701152-18A

Sample ID **MB-78880** Batch ID: **78880** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS4_170126A** Analysis Date: **1/26/2017 3:05:00 PM** Prep Date: **1/25/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	<0.100	0.200								

Sample ID **LCS-78880** Batch ID: **78880** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS4_170126A** Analysis Date: **1/26/2017 3:11:00 PM** Prep Date: **1/25/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	51.9	0.200	50.00	0	104	80	120			

Sample ID **LCSD-78880** Batch ID: **78880** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS4_170126A** Analysis Date: **1/26/2017 3:13:00 PM** Prep Date: **1/25/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	51.2	0.200	50.00	0	102	80	120	1.24	25	

Sample ID **1701152-10A SD** Batch ID: **78880** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS4_170126A** Analysis Date: **1/26/2017 3:19:00 PM** Prep Date: **1/25/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.707	1.17	0	0.6355				10.7	10	R

Sample ID **1701152-10A PDS** Batch ID: **78880** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **ICP-MS4_170126A** Analysis Date: **1/26/2017 3:39:00 PM** Prep Date: **1/25/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	58.1	0.235	58.71	0.6355	97.9	80	120			

Sample ID **1701152-10A MS** Batch ID: **78880** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **ICP-MS4_170126A** Analysis Date: **1/26/2017 3:41:00 PM** Prep Date: **1/25/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	60.0	0.233	58.17	0.6355	102	80	120			

Sample ID **1701152-10A MSD** Batch ID: **78880** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **ICP-MS4_170126A** Analysis Date: **1/26/2017 3:42:00 PM** Prep Date: **1/25/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	62.6	0.239	59.80	0.6355	104	80	120	4.22	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170126A**

Sample ID	**ICV-170126**	Batch ID:	**R90173**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**ICP-MS4_170126A**	Analysis Date:	**1/26/2017 12:21:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0990	0.0100	0.100	0	99.0	90	110			
Lead	0.0996	0.00100	0.100	0	99.6	90	110			
Silver	0.105	0.00200	0.100	0	105	90	110			

Sample ID	**LCVL-170126**	Batch ID:	**R90173**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170126A**	Analysis Date:	**1/26/2017 12:25:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00480	0.0100	0.00500	0	96.0	70	130			
Lead	0.000975	0.00100	0.00100	0	97.5	70	130			
Silver	0.00198	0.00200	0.00200	0	98.9	70	130			

Sample ID	**CCV1-170126**	Batch ID:	**R90173**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_170126A**	Analysis Date:	**1/26/2017 12:51:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.196	0.0100	0.200	0	97.8	90	110			
Lead	0.203	0.00100	0.200	0	102	90	110			

Sample ID	**LCVL1-170126**	Batch ID:	**R90173**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170126A**	Analysis Date:	**1/26/2017 1:00:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00472	0.0100	0.00500	0	94.4	70	130			
Lead	0.000926	0.00100	0.00100	0	92.6	70	130			

Sample ID	**CCV2-170126**	Batch ID:	**R90173**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_170126A**	Analysis Date:	**1/26/2017 1:22:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.198	0.0100	0.200	0	99.0	90	110			
Lead	0.201	0.00100	0.200	0	101	90	110			

Sample ID	**LCVL2-170126**	Batch ID:	**R90173**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170126A**	Analysis Date:	**1/26/2017 1:33:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00473	0.0100	0.00500	0	94.7	70	130			
Lead	0.00104	0.00100	0.00100	0	104	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170126A**

Sample ID	**CCV4-170126**	Batch ID:	**R90173**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_170126A**	Analysis Date:	**1/26/2017 2:45:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.203	0.00200	0.200	0	101	90	110			

Sample ID	**LCVL4-170126**	Batch ID:	**R90173**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170126A**	Analysis Date:	**1/26/2017 2:49:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.00201	0.00200	0.00200	0	101	70	130			

Sample ID	**CCV5-170126**	Batch ID:	**R90173**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_170126A**	Analysis Date:	**1/26/2017 3:44:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.202	0.00200	0.200	0	101	90	110			

Sample ID	**LCVL5-170126**	Batch ID:	**R90173**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170126A**	Analysis Date:	**1/26/2017 3:50:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.00196	0.00200	0.00200	0	97.9	70	130			

Sample ID	**CCV6-170126**	Batch ID:	**R90173**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_170126A**	Analysis Date:	**1/26/2017 4:12:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.203	0.00200	0.200	0	101	90	110			

Sample ID	**LCVL6-170126**	Batch ID:	**R90173**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170126A**	Analysis Date:	**1/26/2017 4:16:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.00199	0.00200	0.00200	0	99.6	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170104A**

Sample ID	**DCS-78416**	Batch ID:	**78416**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**GCMS6_170104A**	Analysis Date:	**1/4/2017 2:16:00 PM**	Prep Date:	**12/21/2016**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0105	0.0100	0.01000	0	105	20	200	0	0	
Acenaphthylene	0.0106	0.0100	0.01000	0	106	20	200	0	0	
Anthracene	0.0103	0.0100	0.01000	0	103	20	200	0	0	
Benzo[a]anthracene	0.0118	0.0100	0.01000	0	118	20	200	0	0	
Benzo[a]pyrene	0.0109	0.0100	0.01000	0	109	20	200	0	0	
Benzo[b]fluoranthene	0.0116	0.0100	0.01000	0	116	20	200	0	0	
Benzo[g,h,i]perylene	0.0124	0.0100	0.01000	0	124	20	200	0	0	
Benzo[k]fluoranthene	0.0126	0.0100	0.01000	0	127	20	200	0	0	
Chrysene	0.0124	0.0100	0.01000	0	124	20	200	0	0	
Dibenz[a,h]anthracene	0.0120	0.0100	0.01000	0	120	20	200	0	0	
Fluoranthene	0.0117	0.0100	0.01000	0	117	20	200	0	0	
Fluorene	0.0108	0.0100	0.01000	0	108	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.0122	0.0100	0.01000	0	122	20	200	0	0	
Naphthalene	0.0108	0.0100	0.01000	0	108	20	200	0	0	
Phenanthrene	0.0118	0.0100	0.01000	0	118	20	200	0	0	
Pyrene	0.0115	0.0100	0.01000	0	115	20	200	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_170123A

The QC data in batch 78824 applies to the following samples: 1701152-01A, 1701152-02A, 1701152-03A, 1701152-04A, 1701152-05A, 1701152-06A, 1701152-07A, 1701152-08A, 1701152-09A, 1701152-10A, 1701152-11A, 1701152-12A, 1701152-13A, 1701152-14A, 1701152-15A, 1701152-16A, 1701152-17A, 1701152-18A

Sample ID **LCS-78824** Batch ID: **78824** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS6_170123A** Analysis Date: **1/23/2017 9:40:00 AM** Prep Date: **1/20/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.804	0.0100	1.000	0	80.4	46	125			
Acenaphthylene	0.803	0.0100	1.000	0	80.3	44	125			
Anthracene	0.770	0.0100	1.000	0	77.0	53	125			
Benzo[a]anthracene	0.874	0.0100	1.000	0	87.4	52	125			
Benzo[a]pyrene	0.852	0.0100	1.000	0	85.2	50	125			
Benzo[b]fluoranthene	0.910	0.0100	1.000	0	91.0	45	125			
Benzo[g,h,i]perylene	0.880	0.0100	1.000	0	88.0	38	126			
Benzo[k]fluoranthene	0.865	0.0100	1.000	0	86.5	45	125			
Chrysene	0.848	0.0100	1.000	0	84.8	53	125			
Dibenz[a,h]anthracene	0.866	0.0100	1.000	0	86.6	41	125			
Fluoranthene	0.811	0.0100	1.000	0	81.1	54	125			
Fluorene	0.831	0.0100	1.000	0	83.1	49	125			
Indeno[1,2,3-cd]pyrene	0.869	0.0100	1.000	0	86.9	38	125			
Naphthalene	0.721	0.0100	1.000	0	72.1	40	125			
Phenanthrene	0.822	0.0100	1.000	0	82.2	50	125			
Pyrene	0.806	0.0100	1.000	0	80.6	46	125			
Surr: 2-Fluorobiphenyl	0.649		1.000		64.9	43	125			
Surr: 4-Terphenyl-d14	0.670		1.000		67.0	32	125			

Sample ID **MB-78824** Batch ID: **78824** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS6_170123A** Analysis Date: **1/23/2017 10:10:00 AM** Prep Date: **1/20/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100								
Acenaphthylene	<0.00500	0.0100								
Anthracene	<0.00500	0.0100								
Benzo[a]anthracene	<0.00500	0.0100								
Benzo[a]pyrene	<0.00500	0.0100								
Benzo[b]fluoranthene	<0.00500	0.0100								
Benzo[g,h,i]perylene	<0.00500	0.0100								
Benzo[k]fluoranthene	<0.00500	0.0100								
Chrysene	<0.00500	0.0100								
Dibenz[a,h]anthracene	<0.00500	0.0100								
Fluoranthene	<0.00500	0.0100								
Fluorene	<0.00500	0.0100								
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100								
Naphthalene	<0.00500	0.0100								
Phenanthrene	<0.00500	0.0100								
Pyrene	<0.00500	0.0100								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170123A**

Sample ID	**MB-78824**	Batch ID:	**78824**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**GCMS6_170123A**	Analysis Date:	**1/23/2017 10:10:00 AM**	Prep Date:	**1/20/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	0.689		1.000		68.9	43	125			
Surr: 4-Terphenyl-d14	0.739		1.000		73.9	32	125			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170123A**

Sample ID	**ICV-170123**	Batch ID:	**R90129**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS6_170123A**	Analysis Date:	**1/23/2017 9:10:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.87	0.0100	2.000	0	93.3	80	120			
Acenaphthylene	1.85	0.0100	2.000	0	92.4	80	120			
Anthracene	1.84	0.0100	2.000	0	91.9	80	120			
Benzo[a]anthracene	1.94	0.0100	2.000	0	97.2	80	120			
Benzo[a]pyrene	2.03	0.0100	2.000	0	102	80	120			
Benzo[b]fluoranthene	2.02	0.0100	2.000	0	101	80	120			
Benzo[g,h,i]perylene	2.01	0.0100	2.000	0	101	80	120			
Benzo[k]fluoranthene	1.97	0.0100	2.000	0	98.5	80	120			
Chrysene	1.92	0.0100	2.000	0	95.9	80	120			
Dibenz[a,h]anthracene	2.01	0.0100	2.000	0	100	80	120			
Fluoranthene	1.83	0.0100	2.000	0	91.5	80	120			
Fluorene	1.86	0.0100	2.000	0	93.1	80	120			
Indeno[1,2,3-cd]pyrene	1.95	0.0100	2.000	0	97.4	80	120			
Naphthalene	1.77	0.0100	2.000	0	88.6	80	120			
Phenanthrene	1.83	0.0100	2.000	0	91.3	80	120			
Pyrene	1.80	0.0100	2.000	0	89.9	80	120			
Surr: 2-Fluorobiphenyl	1.78		2.000		89.1	65	120			
Surr: 4-Terphenyl-d14	1.90		2.000		94.9	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_170124A

The QC data in batch 78824 applies to the following samples: 1701152-01A, 1701152-02A, 1701152-03A, 1701152-04A, 1701152-05A, 1701152-06A, 1701152-07A, 1701152-08A, 1701152-09A, 1701152-10A, 1701152-11A, 1701152-12A, 1701152-13A, 1701152-14A, 1701152-15A, 1701152-16A, 1701152-17A, 1701152-18A

Sample ID **SB-170124** Batch ID: **78824** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **SBLK** Run ID: **GCMS6_170124A** Analysis Date: **1/24/2017 9:46:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100	0							
Acenaphthylene	<0.00500	0.0100	0							
Anthracene	<0.00500	0.0100	0							
Benzo[a]anthracene	<0.00500	0.0100	0							
Benzo[a]pyrene	<0.00500	0.0100	0							
Benzo[b]fluoranthene	<0.00500	0.0100	0							
Benzo[g,h,i]perylene	<0.00500	0.0100	0							
Benzo[k]fluoranthene	<0.00500	0.0100	0							
Chrysene	<0.00500	0.0100	0							
Dibenz[a,h]anthracene	<0.00500	0.0100	0							
Fluoranthene	<0.00500	0.0100	0							
Fluorene	<0.00500	0.0100	0							
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100	0							
Naphthalene	<0.00500	0.0100	0							
Phenanthrene	<0.00500	0.0100	0							
Pyrene	<0.00500	0.0100	0							

Sample ID **1701152-10AMS** Batch ID: **78824** TestNo: **SW8270D-LL** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GCMS6_170124A** Analysis Date: **1/24/2017 2:16:00 PM** Prep Date: **1/20/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.792	0.0118	1.175	0.02898	65.0	46	125			
Acenaphthylene	0.808	0.0118	1.175	0.02866	66.3	44	125			
Anthracene	1.02	0.0118	1.175	0.1827	71.3	53	125			
Benzo[a]anthracene	1.14	0.0118	1.175	0.2323	76.8	52	125			
Benzo[a]pyrene	1.15	0.0118	1.175	0.2404	77.0	50	125			
Benzo[b]fluoranthene	1.18	0.0118	1.175	0.2375	80.0	45	125			
Benzo[g,h,i]perylene	0.887	0.0118	1.175	0.1994	58.5	38	126			
Benzo[k]fluoranthene	0.903	0.0118	1.175	0.09938	68.4	45	125			
Chrysene	1.17	0.0118	1.175	0.2579	77.4	53	125			
Dibenz[a,h]anthracene	0.740	0.0118	1.175	0.03399	60.1	41	125			
Fluoranthene	1.63	0.0118	1.175	0.5302	93.7	54	125			
Fluorene	0.831	0.0118	1.175	0.03106	68.1	49	125			
Indeno[1,2,3-cd]pyrene	0.915	0.0118	1.175	0.1931	61.4	38	125			
Naphthalene	0.700	0.0118	1.175	0.007299	59.0	40	125			
Phenanthrene	1.32	0.0118	1.175	0.2881	88.2	50	125			
Pyrene	1.38	0.0118	1.175	0.4006	83.5	46	125			
Surr: 2-Fluorobiphenyl	0.613		1.175		52.1	43	125			
Surr: 4-Terphenyl-d14	0.604		1.175		51.4	32	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170124A**

Sample ID	**1701152-10AMSD**	Batch ID:	**78824**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**GCMS6_170124A**	Analysis Date:	**1/24/2017 2:46:00 PM**	Prep Date:	**1/20/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.824	0.0127	1.268	0.02898	62.7	46	125	3.88	30	
Acenaphthylene	0.849	0.0127	1.268	0.02866	64.6	44	125	4.94	30	
Anthracene	1.03	0.0127	1.268	0.1827	66.6	53	125	0.631	30	
Benzo[a]anthracene	1.07	0.0127	1.268	0.2323	66.4	52	125	5.55	30	
Benzo[a]pyrene	1.10	0.0127	1.268	0.2404	67.9	50	125	3.86	30	
Benzo[b]fluoranthene	1.10	0.0127	1.268	0.2375	68.2	45	125	6.55	30	
Benzo[g,h,i]perylene	0.881	0.0127	1.268	0.1994	53.8	38	126	0.625	30	
Benzo[k]fluoranthene	0.945	0.0127	1.268	0.09938	66.7	45	125	4.50	30	
Chrysene	1.11	0.0127	1.268	0.2579	66.9	53	125	5.39	30	
Dibenz[a,h]anthracene	0.787	0.0127	1.268	0.03399	59.4	41	125	6.21	30	
Fluoranthene	1.43	0.0127	1.268	0.5302	70.7	54	125	13.4	30	
Fluorene	0.856	0.0127	1.268	0.03106	65.0	49	125	2.98	30	
Indeno[1,2,3-cd]pyrene	0.894	0.0127	1.268	0.1931	55.3	38	125	2.30	30	
Naphthalene	0.757	0.0127	1.268	0.007299	59.1	40	125	7.85	30	
Phenanthrene	1.16	0.0127	1.268	0.2881	68.4	50	125	13.6	30	
Pyrene	1.26	0.0127	1.268	0.4006	67.6	46	125	9.42	30	
Surr: 2-Fluorobiphenyl	0.659		1.268		52.0	43	125	0	0	
Surr: 4-Terphenyl-d14	0.653		1.268		51.5	32	125	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170124A**

Sample ID	**ICV-170124**	Batch ID:	**R90133**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS6_170124A**	Analysis Date:	**1/24/2017 9:16:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.85	0.0100	2.000	0	92.7	80	120			
Acenaphthylene	1.84	0.0100	2.000	0	92.2	80	120			
Anthracene	1.82	0.0100	2.000	0	90.9	80	120			
Benzo[a]anthracene	1.95	0.0100	2.000	0	97.5	80	120			
Benzo[a]pyrene	2.05	0.0100	2.000	0	102	80	120			
Benzo[b]fluoranthene	2.02	0.0100	2.000	0	101	80	120			
Benzo[g,h,i]perylene	1.95	0.0100	2.000	0	97.7	80	120			
Benzo[k]fluoranthene	1.98	0.0100	2.000	0	98.9	80	120			
Chrysene	1.94	0.0100	2.000	0	97.0	80	120			
Dibenz[a,h]anthracene	1.99	0.0100	2.000	0	99.4	80	120			
Fluoranthene	1.79	0.0100	2.000	0	89.7	80	120			
Fluorene	1.86	0.0100	2.000	0	93.1	80	120			
Indeno[1,2,3-cd]pyrene	1.94	0.0100	2.000	0	97.1	80	120			
Naphthalene	1.77	0.0100	2.000	0	88.7	80	120			
Phenanthrene	1.78	0.0100	2.000	0	89.1	80	120			
Pyrene	1.75	0.0100	2.000	0	87.7	80	120			
Surr: 2-Fluorobiphenyl	1.76		2.000		87.8	65	120			
Surr: 4-Terphenyl-d14	1.89		2.000		94.3	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_170124B**

The QC data in batch 78874 applies to the following samples: 1701152-01A, 1701152-02A, 1701152-03A, 1701152-04A, 1701152-05A, 1701152-06A, 1701152-07A, 1701152-08A

Sample ID	**1701166-15B DUP**	Batch ID:	**78874**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_170124B**	Analysis Date:	**1/25/2017 9:00:00 AM**	Prep Date:	**1/24/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	26.2	0	0	27.93				6.55	30	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_170125A**

The QC data in batch 78899 applies to the following samples: 1701152-09A, 1701152-10A, 1701152-11A, 1701152-12A, 1701152-13A, 1701152-14A, 1701152-15A, 1701152-16A, 1701152-17A, 1701152-18A

Sample ID	**1701152-16A DUP**	Batch ID:	**78899**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_170125A**	Analysis Date:	**1/26/2017 8:10:00 AM**	Prep Date:	**1/25/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	16.1	0	0	16.35				1.50	30	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

DHL Analytical, Inc.

Date: *27-Jan-17*

CLIENT: AECOM
Work Order: 1701152
Project: GLO/City of Galveston

MQL SUMMARY REPORT

TestNo: SW6020A	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Antimony	0.500	1.00
Arsenic	0.500	1.00
Barium	0.500	2.00
Beryllium	0.100	0.300
Cadmium	0.100	0.300
Chromium	0.500	2.00
Lead	0.100	0.300
Nickel	0.500	2.00
Selenium	0.150	0.500
Silver	0.100	0.200

TestNo: SW7471B	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Mercury	0.0160	0.0400

TestNo: SW8270D-LL	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Acenaphthene	0.00500	0.0100
Acenaphthylene	0.00500	0.0100
Anthracene	0.00500	0.0100
Benzo[a]anthracene	0.00500	0.0100
Benzo[a]pyrene	0.00500	0.0100
Benzo[b]fluoranthene	0.00500	0.0100
Benzo[g,h,i]perylene	0.00500	0.0100
Benzo[k]fluoranthene	0.00500	0.0100
Chrysene	0.00500	0.0100
Dibenz[a,h]anthracene	0.00500	0.0100
Fluoranthene	0.00500	0.0100
Fluorene	0.00500	0.0100
Indeno[1,2,3-cd]pyrene	0.00500	0.0100
Naphthalene	0.00500	0.0100
Phenanthrene	0.00500	0.0100
Pyrene	0.00500	0.0100

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

DHL Analytical, Inc.
Laboratory Review Checklist: Reportable Data

Project Name: GLO/City of Galveston	**Date:** 2/7/2017
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1701264
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				**R1-01**
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?	X				
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			**R4-02**
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			**R7-03**
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				**R10-01**
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.
Laboratory Review Checklist (continued): Supporting Data

Project Name: GLO/City of Galveston | **Date:** 2/7/2017

Reviewer Name: Angie O'Donnell | **Laboratory Work Order:** 1701264

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?		X			**S2-02**
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			**S9-01**
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
- a) Items consistent with NELAC Chapter 5,
- b) dilution factors,
- c) preparation methods,
- d) cleanup methods, and
- e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:
- a) Calculated recovery (%R), and
- b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
- a) LCS spiking amounts,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d) Calculated %Rs and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits

R8 Laboratory analytical duplicate (if applicable) recovery and precision:
- a) The amount of analyte measured in the duplicate,
- b) The calculated RPD, and
- c) The laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-5, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager		02/07/17
Scott Schroeder – Technical Director	Signature	Date

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW8260C - Volatile Organics Analysis (The compound Cyclohexane is not NELAC Certified)
Method SW8270D-LL - PAH Analysis
Method SW8082A - PCB Analysis
Method TX1005 - Total Petroleum Hydrocarbons Analysis
Method SW6020A - Metals Analysis
Method SW7471B - Mercury Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 1/27/2017. A total of 16 samples were received and analyzed. The sampled arrived in good condition and were properly packaged.

Exception Report R4-02

For TX1005 Analysis, the recovery of surrogate Octacosane for Sample INC-SB57-010 was above the method control limits. This is flagged accordingly in the Analytical Data Report. The remaining surrogate for this sample was within method control limits. No further corrective action was taken.

For TX1005 Analysis, the recoveries of both surrogates for Sample INC-SB57-020 were above the method control limits, due to co-elution. These are flagged accordingly in the Analytical Data Report. No further corrective action was taken.

For Volatiles Analysis, the recovery of surrogate 4-Bromofluorobenzene for Sample INC-SB57-020 was above the method control limits. This is flagged accordingly in the Analytical Data Report. The remaining surrogates for this sample were within method control limits. No further corrective action was taken.

Exception Report R7-03

For Metals Analysis, the recovery of Lead for the Matrix Spike (1701264-06 MS) was below the method control limits. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated LCS/MSD. No further corrective action was taken.

For Mercury Analysis, the recoveries of the Matrix Spike and Matrix Spike Duplicate (1701222-02 MS/MSD) were below the method control limits. These are flagged accordingly in the QC Summary

Report. The associated LCS was within method control limits. No further corrective action was taken.

For Volatiles Analysis, for soil Batch 79018, the recoveries of up to twenty-six compounds for the Matrix Spike and Matrix Spike Duplicate (1701264-11 MS/MSD) were slightly below the method control limits. These are flagged accordingly in the QC Summary Report. The recoveries of these compounds were within method control limits in the associated LCS. No further corrective action was taken.

For PAH Analysis, for soil Batch 79031, the recoveries of twelve compounds for the Matrix Spike and Matrix Spike Duplicate (1701264-06 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. The recoveries of these compounds were within method control limits in the associated LCS. No further corrective action was taken.

Exception Report R10-01

For PCB Analysis, a Copper clean-up was performed, as per the method, on Sample INC-SB57-020, Method Blank-78945, LCS-78945, the Matrix Spike and Matrix Spike Duplicate (1701264-12 MS/MSD), due to matrix. The reference sample selected for the Batch QC was from this workorder. No further corrective action was taken.

Exception Report S2-02

For PCB Analysis, the recovery of Aroclor 1260 for the Continuing Calibration Verification (CCV2-170202) was below the method control limits, due to suppression of signal due to matrix. This is flagged accordingly in the QC Summary report. This araclor is within method control limit in the associated Matrix Spike and matrix Spike Duplicate (1701264-12 MS/MSD). No further corrective action was taken.

For Volatiles Analysis, for water samples performed on 1/28/2017, the recovery of Dichlorodifluoromethane for the Initial Calibration Verification (ICV-170128) was slightly below the method control limits specified in SW8260C (80-120% recovery). This is flagged accordingly in the QC Summary report. The number of target analytes outside of the method control limits for the ICV are less than 20% of the total number of compounds being reported; this is allowed in SW8260C specifications. This compound was within method control limits in the associated LCS. No further corrective action was taken.

Exception Report S9-01

For Metals Analysis, the RPD of Selenium for the Serial Dilution (1701264-06 SD) was above the method control limit. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

For Mercury Analysis, the recovery of the Post Digestion Spike (1701222-02 PDS) was below the method control limits. This is flagged accordingly in the QC Summary Report. The associated Serial Dilution was within method control limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT: AECOM
Project: GLO/City of Galveston
Lab Order: 1701264

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1701264-01	INC-SB66-010		01/25/17 09:50 AM	1/27/2017
1701264-02	INC-SB66-020		01/25/17 09:55 AM	1/27/2017
1701264-03	INC-SB66-015		01/25/17 10:05 AM	1/27/2017
1701264-04	INC-SB66-021		01/25/17 09:55 AM	1/27/2017
1701264-05	INC-SB67-010		01/25/17 01:30 PM	1/27/2017
1701264-06	INC-SB67-023		01/25/17 01:35 PM	1/27/2017
1701264-07	INC-SB63-010		01/25/17 03:35 PM	1/27/2017
1701264-08	INC-SB63-015		01/25/17 03:50 PM	1/27/2017
1701264-09	INC-SB61-010		01/25/17 04:35 PM	1/27/2017
1701264-10	INC-TB01-017		01/26/17 09:00 AM	1/27/2017
1701264-11	INC-SB57-010		01/26/17 09:15 AM	1/27/2017
1701264-12	INC-SB57-020		01/26/17 09:20 AM	1/27/2017
1701264-13	INC-SB64-010		01/26/17 01:55 PM	1/27/2017
1701264-14	INC-SB64-011		01/26/17 01:55 PM	1/27/2017
1701264-15	INC-SB69-010		01/26/17 02:50 PM	1/27/2017
1701264-16	INC-SB70-010		01/26/17 02:55 PM	1/27/2017

DHL Analytical, Inc.

07-Feb-17

Lab Order: 1701264
Client: AECOM
Project: GLO/City of Galveston

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1701264-01A	INC-SB66-010	01/25/17 09:50 AM	Soil	SW7471B	Mercury Soil Prep, Total	01/31/17 08:18 AM	78963
	INC-SB66-010	01/25/17 09:50 AM	Soil	D2216	Moisture Preparation	01/27/17 02:26 PM	78938
	INC-SB66-010	01/25/17 09:50 AM	Soil	SW3550C	Soil Prep Sonication: PAH	02/03/17 09:56 AM	79031
	INC-SB66-010	01/25/17 09:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	02/01/17 09:54 AM	78989
1701264-02A	INC-SB66-020	01/25/17 09:55 AM	Soil	SW7471B	Mercury Soil Prep, Total	01/31/17 08:18 AM	78963
	INC-SB66-020	01/25/17 09:55 AM	Soil	D2216	Moisture Preparation	01/27/17 02:26 PM	78938
	INC-SB66-020	01/25/17 09:55 AM	Soil	SW3550C	Soil Prep Sonication: PAH	02/03/17 09:56 AM	79031
	INC-SB66-020	01/25/17 09:55 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	02/01/17 09:54 AM	78989
1701264-03A	INC-SB66-015	01/25/17 10:05 AM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	02/01/17 08:11 AM	78981
	INC-SB66-015	01/25/17 10:05 AM	Equip Blank	SW7470A	Mercury Aq Prep, Total	01/31/17 11:43 AM	78975
1701264-03B	INC-SB66-015	01/25/17 10:05 AM	Equip Blank	SW3510C	Aq Prep Sep Funnel: PAH	02/01/17 12:41 PM	78987
1701264-04A	INC-SB66-021	01/25/17 09:55 AM	Soil	SW7471B	Mercury Soil Prep, Total	01/31/17 08:18 AM	78963
	INC-SB66-021	01/25/17 09:55 AM	Soil	D2216	Moisture Preparation	01/27/17 02:26 PM	78938
	INC-SB66-021	01/25/17 09:55 AM	Soil	SW3550C	Soil Prep Sonication: PAH	02/03/17 09:56 AM	79031
	INC-SB66-021	01/25/17 09:55 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	02/01/17 09:54 AM	78989
1701264-05A	INC-SB67-010	01/25/17 01:30 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/31/17 08:18 AM	78963
	INC-SB67-010	01/25/17 01:30 PM	Soil	D2216	Moisture Preparation	01/27/17 02:26 PM	78938
	INC-SB67-010	01/25/17 01:30 PM	Soil	SW3550C	Soil Prep Sonication: PAH	02/03/17 09:56 AM	79031
	INC-SB67-010	01/25/17 01:30 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	02/01/17 09:54 AM	78989
1701264-06A	INC-SB67-023	01/25/17 01:35 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/31/17 08:18 AM	78963
	INC-SB67-023	01/25/17 01:35 PM	Soil	D2216	Moisture Preparation	01/30/17 01:07 PM	78956
	INC-SB67-023	01/25/17 01:35 PM	Soil	SW3550C	Soil Prep Sonication: PAH	02/03/17 09:56 AM	79031
	INC-SB67-023	01/25/17 01:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	02/01/17 09:54 AM	78989
1701264-07A	INC-SB63-010	01/25/17 03:35 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/31/17 08:18 AM	78963
	INC-SB63-010	01/25/17 03:35 PM	Soil	D2216	Moisture Preparation	01/30/17 01:07 PM	78956
	INC-SB63-010	01/25/17 03:35 PM	Soil	SW3550C	Soil Prep Sonication: PAH	02/03/17 09:56 AM	79031
	INC-SB63-010	01/25/17 03:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	02/01/17 09:54 AM	78989
1701264-08A	INC-SB63-015	01/25/17 03:50 PM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	02/01/17 08:11 AM	78981

Lab Order: 1701264
Client: AECOM
Project: GLO/City of Galveston

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1701264-08A	INC-SB63-015	01/25/17 03:50 PM	Equip Blank	SW7470A	Mercury Aq Prep, Total	01/31/17 11:43 AM	78975
1701264-08B	INC-SB63-015	01/25/17 03:50 PM	Equip Blank	SW3510C	Aq Prep Sep Funnel: PAH	02/01/17 12:41 PM	78987
1701264-09A	INC-SB61-010	01/25/17 04:35 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/31/17 08:18 AM	78963
	INC-SB61-010	01/25/17 04:35 PM	Soil	D2216	Moisture Preparation	01/30/17 01:07 PM	78956
	INC-SB61-010	01/25/17 04:35 PM	Soil	SW3550C	Soil Prep Sonication: PAH	02/03/17 09:56 AM	79031
	INC-SB61-010	01/25/17 04:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	02/01/17 09:54 AM	78989
1701264-10A	INC-TB01-017	01/26/17 09:00 AM	Trip Blank	SW5030C	Purge and Trap Water GC/MS	01/28/17 09:00 AM	78941
1701264-11A	INC-SB57-010	01/26/17 09:15 AM	Soil	SW5035A	Purge and Trap 5035	02/03/17 08:30 AM	79018
1701264-11B	INC-SB57-010	01/26/17 09:15 AM	Soil	TX1005	TX1005 Soil Prep	01/30/17 09:38 AM	78952
1701264-11C	INC-SB57-010	01/26/17 09:15 AM	Soil	SW7471B	Mercury Soil Prep, Total	01/31/17 08:18 AM	78963
	INC-SB57-010	01/26/17 09:15 AM	Soil	D2216	Moisture Preparation	01/30/17 01:07 PM	78956
	INC-SB57-010	01/26/17 09:15 AM	Soil	SW3550C	Soil Prep Sonication: PAH	02/03/17 09:56 AM	79031
	INC-SB57-010	01/26/17 09:15 AM	Soil	SW3550C	Soil Prep Sonication: PCB	01/30/17 01:30 PM	78945
	INC-SB57-010	01/26/17 09:15 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	02/01/17 09:54 AM	78989
	INC-SB57-010	01/26/17 09:15 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	02/01/17 09:54 AM	78989
1701264-12A	INC-SB57-020	01/26/17 09:20 AM	Soil	SW5035A	Purge and Trap 5035	02/03/17 08:30 AM	79018
1701264-12B	INC-SB57-020	01/26/17 09:20 AM	Soil	TX1005	TX1005 Soil Prep	01/30/17 09:38 AM	78952
1701264-12C	INC-SB57-020	01/26/17 09:20 AM	Soil	SW7471B	Mercury Soil Prep, Total	01/31/17 08:18 AM	78963
	INC-SB57-020	01/26/17 09:20 AM	Soil	SW7471B	Mercury Soil Prep, Total	01/31/17 08:18 AM	78963
	INC-SB57-020	01/26/17 09:20 AM	Soil	D2216	Moisture Preparation	02/01/17 01:18 PM	78993
	INC-SB57-020	01/26/17 09:20 AM	Soil	SW3550C	Soil Prep Sonication: PAH	02/03/17 09:56 AM	79031
	INC-SB57-020	01/26/17 09:20 AM	Soil	SW3550C	Soil Prep Sonication: PCB	01/30/17 01:30 PM	78945
	INC-SB57-020	01/26/17 09:20 AM	Soil	SW3550C	Soil Prep Sonication: PCB	01/30/17 01:30 PM	78945
	INC-SB57-020	01/26/17 09:20 AM	Soil	SW3550C	Soil Prep Sonication: PCB	01/30/17 01:30 PM	78945
	INC-SB57-020	01/26/17 09:20 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	02/01/17 09:54 AM	78989
	INC-SB57-020	01/26/17 09:20 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	02/01/17 09:54 AM	78989
1701264-13A	INC-SB64-010	01/26/17 01:55 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/31/17 08:18 AM	78963
	INC-SB64-010	01/26/17 01:55 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/31/17 08:18 AM	78963

Lab Order: 1701264
Client: AECOM
Project: GLO/City of Galveston

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1701264-13A	INC-SB64-010	01/26/17 01:55 PM	Soil	D2216	Moisture Preparation	02/01/17 01:18 PM	78993
	INC-SB64-010	01/26/17 01:55 PM	Soil	SW3550C	Soil Prep Sonication: PAH	02/03/17 09:56 AM	79031
	INC-SB64-010	01/26/17 01:55 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	02/01/17 09:54 AM	78989
	INC-SB64-010	01/26/17 01:55 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	02/01/17 09:54 AM	78989
1701264-14A	INC-SB64-011	01/26/17 01:55 PM	Soil	SW7471B	Mercury Soil Prep, Total	01/31/17 08:18 AM	78963
	INC-SB64-011	01/26/17 01:55 PM	Soil	D2216	Moisture Preparation	02/01/17 01:18 PM	78993
	INC-SB64-011	01/26/17 01:55 PM	Soil	SW3550C	Soil Prep Sonication: PAH	02/03/17 09:56 AM	79031
	INC-SB64-011	01/26/17 01:55 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	02/01/17 09:54 AM	78989
	INC-SB64-011	01/26/17 01:55 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	02/01/17 09:54 AM	78989
1701264-15A	INC-SB69-010	01/26/17 02:50 PM	Soil	SW5035A	Purge and Trap 5035	02/03/17 08:30 AM	79018
1701264-15B	INC-SB69-010	01/26/17 02:50 PM	Soil	D2216	Moisture Preparation	02/01/17 01:18 PM	78993
	INC-SB69-010	01/26/17 02:50 PM	Soil	TX1005	TX1005 Soil Prep	01/30/17 09:38 AM	78952
	INC-SB69-010	01/26/17 02:50 PM	Soil	TX1005	TX1005 Soil Prep	01/30/17 09:38 AM	78952
1701264-16A	INC-SB70-010	01/26/17 02:55 PM	Soil	SW5035A	Purge and Trap 5035	02/03/17 08:30 AM	79018
1701264-16B	INC-SB70-010	01/26/17 02:55 PM	Soil	D2216	Moisture Preparation	02/01/17 01:18 PM	78993
	INC-SB70-010	01/26/17 02:55 PM	Soil	TX1005	TX1005 Soil Prep	01/30/17 09:38 AM	78952
	INC-SB70-010	01/26/17 02:55 PM	Soil	TX1005	TX1005 Soil Prep	01/30/17 09:38 AM	78952

Lab Order: 1701264
Client: AECOM
Project: GLO/City of Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1701264-01A	INC-SB66-010	Soil	SW8270D-LL	PAHs: GC/MS	79031	5	02/03/17 09:16 PM	GCMS6_170203A
	INC-SB66-010	Soil	D2216	Percent Moisture	78938	1	01/30/17 08:05 AM	PMOIST_170127A
	INC-SB66-010	Soil	SW7471B	Total Mercury: Soil/Solid	78963	1	02/01/17 12:42 PM	CETAC2_HG_170201D
	INC-SB66-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78989	5	02/02/17 10:41 AM	ICP-MS4_170202A
1701264-02A	INC-SB66-020	Soil	SW8270D-LL	PAHs: GC/MS	79031	5	02/03/17 10:15 PM	GCMS6_170203A
	INC-SB66-020	Soil	D2216	Percent Moisture	78938	1	01/30/17 08:05 AM	PMOIST_170127A
	INC-SB66-020	Soil	SW7471B	Total Mercury: Soil/Solid	78963	1	02/01/17 12:44 PM	CETAC2_HG_170201D
	INC-SB66-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78989	5	02/02/17 10:43 AM	ICP-MS4_170202A
1701264-03A	INC-SB66-015	Equip Blank	SW7470A	Mercury Total: Aqueous	78975	1	02/01/17 11:46 AM	CETAC2_HG_170201C
	INC-SB66-015	Equip Blank	SW6020A	Trace Metals: ICP-MS - Water	78981	1	02/02/17 11:18 AM	ICP-MS5_170202A
1701264-03B	INC-SB66-015	Equip Blank	SW8270D-LL	PAHs: GC/MS	78987	1	02/01/17 07:56 PM	GCMS6_170201B
1701264-04A	INC-SB66-021	Soil	SW8270D-LL	PAHs: GC/MS	79031	5	02/03/17 10:44 PM	GCMS6_170203A
	INC-SB66-021	Soil	D2216	Percent Moisture	78938	1	01/30/17 08:05 AM	PMOIST_170127A
	INC-SB66-021	Soil	SW7471B	Total Mercury: Soil/Solid	78963	1	02/01/17 12:47 PM	CETAC2_HG_170201D
	INC-SB66-021	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78989	5	02/02/17 10:45 AM	ICP-MS4_170202A
1701264-05A	INC-SB67-010	Soil	SW8270D-LL	PAHs: GC/MS	79031	5	02/03/17 09:45 PM	GCMS6_170203A
	INC-SB67-010	Soil	D2216	Percent Moisture	78938	1	01/30/17 08:05 AM	PMOIST_170127A
	INC-SB67-010	Soil	SW7471B	Total Mercury: Soil/Solid	78963	1	02/01/17 12:49 PM	CETAC2_HG_170201D
	INC-SB67-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78989	5	02/02/17 10:47 AM	ICP-MS4_170202A
1701264-06A	INC-SB67-023	Soil	SW8270D-LL	PAHs: GC/MS	79031	5	02/03/17 07:47 PM	GCMS6_170203A
	INC-SB67-023	Soil	D2216	Percent Moisture	78956	1	01/31/17 08:10 AM	PMOIST_170130A
	INC-SB67-023	Soil	SW7471B	Total Mercury: Soil/Solid	78963	1	02/01/17 12:51 PM	CETAC2_HG_170201D
	INC-SB67-023	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78989	5	02/02/17 10:37 AM	ICP-MS4_170202A
1701264-07A	INC-SB63-010	Soil	SW8270D-LL	PAHs: GC/MS	79031	5	02/03/17 08:16 PM	GCMS6_170203A
	INC-SB63-010	Soil	D2216	Percent Moisture	78956	1	01/31/17 08:10 AM	PMOIST_170130A

Lab Order: 1701264
Client: AECOM
Project: GLO/City of Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1701264-07A	INC-SB63-010	Soil	SW7471B	Total Mercury: Soil/Solid	78963	1	02/01/17 01:07 PM	CETAC2_HG_170201D
	INC-SB63-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78989	5	02/02/17 10:49 AM	ICP-MS4_170202A
1701264-08A	INC-SB63-015	Equip Blank	SW7470A	Mercury Total: Aqueous	78975	1	02/01/17 11:48 AM	CETAC2_HG_170201C
	INC-SB63-015	Equip Blank	SW6020A	Trace Metals: ICP-MS - Water	78981	1	02/02/17 11:20 AM	ICP-MS5_170202A
1701264-08B	INC-SB63-015	Equip Blank	SW8270D-LL	PAHs: GC/MS	78987	1	02/01/17 08:25 PM	GCMS6_170201B
1701264-09A	INC-SB61-010	Soil	SW8270D-LL	PAHs: GC/MS	79031	1	02/03/17 06:18 PM	GCMS6_170203A
	INC-SB61-010	Soil	D2216	Percent Moisture	78956	1	01/31/17 08:10 AM	PMOIST_170130A
	INC-SB61-010	Soil	SW7471B	Total Mercury: Soil/Solid	78963	1	02/01/17 01:09 PM	CETAC2_HG_170201D
	INC-SB61-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78989	5	02/02/17 10:51 AM	ICP-MS4_170202A
1701264-10A	INC-TB01-017	Trip Blank	SW8260C	8260 Water Volatiles by GC/MS	78941	1	01/28/17 05:14 PM	GCMS7_170128A
1701264-11A	INC-SB57-010	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	79018	1	02/03/17 01:42 PM	GCMS2_170203B
1701264-11B	INC-SB57-010	Soil	TX1005	Tx1005 TPH Soil	78952	1	01/31/17 10:59 AM	GC12_170131A
1701264-11C	INC-SB57-010	Soil	SW8270D-LL	PAHs: GC/MS	79031	5	02/03/17 08:46 PM	GCMS6_170203A
	INC-SB57-010	Soil	SW8082A	PCB by GC - Soil/Solid	78945	1	02/03/17 03:30 AM	GC16_170202C
	INC-SB57-010	Soil	D2216	Percent Moisture	78956	1	01/31/17 08:10 AM	PMOIST_170130A
	INC-SB57-010	Soil	SW7471B	Total Mercury: Soil/Solid	78963	1	02/01/17 01:12 PM	CETAC2_HG_170201D
	INC-SB57-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78989	5	02/02/17 10:53 AM	ICP-MS4_170202A
	INC-SB57-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78989	50	02/02/17 11:41 AM	ICP-MS4_170202A
1701264-12A	INC-SB57-020	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	79018	1	02/03/17 02:10 PM	GCMS2_170203B
1701264-12B	INC-SB57-020	Soil	TX1005	Tx1005 TPH Soil	78952	100	01/31/17 11:08 AM	GC12_170131A
1701264-12C	INC-SB57-020	Soil	SW8270D-LL	PAHs: GC/MS	79031	5	02/03/17 11:14 PM	GCMS6_170203A
	INC-SB57-020	Soil	SW8082A	PCB by GC - Soil/Solid	78945	1	02/01/17 01:16 PM	GC16_170131A
	INC-SB57-020	Soil	SW8082A	PCB by GC - Soil/Solid	78945	1	02/03/17 03:56 AM	GC16_170202C
	INC-SB57-020	Soil	SW8082A	PCB by GC - Soil/Solid	78945	1	01/31/17 08:41 PM	GC16_170131A
	INC-SB57-020	Soil	D2216	Percent Moisture	78993	1	02/02/17 08:15 AM	PMOIST_170201A
	INC-SB57-020	Soil	SW7471B	Total Mercury: Soil/Solid	78963	1	02/01/17 01:14 PM	CETAC2_HG_170201D

Lab Order: 1701264
Client: AECOM
Project: GLO/City of Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1701264-12C	INC-SB57-020	Soil	SW7471B	Total Mercury: Soil/Solid	78963	5	02/01/17 02:05 PM	CETAC2_HG_170201D
	INC-SB57-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78989	500	02/02/17 11:43 AM	ICP-MS4_170202A
	INC-SB57-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78989	5	02/02/17 10:55 AM	ICP-MS4_170202A
1701264-13A	INC-SB64-010	Soil	SW8270D-LL	PAHs: GC/MS	79031	5	02/03/17 06:47 PM	GCMS6_170203A
	INC-SB64-010	Soil	D2216	Percent Moisture	78993	1	02/02/17 08:15 AM	PMOIST_170201A
	INC-SB64-010	Soil	SW7471B	Total Mercury: Soil/Solid	78963	1	02/01/17 01:16 PM	CETAC2_HG_170201D
	INC-SB64-010	Soil	SW7471B	Total Mercury: Soil/Solid	78963	5	02/01/17 02:07 PM	CETAC2_HG_170201D
	INC-SB64-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78989	5	02/02/17 10:57 AM	ICP-MS4_170202A
	INC-SB64-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78989	50	02/02/17 11:46 AM	ICP-MS4_170202A
1701264-14A	INC-SB64-011	Soil	SW8270D-LL	PAHs: GC/MS	79031	5	02/03/17 07:17 PM	GCMS6_170203A
	INC-SB64-011	Soil	D2216	Percent Moisture	78993	1	02/02/17 08:15 AM	PMOIST_170201A
	INC-SB64-011	Soil	SW7471B	Total Mercury: Soil/Solid	78963	1	02/01/17 01:19 PM	CETAC2_HG_170201D
	INC-SB64-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78989	50	02/02/17 11:48 AM	ICP-MS4_170202A
	INC-SB64-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	78989	5	02/02/17 11:50 AM	ICP-MS4_170202A
1701264-15A	INC-SB69-010	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	79018	1	02/03/17 02:39 PM	GCMS2_170203B
1701264-15B	INC-SB69-010	Soil	D2216	Percent Moisture	78993	1	02/02/17 08:15 AM	PMOIST_170201A
	INC-SB69-010	Soil	TX1005	Tx1005 TPH Soil	78952	1	01/31/17 11:17 AM	GC12_170131A
	INC-SB69-010	Soil	TX1005	Tx1005 TPH Soil	78952	1	01/31/17 12:56 PM	GC12_170131A
1701264-16A	INC-SB70-010	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	79018	1	02/03/17 03:08 PM	GCMS2_170203B
1701264-16B	INC-SB70-010	Soil	D2216	Percent Moisture	78993	1	02/02/17 08:15 AM	PMOIST_170201A
	INC-SB70-010	Soil	TX1005	Tx1005 TPH Soil	78952	1	01/31/17 01:05 PM	GC12_170131A
	INC-SB70-010	Soil	TX1005	Tx1005 TPH Soil	78952	1	01/31/17 11:26 AM	GC12_170131A

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB66-010
Project:	GLO/City of Galveston	**Lab ID:**	1701264-01
Project No:	60420789.3301	**Collection Date:**	01/25/17 09:50 AM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	0.651	0.545	1.09	J	mg/Kg-dry	5	02/02/17 10:41 AM
Arsenic	3.50	0.545	1.09		mg/Kg-dry	5	02/02/17 10:41 AM
Barium	535	0.545	2.18		mg/Kg-dry	5	02/02/17 10:41 AM
Beryllium	0.172	0.109	0.327	J	mg/Kg-dry	5	02/02/17 10:41 AM
Cadmium	0.577	0.109	0.327		mg/Kg-dry	5	02/02/17 10:41 AM
Chromium	12.3	0.545	2.18		mg/Kg-dry	5	02/02/17 10:41 AM
Lead	117	0.109	0.327		mg/Kg-dry	5	02/02/17 10:41 AM
Nickel	7.38	0.545	2.18		mg/Kg-dry	5	02/02/17 10:41 AM
Selenium	0.728	0.164	0.545		mg/Kg-dry	5	02/02/17 10:41 AM
Silver	<0.109	0.109	0.218		mg/Kg-dry	5	02/02/17 10:41 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0832	0.0154	0.0385		mg/Kg-dry	1	02/01/17 12:42 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.156	0.0264	0.0527		mg/Kg-dry	5	02/03/17 09:16 PM
Acenaphthylene	0.162	0.0264	0.0527		mg/Kg-dry	5	02/03/17 09:16 PM
Anthracene	0.501	0.0264	0.0527		mg/Kg-dry	5	02/03/17 09:16 PM
Benzo[a]anthracene	1.73	0.0264	0.0527		mg/Kg-dry	5	02/03/17 09:16 PM
Benzo[a]pyrene	1.81	0.0264	0.0527		mg/Kg-dry	5	02/03/17 09:16 PM
Benzo[b]fluoranthene	1.53	0.0264	0.0527		mg/Kg-dry	5	02/03/17 09:16 PM
Benzo[g,h,i]perylene	1.33	0.0264	0.0527		mg/Kg-dry	5	02/03/17 09:16 PM
Benzo[k]fluoranthene	0.828	0.0264	0.0527		mg/Kg-dry	5	02/03/17 09:16 PM
Chrysene	1.94	0.0264	0.0527		mg/Kg-dry	5	02/03/17 09:16 PM
Dibenz[a,h]anthracene	0.254	0.0264	0.0527		mg/Kg-dry	5	02/03/17 09:16 PM
Fluoranthene	3.30	0.0264	0.0527		mg/Kg-dry	5	02/03/17 09:16 PM
Fluorene	0.191	0.0264	0.0527		mg/Kg-dry	5	02/03/17 09:16 PM
Indeno[1,2,3-cd]pyrene	1.26	0.0264	0.0527		mg/Kg-dry	5	02/03/17 09:16 PM
Naphthalene	0.0822	0.0264	0.0527		mg/Kg-dry	5	02/03/17 09:16 PM
Phenanthrene	2.15	0.0264	0.0527		mg/Kg-dry	5	02/03/17 09:16 PM
Pyrene	2.71	0.0264	0.0527		mg/Kg-dry	5	02/03/17 09:16 PM
Surr: 2-Fluorobiphenyl	76.3	0	43-125		%REC	5	02/03/17 09:16 PM
Surr: 4-Terphenyl-d14	71.9	0	32-125		%REC	5	02/03/17 09:16 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	12.7	0	0		WT%	1	01/30/17 08:05 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB66-020
Project:	GLO/City of Galveston	**Lab ID:**	1701264-02
Project No:	60420789.3301	**Collection Date:**	01/25/17 09:55 AM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	<0.522	0.522	1.04		mg/Kg-dry	5	02/02/17 10:43 AM
Arsenic	3.12	0.522	1.04		mg/Kg-dry	5	02/02/17 10:43 AM
Barium	86.0	0.522	2.09		mg/Kg-dry	5	02/02/17 10:43 AM
Beryllium	0.162	0.104	0.313	J	mg/Kg-dry	5	02/02/17 10:43 AM
Cadmium	0.206	0.104	0.313	J	mg/Kg-dry	5	02/02/17 10:43 AM
Chromium	6.37	0.522	2.09		mg/Kg-dry	5	02/02/17 10:43 AM
Lead	47.3	0.104	0.313		mg/Kg-dry	5	02/02/17 10:43 AM
Nickel	4.80	0.522	2.09		mg/Kg-dry	5	02/02/17 10:43 AM
Selenium	0.650	0.157	0.522		mg/Kg-dry	5	02/02/17 10:43 AM
Silver	<0.104	0.104	0.209		mg/Kg-dry	5	02/02/17 10:43 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0710	0.0171	0.0427		mg/Kg-dry	1	02/01/17 12:44 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0273	0.0273	0.0547		mg/Kg-dry	5	02/03/17 10:15 PM
Acenaphthylene	0.0757	0.0273	0.0547		mg/Kg-dry	5	02/03/17 10:15 PM
Anthracene	0.0752	0.0273	0.0547		mg/Kg-dry	5	02/03/17 10:15 PM
Benzo[a]anthracene	0.269	0.0273	0.0547		mg/Kg-dry	5	02/03/17 10:15 PM
Benzo[a]pyrene	0.341	0.0273	0.0547		mg/Kg-dry	5	02/03/17 10:15 PM
Benzo[b]fluoranthene	0.306	0.0273	0.0547		mg/Kg-dry	5	02/03/17 10:15 PM
Benzo[g,h,i]perylene	0.309	0.0273	0.0547		mg/Kg-dry	5	02/03/17 10:15 PM
Benzo[k]fluoranthene	0.159	0.0273	0.0547		mg/Kg-dry	5	02/03/17 10:15 PM
Chrysene	0.324	0.0273	0.0547		mg/Kg-dry	5	02/03/17 10:15 PM
Dibenz[a,h]anthracene	0.0720	0.0273	0.0547		mg/Kg-dry	5	02/03/17 10:15 PM
Fluoranthene	0.491	0.0273	0.0547		mg/Kg-dry	5	02/03/17 10:15 PM
Fluorene	0.0334	0.0273	0.0547	J	mg/Kg-dry	5	02/03/17 10:15 PM
Indeno[1,2,3-cd]pyrene	0.267	0.0273	0.0547		mg/Kg-dry	5	02/03/17 10:15 PM
Naphthalene	<0.0273	0.0273	0.0547		mg/Kg-dry	5	02/03/17 10:15 PM
Phenanthrene	0.220	0.0273	0.0547		mg/Kg-dry	5	02/03/17 10:15 PM
Pyrene	0.419	0.0273	0.0547		mg/Kg-dry	5	02/03/17 10:15 PM
Surr: 2-Fluorobiphenyl	77.5	0	43-125		%REC	5	02/03/17 10:15 PM
Surr: 4-Terphenyl-d14	74.4	0	32-125		%REC	5	02/03/17 10:15 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	10.4	0	0		WT%	1	01/30/17 08:05 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB66-015
Project:	GLO/City of Galveston	**Lab ID:**	1701264-03
Project No:	60420789.3301	**Collection Date:**	01/25/17 10:05 AM
Lab Order:	1701264	**Matrix:**	EQUIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	02/02/17 11:18 AM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	02/02/17 11:18 AM
Barium	<0.00300	0.00300	0.0100		mg/L	1	02/02/17 11:18 AM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	02/02/17 11:18 AM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	02/02/17 11:18 AM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	02/02/17 11:18 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	02/02/17 11:18 AM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	02/02/17 11:18 AM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	02/02/17 11:18 AM
Silver	<0.00100	0.00100	0.00200		mg/L	1	02/02/17 11:18 AM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **AH**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	02/01/17 11:46 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0000244	0.0000244	0.0000489		mg/L	1	02/01/17 07:56 PM
Acenaphthylene	<0.0000244	0.0000244	0.0000489		mg/L	1	02/01/17 07:56 PM
Anthracene	<0.0000244	0.0000244	0.0000489		mg/L	1	02/01/17 07:56 PM
Benzo[a]anthracene	<0.0000244	0.0000244	0.0000489		mg/L	1	02/01/17 07:56 PM
Benzo[a]pyrene	<0.0000244	0.0000244	0.0000489		mg/L	1	02/01/17 07:56 PM
Benzo[b]fluoranthene	<0.0000244	0.0000244	0.0000489		mg/L	1	02/01/17 07:56 PM
Benzo[g,h,i]perylene	<0.0000244	0.0000244	0.0000489		mg/L	1	02/01/17 07:56 PM
Benzo[k]fluoranthene	<0.0000244	0.0000244	0.0000489		mg/L	1	02/01/17 07:56 PM
Chrysene	<0.0000244	0.0000244	0.0000489		mg/L	1	02/01/17 07:56 PM
Dibenz[a,h]anthracene	<0.0000244	0.0000244	0.0000489		mg/L	1	02/01/17 07:56 PM
Fluoranthene	<0.0000244	0.0000244	0.0000489		mg/L	1	02/01/17 07:56 PM
Fluorene	<0.0000244	0.0000244	0.0000489		mg/L	1	02/01/17 07:56 PM
Indeno[1,2,3-cd]pyrene	<0.0000244	0.0000244	0.0000489		mg/L	1	02/01/17 07:56 PM
Naphthalene	<0.0000244	0.0000244	0.0000489		mg/L	1	02/01/17 07:56 PM
Phenanthrene	<0.0000244	0.0000244	0.0000489		mg/L	1	02/01/17 07:56 PM
Pyrene	<0.0000244	0.0000244	0.0000489		mg/L	1	02/01/17 07:56 PM
Surr: 2-Fluorobiphenyl	56.8	0	48-120		%REC	1	02/01/17 07:56 PM
Surr: 4-Terphenyl-d14	68.0	0	51-135		%REC	1	02/01/17 07:56 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB66-021
Project:	GLO/City of Galveston	**Lab ID:**	1701264-04
Project No:	60420789.3301	**Collection Date:**	01/25/17 09:55 AM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	<0.552	0.552	1.10		mg/Kg-dry	5	02/02/17 10:45 AM
Arsenic	3.03	0.552	1.10		mg/Kg-dry	5	02/02/17 10:45 AM
Barium	89.2	0.552	2.21		mg/Kg-dry	5	02/02/17 10:45 AM
Beryllium	0.148	0.110	0.331	J	mg/Kg-dry	5	02/02/17 10:45 AM
Cadmium	0.213	0.110	0.331	J	mg/Kg-dry	5	02/02/17 10:45 AM
Chromium	6.63	0.552	2.21		mg/Kg-dry	5	02/02/17 10:45 AM
Lead	50.7	0.110	0.331		mg/Kg-dry	5	02/02/17 10:45 AM
Nickel	4.75	0.552	2.21		mg/Kg-dry	5	02/02/17 10:45 AM
Selenium	0.661	0.166	0.552		mg/Kg-dry	5	02/02/17 10:45 AM
Silver	<0.110	0.110	0.221		mg/Kg-dry	5	02/02/17 10:45 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0559	0.0167	0.0418		mg/Kg-dry	1	02/01/17 12:47 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0274	0.0274	0.0548		mg/Kg-dry	5	02/03/17 10:44 PM
Acenaphthylene	0.0765	0.0274	0.0548		mg/Kg-dry	5	02/03/17 10:44 PM
Anthracene	0.0896	0.0274	0.0548		mg/Kg-dry	5	02/03/17 10:44 PM
Benzo[a]anthracene	0.262	0.0274	0.0548		mg/Kg-dry	5	02/03/17 10:44 PM
Benzo[a]pyrene	0.331	0.0274	0.0548		mg/Kg-dry	5	02/03/17 10:44 PM
Benzo[b]fluoranthene	0.282	0.0274	0.0548		mg/Kg-dry	5	02/03/17 10:44 PM
Benzo[g,h,i]perylene	0.294	0.0274	0.0548		mg/Kg-dry	5	02/03/17 10:44 PM
Benzo[k]fluoranthene	0.153	0.0274	0.0548		mg/Kg-dry	5	02/03/17 10:44 PM
Chrysene	0.315	0.0274	0.0548		mg/Kg-dry	5	02/03/17 10:44 PM
Dibenz[a,h]anthracene	0.0540	0.0274	0.0548	J	mg/Kg-dry	5	02/03/17 10:44 PM
Fluoranthene	0.499	0.0274	0.0548		mg/Kg-dry	5	02/03/17 10:44 PM
Fluorene	0.0343	0.0274	0.0548	J	mg/Kg-dry	5	02/03/17 10:44 PM
Indeno[1,2,3-cd]pyrene	0.252	0.0274	0.0548		mg/Kg-dry	5	02/03/17 10:44 PM
Naphthalene	<0.0274	0.0274	0.0548		mg/Kg-dry	5	02/03/17 10:44 PM
Phenanthrene	0.258	0.0274	0.0548		mg/Kg-dry	5	02/03/17 10:44 PM
Pyrene	0.457	0.0274	0.0548		mg/Kg-dry	5	02/03/17 10:44 PM
Surr: 2-Fluorobiphenyl	69.0	0	43-125		%REC	5	02/03/17 10:44 PM
Surr: 4-Terphenyl-d14	66.8	0	32-125		%REC	5	02/03/17 10:44 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	11.2	0	0		WT%	1	01/30/17 08:05 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB67-010
Project:	GLO/City of Galveston	**Lab ID:**	1701264-05
Project No:	60420789.3301	**Collection Date:**	01/25/17 01:30 PM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	<0.542	0.542	1.08		mg/Kg-dry	5	02/02/17 10:47 AM
Arsenic	2.39	0.542	1.08		mg/Kg-dry	5	02/02/17 10:47 AM
Barium	99.8	0.542	2.17		mg/Kg-dry	5	02/02/17 10:47 AM
Beryllium	0.110	0.108	0.325	J	mg/Kg-dry	5	02/02/17 10:47 AM
Cadmium	0.173	0.108	0.325	J	mg/Kg-dry	5	02/02/17 10:47 AM
Chromium	13.5	0.542	2.17		mg/Kg-dry	5	02/02/17 10:47 AM
Lead	35.7	0.108	0.325		mg/Kg-dry	5	02/02/17 10:47 AM
Nickel	15.5	0.542	2.17		mg/Kg-dry	5	02/02/17 10:47 AM
Selenium	0.501	0.163	0.542	J	mg/Kg-dry	5	02/02/17 10:47 AM
Silver	<0.108	0.108	0.217		mg/Kg-dry	5	02/02/17 10:47 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0340	0.0172	0.0429	J	mg/Kg-dry	1	02/01/17 12:49 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0270	0.0270	0.0541		mg/Kg-dry	5	02/03/17 09:45 PM
Acenaphthylene	0.0485	0.0270	0.0541	J	mg/Kg-dry	5	02/03/17 09:45 PM
Anthracene	0.0552	0.0270	0.0541		mg/Kg-dry	5	02/03/17 09:45 PM
Benzo[a]anthracene	0.0906	0.0270	0.0541		mg/Kg-dry	5	02/03/17 09:45 PM
Benzo[a]pyrene	0.184	0.0270	0.0541		mg/Kg-dry	5	02/03/17 09:45 PM
Benzo[b]fluoranthene	0.192	0.0270	0.0541		mg/Kg-dry	5	02/03/17 09:45 PM
Benzo[g,h,i]perylene	0.347	0.0270	0.0541		mg/Kg-dry	5	02/03/17 09:45 PM
Benzo[k]fluoranthene	0.0633	0.0270	0.0541		mg/Kg-dry	5	02/03/17 09:45 PM
Chrysene	0.288	0.0270	0.0541		mg/Kg-dry	5	02/03/17 09:45 PM
Dibenz[a,h]anthracene	0.0339	0.0270	0.0541	J	mg/Kg-dry	5	02/03/17 09:45 PM
Fluoranthene	0.133	0.0270	0.0541		mg/Kg-dry	5	02/03/17 09:45 PM
Fluorene	0.0325	0.0270	0.0541	J	mg/Kg-dry	5	02/03/17 09:45 PM
Indeno[1,2,3-cd]pyrene	0.155	0.0270	0.0541		mg/Kg-dry	5	02/03/17 09:45 PM
Naphthalene	0.0603	0.0270	0.0541		mg/Kg-dry	5	02/03/17 09:45 PM
Phenanthrene	0.0581	0.0270	0.0541		mg/Kg-dry	5	02/03/17 09:45 PM
Pyrene	0.388	0.0270	0.0541		mg/Kg-dry	5	02/03/17 09:45 PM
Surr: 2-Fluorobiphenyl	77.4	0	43-125		%REC	5	02/03/17 09:45 PM
Surr: 4-Terphenyl-d14	70.7	0	32-125		%REC	5	02/03/17 09:45 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	10.4	0	0		WT%	1	01/30/17 08:05 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB67-023
Project:	GLO/City of Galveston	**Lab ID:**	1701264-06
Project No:	60420789.3301	**Collection Date:**	01/25/17 01:35 PM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	1.10	0.556	1.11	J	mg/Kg-dry	5	02/02/17 10:37 AM
Arsenic	4.55	0.556	1.11		mg/Kg-dry	5	02/02/17 10:37 AM
Barium	200	0.556	2.22		mg/Kg-dry	5	02/02/17 10:37 AM
Beryllium	0.201	0.111	0.333	J	mg/Kg-dry	5	02/02/17 10:37 AM
Cadmium	1.02	0.111	0.333		mg/Kg-dry	5	02/02/17 10:37 AM
Chromium	10.8	0.556	2.22		mg/Kg-dry	5	02/02/17 10:37 AM
Lead	207	0.111	0.333		mg/Kg-dry	5	02/02/17 10:37 AM
Nickel	8.03	0.556	2.22		mg/Kg-dry	5	02/02/17 10:37 AM
Selenium	0.919	0.167	0.556		mg/Kg-dry	5	02/02/17 10:37 AM
Silver	0.144	0.111	0.222	J	mg/Kg-dry	5	02/02/17 10:37 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.111	0.0175	0.0439		mg/Kg-dry	1	02/01/17 12:51 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.431	0.0282	0.0565		mg/Kg-dry	5	02/03/17 07:47 PM
Acenaphthylene	0.276	0.0282	0.0565		mg/Kg-dry	5	02/03/17 07:47 PM
Anthracene	1.26	0.0282	0.0565		mg/Kg-dry	5	02/03/17 07:47 PM
Benzo[a]anthracene	3.40	0.0282	0.0565		mg/Kg-dry	5	02/03/17 07:47 PM
Benzo[a]pyrene	3.04	0.0282	0.0565		mg/Kg-dry	5	02/03/17 07:47 PM
Benzo[b]fluoranthene	2.66	0.0282	0.0565		mg/Kg-dry	5	02/03/17 07:47 PM
Benzo[g,h,i]perylene	1.93	0.0282	0.0565		mg/Kg-dry	5	02/03/17 07:47 PM
Benzo[k]fluoranthene	1.48	0.0282	0.0565		mg/Kg-dry	5	02/03/17 07:47 PM
Chrysene	3.48	0.0282	0.0565		mg/Kg-dry	5	02/03/17 07:47 PM
Dibenz[a,h]anthracene	0.538	0.0282	0.0565		mg/Kg-dry	5	02/03/17 07:47 PM
Fluoranthene	7.84	0.0282	0.0565		mg/Kg-dry	5	02/03/17 07:47 PM
Fluorene	0.639	0.0282	0.0565		mg/Kg-dry	5	02/03/17 07:47 PM
Indeno[1,2,3-cd]pyrene	2.06	0.0282	0.0565		mg/Kg-dry	5	02/03/17 07:47 PM
Naphthalene	0.108	0.0282	0.0565		mg/Kg-dry	5	02/03/17 07:47 PM
Phenanthrene	6.01	0.0282	0.0565		mg/Kg-dry	5	02/03/17 07:47 PM
Pyrene	5.86	0.0282	0.0565		mg/Kg-dry	5	02/03/17 07:47 PM
Surr: 2-Fluorobiphenyl	69.5	0	43-125		%REC	5	02/03/17 07:47 PM
Surr: 4-Terphenyl-d14	67.4	0	32-125		%REC	5	02/03/17 07:47 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	12.6	0	0		WT%	1	01/31/17 08:10 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB63-010
Project:	GLO/City of Galveston	**Lab ID:**	1701264-07
Project No:	60420789.3301	**Collection Date:**	01/25/17 03:35 PM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	1.73	0.586	1.17		mg/Kg-dry	5	02/02/17 10:49 AM
Arsenic	6.99	0.586	1.17		mg/Kg-dry	5	02/02/17 10:49 AM
Barium	208	0.586	2.34		mg/Kg-dry	5	02/02/17 10:49 AM
Beryllium	0.124	0.117	0.352	J	mg/Kg-dry	5	02/02/17 10:49 AM
Cadmium	0.794	0.117	0.352		mg/Kg-dry	5	02/02/17 10:49 AM
Chromium	40.5	0.586	2.34		mg/Kg-dry	5	02/02/17 10:49 AM
Lead	137	0.117	0.352		mg/Kg-dry	5	02/02/17 10:49 AM
Nickel	104	0.586	2.34		mg/Kg-dry	5	02/02/17 10:49 AM
Selenium	0.453	0.176	0.586	J	mg/Kg-dry	5	02/02/17 10:49 AM
Silver	<0.117	0.117	0.234		mg/Kg-dry	5	02/02/17 10:49 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0288	0.0192	0.0480	J	mg/Kg-dry	1	02/01/17 01:07 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.0283	0.0253	0.0506	J	mg/Kg-dry	5	02/03/17 08:16 PM
Acenaphthylene	<0.0253	0.0253	0.0506		mg/Kg-dry	5	02/03/17 08:16 PM
Anthracene	0.213	0.0253	0.0506		mg/Kg-dry	5	02/03/17 08:16 PM
Benzo[a]anthracene	1.70	0.0253	0.0506		mg/Kg-dry	5	02/03/17 08:16 PM
Benzo[a]pyrene	1.52	0.0253	0.0506		mg/Kg-dry	5	02/03/17 08:16 PM
Benzo[b]fluoranthene	1.47	0.0253	0.0506		mg/Kg-dry	5	02/03/17 08:16 PM
Benzo[g,h,i]perylene	1.11	0.0253	0.0506		mg/Kg-dry	5	02/03/17 08:16 PM
Benzo[k]fluoranthene	0.778	0.0253	0.0506		mg/Kg-dry	5	02/03/17 08:16 PM
Chrysene	1.83	0.0253	0.0506		mg/Kg-dry	5	02/03/17 08:16 PM
Dibenz[a,h]anthracene	0.288	0.0253	0.0506		mg/Kg-dry	5	02/03/17 08:16 PM
Fluoranthene	3.20	0.0253	0.0506		mg/Kg-dry	5	02/03/17 08:16 PM
Fluorene	<0.0253	0.0253	0.0506		mg/Kg-dry	5	02/03/17 08:16 PM
Indeno[1,2,3-cd]pyrene	1.15	0.0253	0.0506		mg/Kg-dry	5	02/03/17 08:16 PM
Naphthalene	<0.0253	0.0253	0.0506		mg/Kg-dry	5	02/03/17 08:16 PM
Phenanthrene	0.771	0.0253	0.0506		mg/Kg-dry	5	02/03/17 08:16 PM
Pyrene	2.61	0.0253	0.0506		mg/Kg-dry	5	02/03/17 08:16 PM
Surr: 2-Fluorobiphenyl	68.5	0	43-125		%REC	5	02/03/17 08:16 PM
Surr: 4-Terphenyl-d14	66.2	0	32-125		%REC	5	02/03/17 08:16 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	18.0	0	0		WT%	1	01/31/17 08:10 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB63-015
Project:	GLO/City of Galveston	**Lab ID:**	1701264-08
Project No:	60420789.3301	**Collection Date:**	01/25/17 03:50 PM
Lab Order:	1701264	**Matrix:**	EQUIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	02/02/17 11:20 AM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	02/02/17 11:20 AM
Barium	<0.00300	0.00300	0.0100		mg/L	1	02/02/17 11:20 AM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	02/02/17 11:20 AM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	02/02/17 11:20 AM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	02/02/17 11:20 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	02/02/17 11:20 AM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	02/02/17 11:20 AM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	02/02/17 11:20 AM
Silver	<0.00100	0.00100	0.00200		mg/L	1	02/02/17 11:20 AM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **AH**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	02/01/17 11:48 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0000246	0.0000246	0.0000492		mg/L	1	02/01/17 08:25 PM
Acenaphthylene	<0.0000246	0.0000246	0.0000492		mg/L	1	02/01/17 08:25 PM
Anthracene	<0.0000246	0.0000246	0.0000492		mg/L	1	02/01/17 08:25 PM
Benzo[a]anthracene	<0.0000246	0.0000246	0.0000492		mg/L	1	02/01/17 08:25 PM
Benzo[a]pyrene	<0.0000246	0.0000246	0.0000492		mg/L	1	02/01/17 08:25 PM
Benzo[b]fluoranthene	<0.0000246	0.0000246	0.0000492		mg/L	1	02/01/17 08:25 PM
Benzo[g,h,i]perylene	<0.0000246	0.0000246	0.0000492		mg/L	1	02/01/17 08:25 PM
Benzo[k]fluoranthene	<0.0000246	0.0000246	0.0000492		mg/L	1	02/01/17 08:25 PM
Chrysene	<0.0000246	0.0000246	0.0000492		mg/L	1	02/01/17 08:25 PM
Dibenz[a,h]anthracene	<0.0000246	0.0000246	0.0000492		mg/L	1	02/01/17 08:25 PM
Fluoranthene	<0.0000246	0.0000246	0.0000492		mg/L	1	02/01/17 08:25 PM
Fluorene	<0.0000246	0.0000246	0.0000492		mg/L	1	02/01/17 08:25 PM
Indeno[1,2,3-cd]pyrene	<0.0000246	0.0000246	0.0000492		mg/L	1	02/01/17 08:25 PM
Naphthalene	<0.0000246	0.0000246	0.0000492		mg/L	1	02/01/17 08:25 PM
Phenanthrene	<0.0000246	0.0000246	0.0000492		mg/L	1	02/01/17 08:25 PM
Pyrene	<0.0000246	0.0000246	0.0000492		mg/L	1	02/01/17 08:25 PM
Surr: 2-Fluorobiphenyl	56.4	0	48-120		%REC	1	02/01/17 08:25 PM
Surr: 4-Terphenyl-d14	64.4	0	51-135		%REC	1	02/01/17 08:25 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB61-010
Project:	GLO/City of Galveston	**Lab ID:**	1701264-09
Project No:	60420789.3301	**Collection Date:**	01/25/17 04:35 PM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	<0.598	0.598	1.20		mg/Kg-dry	5	02/02/17 10:51 AM
Arsenic	5.67	0.598	1.20		mg/Kg-dry	5	02/02/17 10:51 AM
Barium	54.9	0.598	2.39		mg/Kg-dry	5	02/02/17 10:51 AM
Beryllium	0.190	0.120	0.359	J	mg/Kg-dry	5	02/02/17 10:51 AM
Cadmium	0.236	0.120	0.359	J	mg/Kg-dry	5	02/02/17 10:51 AM
Chromium	5.18	0.598	2.39		mg/Kg-dry	5	02/02/17 10:51 AM
Lead	15.8	0.120	0.359		mg/Kg-dry	5	02/02/17 10:51 AM
Nickel	3.95	0.598	2.39		mg/Kg-dry	5	02/02/17 10:51 AM
Selenium	0.668	0.179	0.598		mg/Kg-dry	5	02/02/17 10:51 AM
Silver	<0.120	0.120	0.239		mg/Kg-dry	5	02/02/17 10:51 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0207	0.0186	0.0465	J	mg/Kg-dry	1	02/01/17 01:09 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.0122	0.00608	0.0122		mg/Kg-dry	1	02/03/17 06:18 PM
Acenaphthylene	<0.00608	0.00608	0.0122		mg/Kg-dry	1	02/03/17 06:18 PM
Anthracene	0.0330	0.00608	0.0122		mg/Kg-dry	1	02/03/17 06:18 PM
Benzo[a]anthracene	0.105	0.00608	0.0122		mg/Kg-dry	1	02/03/17 06:18 PM
Benzo[a]pyrene	0.108	0.00608	0.0122		mg/Kg-dry	1	02/03/17 06:18 PM
Benzo[b]fluoranthene	0.106	0.00608	0.0122		mg/Kg-dry	1	02/03/17 06:18 PM
Benzo[g,h,i]perylene	0.0852	0.00608	0.0122		mg/Kg-dry	1	02/03/17 06:18 PM
Benzo[k]fluoranthene	0.0538	0.00608	0.0122		mg/Kg-dry	1	02/03/17 06:18 PM
Chrysene	0.108	0.00608	0.0122		mg/Kg-dry	1	02/03/17 06:18 PM
Dibenz[a,h]anthracene	0.0198	0.00608	0.0122		mg/Kg-dry	1	02/03/17 06:18 PM
Fluoranthene	0.244	0.00608	0.0122		mg/Kg-dry	1	02/03/17 06:18 PM
Fluorene	0.0109	0.00608	0.0122	J	mg/Kg-dry	1	02/03/17 06:18 PM
Indeno[1,2,3-cd]pyrene	0.0858	0.00608	0.0122		mg/Kg-dry	1	02/03/17 06:18 PM
Naphthalene	<0.00608	0.00608	0.0122		mg/Kg-dry	1	02/03/17 06:18 PM
Phenanthrene	0.124	0.00608	0.0122		mg/Kg-dry	1	02/03/17 06:18 PM
Pyrene	0.179	0.00608	0.0122		mg/Kg-dry	1	02/03/17 06:18 PM
Surr: 2-Fluorobiphenyl	63.9	0	43-125		%REC	1	02/03/17 06:18 PM
Surr: 4-Terphenyl-d14	71.9	0	32-125		%REC	1	02/03/17 06:18 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	21.1	0	0		WT%	1	01/31/17 08:10 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-TB01-017
Project:	GLO/City of Galveston	**Lab ID:**	1701264-10
Project No:	60420789.3301	**Collection Date:**	01/26/17 09:00 AM
Lab Order:	1701264	**Matrix:**	TRIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
1,1,1-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
1,1,2,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
1,1,2-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
1,1,2-Trichlorotrifluoroethane	<0.00500	0.00500	0.0150		mg/L	1	01/28/17 05:14 PM
1,1-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
1,1-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
1,1-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	01/28/17 05:14 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	01/28/17 05:14 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	01/28/17 05:14 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	01/28/17 05:14 PM
1,2-Dibromoethane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
1,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	01/28/17 05:14 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
1,3-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
1-Chlorohexane	<0.00100	0.00100	0.00500		mg/L	1	01/28/17 05:14 PM
2,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	01/28/17 05:14 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	01/28/17 05:14 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	01/28/17 05:14 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	01/28/17 05:14 PM
Benzene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Bromobenzene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Bromochloromethane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Bromodichloromethane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Bromoform	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	01/28/17 05:14 PM
Carbon tetrachloride	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Chlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-TB01-017
Project:	GLO/City of Galveston	**Lab ID:**	1701264-10
Project No:	60420789.3301	**Collection Date:**	01/26/17 09:00 AM
Lab Order:	1701264	**Matrix:**	TRIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **SW**
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
cis-1,2-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
cis-1,3-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Cyclohexane	<0.00500	0.00500	0.0150	N	mg/L	1	01/28/17 05:14 PM
Dibromochloromethane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Dibromomethane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Dichlorodifluoromethane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Hexachlorobutadiene	<0.00100	0.00100	0.00300		mg/L	1	01/28/17 05:14 PM
Isopropylbenzene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	01/28/17 05:14 PM
Methyl Acetate	<0.00500	0.00500	0.0150		mg/L	1	01/28/17 05:14 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Methylcyclohexane	<0.00500	0.00500	0.0150		mg/L	1	01/28/17 05:14 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	01/28/17 05:14 PM
Naphthalene	<0.00500	0.00500	0.0150		mg/L	1	01/28/17 05:14 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Styrene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	01/28/17 05:14 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	01/28/17 05:14 PM
trans-1,2-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
trans-1,3-Dichloropropene	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Trichloroethene	<0.000600	0.000600	0.00100		mg/L	1	01/28/17 05:14 PM
Trichlorofluoromethane	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Vinyl chloride	<0.000300	0.000300	0.00100		mg/L	1	01/28/17 05:14 PM
Surr: 1,2-Dichloroethane-d4	102	0	72-119		%REC	1	01/28/17 05:14 PM
Surr: 4-Bromofluorobenzene	106	0	76-119		%REC	1	01/28/17 05:14 PM
Surr: Dibromofluoromethane	100	0	85-115		%REC	1	01/28/17 05:14 PM
Surr: Toluene-d8	103	0	81-120		%REC	1	01/28/17 05:14 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB57-010
Project:	GLO/City of Galveston	**Lab ID:**	1701264-11
Project No:	60420789.3301	**Collection Date:**	01/26/17 09:15 AM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH SOIL		**TX1005**					Analyst: **BJT**
T/R Hydrocarbons: C6-C12	<9.85	9.85	28.1		mg/Kg-dry	1	01/31/17 10:59 AM
T/R Hydrocarbons: >C12-C28	336	9.85	28.1		mg/Kg-dry	1	01/31/17 10:59 AM
T/R Hydrocarbons: >C28-C35	46.9	9.85	28.1		mg/Kg-dry	1	01/31/17 10:59 AM
T/R Hydrocarbons: C6-C35	383	9.85	28.1		mg/Kg-dry	1	01/31/17 10:59 AM
Surr: Isopropylbenzene	88.8	0	70-130		%REC	1	01/31/17 10:59 AM
Surr: Octacosane	153	0	70-130	S	%REC	1	01/31/17 10:59 AM
PCB BY GC - SOIL/SOLID		**SW8082A**					Analyst: **LG**
Aroclor 1016	<0.0616	0.0616	0.123		mg/Kg-dry	1	02/03/17 03:30 AM
Aroclor 1221	<0.0616	0.0616	0.123		mg/Kg-dry	1	02/03/17 03:30 AM
Aroclor 1232	<0.0616	0.0616	0.123		mg/Kg-dry	1	02/03/17 03:30 AM
Aroclor 1242	<0.0616	0.0616	0.123		mg/Kg-dry	1	02/03/17 03:30 AM
Aroclor 1248	<0.0616	0.0616	0.123		mg/Kg-dry	1	02/03/17 03:30 AM
Aroclor 1254	<0.0616	0.0616	0.123		mg/Kg-dry	1	02/03/17 03:30 AM
Aroclor 1260	0.0974	0.0616	0.123	J	mg/Kg-dry	1	02/03/17 03:30 AM
Surr: Decachlorobiphenyl	80.8	0	58-125		%REC	1	02/03/17 03:30 AM
Surr: Tetrachloro-m-xylene	84.8	0	40-130		%REC	1	02/03/17 03:30 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	8.68	0.605	1.21		mg/Kg-dry	5	02/02/17 10:53 AM
Arsenic	11.5	0.605	1.21		mg/Kg-dry	5	02/02/17 10:53 AM
Barium	675	6.05	24.2		mg/Kg-dry	50	02/02/17 11:41 AM
Beryllium	0.349	0.121	0.363	J	mg/Kg-dry	5	02/02/17 10:53 AM
Cadmium	8.61	0.121	0.363		mg/Kg-dry	5	02/02/17 10:53 AM
Chromium	66.5	0.605	2.42		mg/Kg-dry	5	02/02/17 10:53 AM
Lead	701	1.21	3.63		mg/Kg-dry	50	02/02/17 11:41 AM
Nickel	43.7	0.605	2.42		mg/Kg-dry	5	02/02/17 10:53 AM
Selenium	3.78	0.182	0.605		mg/Kg-dry	5	02/02/17 10:53 AM
Silver	3.04	0.121	0.242		mg/Kg-dry	5	02/02/17 10:53 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.177	0.0200	0.0499		mg/Kg-dry	1	02/01/17 01:12 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0302	0.0302	0.0603		mg/Kg-dry	5	02/03/17 08:46 PM
Acenaphthylene	0.211	0.0302	0.0603		mg/Kg-dry	5	02/03/17 08:46 PM
Anthracene	0.963	0.0302	0.0603		mg/Kg-dry	5	02/03/17 08:46 PM
Benzo[a]anthracene	0.193	0.0302	0.0603		mg/Kg-dry	5	02/03/17 08:46 PM
Benzo[a]pyrene	0.232	0.0302	0.0603		mg/Kg-dry	5	02/03/17 08:46 PM
Benzo[b]fluoranthene	0.278	0.0302	0.0603		mg/Kg-dry	5	02/03/17 08:46 PM
Benzo[g,h,i]perylene	0.339	0.0302	0.0603		mg/Kg-dry	5	02/03/17 08:46 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB57-010
Project:	GLO/City of Galveston	**Lab ID:**	1701264-11
Project No:	60420789.3301	**Collection Date:**	01/26/17 09:15 AM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Benzo[k]fluoranthene	0.131	0.0302	0.0603		mg/Kg-dry	5	02/03/17 08:46 PM
Chrysene	0.248	0.0302	0.0603		mg/Kg-dry	5	02/03/17 08:46 PM
Dibenz[a,h]anthracene	0.0448	0.0302	0.0603	J	mg/Kg-dry	5	02/03/17 08:46 PM
Fluoranthene	0.413	0.0302	0.0603		mg/Kg-dry	5	02/03/17 08:46 PM
Fluorene	0.302	0.0302	0.0603		mg/Kg-dry	5	02/03/17 08:46 PM
Indeno[1,2,3-cd]pyrene	0.290	0.0302	0.0603		mg/Kg-dry	5	02/03/17 08:46 PM
Naphthalene	<0.0302	0.0302	0.0603		mg/Kg-dry	5	02/03/17 08:46 PM
Phenanthrene	0.337	0.0302	0.0603		mg/Kg-dry	5	02/03/17 08:46 PM
Pyrene	0.394	0.0302	0.0603		mg/Kg-dry	5	02/03/17 08:46 PM
Surr: 2-Fluorobiphenyl	71.4	0	43-125		%REC	5	02/03/17 08:46 PM
Surr: 4-Terphenyl-d14	65.9	0	32-125		%REC	5	02/03/17 08:46 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1,1,1-Trichloroethane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1,1,2,2-Tetrachloroethane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1,1,2-Trichloroethane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1,1,2-Trichlorotrifluoroethane	<0.00832	0.00832	0.0249		mg/Kg-dry	1	02/03/17 01:42 PM
1,1-Dichloroethane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1,1-Dichloroethene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1,1-Dichloropropene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1,2,3-Trichlorobenzene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1,2,3-Trichloropropane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1,2,4-Trichlorobenzene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1,2,4-Trimethylbenzene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1,2-Dibromo-3-chloropropane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1,2-Dibromoethane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1,2-Dichlorobenzene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1,2-Dichloroethane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1,2-Dichloropropane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1,3,5-Trimethylbenzene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1,3-Dichlorobenzene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1,3-Dichloropropane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1,4-Dichlorobenzene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
1-Chlorohexane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
2,2-Dichloropropane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
2-Butanone	<0.00832	0.00832	0.0249		mg/Kg-dry	1	02/03/17 01:42 PM
2-Chlorotoluene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
2-Hexanone	<0.00832	0.00832	0.0249		mg/Kg-dry	1	02/03/17 01:42 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB57-010
Project:	GLO/City of Galveston	**Lab ID:**	1701264-11
Project No:	60420789.3301	**Collection Date:**	01/26/17 09:15 AM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
4-Chlorotoluene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
4-Methyl-2-pentanone	<0.00832	0.00832	0.0249		mg/Kg-dry	1	02/03/17 01:42 PM
Acetone	<0.0249	0.0249	0.0832		mg/Kg-dry	1	02/03/17 01:42 PM
Benzene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Bromobenzene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Bromochloromethane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Bromodichloromethane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Bromoform	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Bromomethane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Carbon disulfide	<0.00832	0.00832	0.0249		mg/Kg-dry	1	02/03/17 01:42 PM
Carbon tetrachloride	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Chlorobenzene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Chloroethane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Chloroform	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Chloromethane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
cis-1,2-Dichloroethene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
cis-1,3-Dichloropropene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Cyclohexane	<0.00832	0.00832	0.0249	N	mg/Kg-dry	1	02/03/17 01:42 PM
Dibromochloromethane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Dibromomethane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Dichlorodifluoromethane	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Ethylbenzene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Hexachlorobutadiene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Isopropylbenzene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
m,p-Xylene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Methyl Acetate	<0.00832	0.00832	0.0249		mg/Kg-dry	1	02/03/17 01:42 PM
Methyl tert-butyl ether	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Methylcyclohexane	<0.00832	0.00832	0.0249		mg/Kg-dry	1	02/03/17 01:42 PM
Methylene chloride	<0.00832	0.00832	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Naphthalene	<0.00832	0.00832	0.0249		mg/Kg-dry	1	02/03/17 01:42 PM
n-Butylbenzene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
n-Propylbenzene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
o-Xylene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
p-Isopropyltoluene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
sec-Butylbenzene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Styrene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
tert-Butylbenzene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Tetrachloroethene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Toluene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB57-010
Project:	GLO/City of Galveston	**Lab ID:**	1701264-11
Project No:	60420789.3301	**Collection Date:**	01/26/17 09:15 AM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
trans-1,2-Dichloroethene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
trans-1,3-Dichloropropene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Trichloroethene	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Trichlorofluoromethane	<0.00832	0.00832	0.0249		mg/Kg-dry	1	02/03/17 01:42 PM
Vinyl chloride	<0.00166	0.00166	0.00832		mg/Kg-dry	1	02/03/17 01:42 PM
Surr: 1,2-Dichloroethane-d4	98.8	0	52-149		%REC	1	02/03/17 01:42 PM
Surr: 4-Bromofluorobenzene	107	0	84-118		%REC	1	02/03/17 01:42 PM
Surr: Dibromofluoromethane	96.4	0	65-135		%REC	1	02/03/17 01:42 PM
Surr: Toluene-d8	98.6	0	84-116		%REC	1	02/03/17 01:42 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	21.3	0	0		WT%	1	01/31/17 08:10 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB57-020
Project:	GLO/City of Galveston	**Lab ID:**	1701264-12
Project No:	60420789.3301	**Collection Date:**	01/26/17 09:20 AM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH SOIL		**TX1005**					Analyst: **BJT**
T/R Hydrocarbons: C6-C12	13300	879	2510		mg/Kg-dry	100	01/31/17 11:08 AM
T/R Hydrocarbons: >C12-C28	22900	879	2510		mg/Kg-dry	100	01/31/17 11:08 AM
T/R Hydrocarbons: >C28-C35	<879	879	2510		mg/Kg-dry	100	01/31/17 11:08 AM
T/R Hydrocarbons: C6-C35	36200	879	2510		mg/Kg-dry	100	01/31/17 11:08 AM
Surr: Isopropylbenzene	178	0	70-130	S	%REC	100	01/31/17 11:08 AM
Surr: Octacosane	1800	0	70-130	S	%REC	100	01/31/17 11:08 AM
PCB BY GC - SOIL/SOLID		**SW8082A**					Analyst: **LG**
Aroclor 1016	<0.0568	0.0568	0.114		mg/Kg-dry	1	02/03/17 03:56 AM
Aroclor 1221	<0.0568	0.0568	0.114		mg/Kg-dry	1	02/03/17 03:56 AM
Aroclor 1232	<0.0568	0.0568	0.114		mg/Kg-dry	1	02/03/17 03:56 AM
Aroclor 1242	<0.0568	0.0568	0.114		mg/Kg-dry	1	02/03/17 03:56 AM
Aroclor 1248	<0.0568	0.0568	0.114		mg/Kg-dry	1	02/03/17 03:56 AM
Aroclor 1254	<0.0568	0.0568	0.114		mg/Kg-dry	1	02/03/17 03:56 AM
Aroclor 1260	<0.0568	0.0568	0.114		mg/Kg-dry	1	02/03/17 03:56 AM
Surr: Decachlorobiphenyl	88.1	0	58-125		%REC	1	02/03/17 03:56 AM
Surr: Tetrachloro-m-xylene	82.5	0	40-130		%REC	1	02/03/17 03:56 AM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	148	60.1	120		mg/Kg-dry	500	02/02/17 11:43 AM
Arsenic	49.1	0.601	1.20		mg/Kg-dry	5	02/02/17 10:55 AM
Barium	936	60.1	240		mg/Kg-dry	500	02/02/17 11:43 AM
Beryllium	0.190	0.120	0.361	J	mg/Kg-dry	5	02/02/17 10:55 AM
Cadmium	15.9	0.120	0.361		mg/Kg-dry	5	02/02/17 10:55 AM
Chromium	121	0.601	2.40		mg/Kg-dry	5	02/02/17 10:55 AM
Lead	28000	12.0	36.1		mg/Kg-dry	500	02/02/17 11:43 AM
Nickel	95.7	0.601	2.40		mg/Kg-dry	5	02/02/17 10:55 AM
Selenium	1.18	0.180	0.601		mg/Kg-dry	5	02/02/17 10:55 AM
Silver	9.46	0.120	0.240		mg/Kg-dry	5	02/02/17 10:55 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.597	0.0885	0.221		mg/Kg-dry	5	02/01/17 02:05 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	1.15	0.0300	0.0601		mg/Kg-dry	5	02/03/17 11:14 PM
Acenaphthylene	<0.0300	0.0300	0.0601		mg/Kg-dry	5	02/03/17 11:14 PM
Anthracene	<0.0300	0.0300	0.0601		mg/Kg-dry	5	02/03/17 11:14 PM
Benzo[a]anthracene	0.193	0.0300	0.0601		mg/Kg-dry	5	02/03/17 11:14 PM
Benzo[a]pyrene	0.205	0.0300	0.0601		mg/Kg-dry	5	02/03/17 11:14 PM
Benzo[b]fluoranthene	0.214	0.0300	0.0601		mg/Kg-dry	5	02/03/17 11:14 PM
Benzo[g,h,i]perylene	0.245	0.0300	0.0601		mg/Kg-dry	5	02/03/17 11:14 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB57-020
Project:	GLO/City of Galveston	**Lab ID:**	1701264-12
Project No:	60420789.3301	**Collection Date:**	01/26/17 09:20 AM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Benzo[k]fluoranthene	0.0975	0.0300	0.0601		mg/Kg-dry	5	02/03/17 11:14 PM
Chrysene	0.635	0.0300	0.0601		mg/Kg-dry	5	02/03/17 11:14 PM
Dibenz[a,h]anthracene	0.0311	0.0300	0.0601	J	mg/Kg-dry	5	02/03/17 11:14 PM
Fluoranthene	0.809	0.0300	0.0601		mg/Kg-dry	5	02/03/17 11:14 PM
Fluorene	1.48	0.0300	0.0601		mg/Kg-dry	5	02/03/17 11:14 PM
Indeno[1,2,3-cd]pyrene	0.169	0.0300	0.0601		mg/Kg-dry	5	02/03/17 11:14 PM
Naphthalene	0.372	0.0300	0.0601		mg/Kg-dry	5	02/03/17 11:14 PM
Phenanthrene	2.20	0.0300	0.0601		mg/Kg-dry	5	02/03/17 11:14 PM
Pyrene	0.908	0.0300	0.0601		mg/Kg-dry	5	02/03/17 11:14 PM
Surr: 2-Fluorobiphenyl	69.5	0	43-125		%REC	5	02/03/17 11:14 PM
Surr: 4-Terphenyl-d14	65.0	0	32-125		%REC	5	02/03/17 11:14 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
1,1,1-Trichloroethane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
1,1,2,2-Tetrachloroethane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
1,1,2-Trichloroethane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
1,1,2-Trichlorotrifluoroethane	<0.00642	0.00642	0.0193		mg/Kg-dry	1	02/03/17 02:10 PM
1,1-Dichloroethane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
1,1-Dichloroethene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
1,1-Dichloropropene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
1,2,3-Trichlorobenzene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
1,2,3-Trichloropropane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
1,2,4-Trichlorobenzene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
1,2,4-Trimethylbenzene	0.00460	0.00128	0.00642	J	mg/Kg-dry	1	02/03/17 02:10 PM
1,2-Dibromo-3-chloropropane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
1,2-Dibromoethane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
1,2-Dichlorobenzene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
1,2-Dichloroethane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
1,2-Dichloropropane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
1,3,5-Trimethylbenzene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
1,3-Dichlorobenzene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
1,3-Dichloropropane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
1,4-Dichlorobenzene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
1-Chlorohexane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
2,2-Dichloropropane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
2-Butanone	0.141	0.00642	0.0193		mg/Kg-dry	1	02/03/17 02:10 PM
2-Chlorotoluene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
2-Hexanone	<0.00642	0.00642	0.0193		mg/Kg-dry	1	02/03/17 02:10 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB57-020
Project:	GLO/City of Galveston	**Lab ID:**	1701264-12
Project No:	60420789.3301	**Collection Date:**	01/26/17 09:20 AM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
4-Chlorotoluene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
4-Methyl-2-pentanone	<0.00642	0.00642	0.0193		mg/Kg-dry	1	02/03/17 02:10 PM
Acetone	0.440	0.0193	0.0642		mg/Kg-dry	1	02/03/17 02:10 PM
Benzene	0.00139	0.00128	0.00642	J	mg/Kg-dry	1	02/03/17 02:10 PM
Bromobenzene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Bromochloromethane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Bromodichloromethane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Bromoform	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Bromomethane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Carbon disulfide	0.00690	0.00642	0.0193	J	mg/Kg-dry	1	02/03/17 02:10 PM
Carbon tetrachloride	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Chlorobenzene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Chloroethane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Chloroform	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Chloromethane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
cis-1,2-Dichloroethene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
cis-1,3-Dichloropropene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Cyclohexane	<0.00642	0.00642	0.0193	N	mg/Kg-dry	1	02/03/17 02:10 PM
Dibromochloromethane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Dibromomethane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Dichlorodifluoromethane	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Ethylbenzene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Hexachlorobutadiene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Isopropylbenzene	0.00897	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
m,p-Xylene	0.00148	0.00128	0.00642	J	mg/Kg-dry	1	02/03/17 02:10 PM
Methyl Acetate	<0.00642	0.00642	0.0193		mg/Kg-dry	1	02/03/17 02:10 PM
Methyl tert-butyl ether	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Methylcyclohexane	0.0283	0.00642	0.0193		mg/Kg-dry	1	02/03/17 02:10 PM
Methylene chloride	<0.00642	0.00642	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Naphthalene	0.0179	0.00642	0.0193	J	mg/Kg-dry	1	02/03/17 02:10 PM
n-Butylbenzene	0.0327	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
n-Propylbenzene	0.0218	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
o-Xylene	0.00221	0.00128	0.00642	J	mg/Kg-dry	1	02/03/17 02:10 PM
p-Isopropyltoluene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
sec-Butylbenzene	0.0467	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Styrene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
tert-Butylbenzene	0.00457	0.00128	0.00642	J	mg/Kg-dry	1	02/03/17 02:10 PM
Tetrachloroethene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Toluene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB57-020
Project:	GLO/City of Galveston	**Lab ID:**	1701264-12
Project No:	60420789.3301	**Collection Date:**	01/26/17 09:20 AM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
trans-1,2-Dichloroethene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
trans-1,3-Dichloropropene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Trichloroethene	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Trichlorofluoromethane	<0.00642	0.00642	0.0193		mg/Kg-dry	1	02/03/17 02:10 PM
Vinyl chloride	<0.00128	0.00128	0.00642		mg/Kg-dry	1	02/03/17 02:10 PM
Surr: 1,2-Dichloroethane-d4	96.6	0	52-149		%REC	1	02/03/17 02:10 PM
Surr: 4-Bromofluorobenzene	208	0	84-118	S	%REC	1	02/03/17 02:10 PM
Surr: Dibromofluoromethane	98.9	0	65-135		%REC	1	02/03/17 02:10 PM
Surr: Toluene-d8	104	0	84-116		%REC	1	02/03/17 02:10 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	16.8	0	0		WT%	1	02/02/17 08:15 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB64-010
Project:	GLO/City of Galveston	**Lab ID:**	1701264-13
Project No:	60420789.3301	**Collection Date:**	01/26/17 01:55 PM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	14.4	0.609	1.22		mg/Kg-dry	5	02/02/17 10:57 AM
Arsenic	60.2	0.609	1.22		mg/Kg-dry	5	02/02/17 10:57 AM
Barium	1000	6.09	24.4		mg/Kg-dry	50	02/02/17 11:46 AM
Beryllium	0.234	0.122	0.366	J	mg/Kg-dry	5	02/02/17 10:57 AM
Cadmium	12.7	0.122	0.366		mg/Kg-dry	5	02/02/17 10:57 AM
Chromium	72.9	0.609	2.44		mg/Kg-dry	5	02/02/17 10:57 AM
Lead	2230	1.22	3.66		mg/Kg-dry	50	02/02/17 11:46 AM
Nickel	412	0.609	2.44		mg/Kg-dry	5	02/02/17 10:57 AM
Selenium	1.37	0.183	0.609		mg/Kg-dry	5	02/02/17 10:57 AM
Silver	1.59	0.122	0.244		mg/Kg-dry	5	02/02/17 10:57 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	1.19	0.103	0.257		mg/Kg-dry	5	02/01/17 02:07 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0314	0.0314	0.0627		mg/Kg-dry	5	02/03/17 06:47 PM
Acenaphthylene	<0.0314	0.0314	0.0627		mg/Kg-dry	5	02/03/17 06:47 PM
Anthracene	0.0635	0.0314	0.0627		mg/Kg-dry	5	02/03/17 06:47 PM
Benzo[a]anthracene	0.283	0.0314	0.0627		mg/Kg-dry	5	02/03/17 06:47 PM
Benzo[a]pyrene	0.354	0.0314	0.0627		mg/Kg-dry	5	02/03/17 06:47 PM
Benzo[b]fluoranthene	0.348	0.0314	0.0627		mg/Kg-dry	5	02/03/17 06:47 PM
Benzo[g,h,i]perylene	0.344	0.0314	0.0627		mg/Kg-dry	5	02/03/17 06:47 PM
Benzo[k]fluoranthene	0.180	0.0314	0.0627		mg/Kg-dry	5	02/03/17 06:47 PM
Chrysene	0.318	0.0314	0.0627		mg/Kg-dry	5	02/03/17 06:47 PM
Dibenz[a,h]anthracene	0.0812	0.0314	0.0627		mg/Kg-dry	5	02/03/17 06:47 PM
Fluoranthene	0.449	0.0314	0.0627		mg/Kg-dry	5	02/03/17 06:47 PM
Fluorene	<0.0314	0.0314	0.0627		mg/Kg-dry	5	02/03/17 06:47 PM
Indeno[1,2,3-cd]pyrene	0.324	0.0314	0.0627		mg/Kg-dry	5	02/03/17 06:47 PM
Naphthalene	<0.0314	0.0314	0.0627		mg/Kg-dry	5	02/03/17 06:47 PM
Phenanthrene	0.208	0.0314	0.0627		mg/Kg-dry	5	02/03/17 06:47 PM
Pyrene	0.385	0.0314	0.0627		mg/Kg-dry	5	02/03/17 06:47 PM
Surr: 2-Fluorobiphenyl	71.0	0	43-125		%REC	5	02/03/17 06:47 PM
Surr: 4-Terphenyl-d14	68.9	0	32-125		%REC	5	02/03/17 06:47 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	22.6	0	0		WT%	1	02/02/17 08:15 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB64-011
Project:	GLO/City of Galveston	**Lab ID:**	1701264-14
Project No:	60420789.3301	**Collection Date:**	01/26/17 01:55 PM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **RO**
Antimony	9.46	0.631	1.26		mg/Kg-dry	5	02/02/17 11:50 AM
Arsenic	55.7	0.631	1.26		mg/Kg-dry	5	02/02/17 11:50 AM
Barium	656	6.31	25.3		mg/Kg-dry	50	02/02/17 11:48 AM
Beryllium	0.135	0.126	0.379	J	mg/Kg-dry	5	02/02/17 11:50 AM
Cadmium	16.5	0.126	0.379		mg/Kg-dry	5	02/02/17 11:50 AM
Chromium	135	0.631	2.53		mg/Kg-dry	5	02/02/17 11:50 AM
Lead	2670	1.26	3.79		mg/Kg-dry	50	02/02/17 11:48 AM
Nickel	134	0.631	2.53		mg/Kg-dry	5	02/02/17 11:50 AM
Selenium	0.870	0.189	0.631		mg/Kg-dry	5	02/02/17 11:50 AM
Silver	1.15	0.126	0.253		mg/Kg-dry	5	02/02/17 11:50 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.413	0.0201	0.0504		mg/Kg-dry	1	02/01/17 01:19 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0308	0.0308	0.0616		mg/Kg-dry	5	02/03/17 07:17 PM
Acenaphthylene	<0.0308	0.0308	0.0616		mg/Kg-dry	5	02/03/17 07:17 PM
Anthracene	0.0315	0.0308	0.0616	J	mg/Kg-dry	5	02/03/17 07:17 PM
Benzo[a]anthracene	0.154	0.0308	0.0616		mg/Kg-dry	5	02/03/17 07:17 PM
Benzo[a]pyrene	0.234	0.0308	0.0616		mg/Kg-dry	5	02/03/17 07:17 PM
Benzo[b]fluoranthene	0.240	0.0308	0.0616		mg/Kg-dry	5	02/03/17 07:17 PM
Benzo[g,h,i]perylene	0.264	0.0308	0.0616		mg/Kg-dry	5	02/03/17 07:17 PM
Benzo[k]fluoranthene	0.115	0.0308	0.0616		mg/Kg-dry	5	02/03/17 07:17 PM
Chrysene	0.176	0.0308	0.0616		mg/Kg-dry	5	02/03/17 07:17 PM
Dibenz[a,h]anthracene	0.0581	0.0308	0.0616	J	mg/Kg-dry	5	02/03/17 07:17 PM
Fluoranthene	0.231	0.0308	0.0616		mg/Kg-dry	5	02/03/17 07:17 PM
Fluorene	<0.0308	0.0308	0.0616		mg/Kg-dry	5	02/03/17 07:17 PM
Indeno[1,2,3-cd]pyrene	0.238	0.0308	0.0616		mg/Kg-dry	5	02/03/17 07:17 PM
Naphthalene	<0.0308	0.0308	0.0616		mg/Kg-dry	5	02/03/17 07:17 PM
Phenanthrene	0.0789	0.0308	0.0616		mg/Kg-dry	5	02/03/17 07:17 PM
Pyrene	0.203	0.0308	0.0616		mg/Kg-dry	5	02/03/17 07:17 PM
Surr: 2-Fluorobiphenyl	65.3	0	43-125		%REC	5	02/03/17 07:17 PM
Surr: 4-Terphenyl-d14	65.0	0	32-125		%REC	5	02/03/17 07:17 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	23.1	0	0		WT%	1	02/02/17 08:15 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB69-010
Project:	GLO/City of Galveston	**Lab ID:**	1701264-15
Project No:	60420789.3301	**Collection Date:**	01/26/17 02:50 PM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH SOIL		**TX1005**					Analyst: **BJT**
T/R Hydrocarbons: C6-C12	<9.24	9.24	26.4		mg/Kg-dry	1	01/31/17 11:17 AM
T/R Hydrocarbons: >C12-C28	134	9.24	26.4		mg/Kg-dry	1	01/31/17 11:17 AM
T/R Hydrocarbons: >C28-C35	9.60	9.24	26.4	J	mg/Kg-dry	1	01/31/17 11:17 AM
T/R Hydrocarbons: C6-C35	144	9.24	26.4		mg/Kg-dry	1	01/31/17 11:17 AM
Surr: Isopropylbenzene	91.5	0	70-130		%REC	1	01/31/17 11:17 AM
Surr: Octacosane	114	0	70-130		%REC	1	01/31/17 11:17 AM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1,1,1-Trichloroethane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1,1,2,2-Tetrachloroethane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1,1,2-Trichloroethane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1,1,2-Trichlorotrifluoroethane	<0.00670	0.00670	0.0201		mg/Kg-dry	1	02/03/17 02:39 PM
1,1-Dichloroethane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1,1-Dichloroethene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1,1-Dichloropropene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1,2,3-Trichlorobenzene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1,2,3-Trichloropropane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1,2,4-Trichlorobenzene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1,2,4-Trimethylbenzene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1,2-Dibromo-3-chloropropane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1,2-Dibromoethane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1,2-Dichlorobenzene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1,2-Dichloroethane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1,2-Dichloropropane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1,3,5-Trimethylbenzene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1,3-Dichlorobenzene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1,3-Dichloropropane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1,4-Dichlorobenzene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
1-Chlorohexane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
2,2-Dichloropropane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
2-Butanone	<0.00670	0.00670	0.0201		mg/Kg-dry	1	02/03/17 02:39 PM
2-Chlorotoluene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
2-Hexanone	<0.00670	0.00670	0.0201		mg/Kg-dry	1	02/03/17 02:39 PM
4-Chlorotoluene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
4-Methyl-2-pentanone	<0.00670	0.00670	0.0201		mg/Kg-dry	1	02/03/17 02:39 PM
Acetone	<0.0201	0.0201	0.0670		mg/Kg-dry	1	02/03/17 02:39 PM
Benzene	0.00139	0.00134	0.00670	J	mg/Kg-dry	1	02/03/17 02:39 PM
Bromobenzene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB69-010
Project:	GLO/City of Galveston	**Lab ID:**	1701264-15
Project No:	60420789.3301	**Collection Date:**	01/26/17 02:50 PM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
Bromochloromethane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Bromodichloromethane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Bromoform	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Bromomethane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Carbon disulfide	<0.00670	0.00670	0.0201		mg/Kg-dry	1	02/03/17 02:39 PM
Carbon tetrachloride	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Chlorobenzene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Chloroethane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Chloroform	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Chloromethane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
cis-1,2-Dichloroethene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
cis-1,3-Dichloropropene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Cyclohexane	<0.00670	0.00670	0.0201	N	mg/Kg-dry	1	02/03/17 02:39 PM
Dibromochloromethane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Dibromomethane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Dichlorodifluoromethane	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Ethylbenzene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Hexachlorobutadiene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Isopropylbenzene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
m,p-Xylene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Methyl Acetate	<0.00670	0.00670	0.0201		mg/Kg-dry	1	02/03/17 02:39 PM
Methyl tert-butyl ether	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Methylcyclohexane	<0.00670	0.00670	0.0201		mg/Kg-dry	1	02/03/17 02:39 PM
Methylene chloride	<0.00670	0.00670	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Naphthalene	<0.00670	0.00670	0.0201		mg/Kg-dry	1	02/03/17 02:39 PM
n-Butylbenzene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
n-Propylbenzene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
o-Xylene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
p-Isopropyltoluene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
sec-Butylbenzene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Styrene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
tert-Butylbenzene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Tetrachloroethene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Toluene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
trans-1,2-Dichloroethene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
trans-1,3-Dichloropropene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Trichloroethene	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM
Trichlorofluoromethane	<0.00670	0.00670	0.0201		mg/Kg-dry	1	02/03/17 02:39 PM
Vinyl chloride	<0.00134	0.00134	0.00670		mg/Kg-dry	1	02/03/17 02:39 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB69-010
Project:	GLO/City of Galveston	**Lab ID:**	1701264-15
Project No:	60420789.3301	**Collection Date:**	01/26/17 02:50 PM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
Surr: 1,2-Dichloroethane-d4	94.4	0	52-149		%REC	1	02/03/17 02:39 PM
Surr: 4-Bromofluorobenzene	102	0	84-118		%REC	1	02/03/17 02:39 PM
Surr: Dibromofluoromethane	94.8	0	65-135		%REC	1	02/03/17 02:39 PM
Surr: Toluene-d8	96.3	0	84-116		%REC	1	02/03/17 02:39 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	19.8	0	0		WT%	1	02/02/17 08:15 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB70-010
Project:	GLO/City of Galveston	**Lab ID:**	1701264-16
Project No:	60420789.3301	**Collection Date:**	01/26/17 02:55 PM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH SOIL		**TX1005**					Analyst: **BJT**
T/R Hydrocarbons: C6-C12	<8.45	8.45	24.1		mg/Kg-dry	1	01/31/17 11:26 AM
T/R Hydrocarbons: >C12-C28	15.6	8.45	24.1	J	mg/Kg-dry	1	01/31/17 11:26 AM
T/R Hydrocarbons: >C28-C35	<8.45	8.45	24.1		mg/Kg-dry	1	01/31/17 11:26 AM
T/R Hydrocarbons: C6-C35	15.6	8.45	24.1	J	mg/Kg-dry	1	01/31/17 11:26 AM
Surr: Isopropylbenzene	89.8	0	70-130		%REC	1	01/31/17 11:26 AM
Surr: Octacosane	86.0	0	70-130		%REC	1	01/31/17 11:26 AM
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1,1,2-Tetrachloroethane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1,1,1-Trichloroethane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1,1,2,2-Tetrachloroethane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1,1,2-Trichloroethane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1,1,2-Trichlorotrifluoroethane	<0.00578	0.00578	0.0173		mg/Kg-dry	1	02/03/17 03:08 PM
1,1-Dichloroethane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1,1-Dichloroethene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1,1-Dichloropropene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1,2,3-Trichlorobenzene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1,2,3-Trichloropropane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1,2,4-Trichlorobenzene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1,2,4-Trimethylbenzene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1,2-Dibromo-3-chloropropane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1,2-Dibromoethane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1,2-Dichlorobenzene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1,2-Dichloroethane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1,2-Dichloropropane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1,3,5-Trimethylbenzene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1,3-Dichlorobenzene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1,3-Dichloropropane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1,4-Dichlorobenzene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
1-Chlorohexane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
2,2-Dichloropropane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
2-Butanone	<0.00578	0.00578	0.0173		mg/Kg-dry	1	02/03/17 03:08 PM
2-Chlorotoluene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
2-Hexanone	<0.00578	0.00578	0.0173		mg/Kg-dry	1	02/03/17 03:08 PM
4-Chlorotoluene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
4-Methyl-2-pentanone	<0.00578	0.00578	0.0173		mg/Kg-dry	1	02/03/17 03:08 PM
Acetone	<0.0173	0.0173	0.0578		mg/Kg-dry	1	02/03/17 03:08 PM
Benzene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Bromobenzene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB70-010
Project:	GLO/City of Galveston	**Lab ID:**	1701264-16
Project No:	60420789.3301	**Collection Date:**	01/26/17 02:55 PM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
Bromochloromethane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Bromodichloromethane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Bromoform	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Bromomethane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Carbon disulfide	<0.00578	0.00578	0.0173		mg/Kg-dry	1	02/03/17 03:08 PM
Carbon tetrachloride	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Chlorobenzene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Chloroethane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Chloroform	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Chloromethane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
cis-1,2-Dichloroethene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
cis-1,3-Dichloropropene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Cyclohexane	<0.00578	0.00578	0.0173	N	mg/Kg-dry	1	02/03/17 03:08 PM
Dibromochloromethane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Dibromomethane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Dichlorodifluoromethane	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Ethylbenzene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Hexachlorobutadiene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Isopropylbenzene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
m,p-Xylene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Methyl Acetate	<0.00578	0.00578	0.0173		mg/Kg-dry	1	02/03/17 03:08 PM
Methyl tert-butyl ether	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Methylcyclohexane	<0.00578	0.00578	0.0173		mg/Kg-dry	1	02/03/17 03:08 PM
Methylene chloride	<0.00578	0.00578	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Naphthalene	<0.00578	0.00578	0.0173		mg/Kg-dry	1	02/03/17 03:08 PM
n-Butylbenzene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
n-Propylbenzene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
o-Xylene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
p-Isopropyltoluene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
sec-Butylbenzene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Styrene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
tert-Butylbenzene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Tetrachloroethene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Toluene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
trans-1,2-Dichloroethene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
trans-1,3-Dichloropropene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Trichloroethene	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM
Trichlorofluoromethane	<0.00578	0.00578	0.0173		mg/Kg-dry	1	02/03/17 03:08 PM
Vinyl chloride	<0.00116	0.00116	0.00578		mg/Kg-dry	1	02/03/17 03:08 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB70-010
Project:	GLO/City of Galveston	**Lab ID:**	1701264-16
Project No:	60420789.3301	**Collection Date:**	01/26/17 02:55 PM
Lab Order:	1701264	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
Surr: 1,2-Dichloroethane-d4	95.0	0	52-149		%REC	1	02/03/17 03:08 PM
Surr: 4-Bromofluorobenzene	100	0	84-118		%REC	1	02/03/17 03:08 PM
Surr: Dibromofluoromethane	95.6	0	65-135		%REC	1	02/03/17 03:08 PM
Surr: Toluene-d8	95.6	0	84-116		%REC	1	02/03/17 03:08 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	21.7	0	0		WT%	1	02/02/17 08:15 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GC12_161223A**

Sample ID	**DCS-78446**	Batch ID:	**78446**	TestNo:	**TX1005**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**GC12_161223A**	Analysis Date:	**12/23/2016 10:05:46 A**	Prep Date:	**12/22/2016**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	7.62	20.0	10.00	0	76.2	50	200	0	0	
Surr: Isopropylbenzene	22.7		25.00		90.6	70	130	0	0	
Surr: Octacosane	20.4		25.00		81.6	70	130	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GC12_170131A**

The QC data in batch 78952 applies to the following samples: 1701264-11B, 1701264-12B, 1701264-15B, 1701264-16B

Sample ID **LCS-78952** Batch ID: **78952** TestNo: **TX1005** Units: **mg/Kg**
SampType: **LCS** Run ID: **GC12_170131A** Analysis Date: **1/31/2017 9:49:56 AM** Prep Date: **1/30/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	250	20.0	250.0	0	100	75	125			
Surr: Isopropylbenzene	22.2		25.00		88.8	70	130			
Surr: Octacosane	22.8		25.00		91.2	70	130			

Sample ID **LCSD-78952** Batch ID: **78952** TestNo: **TX1005** Units: **mg/Kg**
SampType: **LCSD** Run ID: **GC12_170131A** Analysis Date: **1/31/2017 9:58:58 AM** Prep Date: **1/30/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	243	20.0	250.0	0	97.1	75	125	2.96	20	
Surr: Isopropylbenzene	21.9		25.00		87.6	70	130	0	0	
Surr: Octacosane	22.4		25.00		89.5	70	130	0	0	

Sample ID **MB-78952** Batch ID: **78952** TestNo: **TX1005** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GC12_170131A** Analysis Date: **1/31/2017 10:08:01 AM** Prep Date: **1/30/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C12	<7.00	20.0								
T/R Hydrocarbons: >C12-C28	<7.00	20.0								
T/R Hydrocarbons: >C28-C35	<7.00	20.0								
T/R Hydrocarbons: C6-C35	<7.00	20.0								
Surr: Isopropylbenzene	22.0		25.00		88.0	70	130			
Surr: Octacosane	23.2		25.00		92.9	70	130			

Sample ID **1701274-03BMS** Batch ID: **78952** TestNo: **TX1005** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GC12_170131A** Analysis Date: **1/31/2017 12:38:05 PM** Prep Date: **1/30/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	351	30.0	374.6	0	93.6	75	125			
Surr: Isopropylbenzene	34.9		37.46		93.3	70	130			
Surr: Octacosane	32.5		37.46		86.7	70	130			

Sample ID **1701274-03BMSD** Batch ID: **78952** TestNo: **TX1005** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GC12_170131A** Analysis Date: **1/31/2017 12:47:07 PM** Prep Date: **1/30/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	351	28.8	360.1	0	97.6	75	125	0.257	20	
Surr: Isopropylbenzene	33.6		36.01		93.4	70	130	0	0	
Surr: Octacosane	31.0		36.01		86.1	70	130	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GC12_170131A**

Sample ID	**ICV-170131**	Batch ID:	**R90247**	TestNo:	**TX1005**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GC12_170131A**	Analysis Date:	**1/31/2017 9:39:36 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	1000	20.0	1000	0	100	75	125			
Surr: Isopropylbenzene	54.9		50.00		110	70	130			
Surr: Octacosane	50.6		50.00		101	70	130			

Sample ID	**CCV1-170130**	Batch ID:	**R90247**	TestNo:	**TX1005**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**GC12_170131A**	Analysis Date:	**1/31/2017 1:30:53 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	577	20.0	500.0	0	115	75	125			
Surr: Isopropylbenzene	27.1		25.00		108	70	130			
Surr: Octacosane	25.1		25.00		100	70	130			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GC16_161207A**

Sample ID	**DCS/LQV-78151**	Batch ID:	**78151**	TestNo:	**SW8082A**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**GC16_161207A**	Analysis Date:	**12/7/2016 1:08:00 PM**	Prep Date:	**12/7/2016**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.0808	0.100	0.1000	0	80.8	21	158	0	0	
Aroclor 1260	0.0841	0.100	0.1000	0	84.1	41	151	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GC16_170202C**

The QC data in batch 78945 applies to the following samples: 1701264-11C, 1701264-12C

Sample ID **LCS-78945-Cu** Batch ID: **78945** TestNo: **SW8082A** Units: **mg/Kg**
SampType: **LCS** Run ID: **GC16_170202C** Analysis Date: **2/2/2017 5:45:00 PM** Prep Date: **1/30/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.934	0.100	1.000	0	93.4	41	138			
Aroclor 1260	0.781	0.100	1.000	0	78.1	61	131			
Surr: Decachlorobiphenyl	0.0699		0.1000		69.9	58	125			
Surr: Tetrachloro-m-xylene	0.0892		0.1000		89.2	40	130			

Sample ID **MB-78945-Cu** Batch ID: **78945** TestNo: **SW8082A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GC16_170202C** Analysis Date: **2/2/2017 7:52:00 PM** Prep Date: **1/30/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	<0.0500	0.100								
Aroclor 1221	<0.0500	0.100								
Aroclor 1232	<0.0500	0.100								
Aroclor 1242	<0.0500	0.100								
Aroclor 1248	<0.0500	0.100								
Aroclor 1254	<0.0500	0.100								
Aroclor 1260	<0.0500	0.100								
Surr: Decachlorobiphenyl	0.0718		0.1000		71.8	58	125			
Surr: Tetrachloro-m-xylene	0.0962		0.1000		96.2	40	130			

Sample ID **1701264-12CMS** Batch ID: **78945** TestNo: **SW8082A** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GC16_170202C** Analysis Date: **2/3/2017 4:21:00 AM** Prep Date: **1/30/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.961	0.113	1.131	0	84.9	41	138			
Aroclor 1260	0.823	0.113	1.131	0	72.8	61	131			
Surr: Decachlorobiphenyl	0.0948		0.1131		83.8	58	125			
Surr: Tetrachloro-m-xylene	0.0902		0.1131		79.7	40	130			

Sample ID **1701264-12CMSD** Batch ID: **78945** TestNo: **SW8082A** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GC16_170202C** Analysis Date: **2/3/2017 4:46:00 AM** Prep Date: **1/30/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	1.26	0.117	1.169	0	108	41	138	27.2	50	
Aroclor 1260	0.958	0.117	1.169	0	82.0	61	131	15.2	50	
Surr: Decachlorobiphenyl	0.109		0.1169		93.3	58	125	0		
Surr: Tetrachloro-m-xylene	0.101		0.1169		86.2	40	130	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GC16_170202C**

Sample ID **ICV-170202** Batch ID: **R90320** TestNo: **SW8082A** Units: **mg/Kg**
SampType: **ICV** Run ID: **GC16_170202C** Analysis Date: **2/2/2017 4:29:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	2.00	0.100	2.000	0	100	80	120			
Aroclor 1260	1.78	0.100	2.000	0	89.1	80	120			
Surr: Decachlorobiphenyl	0.186		0.2000		92.8	58	125			
Surr: Tetrachloro-m-xylene	0.217		0.2000		108	40	130			

Sample ID **CCV-170202** Batch ID: **R90320** TestNo: **SW8082A** Units: **mg/Kg**
SampType: **CCV** Run ID: **GC16_170202C** Analysis Date: **2/3/2017 12:07:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	1.00	0.100	1.000	0	100	80	120			
Aroclor 1260	0.851	0.100	1.000	0	85.1	80	120			
Surr: Decachlorobiphenyl	0.0797		0.1000		79.7	58	125			
Surr: Tetrachloro-m-xylene	0.102		0.1000		102	40	130			

Sample ID **CCV-170202 1248** Batch ID: **R90320** TestNo: **SW8082A** Units: **mg/Kg**
SampType: **CCV** Run ID: **GC16_170202C** Analysis Date: **2/3/2017 1:49:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1248	1.11	0.100	1.000	0	111	80	120			
Surr: Decachlorobiphenyl	0.0985		0.1000		98.5	58	125			
Surr: Tetrachloro-m-xylene	0.124		0.1000		124	40	130			

Sample ID **CCV2-170202** Batch ID: **R90320** TestNo: **SW8082A** Units: **mg/Kg**
SampType: **CCV** Run ID: **GC16_170202C** Analysis Date: **2/3/2017 5:12:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.976	0.100	1.000	0	97.6	80	120			
Aroclor 1260	0.742	0.100	1.000	0	74.2	80	120			S
Surr: Decachlorobiphenyl	0.0720		0.1000		72.0	58	125			
Surr: Tetrachloro-m-xylene	0.105		0.1000		105	40	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_161223A**

Sample ID	**DCS-78430**	Batch ID:	**78430**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**CETAC2_HG_161223A**	Analysis Date:	**12/23/2016 10:39:27 A**	Prep Date:	**12/22/2016**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0397	0.0400	0.04000	0	99.3	80	124	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170119A**

Sample ID	**DCS-78789**	Batch ID:	**78789**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**CETAC2_HG_170119A**	Analysis Date:	**1/19/2017 11:50:30 AM**	Prep Date:	**1/18/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.000191	0.000200	0.000200	0	95.5	82	119	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170201C**

The QC data in batch 78975 applies to the following samples: 1701264-03A, 1701264-08A

Sample ID **MB-78975** Batch ID: **78975** TestNo: **SW7470A** Units: **mg/L**
SampType: **MBLK** Run ID: **CETAC2_HG_170201** Analysis Date: **2/1/2017 10:56:31 AM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0000800	0.000200								

Sample ID **LCS-78975** Batch ID: **78975** TestNo: **SW7470A** Units: **mg/L**
SampType: **LCS** Run ID: **CETAC2_HG_170201** Analysis Date: **2/1/2017 11:01:03 AM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00213	0.000200	0.00200	0	106	85	115			

Sample ID **LCSD-78975** Batch ID: **78975** TestNo: **SW7470A** Units: **mg/L**
SampType: **LCSD** Run ID: **CETAC2_HG_170201** Analysis Date: **2/1/2017 11:03:19 AM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00212	0.000200	0.00200	0	106	85	115	0.471	15	

Sample ID **1701222-02A SD** Batch ID: **78975** TestNo: **SW7470A** Units: **mg/L**
SampType: **SD** Run ID: **CETAC2_HG_170201** Analysis Date: **2/1/2017 11:19:12 AM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.000400	0.00100	0	0				0	10	

Sample ID **1701222-02A PDS** Batch ID: **78975** TestNo: **SW7470A** Units: **mg/L**
SampType: **PDS** Run ID: **CETAC2_HG_170201** Analysis Date: **2/1/2017 11:21:29 AM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00167	0.000200	0.00250	0	66.8	85	115			S

Sample ID **1701222-02A MS** Batch ID: **78975** TestNo: **SW7470A** Units: **mg/L**
SampType: **MS** Run ID: **CETAC2_HG_170201** Analysis Date: **2/1/2017 11:23:45 AM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00136	0.000200	0.00200	0	68.0	80	120			S

Sample ID **1701222-02A MSD** Batch ID: **78975** TestNo: **SW7470A** Units: **mg/L**
SampType: **MSD** Run ID: **CETAC2_HG_170201** Analysis Date: **2/1/2017 11:26:01 AM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00134	0.000200	0.00200	0	67.0	80	120	1.48	15	S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170201C**

Sample ID	**ICV-170201**	Batch ID:	**R90270**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 10:05:30 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00401	0.000200	0.00400	0	100	90	110			

Sample ID	**CCV1-170201**	Batch ID:	**R90270**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 10:51:57 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00197	0.000200	0.00200	0	98.5	90	110			

Sample ID	**CCV2-170201**	Batch ID:	**R90270**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 11:37:25 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00199	0.000200	0.00200	0	99.5	90	110			

Sample ID	**CCV3-170201**	Batch ID:	**R90270**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 11:58:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00196	0.000200	0.00200	0	98.0	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170201D**

The QC data in batch 78963 applies to the following samples: 1701264-01A, 1701264-02A, 1701264-04A, 1701264-05A, 1701264-06A, 1701264-07A, 1701264-09A, 1701264-11C, 1701264-12C, 1701264-13A, 1701264-14A

Sample ID **MB-78963** Batch ID: **78963** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **MBLK** Run ID: **CETAC2_HG_170201** Analysis Date: **2/1/2017 12:24:32 PM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0160	0.0400								

Sample ID **LCS-78963** Batch ID: **78963** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCS** Run ID: **CETAC2_HG_170201** Analysis Date: **2/1/2017 12:26:48 PM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.220	0.0400	0.2000	0	110	85	115			

Sample ID **LCSD-78963** Batch ID: **78963** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCSD** Run ID: **CETAC2_HG_170201** Analysis Date: **2/1/2017 12:29:04 PM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.216	0.0400	0.2000	0	108	85	115	1.83	25	

Sample ID **1701264-06A SD** Batch ID: **78963** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **CETAC2_HG_170201** Analysis Date: **2/1/2017 12:53:59 PM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.122	0.219	0	0.1108				9.88	10	

Sample ID **1701264-06A PDS** Batch ID: **78963** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **CETAC2_HG_170201** Analysis Date: **2/1/2017 12:56:15 PM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.376	0.0439	0.2742	0.1108	96.8	85	115			

Sample ID **1701264-06A MS** Batch ID: **78963** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **CETAC2_HG_170201** Analysis Date: **2/1/2017 12:58:31 PM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.348	0.0436	0.2180	0.1108	109	80	120			

Sample ID **1701264-06A MSD** Batch ID: **78963** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **CETAC2_HG_170201** Analysis Date: **2/1/2017 1:00:47 PM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.355	0.0430	0.2150	0.1108	113	80	120	2.03	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170201D**

Sample ID	**ICV-170201**	Batch ID:	**R90273**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 12:19:58 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00414	0.0400	0.004000	0	104	90	110			

Sample ID	**CCV1-170201**	Batch ID:	**R90273**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 1:03:05 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00198	0.0400	0.002000	0	99.0	90	110			

Sample ID	**CCV2-170201**	Batch ID:	**R90273**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 1:30:24 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00194	0.0400	0.002000	0	97.0	90	110			

Sample ID	**CCV3-170201**	Batch ID:	**R90273**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 2:13:07 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00194	0.0400	0.002000	0	97.0	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_161227C**

Sample ID	**DCS1-78429**	Batch ID:	**78429**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**ICP-MS4_161227C**	Analysis Date:	**12/27/2016 12:23:00 P**	Prep Date:	**12/22/2016**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.278	0.300	0.2500	0	111	80	120	0	0	
Cadmium	0.271	0.300	0.2500	0	108	80	120	0	0	
Lead	0.295	0.300	0.2500	0	118	80	120	0	0	
Silver	0.299	0.200	0.2500	0	120	80	120	0	0	

Sample ID	**DCS2-78429**	Batch ID:	**78429**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**ICP-MS4_161227C**	Analysis Date:	**12/27/2016 12:25:00 P**	Prep Date:	**12/22/2016**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	1.32	1.00	1.250	0	106	80	120	0	0	
Arsenic	1.27	1.00	1.250	0	102	80	120	0	0	
Barium	1.31	2.00	1.250	0	104	80	120	0	0	
Chromium	1.37	2.00	1.250	0	109	80	120	0	0	
Nickel	1.48	2.00	1.250	0	119	80	120	0	0	
Selenium	1.30	0.500	1.250	0	104	80	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170202A**

The QC data in batch 78989 applies to the following samples: 1701264-01A, 1701264-02A, 1701264-04A, 1701264-05A, 1701264-06A, 1701264-07A, 1701264-09A, 1701264-11C, 1701264-12C, 1701264-13A, 1701264-14A

Sample ID **MB-78989** Batch ID: **78989** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS4_170202A** Analysis Date: **2/2/2017 10:18:00 AM** Prep Date: **2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.500	1.00								
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Beryllium	<0.100	0.300								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Lead	<0.100	0.300								
Nickel	<0.500	2.00								
Selenium	<0.150	0.500								
Silver	<0.100	0.200								

Sample ID **LCS-78989** Batch ID: **78989** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS4_170202A** Analysis Date: **2/2/2017 10:31:00 AM** Prep Date: **2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	50.6	1.00	50.00	0	101	80	120			
Arsenic	52.3	1.00	50.00	0	105	80	120			
Barium	51.7	2.00	50.00	0	103	80	120			
Beryllium	50.8	0.300	50.00	0	102	80	120			
Cadmium	51.5	0.300	50.00	0	103	80	120			
Chromium	54.3	2.00	50.00	0	109	80	120			
Lead	54.3	0.300	50.00	0	109	80	120			
Nickel	54.7	2.00	50.00	0	109	80	120			
Selenium	51.6	0.500	50.00	0	103	80	120			
Silver	51.7	0.200	50.00	0	103	80	120			

Sample ID **LCSD-78989** Batch ID: **78989** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS4_170202A** Analysis Date: **2/2/2017 10:33:00 AM** Prep Date: **2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	51.4	1.00	50.00	0	103	80	120	1.56	25	
Arsenic	52.7	1.00	50.00	0	105	80	120	0.818	25	
Barium	51.9	2.00	50.00	0	104	80	120	0.410	25	
Beryllium	51.3	0.300	50.00	0	103	80	120	1.03	25	
Cadmium	51.7	0.300	50.00	0	103	80	120	0.490	25	
Chromium	54.9	2.00	50.00	0	110	80	120	1.02	25	
Lead	55.0	0.300	50.00	0	110	80	120	1.33	25	
Nickel	55.1	2.00	50.00	0	110	80	120	0.835	25	
Selenium	52.3	0.500	50.00	0	105	80	120	1.26	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170202A**

Sample ID	**LCSD-78989**	Batch ID:	**78989**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**LCSD**	Run ID:	**ICP-MS4_170202A**	Analysis Date:	**2/2/2017 10:33:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	51.4	0.200	50.00	0	103	80	120	0.605	25	

Sample ID	**1701264-06A SD**	Batch ID:	**78989**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**SD**	Run ID:	**ICP-MS4_170202A**	Analysis Date:	**2/2/2017 10:39:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<2.78	5.56	0	1.098				0	10	
Arsenic	4.49	5.56	0	4.552				1.47	10	
Barium	202	11.1	0	199.5				1.15	10	
Beryllium	<0.556	1.67	0	0.2006				0	10	
Cadmium	1.04	1.67	0	1.021				2.02	10	
Chromium	11.2	11.1	0	10.82				3.71	10	
Lead	214	1.67	0	207.0				3.55	10	
Nickel	8.40	11.1	0	8.034				4.45	10	
Selenium	1.16	2.78	0	0.9193				23.4	10	R
Silver	<0.556	1.11	0	0.1436				0	10	

Sample ID	**1701264-06A PDS**	Batch ID:	**78989**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**PDS**	Run ID:	**ICP-MS4_170202A**	Analysis Date:	**2/2/2017 10:59:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	53.0	1.11	55.57	1.098	93.3	80	120			
Arsenic	61.8	1.11	55.57	4.552	103	80	120			
Barium	261	2.22	55.57	199.5	110	80	120			
Beryllium	54.3	0.333	55.57	0.2006	97.3	80	120			
Cadmium	55.5	0.333	55.57	1.021	98.1	80	120			
Chromium	69.4	2.22	55.57	10.82	105	80	120			
Lead	267	0.333	55.57	207.0	108	80	120			
Nickel	63.9	2.22	55.57	8.034	101	80	120			
Selenium	56.2	0.556	55.57	0.9193	99.5	80	120			
Silver	53.4	0.222	55.57	0.1436	95.8	80	120			

Sample ID	**1701264-06A MS**	Batch ID:	**78989**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**ICP-MS4_170202A**	Analysis Date:	**2/2/2017 11:00:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	57.4	1.12	56.11	1.098	100	80	120			
Arsenic	64.4	1.12	56.11	4.552	107	80	120			
Barium	255	2.24	56.11	199.5	98.1	80	120			
Beryllium	56.9	0.337	56.11	0.2006	101	80	120			
Cadmium	58.5	0.337	56.11	1.021	102	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170202A**

Sample ID	**1701264-06A MS**	Batch ID:	**78989**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**ICP-MS4_170202A**	Analysis Date:	**2/2/2017 11:00:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	71.4	2.24	56.11	10.82	108	80	120			
Lead	242	0.337	56.11	207.0	62.0	80	120			S
Nickel	68.5	2.24	56.11	8.034	108	80	120			
Selenium	59.3	0.561	56.11	0.9193	104	80	120			
Silver	56.5	0.224	56.11	0.1436	101	80	120			

Sample ID	**1701264-06A MSD**	Batch ID:	**78989**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**ICP-MS4_170202A**	Analysis Date:	**2/2/2017 11:02:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	58.7	1.12	56.11	1.098	103	80	120	2.22	25	
Arsenic	68.2	1.12	56.11	4.552	114	80	120	5.82	25	
Barium	256	2.24	56.11	199.5	101	80	120	0.593	25	
Beryllium	57.5	0.337	56.11	0.2006	102	80	120	0.989	25	
Cadmium	60.0	0.337	56.11	1.021	105	80	120	2.55	25	
Chromium	77.7	2.24	56.11	10.82	119	80	120	8.46	25	
Lead	257	0.337	56.11	207.0	88.4	80	120	5.95	25	
Nickel	69.5	2.24	56.11	8.034	110	80	120	1.40	25	
Selenium	60.6	0.561	56.11	0.9193	106	80	120	2.03	25	
Silver	58.0	0.224	56.11	0.1436	103	80	120	2.46	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170202A**

Sample ID	**ICV-170202**	Batch ID:	**R90285**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**ICP-MS4_170202A**	Analysis Date:	**2/2/2017 10:07:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.0997	0.00250	0.100	0	99.7	90	110			
Arsenic	0.101	0.00500	0.100	0	101	90	110			
Barium	0.100	0.0100	0.100	0	100	90	110			
Beryllium	0.101	0.00100	0.100	0	101	90	110			
Cadmium	0.101	0.00100	0.100	0	101	90	110			
Chromium	0.107	0.00500	0.100	0	107	90	110			
Lead	0.102	0.00100	0.100	0	102	90	110			
Nickel	0.103	0.0100	0.100	0	103	90	110			
Selenium	0.0962	0.00500	0.100	0	96.2	90	110			
Silver	0.103	0.00200	0.100	0	103	90	110			

Sample ID	**LCVL-170202**	Batch ID:	**R90285**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170202A**	Analysis Date:	**2/2/2017 10:12:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00197	0.00250	0.00200	0	98.6	70	130			
Arsenic	0.00505	0.00500	0.00500	0	101	70	130			
Barium	0.00498	0.0100	0.00500	0	99.5	70	130			
Beryllium	0.00103	0.00100	0.00100	0	103	70	130			
Cadmium	0.00102	0.00100	0.00100	0	102	70	130			
Chromium	0.00510	0.00500	0.00500	0	102	70	130			
Lead	0.00102	0.00100	0.00100	0	102	70	130			
Nickel	0.00510	0.0100	0.00500	0	102	70	130			
Selenium	0.00528	0.00500	0.00500	0	106	70	130			
Silver	0.00202	0.00200	0.00200	0	101	70	130			

Sample ID	**CCV1-170202**	Batch ID:	**R90285**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_170202A**	Analysis Date:	**2/2/2017 11:08:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.199	0.00250	0.200	0	99.3	90	110			
Arsenic	0.203	0.00500	0.200	0	102	90	110			
Barium	0.200	0.0100	0.200	0	100	90	110			
Beryllium	0.203	0.00100	0.200	0	101	90	110			
Cadmium	0.203	0.00100	0.200	0	101	90	110			
Chromium	0.208	0.00500	0.200	0	104	90	110			
Lead	0.210	0.00100	0.200	0	105	90	110			
Nickel	0.207	0.0100	0.200	0	104	90	110			
Selenium	0.201	0.00500	0.200	0	100	90	110			
Silver	0.199	0.00200	0.200	0	99.4	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170202A**

Sample ID **LCVL1-170202** Batch ID: **R90285** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170202A** Analysis Date: **2/2/2017 11:35:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00193	0.00250	0.00200	0	96.4	70	130			
Arsenic	0.00490	0.00500	0.00500	0	98.0	70	130			
Barium	0.00491	0.0100	0.00500	0	98.3	70	130			
Beryllium	0.00111	0.00100	0.00100	0	111	70	130			
Cadmium	0.00105	0.00100	0.00100	0	105	70	130			
Chromium	0.00517	0.00500	0.00500	0	103	70	130			
Lead	0.00123	0.00100	0.00100	0	123	70	130			
Nickel	0.00508	0.0100	0.00500	0	102	70	130			
Selenium	0.00479	0.00500	0.00500	0	95.8	70	130			
Silver	0.00199	0.00200	0.00200	0	99.3	70	130			

Sample ID **CCV2-170202** Batch ID: **R90285** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_170202A** Analysis Date: **2/2/2017 12:01:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.197	0.00250	0.200	0	98.6	90	110			
Arsenic	0.203	0.00500	0.200	0	102	90	110			
Barium	0.202	0.0100	0.200	0	101	90	110			
Beryllium	0.198	0.00100	0.200	0	98.9	90	110			
Cadmium	0.200	0.00100	0.200	0	100	90	110			
Chromium	0.208	0.00500	0.200	0	104	90	110			
Lead	0.208	0.00100	0.200	0	104	90	110			
Nickel	0.206	0.0100	0.200	0	103	90	110			
Selenium	0.201	0.00500	0.200	0	101	90	110			
Silver	0.197	0.00200	0.200	0	98.6	90	110			

Sample ID **LCVL2-170202** Batch ID: **R90285** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170202A** Analysis Date: **2/2/2017 12:09:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00187	0.00250	0.00200	0	93.7	70	130			
Arsenic	0.00499	0.00500	0.00500	0	99.8	70	130			
Barium	0.00485	0.0100	0.00500	0	97.0	70	130			
Beryllium	0.000908	0.00100	0.00100	0	90.8	70	130			
Cadmium	0.000985	0.00100	0.00100	0	98.5	70	130			
Chromium	0.00497	0.00500	0.00500	0	99.5	70	130			
Lead	0.00116	0.00100	0.00100	0	116	70	130			
Nickel	0.00499	0.0100	0.00500	0	99.8	70	130			
Selenium	0.00512	0.00500	0.00500	0	102	70	130			
Silver	0.00195	0.00200	0.00200	0	97.4	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170202B**

The QC data in batch 78981 applies to the following samples: 1701264-03A, 1701264-08A

Sample ID **DCS1-78981** Batch ID: **78981** TestNo: **SW6020A** Units: **mg/L**
SampType: **DCS** Run ID: **ICP-MS4_170202B** Analysis Date: **2/2/2017 10:23:00 AM** Prep Date: **2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.000987	0.00250	0.00100	0	98.7	80	120			
Beryllium	0.000445	0.00100	0.000500	0	89.0	80	120			
Cadmium	0.000531	0.00100	0.000500	0	106	80	120			
Lead	0.000526	0.00100	0.000500	0	105	80	120			

Sample ID **DCS2-78981** Batch ID: **78981** TestNo: **SW6020A** Units: **mg/L**
SampType: **DCS2** Run ID: **ICP-MS4_170202B** Analysis Date: **2/2/2017 10:25:00 AM** Prep Date: **2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.00224	0.00500	0.00200	0	112	80	120			
Nickel	0.00221	0.0100	0.00200	0	111	80	120			
Silver	0.00204	0.00200	0.00200	0	102	80	120			

Sample ID **DCS3-78981** Batch ID: **78981** TestNo: **SW6020A** Units: **mg/L**
SampType: **DCS3** Run ID: **ICP-MS4_170202B** Analysis Date: **2/2/2017 10:27:00 AM** Prep Date: **2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00519	0.00500	0.00500	0	104	80	120			
Barium	0.00532	0.0100	0.00500	0	106	80	120			
Selenium	0.00511	0.00500	0.00500	0	102	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170202A**

The QC data in batch 78981 applies to the following samples: 1701264-03A, 1701264-08A

Sample ID **MB-78981** Batch ID: **78981** TestNo: **SW6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS5_170202A** Analysis Date: **2/2/2017 11:02:00 AM** Prep Date: **2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.000800	0.00250								
Arsenic	<0.00200	0.00500								
Barium	<0.00300	0.0100								
Beryllium	<0.000300	0.00100								
Cadmium	<0.000300	0.00100								
Chromium	<0.00200	0.00500								
Lead	<0.000300	0.00100								
Nickel	<0.00300	0.0100								
Selenium	<0.00200	0.00500								
Silver	<0.00100	0.00200								

Sample ID **LCS-78981** Batch ID: **78981** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS5_170202A** Analysis Date: **2/2/2017 11:04:00 AM** Prep Date: **2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.200	0.00250	0.200	0	100	80	120			
Arsenic	0.208	0.00500	0.200	0	104	80	120			
Barium	0.205	0.0100	0.200	0	102	80	120			
Beryllium	0.201	0.00100	0.200	0	101	80	120			
Cadmium	0.209	0.00100	0.200	0	104	80	120			
Chromium	0.206	0.00500	0.200	0	103	80	120			
Lead	0.206	0.00100	0.200	0	103	80	120			
Nickel	0.208	0.0100	0.200	0	104	80	120			
Selenium	0.207	0.00500	0.200	0	104	80	120			
Silver	0.201	0.00200	0.200	0	100	80	120			

Sample ID **LCSD-78981** Batch ID: **78981** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS5_170202A** Analysis Date: **2/2/2017 11:05:00 AM** Prep Date: **2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.201	0.00250	0.200	0	101	80	120	0.622	15	
Arsenic	0.206	0.00500	0.200	0	103	80	120	0.940	15	
Barium	0.204	0.0100	0.200	0	102	80	120	0.078	15	
Beryllium	0.204	0.00100	0.200	0	102	80	120	1.45	15	
Cadmium	0.207	0.00100	0.200	0	103	80	120	0.899	15	
Chromium	0.204	0.00500	0.200	0	102	80	120	0.583	15	
Lead	0.204	0.00100	0.200	0	102	80	120	1.10	15	
Nickel	0.205	0.0100	0.200	0	103	80	120	1.06	15	
Selenium	0.201	0.00500	0.200	0	100	80	120	3.04	15	
Silver	0.199	0.00200	0.200	0	99.7	80	120	0.588	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170202A**

Sample ID	**1701220-05A SD**	Batch ID:	**78981**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**SD**	Run ID:	**ICP-MS5_170202A**	Analysis Date:	**2/2/2017 11:16:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.00400	0.0125	0	0				0	10	
Arsenic	<0.0100	0.0250	0	0				0	10	
Barium	0.0506	0.0500	0	0.0505				0.111	10	
Beryllium	<0.00150	0.00500	0	0				0	10	
Cadmium	<0.00150	0.00500	0	0				0	10	
Chromium	<0.0100	0.0250	0	0				0	10	
Lead	<0.00150	0.00500	0	0				0	10	
Nickel	<0.0150	0.0500	0	0				0	10	
Selenium	<0.0100	0.0250	0	0				0	10	
Silver	<0.00500	0.0100	0	0				0	10	

Sample ID	**1701220-05A PDS**	Batch ID:	**78981**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**PDS**	Run ID:	**ICP-MS5_170202A**	Analysis Date:	**2/2/2017 11:34:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.186	0.00250	0.200	0	93.0	80	120			
Arsenic	0.196	0.00500	0.200	0	98.1	80	120			
Barium	0.249	0.0100	0.200	0.0505	99.3	80	120			
Beryllium	0.218	0.00100	0.200	0	109	80	120			
Cadmium	0.198	0.00100	0.200	0	99.0	80	120			
Chromium	0.207	0.00500	0.200	0	104	80	120			
Lead	0.198	0.00100	0.200	0	99.0	80	120			
Nickel	0.192	0.0100	0.200	0	96.2	80	120			
Selenium	0.191	0.00500	0.200	0	95.3	80	120			
Silver	0.186	0.00200	0.200	0	93.1	80	120			

Sample ID	**1701220-05A MS**	Batch ID:	**78981**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**ICP-MS5_170202A**	Analysis Date:	**2/2/2017 11:35:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.201	0.00250	0.200	0	101	80	120			
Arsenic	0.203	0.00500	0.200	0	102	80	120			
Barium	0.255	0.0100	0.200	0.0505	102	80	120			
Beryllium	0.226	0.00100	0.200	0	113	80	120			
Cadmium	0.203	0.00100	0.200	0	102	80	120			
Chromium	0.206	0.00500	0.200	0	103	80	120			
Lead	0.205	0.00100	0.200	0	103	80	120			
Nickel	0.201	0.0100	0.200	0	101	80	120			
Selenium	0.199	0.00500	0.200	0	99.5	80	120			
Silver	0.193	0.00200	0.200	0	96.7	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170202A**

Sample ID	**1701220-05A MSD**	Batch ID:	**78981**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**ICP-MS5_170202A**	Analysis Date:	**2/2/2017 11:37:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.202	0.00250	0.200	0	101	80	120	0.276	15	
Arsenic	0.202	0.00500	0.200	0	101	80	120	0.700	15	
Barium	0.255	0.0100	0.200	0.0505	102	80	120	0.096	15	
Beryllium	0.223	0.00100	0.200	0	111	80	120	1.16	15	
Cadmium	0.204	0.00100	0.200	0	102	80	120	0.554	15	
Chromium	0.208	0.00500	0.200	0	104	80	120	0.542	15	
Lead	0.205	0.00100	0.200	0	103	80	120	0.034	15	
Nickel	0.200	0.0100	0.200	0	100	80	120	0.431	15	
Selenium	0.199	0.00500	0.200	0	99.3	80	120	0.267	15	
Silver	0.194	0.00200	0.200	0	97.2	80	120	0.515	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170202A**

Sample ID	**ICV-170202**	Batch ID:	**R90287**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**ICP-MS5_170202A**	Analysis Date:	**2/2/2017 10:41:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.0981	0.00250	0.100	0	98.1	90	110			
Arsenic	0.100	0.00500	0.100	0	100	90	110			
Barium	0.0990	0.0100	0.100	0	99.0	90	110			
Beryllium	0.0968	0.00100	0.100	0	96.8	90	110			
Cadmium	0.101	0.00100	0.100	0	101	90	110			
Chromium	0.102	0.00500	0.100	0	102	90	110			
Lead	0.100	0.00100	0.100	0	100	90	110			
Nickel	0.101	0.0100	0.100	0	101	90	110			
Selenium	0.0979	0.00500	0.100	0	97.9	90	110			
Silver	0.0973	0.00200	0.100	0	97.3	90	110			

Sample ID	**LCVL-170202**	Batch ID:	**R90287**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS5_170202A**	Analysis Date:	**2/2/2017 10:44:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00191	0.00250	0.00200	0	95.4	70	130			
Arsenic	0.00506	0.00500	0.00500	0	101	70	130			
Barium	0.00502	0.0100	0.00500	0	100	70	130			
Beryllium	0.000988	0.00100	0.00100	0	98.8	70	130			
Cadmium	0.00103	0.00100	0.00100	0	103	70	130			
Chromium	0.00514	0.00500	0.00500	0	103	70	130			
Lead	0.00108	0.00100	0.00100	0	108	70	130			
Nickel	0.00498	0.0100	0.00500	0	99.5	70	130			
Selenium	0.00496	0.00500	0.00500	0	99.2	70	130			
Silver	0.00194	0.00200	0.00200	0	96.8	70	130			

Sample ID	**CCV1-170202**	Batch ID:	**R90287**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS5_170202A**	Analysis Date:	**2/2/2017 11:42:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.195	0.00250	0.200	0	97.5	90	110			
Arsenic	0.202	0.00500	0.200	0	101	90	110			
Barium	0.200	0.0100	0.200	0	99.9	90	110			
Beryllium	0.219	0.00100	0.200	0	109	90	110			
Cadmium	0.199	0.00100	0.200	0	99.5	90	110			
Chromium	0.204	0.00500	0.200	0	102	90	110			
Lead	0.199	0.00100	0.200	0	99.4	90	110			
Nickel	0.213	0.0100	0.200	0	106	90	110			
Selenium	0.202	0.00500	0.200	0	101	90	110			
Silver	0.191	0.00200	0.200	0	95.5	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170202A**

Sample ID	**LCVL1-170202**	Batch ID:	**R90287**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS5_170202A**	Analysis Date:	**2/2/2017 11:46:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00199	0.00250	0.00200	0	99.4	70	130			
Arsenic	0.00490	0.00500	0.00500	0	98.0	70	130			
Barium	0.00491	0.0100	0.00500	0	98.1	70	130			
Beryllium	0.00103	0.00100	0.00100	0	103	70	130			
Cadmium	0.00104	0.00100	0.00100	0	104	70	130			
Chromium	0.00486	0.00500	0.00500	0	97.2	70	130			
Lead	0.00102	0.00100	0.00100	0	102	70	130			
Nickel	0.00514	0.0100	0.00500	0	103	70	130			
Selenium	0.00504	0.00500	0.00500	0	101	70	130			
Silver	0.00189	0.00200	0.00200	0	94.5	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170103A**

Sample ID **DCS-78566**	Batch ID: **78566**	TestNo: **SW8270D-LL**	Units: **mg/L**
SampType: **DCS**	Run ID: **GCMS6_170103A**	Analysis Date: **1/3/2017 5:04:00 PM**	Prep Date: **1/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0000312	0.000200	0.0000400	0	78.0	20	170	0	0	
Acenaphthylene	0.0000328	0.000200	0.0000400	0	82.1	20	170	0	0	
Anthracene	0.0000346	0.000200	0.0000400	0	86.6	20	170	0	0	
Benzo[a]anthracene	0.0000363	0.000200	0.0000400	0	90.7	20	170	0	0	
Benzo[a]pyrene	0.0000347	0.000200	0.0000400	0	86.8	20	170	0	0	
Benzo[b]fluoranthene	0.0000351	0.000200	0.0000400	0	87.9	20	170	0	0	
Benzo[g,h,i]perylene	0.0000348	0.000200	0.0000400	0	87.1	20	170	0	0	
Benzo[k]fluoranthene	0.0000345	0.000200	0.0000400	0	86.2	20	170	0	0	
Chrysene	0.0000359	0.000200	0.0000400	0	89.7	20	170	0	0	
Dibenz[a,h]anthracene	0.0000335	0.000200	0.0000400	0	83.9	20	170	0	0	
Fluoranthene	0.0000370	0.000200	0.0000400	0	92.4	20	170	0	0	
Fluorene	0.0000333	0.000200	0.0000400	0	83.3	20	170	0	0	
Indeno[1,2,3-cd]pyrene	0.0000335	0.000200	0.0000400	0	83.9	20	170	0	0	
Naphthalene	0.0000346	0.000200	0.0000400	0	86.6	20	170	0	0	
Phenanthrene	0.0000360	0.000200	0.0000400	0	90.0	20	170	0	0	
Pyrene	0.0000330	0.000200	0.0000400	0	82.6	20	170	0	0	

Sample ID **DCS-78566**	Batch ID: **78566**	TestNo: **SW8270D-LL**	Units: **mg/L**
SampType: **DCS**	Run ID: **GCMS6_170103A**	Analysis Date: **1/3/2017 5:04:00 PM**	Prep Date: **1/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0000312	0.0000500	0.0000400	0	78.0	20	200	0	0	
Acenaphthylene	0.0000328	0.0000500	0.0000400	0	82.1	20	200	0	0	
Anthracene	0.0000346	0.0000500	0.0000400	0	86.6	20	200	0	0	
Benzo[a]anthracene	0.0000363	0.0000500	0.0000400	0	90.7	20	200	0	0	
Benzo[a]pyrene	0.0000347	0.0000500	0.0000400	0	86.8	20	200	0	0	
Benzo[b]fluoranthene	0.0000351	0.0000500	0.0000400	0	87.9	20	200	0	0	
Benzo[g,h,i]perylene	0.0000348	0.0000500	0.0000400	0	87.1	20	200	0	0	
Benzo[k]fluoranthene	0.0000345	0.0000500	0.0000400	0	86.2	20	200	0	0	
Chrysene	0.0000359	0.0000500	0.0000400	0	89.7	20	200	0	0	
Dibenz[a,h]anthracene	0.0000335	0.0000500	0.0000400	0	83.9	20	200	0	0	
Fluoranthene	0.0000370	0.0000500	0.0000400	0	92.4	20	200	0	0	
Fluorene	0.0000333	0.0000500	0.0000400	0	83.3	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.0000335	0.0000500	0.0000400	0	83.9	20	200	0	0	
Naphthalene	0.0000346	0.0000500	0.0000400	0	86.6	20	200	0	0	
Phenanthrene	0.0000360	0.0000500	0.0000400	0	90.0	20	200	0	0	
Pyrene	0.0000330	0.0000500	0.0000400	0	82.6	20	200	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170104A**

Sample ID **DCS-78416**	Batch ID: **78416**	TestNo: **SW8270D-LL**	Units: **mg/Kg**
SampType: **DCS**	Run ID: **GCMS6_170104A**	Analysis Date: **1/4/2017 2:16:00 PM**	Prep Date: **12/21/2016**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0105	0.0500	0.01000	0	105	20	200	0	0	
Acenaphthylene	0.0106	0.0500	0.01000	0	106	20	200	0	0	
Anthracene	0.0103	0.0500	0.01000	0	103	20	200	0	0	
Benzo[a]anthracene	0.0118	0.0500	0.01000	0	118	20	200	0	0	
Benzo[a]pyrene	0.0109	0.0500	0.01000	0	109	20	200	0	0	
Benzo[b]fluoranthene	0.0116	0.0500	0.01000	0	116	20	200	0	0	
Benzo[g,h,i]perylene	0.0124	0.0500	0.01000	0	124	20	200	0	0	
Benzo[k]fluoranthene	0.0126	0.0500	0.01000	0	127	20	200	0	0	
Chrysene	0.0124	0.0500	0.01000	0	124	20	200	0	0	
Dibenz[a,h]anthracene	0.0120	0.0500	0.01000	0	120	20	200	0	0	
Fluoranthene	0.0117	0.0500	0.01000	0	117	20	200	0	0	
Fluorene	0.0108	0.0500	0.01000	0	108	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.0122	0.0500	0.01000	0	122	20	200	0	0	
Naphthalene	0.0108	0.0500	0.01000	0	108	20	200	0	0	
Phenanthrene	0.0118	0.0500	0.01000	0	118	20	200	0	0	
Pyrene	0.0115	0.0500	0.01000	0	115	20	200	0	0	

Sample ID **DCS-78416**	Batch ID: **78416**	TestNo: **SW8270D-LL**	Units: **mg/Kg**
SampType: **DCS**	Run ID: **GCMS6_170104A**	Analysis Date: **1/4/2017 2:16:00 PM**	Prep Date: **12/21/2016**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0105	0.0100	0.01000	0	105	20	200	0	0	
Acenaphthylene	0.0106	0.0100	0.01000	0	106	20	200	0	0	
Anthracene	0.0103	0.0100	0.01000	0	103	20	200	0	0	
Benzo[a]anthracene	0.0118	0.0100	0.01000	0	118	20	200	0	0	
Benzo[a]pyrene	0.0109	0.0100	0.01000	0	109	20	200	0	0	
Benzo[b]fluoranthene	0.0116	0.0100	0.01000	0	116	20	200	0	0	
Benzo[g,h,i]perylene	0.0124	0.0100	0.01000	0	124	20	200	0	0	
Benzo[k]fluoranthene	0.0126	0.0100	0.01000	0	127	20	200	0	0	
Chrysene	0.0124	0.0100	0.01000	0	124	20	200	0	0	
Dibenz[a,h]anthracene	0.0120	0.0100	0.01000	0	120	20	200	0	0	
Fluoranthene	0.0117	0.0100	0.01000	0	117	20	200	0	0	
Fluorene	0.0108	0.0100	0.01000	0	108	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.0122	0.0100	0.01000	0	122	20	200	0	0	
Naphthalene	0.0108	0.0100	0.01000	0	108	20	200	0	0	
Phenanthrene	0.0118	0.0100	0.01000	0	118	20	200	0	0	
Pyrene	0.0115	0.0100	0.01000	0	115	20	200	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170201B**

The QC data in batch 78987 applies to the following samples: 1701264-03B, 1701264-08B

Sample ID **LCS-78987** Batch ID: **78987** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS6_170201B** Analysis Date: **2/1/2017 5:27:00 PM** Prep Date: **2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00323	0.0000500	0.00400	0	80.8	47	120			
Acenaphthylene	0.00328	0.0000500	0.00400	0	81.9	50	120			
Anthracene	0.00326	0.0000500	0.00400	0	81.6	54	120			
Benzo[a]anthracene	0.00378	0.0000500	0.00400	0	94.6	56	100			
Benzo[a]pyrene	0.00394	0.0000500	0.00400	0	98.5	53	120			
Benzo[b]fluoranthene	0.00386	0.0000500	0.00400	0	96.6	45	124			
Benzo[g,h,i]perylene	0.00402	0.0000500	0.00400	0	101	38	123			
Benzo[k]fluoranthene	0.00382	0.0000500	0.00400	0	95.6	45	124			
Chrysene	0.00373	0.0000500	0.00400	0	93.2	55	120			
Dibenz[a,h]anthracene	0.00401	0.0000500	0.00400	0	100	42	127			
Fluoranthene	0.00352	0.0000500	0.00400	0	88.0	54	120			
Fluorene	0.00335	0.0000500	0.00400	0	83.8	50	120			
Indeno[1,2,3-cd]pyrene	0.00386	0.0000500	0.00400	0	96.6	43	125			
Naphthalene	0.00291	0.0000500	0.00400	0	72.7	39	120			
Phenanthrene	0.00333	0.0000500	0.00400	0	83.3	51	120			
Pyrene	0.00344	0.0000500	0.00400	0	86.0	49	128			
Surr: 2-Fluorobiphenyl	4.64		8.000		58.0	48	120			
Surr: 4-Terphenyl-d14	5.48		8.000		68.5	51	135			

Sample ID **LCSD-78987** Batch ID: **78987** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **LCSD** Run ID: **GCMS6_170201B** Analysis Date: **2/1/2017 5:56:00 PM** Prep Date: **2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00326	0.0000500	0.00400	0	81.4	47	120	0.758	20	
Acenaphthylene	0.00331	0.0000500	0.00400	0	82.8	50	120	1.09	20	
Anthracene	0.00317	0.0000500	0.00400	0	79.2	54	120	2.98	20	
Benzo[a]anthracene	0.00365	0.0000500	0.00400	0	91.3	56	100	3.54	20	
Benzo[a]pyrene	0.00380	0.0000500	0.00400	0	95.0	53	120	3.67	20	
Benzo[b]fluoranthene	0.00378	0.0000500	0.00400	0	94.4	45	124	2.26	20	
Benzo[g,h,i]perylene	0.00378	0.0000500	0.00400	0	94.5	38	123	6.24	20	
Benzo[k]fluoranthene	0.00366	0.0000500	0.00400	0	91.6	45	124	4.21	20	
Chrysene	0.00359	0.0000500	0.00400	0	89.8	55	120	3.76	20	
Dibenz[a,h]anthracene	0.00378	0.0000500	0.00400	0	94.4	42	127	5.91	20	
Fluoranthene	0.00337	0.0000500	0.00400	0	84.4	54	120	4.26	20	
Fluorene	0.00340	0.0000500	0.00400	0	85.0	50	120	1.38	20	
Indeno[1,2,3-cd]pyrene	0.00364	0.0000500	0.00400	0	91.1	43	125	5.83	20	
Naphthalene	0.00293	0.0000500	0.00400	0	73.3	39	120	0.788	20	
Phenanthrene	0.00333	0.0000500	0.00400	0	83.3	51	120	0.021	20	
Pyrene	0.00331	0.0000500	0.00400	0	82.9	49	128	3.75	20	
Surr: 2-Fluorobiphenyl	4.80		8.000		60.0	48	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170201B**

Sample ID	**LCSD-78987**	Batch ID:	**78987**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**GCMS6_170201B**	Analysis Date:	**2/1/2017 5:56:00 PM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	5.25		8.000		65.6	51	135	0	0	

Sample ID	**MB-78987**	Batch ID:	**78987**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**GCMS6_170201B**	Analysis Date:	**2/1/2017 7:25:00 PM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.0000250	0.0000500								
Acenaphthylene	<0.0000250	0.0000500								
Anthracene	<0.0000250	0.0000500								
Benzo[a]anthracene	<0.0000250	0.0000500								
Benzo[a]pyrene	<0.0000250	0.0000500								
Benzo[b]fluoranthene	<0.0000250	0.0000500								
Benzo[g,h,i]perylene	<0.0000250	0.0000500								
Benzo[k]fluoranthene	<0.0000250	0.0000500								
Chrysene	<0.0000250	0.0000500								
Dibenz[a,h]anthracene	<0.0000250	0.0000500								
Fluoranthene	<0.0000250	0.0000500								
Fluorene	<0.0000250	0.0000500								
Indeno[1,2,3-cd]pyrene	<0.0000250	0.0000500								
Naphthalene	<0.0000250	0.0000500								
Phenanthrene	<0.0000250	0.0000500								
Pyrene	<0.0000250	0.0000500								
Surr: 2-Fluorobiphenyl	5.02		8.000		62.7	48	120			
Surr: 4-Terphenyl-d14	5.54		8.000		69.3	51	135			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170201B**

Sample ID	**ICV-170201**	Batch ID:	**R90280**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**GCMS6_170201B**	Analysis Date:	**2/1/2017 12:28:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.85	0.0000500	2.00	0	92.6	80	120			
Acenaphthylene	1.88	0.0000500	2.00	0	94.0	80	120			
Anthracene	1.82	0.0000500	2.00	0	90.9	80	120			
Benzo[a]anthracene	1.96	0.0000500	2.00	0	97.9	80	120			
Benzo[a]pyrene	2.07	0.0000500	2.00	0	103	80	120			
Benzo[b]fluoranthene	2.02	0.0000500	2.00	0	101	80	120			
Benzo[g,h,i]perylene	2.13	0.0000500	2.00	0	107	80	120			
Benzo[k]fluoranthene	2.02	0.0000500	2.00	0	101	80	120			
Chrysene	1.95	0.0000500	2.00	0	97.7	80	120			
Dibenz[a,h]anthracene	2.13	0.0000500	2.00	0	106	80	120			
Fluoranthene	1.85	0.0000500	2.00	0	92.6	80	120			
Fluorene	1.89	0.0000500	2.00	0	94.4	80	120			
Indeno[1,2,3-cd]pyrene	2.05	0.0000500	2.00	0	103	80	120			
Naphthalene	1.76	0.0000500	2.00	0	88.1	80	120			
Phenanthrene	1.81	0.0000500	2.00	0	90.3	80	120			
Pyrene	1.83	0.0000500	2.00	0	91.3	80	120			
Surr: 2-Fluorobiphenyl	1800		2000		90.0	65	120			
Surr: 4-Terphenyl-d14	1950		2000		97.6	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170203A**

The QC data in batch 79031 applies to the following samples: 1701264-01A, 1701264-02A, 1701264-04A, 1701264-05A, 1701264-06A, 1701264-07A, 1701264-09A, 1701264-11C, 1701264-12C, 1701264-13A, 1701264-14A

Sample ID **LCS-79031** Batch ID: **79031** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS6_170203A** Analysis Date: **2/3/2017 3:48:00 PM** Prep Date: **2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.880	0.0100	1.000	0	88.0	46	125			
Acenaphthylene	0.901	0.0100	1.000	0	90.1	44	125			
Anthracene	0.897	0.0100	1.000	0	89.7	53	125			
Benzo[a]anthracene	1.00	0.0100	1.000	0	100	52	125			
Benzo[a]pyrene	0.982	0.0100	1.000	0	98.2	50	125			
Benzo[b]fluoranthene	1.05	0.0100	1.000	0	105	45	125			
Benzo[g,h,i]perylene	1.06	0.0100	1.000	0	106	38	126			
Benzo[k]fluoranthene	0.997	0.0100	1.000	0	99.7	45	125			
Chrysene	1.01	0.0100	1.000	0	101	53	125			
Dibenz[a,h]anthracene	1.05	0.0100	1.000	0	105	41	125			
Fluoranthene	0.932	0.0100	1.000	0	93.2	54	125			
Fluorene	0.925	0.0100	1.000	0	92.5	49	125			
Indeno[1,2,3-cd]pyrene	1.03	0.0100	1.000	0	103	38	125			
Naphthalene	0.795	0.0100	1.000	0	79.5	40	125			
Phenanthrene	0.916	0.0100	1.000	0	91.6	50	125			
Pyrene	0.935	0.0100	1.000	0	93.5	46	125			
Surr: 2-Fluorobiphenyl	0.738		1.000		73.8	43	125			
Surr: 4-Terphenyl-d14	0.840		1.000		84.0	32	125			

Sample ID **MB-79031** Batch ID: **79031** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS6_170203A** Analysis Date: **2/3/2017 4:48:00 PM** Prep Date: **2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100								
Acenaphthylene	<0.00500	0.0100								
Anthracene	<0.00500	0.0100								
Benzo[a]anthracene	<0.00500	0.0100								
Benzo[a]pyrene	<0.00500	0.0100								
Benzo[b]fluoranthene	<0.00500	0.0100								
Benzo[g,h,i]perylene	<0.00500	0.0100								
Benzo[k]fluoranthene	<0.00500	0.0100								
Chrysene	<0.00500	0.0100								
Dibenz[a,h]anthracene	<0.00500	0.0100								
Fluoranthene	<0.00500	0.0100								
Fluorene	<0.00500	0.0100								
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100								
Naphthalene	<0.00500	0.0100								
Phenanthrene	<0.00500	0.0100								
Pyrene	<0.00500	0.0100								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170203A**

Sample ID **MB-79031** Batch ID: **79031** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS6_170203A** Analysis Date: **2/3/2017 4:48:00 PM** Prep Date: **2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	0.674		1.000		67.4	43	125			
Surr: 4-Terphenyl-d14	0.808		1.000		80.8	32	125			

Sample ID **1701264-06AMS** Batch ID: **79031** TestNo: **SW8270D-LL** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GCMS6_170203A** Analysis Date: **2/3/2017 11:44:00 PM** Prep Date: **2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.03	0.0552	1.105	0.4306	54.5	46	125			
Acenaphthylene	1.16	0.0552	1.105	0.2761	80.2	44	125			
Anthracene	1.46	0.0552	1.105	1.258	18.2	53	125			S
Benzo[a]anthracene	2.51	0.0552	1.105	3.404	-80.9	52	125			S
Benzo[a]pyrene	2.59	0.0552	1.105	3.041	-40.9	50	125			S
Benzo[b]fluoranthene	2.37	0.0552	1.105	2.662	-26.7	45	125			S
Benzo[g,h,i]perylene	2.22	0.0552	1.105	1.933	26.1	38	126			S
Benzo[k]fluoranthene	1.72	0.0552	1.105	1.485	21.6	45	125			S
Chrysene	2.63	0.0552	1.105	3.480	-76.9	53	125			S
Dibenz[a,h]anthracene	1.26	0.0552	1.105	0.5383	65.6	41	125			
Fluoranthene	4.27	0.0552	1.105	7.839	-323	54	125			S
Fluorene	1.14	0.0552	1.105	0.6387	45.7	49	125			S
Indeno[1,2,3-cd]pyrene	2.10	0.0552	1.105	2.065	2.95	38	125			S
Naphthalene	0.859	0.0552	1.105	0.1075	68.0	40	125			
Phenanthrene	3.06	0.0552	1.105	6.008	-267	50	125			S
Pyrene	3.52	0.0552	1.105	5.861	-212	46	125			S
Surr: 2-Fluorobiphenyl	0.777		1.105		70.3	43	125			
Surr: 4-Terphenyl-d14	0.743		1.105		67.3	32	125			

Sample ID **1701264-06AMSD** Batch ID: **79031** TestNo: **SW8270D-LL** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS6_170203A** Analysis Date: **2/4/2017 12:13:00 AM** Prep Date: **2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.992	0.0551	1.103	0.4306	50.9	46	125	4.05	30	
Acenaphthylene	1.10	0.0551	1.103	0.2761	74.8	44	125	5.48	30	
Anthracene	1.33	0.0551	1.103	1.258	6.80	53	125	9.02	30	S
Benzo[a]anthracene	2.19	0.0551	1.103	3.404	-110	52	125	13.5	30	S
Benzo[a]pyrene	2.29	0.0551	1.103	3.041	-68.0	50	125	12.2	30	S
Benzo[b]fluoranthene	2.17	0.0551	1.103	2.662	-44.6	45	125	8.71	30	S
Benzo[g,h,i]perylene	1.92	0.0551	1.103	1.933	-1.54	38	126	14.8	30	S
Benzo[k]fluoranthene	1.58	0.0551	1.103	1.485	9.06	45	125	8.39	30	S
Chrysene	2.34	0.0551	1.103	3.480	-104	53	125	11.8	30	S
Dibenz[a,h]anthracene	1.21	0.0551	1.103	0.5383	60.7	41	125	4.53	30	
Fluoranthene	3.61	0.0551	1.103	7.839	-384	54	125	17.0	30	S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_170203A

Sample ID	**1701264-06AMSD**	Batch ID:	**79031**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**GCMS6_170203A**	Analysis Date:	**2/4/2017 12:13:00 AM**	Prep Date:	**2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	1.09	0.0551	1.103	0.6387	41.1	49	125	4.65	30	S
Indeno[1,2,3-cd]pyrene	1.93	0.0551	1.103	2.065	-12.5	38	125	8.47	30	S
Naphthalene	0.853	0.0551	1.103	0.1075	67.6	40	125	0.663	30	
Phenanthrene	2.57	0.0551	1.103	6.008	-312	50	125	17.3	30	S
Pyrene	2.99	0.0551	1.103	5.861	-260	46	125	16.3	30	S
Surr: 2-Fluorobiphenyl	0.778		1.103		70.6	43	125	0	0	
Surr: 4-Terphenyl-d14	0.727		1.103		65.9	32	125	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170203A**

Sample ID	**ICV-170203**	Batch ID:	**R90325**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS6_170203A**	Analysis Date:	**2/3/2017 3:18:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.87	0.0100	2.000	0	93.6	80	120			
Acenaphthylene	1.90	0.0100	2.000	0	95.0	80	120			
Anthracene	1.86	0.0100	2.000	0	93.0	80	120			
Benzo[a]anthracene	1.97	0.0100	2.000	0	98.6	80	120			
Benzo[a]pyrene	2.07	0.0100	2.000	0	103	80	120			
Benzo[b]fluoranthene	2.03	0.0100	2.000	0	102	80	120			
Benzo[g,h,i]perylene	2.05	0.0100	2.000	0	103	80	120			
Benzo[k]fluoranthene	2.04	0.0100	2.000	0	102	80	120			
Chrysene	1.97	0.0100	2.000	0	98.5	80	120			
Dibenz[a,h]anthracene	2.04	0.0100	2.000	0	102	80	120			
Fluoranthene	1.83	0.0100	2.000	0	91.7	80	120			
Fluorene	1.93	0.0100	2.000	0	96.3	80	120			
Indeno[1,2,3-cd]pyrene	1.97	0.0100	2.000	0	98.7	80	120			
Naphthalene	1.74	0.0100	2.000	0	86.8	80	120			
Phenanthrene	1.83	0.0100	2.000	0	91.5	80	120			
Pyrene	1.82	0.0100	2.000	0	91.2	80	120			
Surr: 2-Fluorobiphenyl	1.83		2.000		91.6	65	120			
Surr: 4-Terphenyl-d14	1.94		2.000		96.8	65	120			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS2_161212B**

Sample ID	**DCS-78231**	Batch ID:	**78231**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**GCMS2_161212B**	Analysis Date:	**12/12/2016 12:58:00 P**	Prep Date:	**12/12/2016**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.00209	0.00500	0.00232	0	90.1	10	400	0	0	
1,1,1-Trichloroethane	0.00249	0.00500	0.00232	0	107	10	400	0	0	
1,1,2,2-Tetrachloroethane	0.00209	0.00500	0.00232	0	90.1	10	400	0	0	
1,1,2-Trichloroethane	0.00233	0.00500	0.00232	0	100	10	400	0	0	
1,1,2-Trichlorotrifluoroethane	0.00251	0.0150	0.00232	0	108	10	400	0	0	
1,1-Dichloroethane	0.00227	0.00500	0.00232	0	97.8	10	400	0	0	
1,1-Dichloroethene	0.00228	0.00500	0.00232	0	98.3	10	400	0	0	
1,1-Dichloropropene	0.00246	0.00500	0.00232	0	106	10	400	0	0	
1,2,3-Trichlorobenzene	0.00199	0.00500	0.00232	0	85.8	10	400	0	0	
1,2,3-Trichloropropane	0.00170	0.00500	0.00232	0	73.3	10	400	0	0	
1,2,4-Trichlorobenzene	0.00196	0.00500	0.00232	0	84.5	10	400	0	0	
1,2,4-Trimethylbenzene	0.00220	0.00500	0.00232	0	94.8	10	400	0	0	
1,2-Dibromo-3-chloropropane	0.00134	0.00500	0.00232	0	57.8	10	400	0	0	
1,2-Dibromoethane	0.00198	0.00500	0.00232	0	85.3	10	400	0	0	
1,2-Dichlorobenzene	0.00225	0.00500	0.00232	0	97.0	10	400	0	0	
1,2-Dichloroethane	0.00250	0.00500	0.00232	0	108	10	400	0	0	
1,2-Dichloropropane	0.00225	0.00500	0.00232	0	97.0	10	400	0	0	
1,3,5-Trimethylbenzene	0.00223	0.00500	0.00232	0	96.1	10	400	0	0	
1,3-Dichlorobenzene	0.00232	0.00500	0.00232	0	100	10	400	0	0	
1,3-Dichloropropane	0.00203	0.00500	0.00232	0	87.5	10	400	0	0	
1,4-Dichlorobenzene	0.00240	0.00500	0.00232	0	103	10	400	0	0	
1-Chlorohexane	0.00319	0.00500	0.00232	0	138	10	400	0	0	
2,2-Dichloropropane	0.00264	0.00500	0.00232	0	114	10	400	0	0	
2-Butanone	0.0231	0.0150	0.0116	0	199	10	400	0	0	
2-Chlorotoluene	0.00227	0.00500	0.00232	0	97.8	10	400	0	0	
2-Hexanone	0.0187	0.0150	0.0116	0	161	10	400	0	0	
4-Chlorotoluene	0.00230	0.00500	0.00232	0	99.1	10	400	0	0	
4-Methyl-2-pentanone	0.0200	0.0150	0.0116	0	172	10	400	0	0	
Benzene	0.00239	0.00500	0.00232	0	103	10	400	0	0	
Bromobenzene	0.00230	0.00500	0.00232	0	99.1	10	400	0	0	
Bromochloromethane	0.00227	0.00500	0.00232	0	97.8	10	400	0	0	
Bromodichloromethane	0.00220	0.00500	0.00232	0	94.8	10	400	0	0	
Bromoform	0.00182	0.00500	0.00232	0	78.4	10	400	0	0	
Carbon tetrachloride	0.00239	0.00500	0.00232	0	103	10	400	0	0	
Chlorobenzene	0.00227	0.00500	0.00232	0	97.8	10	400	0	0	
Chloroethane	0.00235	0.00500	0.00232	0	101	10	400	0	0	
Chloroform	0.00233	0.00500	0.00232	0	100	10	400	0	0	
Chloromethane	0.00204	0.00500	0.00232	0	87.9	10	400	0	0	
cis-1,2-Dichloroethene	0.00240	0.00500	0.00232	0	103	10	400	0	0	
cis-1,3-Dichloropropene	0.00220	0.00500	0.00232	0	94.8	10	400	0	0	
Dibromochloromethane	0.00193	0.00500	0.00232	0	83.2	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS2_161212B**

Sample ID **DCS-78231** Batch ID: **78231** TestNo: **SW8260C** Units: **mg/Kg**
SampType: **DCS** Run ID: **GCMS2_161212B** Analysis Date: **12/12/2016 12:58:00 P** Prep Date: **12/12/2016**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dibromomethane	0.00220	0.00500	0.00232	0	94.8	10	400	0	0	
Dichlorodifluoromethane	0.00211	0.00500	0.00232	0	90.9	10	400	0	0	
Ethylbenzene	0.00232	0.00500	0.00232	0	100	10	400	0	0	
Hexachlorobutadiene	0.00300	0.00500	0.00232	0	129	10	400	0	0	
Isopropylbenzene	0.00236	0.00500	0.00232	0	102	10	400	0	0	
m,p-Xylene	0.00464	0.00500	0.00464	0	100	10	400	0	0	
Methyl tert-butyl ether	0.00240	0.00500	0.00232	0	103	10	400	0	0	
n-Butylbenzene	0.00221	0.00500	0.00232	0	95.3	10	400	0	0	
n-Propylbenzene	0.00231	0.00500	0.00232	0	99.6	10	400	0	0	
o-Xylene	0.00221	0.00500	0.00232	0	95.3	10	400	0	0	
p-Isopropyltoluene	0.00227	0.00500	0.00232	0	97.8	10	400	0	0	
sec-Butylbenzene	0.00235	0.00500	0.00232	0	101	10	400	0	0	
Styrene	0.00187	0.00500	0.00232	0	80.6	10	400	0	0	
tert-Butylbenzene	0.00224	0.00500	0.00232	0	96.6	10	400	0	0	
Tetrachloroethene	0.00349	0.00500	0.00232	0	150	10	400	0	0	
Toluene	0.00245	0.00500	0.00232	0	106	10	400	0	0	
trans-1,2-Dichloroethene	0.00231	0.00500	0.00232	0	99.6	10	400	0	0	
trans-1,3-Dichloropropene	0.00213	0.00500	0.00232	0	91.8	10	400	0	0	
Trichloroethene	0.00244	0.00500	0.00232	0	105	10	400	0	0	
Vinyl chloride	0.00203	0.00500	0.00232	0	87.5	10	400	0	0	

Sample ID **DCS2-78231** Batch ID: **78231** TestNo: **SW8260C** Units: **mg/Kg**
SampType: **DCS2** Run ID: **GCMS2_161212B** Analysis Date: **12/12/2016 1:26:00 PM** Prep Date: **12/12/2016**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,2-Trichlorotrifluoroethane	0.00479	0.0150	0.00464	0	103	10	400	0	0	
Acetone	0.00936	0.0500	0.0232	0	40.3	10	400	0	0	
Bromomethane	0.00513	0.00500	0.00464	0	111	10	400	0	0	
Carbon disulfide	0.00417	0.0150	0.00464	0	89.9	10	400	0	0	
Cyclohexane	0.00474	0.0150	0.00464	0	102	10	400	0	0	N
Methyl Acetate	0.00509	0.0150	0.00464	0	110	10	400	0	0	
Methylcyclohexane	0.00480	0.0150	0.00464	0	103	10	400	0	0	
Methylene chloride	0.00423	0.00500	0.00464	0	91.2	10	400	0	0	
Naphthalene	0.00360	0.0150	0.00464	0	77.6	10	400	0	0	
Trichlorofluoromethane	0.00451	0.0150	0.00464	0	97.2	10	400	0	0	

Sample ID **LQV2-78231** Batch ID: **78231** TestNo: **SW8260C** Units: **mg/Kg**
SampType: **DCS2** Run ID: **GCMS2_161212B** Analysis Date: **12/12/2016 1:26:00 PM** Prep Date: **12/12/2016**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Butanone	0.0468	0.0150	0.0232	0	202	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS2_161212B**

Sample ID	**LQV2-78231**	Batch ID:	**78231**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**DCS2**	Run ID:	**GCMS2_161212B**	Analysis Date:	**12/12/2016 1:26:00 PM**	Prep Date:	**12/12/2016**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	0.0404	0.0150	0.0232	0	174	10	400	0	0	
4-Methyl-2-pentanone	0.0417	0.0150	0.0232	0	180	10	400	0	0	
Acetone	0.00936	0.0500	0.0232	0	40.3	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS2_170203B**

The QC data in batch 79018 applies to the following samples: 1701264-11A, 1701264-12A, 1701264-15A, 1701264-16A

Sample ID	**LCS-79018**	Batch ID:	**79018**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**GCMS2_170203B**	Analysis Date:	**2/3/2017 10:48:00 AM**	Prep Date:	**2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0229	0.00500	0.0232	0	98.5	74	125			
1,1,1-Trichloroethane	0.0231	0.00500	0.0232	0	99.4	68	130			
1,1,2,2-Tetrachloroethane	0.0231	0.00500	0.0232	0	99.6	59	140			
1,1,2-Trichloroethane	0.0238	0.00500	0.0232	0	103	62	127			
1,1,2-Trichlorotrifluoroethane	0.0234	0.0150	0.0232	0	101	57	135			
1,1-Dichloroethane	0.0240	0.00500	0.0232	0	104	73	125			
1,1-Dichloroethene	0.0234	0.00500	0.0232	0	101	65	136			
1,1-Dichloropropene	0.0238	0.00500	0.0232	0	103	70	135			
1,2,3-Trichlorobenzene	0.0230	0.00500	0.0232	0	98.9	62	133			
1,2,3-Trichloropropane	0.0228	0.00500	0.0232	0	98.4	63	130			
1,2,4-Trichlorobenzene	0.0227	0.00500	0.0232	0	97.7	65	131			
1,2,4-Trimethylbenzene	0.0231	0.00500	0.0232	0	99.5	65	135			
1,2-Dibromo-3-chloropropane	0.0217	0.00500	0.0232	0	93.6	49	135			
1,2-Dibromoethane	0.0227	0.00500	0.0232	0	97.9	70	124			
1,2-Dichlorobenzene	0.0227	0.00500	0.0232	0	98.0	74	120			
1,2-Dichloroethane	0.0234	0.00500	0.0232	0	101	72	137			
1,2-Dichloropropane	0.0233	0.00500	0.0232	0	100	71	120			
1,3,5-Trimethylbenzene	0.0229	0.00500	0.0232	0	98.5	65	133			
1,3-Dichlorobenzene	0.0228	0.00500	0.0232	0	98.2	72	124			
1,3-Dichloropropane	0.0231	0.00500	0.0232	0	99.4	76	123			
1,4-Dichlorobenzene	0.0228	0.00500	0.0232	0	98.4	72	125			
1-Chlorohexane	0.0226	0.00500	0.0232	0	97.5	60	135			
2,2-Dichloropropane	0.0251	0.00500	0.0232	0	108	67	134			
2-Butanone	0.246	0.0150	0.232	0	106	60	135			
2-Chlorotoluene	0.0229	0.00500	0.0232	0	98.6	69	128			
2-Hexanone	0.234	0.0150	0.232	0	101	50	150			
4-Chlorotoluene	0.0234	0.00500	0.0232	0	101	73	126			
4-Methyl-2-pentanone	0.231	0.0150	0.232	0	99.8	60	135			
Acetone	0.238	0.0500	0.232	0	102	40	141			
Benzene	0.0235	0.00500	0.0232	0	101	73	126			
Bromobenzene	0.0225	0.00500	0.0232	0	97.1	66	121			
Bromochloromethane	0.0235	0.00500	0.0232	0	101	71	127			
Bromodichloromethane	0.0234	0.00500	0.0232	0	101	72	128			
Bromoform	0.0227	0.00500	0.0232	0	97.7	66	137			
Bromomethane	0.0238	0.00500	0.0232	0	103	45	141			
Carbon disulfide	0.0226	0.0150	0.0232	0	97.5	50	150			
Carbon tetrachloride	0.0229	0.00500	0.0232	0	98.5	67	133			
Chlorobenzene	0.0233	0.00500	0.0232	0	101	75	123			
Chloroethane	0.0210	0.00500	0.0232	0	90.6	41	141			
Chloroform	0.0233	0.00500	0.0232	0	100	72	124			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS2_170203B**

Sample ID **LCS-79018** Batch ID: **79018** TestNo: **SW8260C** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS2_170203B** Analysis Date: **2/3/2017 10:48:00 AM** Prep Date: **2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloromethane	0.0236	0.00500	0.0232	0	102	51	129			
cis-1,2-Dichloroethene	0.0238	0.00500	0.0232	0	102	67	125			
cis-1,3-Dichloropropene	0.0239	0.00500	0.0232	0	103	72	126			
Cyclohexane	0.0239	0.0150	0.0232	0	103	40	158			N
Dibromochloromethane	0.0221	0.00500	0.0232	0	95.1	66	130			
Dibromomethane	0.0238	0.00500	0.0232	0	103	73	128			
Dichlorodifluoromethane	0.0228	0.00500	0.0232	0	98.1	34	136			
Ethylbenzene	0.0233	0.00500	0.0232	0	101	74	127			
Hexachlorobutadiene	0.0221	0.00500	0.0232	0	95.4	53	142			
Isopropylbenzene	0.0231	0.00500	0.0232	0	99.6	77	129			
m,p-Xylene	0.0474	0.00500	0.0464	0	102	79	126			
Methyl Acetate	0.0238	0.0150	0.0232	0	102	50	150			
Methyl tert-butyl ether	0.0235	0.00500	0.0232	0	101	50	135			
Methylcyclohexane	0.0239	0.0150	0.0232	0	103	50	150			
Methylene chloride	0.0247	0.00500	0.0232	0	107	63	137			
Naphthalene	0.0227	0.0150	0.0232	0	98.0	51	135			
n-Butylbenzene	0.0237	0.00500	0.0232	0	102	65	138			
n-Propylbenzene	0.0232	0.00500	0.0232	0	99.8	63	135			
o-Xylene	0.0234	0.00500	0.0232	0	101	77	125			
p-Isopropyltoluene	0.0233	0.00500	0.0232	0	100	75	133			
sec-Butylbenzene	0.0231	0.00500	0.0232	0	99.7	63	132			
Styrene	0.0226	0.00500	0.0232	0	97.5	74	128			
tert-Butylbenzene	0.0232	0.00500	0.0232	0	100	65	132			
Tetrachloroethene	0.0234	0.00500	0.0232	0	101	67	139			
Toluene	0.0238	0.00500	0.0232	0	103	71	127			
trans-1,2-Dichloroethene	0.0242	0.00500	0.0232	0	104	66	134			
trans-1,3-Dichloropropene	0.0238	0.00500	0.0232	0	102	65	127			
Trichloroethene	0.0241	0.00500	0.0232	0	104	77	124			
Trichlorofluoromethane	0.0234	0.0150	0.0232	0	101	49	139			
Vinyl chloride	0.0245	0.00500	0.0232	0	106	58	126			
Surr: 1,2-Dichloroethane-d4	49.8		50.00		99.6	52	149			
Surr: 4-Bromofluorobenzene	50.0		50.00		100	84	118			
Surr: Dibromofluoromethane	50.5		50.00		101	65	135			
Surr: Toluene-d8	48.6		50.00		97.1	84	116			

Sample ID **MB-79018** Batch ID: **79018** TestNo: **SW8260C** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS2_170203B** Analysis Date: **2/3/2017 11:46:00 AM** Prep Date: **2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	<0.00100	0.00500								
1,1,1-Trichloroethane	<0.00100	0.00500								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS2_170203B**

Sample ID	**MB-79018**	Batch ID:	**79018**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**GCMS2_170203B**	Analysis Date:	**2/3/2017 11:46:00 AM**	Prep Date:	**2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	<0.00100	0.00500								
1,1,2-Trichloroethane	<0.00100	0.00500								
1,1,2-Trichlorotrifluoroethane	<0.00500	0.0150								
1,1-Dichloroethane	<0.00100	0.00500								
1,1-Dichloroethene	<0.00100	0.00500								
1,1-Dichloropropene	<0.00100	0.00500								
1,2,3-Trichlorobenzene	<0.00100	0.00500								
1,2,3-Trichloropropane	<0.00100	0.00500								
1,2,4-Trichlorobenzene	<0.00100	0.00500								
1,2,4-Trimethylbenzene	<0.00100	0.00500								
1,2-Dibromo-3-chloropropane	<0.00100	0.00500								
1,2-Dibromoethane	<0.00100	0.00500								
1,2-Dichlorobenzene	<0.00100	0.00500								
1,2-Dichloroethane	<0.00100	0.00500								
1,2-Dichloropropane	<0.00100	0.00500								
1,3,5-Trimethylbenzene	<0.00100	0.00500								
1,3-Dichlorobenzene	<0.00100	0.00500								
1,3-Dichloropropane	<0.00100	0.00500								
1,4-Dichlorobenzene	<0.00100	0.00500								
1-Chlorohexane	<0.00100	0.00500								
2,2-Dichloropropane	<0.00100	0.00500								
2-Butanone	<0.00500	0.0150								
2-Chlorotoluene	<0.00100	0.00500								
2-Hexanone	<0.00500	0.0150								
4-Chlorotoluene	<0.00100	0.00500								
4-Methyl-2-pentanone	<0.00500	0.0150								
Acetone	<0.0150	0.0500								
Benzene	<0.00100	0.00500								
Bromobenzene	<0.00100	0.00500								
Bromochloromethane	<0.00100	0.00500								
Bromodichloromethane	<0.00100	0.00500								
Bromoform	<0.00100	0.00500								
Bromomethane	<0.00100	0.00500								
Carbon disulfide	<0.00500	0.0150								
Carbon tetrachloride	<0.00100	0.00500								
Chlorobenzene	<0.00100	0.00500								
Chloroethane	<0.00100	0.00500								
Chloroform	<0.00100	0.00500								
Chloromethane	<0.00100	0.00500								
cis-1,2-Dichloroethene	<0.00100	0.00500								
cis-1,3-Dichloropropene	<0.00100	0.00500								

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS2_170203B**

Sample ID **MB-79018**	Batch ID: **79018**	TestNo: **SW8260C**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GCMS2_170203B**	Analysis Date: **2/3/2017 11:46:00 AM**	Prep Date: **2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyclohexane	<0.00500	0.0150								N
Dibromochloromethane	<0.00100	0.00500								
Dibromomethane	<0.00100	0.00500								
Dichlorodifluoromethane	<0.00100	0.00500								
Ethylbenzene	<0.00100	0.00500								
Hexachlorobutadiene	<0.00100	0.00500								
Isopropylbenzene	<0.00100	0.00500								
m,p-Xylene	<0.00100	0.00500								
Methyl Acetate	<0.00500	0.0150								
Methyl tert-butyl ether	<0.00100	0.00500								
Methylcyclohexane	<0.00500	0.0150								
Methylene chloride	<0.00500	0.00500								
Naphthalene	<0.00500	0.0150								
n-Butylbenzene	<0.00100	0.00500								
n-Propylbenzene	<0.00100	0.00500								
o-Xylene	<0.00100	0.00500								
p-Isopropyltoluene	<0.00100	0.00500								
sec-Butylbenzene	<0.00100	0.00500								
Styrene	<0.00100	0.00500								
tert-Butylbenzene	<0.00100	0.00500								
Tetrachloroethene	<0.00100	0.00500								
Toluene	<0.00100	0.00500								
trans-1,2-Dichloroethene	<0.00100	0.00500								
trans-1,3-Dichloropropene	<0.00100	0.00500								
Trichloroethene	<0.00100	0.00500								
Trichlorofluoromethane	<0.00500	0.0150								
Vinyl chloride	<0.00100	0.00500								
Surr: 1,2-Dichloroethane-d4	51.1		50.00		102	52	149			
Surr: 4-Bromofluorobenzene	49.2		50.00		98.5	84	118			
Surr: Dibromofluoromethane	49.9		50.00		99.8	65	135			
Surr: Toluene-d8	47.9		50.00		95.8	84	116			

Sample ID **1701264-11AMS**	Batch ID: **79018**	TestNo: **SW8260C**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GCMS2_170203B**	Analysis Date: **2/3/2017 5:05:00 PM**	Prep Date: **2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0278	0.00779	0.0361	0	76.9	74	125			
1,1,1-Trichloroethane	0.0293	0.00779	0.0361	0	81.2	68	130			
1,1,2,2-Tetrachloroethane	0.0322	0.00779	0.0361	0	89.2	59	140			
1,1,2-Trichloroethane	0.0323	0.00779	0.0361	0	89.4	62	127			
1,1,2-Trichlorotrifluoroethane	0.0295	0.0234	0.0361	0	81.8	57	135			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS2_170203B**

Sample ID **1701264-11AMS**	Batch ID: **79018**	TestNo: **SW8260C**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GCMS2_170203B**	Analysis Date: **2/3/2017 5:05:00 PM**	Prep Date: **2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethane	0.0330	0.00779	0.0361	0	91.2	73	125			
1,1-Dichloroethene	0.0309	0.00779	0.0361	0	85.6	65	136			
1,1-Dichloropropene	0.0285	0.00779	0.0361	0	78.9	70	135			
1,2,3-Trichlorobenzene	0.00864	0.00779	0.0361	0	23.9	62	133			S
1,2,3-Trichloropropane	0.0347	0.00779	0.0361	0	96.0	63	130			
1,2,4-Trichlorobenzene	0.00972	0.00779	0.0361	0	26.9	65	131			S
1,2,4-Trimethylbenzene	0.0214	0.00779	0.0361	0	59.3	65	135			S
1,2-Dibromo-3-chloropropane	0.0284	0.00779	0.0361	0	78.7	49	135			
1,2-Dibromoethane	0.0296	0.00779	0.0361	0	81.9	70	124			
1,2-Dichlorobenzene	0.0195	0.00779	0.0361	0	53.8	74	120			S
1,2-Dichloroethane	0.0314	0.00779	0.0361	0	86.8	72	137			
1,2-Dichloropropane	0.0323	0.00779	0.0361	0	89.5	71	120			
1,3,5-Trimethylbenzene	0.0218	0.00779	0.0361	0	60.5	65	133			S
1,3-Dichlorobenzene	0.0195	0.00779	0.0361	0	54.1	72	124			S
1,3-Dichloropropane	0.0316	0.00779	0.0361	0	87.3	76	123			
1,4-Dichlorobenzene	0.0197	0.00779	0.0361	0	54.7	72	125			S
1-Chlorohexane	0.0181	0.00779	0.0361	0	50.2	60	135			S
2,2-Dichloropropane	0.0300	0.00779	0.0361	0	83.0	67	134			
2-Butanone	0.356	0.0234	0.361	0	98.6	60	135			
2-Chlorotoluene	0.0225	0.00779	0.0361	0	62.2	69	128			S
2-Hexanone	0.310	0.0234	0.361	0	85.7	50	150			
4-Chlorotoluene	0.0220	0.00779	0.0361	0	60.9	73	126			S
4-Methyl-2-pentanone	0.352	0.0234	0.361	0	97.3	60	135			
Acetone	0.384	0.0779	0.361	0	106	40	141			
Benzene	0.0326	0.00779	0.0361	0	90.2	73	126			
Bromobenzene	0.0245	0.00779	0.0361	0	67.8	66	121			
Bromochloromethane	0.0338	0.00779	0.0361	0	93.4	71	127			
Bromodichloromethane	0.0292	0.00779	0.0361	0	80.7	72	128			
Bromoform	0.0268	0.00779	0.0361	0	74.1	66	137			
Bromomethane	0.0292	0.00779	0.0361	0	80.9	45	141			
Carbon disulfide	0.0282	0.0234	0.0361	0	78.1	50	150			
Carbon tetrachloride	0.0269	0.00779	0.0361	0	74.4	67	133			
Chlorobenzene	0.0263	0.00779	0.0361	0	72.9	75	123			S
Chloroethane	0.0318	0.00779	0.0361	0	88.1	41	141			
Chloroform	0.0310	0.00779	0.0361	0	85.8	72	124			
Chloromethane	0.0323	0.00779	0.0361	0	89.5	51	129			
cis-1,2-Dichloroethene	0.0327	0.00779	0.0361	0	90.4	67	125			
cis-1,3-Dichloropropene	0.0279	0.00779	0.0361	0	77.2	72	126			
Cyclohexane	0.0234	0.0234	0.0361	0	64.7	40	158			N
Dibromochloromethane	0.0283	0.00779	0.0361	0	78.2	66	130			
Dibromomethane	0.0324	0.00779	0.0361	0	89.6	73	128			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS2_170203B**

Sample ID **1701264-11AMS** Batch ID: **79018** TestNo: **SW8260C** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GCMS2_170203B** Analysis Date: **2/3/2017 5:05:00 PM** Prep Date: **2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	0.0294	0.00779	0.0361	0	81.5	34	136			
Ethylbenzene	0.0254	0.00779	0.0361	0	70.3	74	127			S
Hexachlorobutadiene	0.00874	0.00779	0.0361	0	24.2	53	142			S
Isopropylbenzene	0.0213	0.00779	0.0361	0	58.9	77	129			S
m,p-Xylene	0.0501	0.00779	0.0723	0	69.3	79	126			S
Methyl Acetate	0.0357	0.0234	0.0361	0	98.8	50	150			
Methyl tert-butyl ether	0.0344	0.00779	0.0361	0	95.2	50	135			
Methylcyclohexane	0.0173	0.0234	0.0361	0	47.8	50	150			S
Methylene chloride	0.192	0.00779	0.0361	0	533	63	137			S
Naphthalene	0.0130	0.0234	0.0361	0	36.0	51	135			S
n-Butylbenzene	0.0145	0.00779	0.0361	0	40.0	65	138			S
n-Propylbenzene	0.0212	0.00779	0.0361	0	58.7	63	135			S
o-Xylene	0.0248	0.00779	0.0361	0	68.6	77	125			S
p-Isopropyltoluene	0.0171	0.00779	0.0361	0	47.5	75	133			S
sec-Butylbenzene	0.0184	0.00779	0.0361	0	50.9	63	132			S
Styrene	0.0237	0.00779	0.0361	0	65.5	74	128			S
tert-Butylbenzene	0.0206	0.00779	0.0361	0	57.0	65	132			S
Tetrachloroethene	0.0225	0.00779	0.0361	0	62.2	67	139			S
Toluene	0.0293	0.00779	0.0361	0	81.2	71	127			
trans-1,2-Dichloroethene	0.0317	0.00779	0.0361	0	87.8	66	134			
trans-1,3-Dichloropropene	0.0274	0.00779	0.0361	0	75.7	65	127			
Trichloroethene	0.0292	0.00779	0.0361	0	80.8	77	124			
Trichlorofluoromethane	0.0297	0.0234	0.0361	0	82.2	49	139			
Vinyl chloride	0.0353	0.00779	0.0361	0	97.8	58	126			
Surr: 1,2-Dichloroethane-d4	75.1		77.87		96.4	52	149			
Surr: 4-Bromofluorobenzene	81.8		77.87		105	84	118			
Surr: Dibromofluoromethane	74.8		77.87		96.1	65	135			
Surr: Toluene-d8	77.8		77.87		100	84	116			

Sample ID **1701264-11AMSD** Batch ID: **79018** TestNo: **SW8260C** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS2_170203B** Analysis Date: **2/3/2017 5:34:00 PM** Prep Date: **2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0275	0.00730	0.0339	0	81.3	74	125	0.792	30	
1,1,1-Trichloroethane	0.0285	0.00730	0.0339	0	84.2	68	130	2.76	30	
1,1,2,2-Tetrachloroethane	0.0314	0.00730	0.0339	0	92.7	59	140	2.57	30	
1,1,2-Trichloroethane	0.0304	0.00730	0.0339	0	89.8	62	127	5.93	30	
1,1,2-Trichlorotrifluoroethane	0.0281	0.0219	0.0339	0	83.0	57	135	4.89	30	
1,1-Dichloroethane	0.0318	0.00730	0.0339	0	93.7	73	125	3.66	30	
1,1-Dichloroethene	0.0299	0.00730	0.0339	0	88.3	65	136	3.38	30	
1,1-Dichloropropene	0.0284	0.00730	0.0339	0	83.8	70	135	0.419	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS2_170203B**

Sample ID	**1701264-11AMSD**	Batch ID:	**79018**	TestNo:	**SW8260C**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**GCMS2_170203B**	Analysis Date:	**2/3/2017 5:34:00 PM**	Prep Date:	**2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,3-Trichlorobenzene	0.00933	0.00730	0.0339	0	27.5	62	133	7.68	30	S
1,2,3-Trichloropropane	0.0332	0.00730	0.0339	0	97.9	63	130	4.41	30	
1,2,4-Trichlorobenzene	0.0110	0.00730	0.0339	0	32.5	65	131	12.4	30	S
1,2,4-Trimethylbenzene	0.0236	0.00730	0.0339	0	69.5	65	135	9.48	30	
1,2-Dibromo-3-chloropropane	0.0269	0.00730	0.0339	0	79.4	49	135	5.48	30	
1,2-Dibromoethane	0.0296	0.00730	0.0339	0	87.4	70	124	0.009	30	
1,2-Dichlorobenzene	0.0207	0.00730	0.0339	0	61.0	74	120	6.14	30	S
1,2-Dichloroethane	0.0301	0.00730	0.0339	0	89.0	72	137	3.96	30	
1,2-Dichloropropane	0.0312	0.00730	0.0339	0	92.2	71	120	3.47	30	
1,3,5-Trimethylbenzene	0.0234	0.00730	0.0339	0	68.9	65	133	6.67	30	
1,3-Dichlorobenzene	0.0209	0.00730	0.0339	0	61.8	72	124	6.92	30	S
1,3-Dichloropropane	0.0309	0.00730	0.0339	0	91.3	76	123	1.97	30	
1,4-Dichlorobenzene	0.0211	0.00730	0.0339	0	62.2	72	125	6.59	30	S
1-Chlorohexane	0.0201	0.00730	0.0339	0	59.3	60	135	10.2	30	S
2,2-Dichloropropane	0.0283	0.00730	0.0339	0	83.5	67	134	5.84	30	
2-Butanone	0.321	0.0219	0.339	0	94.8	60	135	10.4	30	
2-Chlorotoluene	0.0244	0.00730	0.0339	0	72.1	69	128	8.38	30	
2-Hexanone	0.272	0.0219	0.339	0	80.2	50	150	13.0	30	
4-Chlorotoluene	0.0237	0.00730	0.0339	0	69.9	73	126	7.45	30	S
4-Methyl-2-pentanone	0.323	0.0219	0.339	0	95.4	60	135	8.41	30	
Acetone	0.348	0.0730	0.339	0	103	40	141	9.86	30	
Benzene	0.0311	0.00730	0.0339	0	91.6	73	126	4.79	30	
Bromobenzene	0.0264	0.00730	0.0339	0	77.8	66	121	7.23	30	
Bromochloromethane	0.0327	0.00730	0.0339	0	96.6	71	127	3.10	30	
Bromodichloromethane	0.0287	0.00730	0.0339	0	84.6	72	128	1.77	30	
Bromoform	0.0260	0.00730	0.0339	0	76.6	66	137	3.09	30	
Bromomethane	0.0280	0.00730	0.0339	0	82.7	45	141	4.19	30	
Carbon disulfide	0.0275	0.0219	0.0339	0	81.1	50	150	2.56	30	
Carbon tetrachloride	0.0266	0.00730	0.0339	0	78.4	67	133	1.16	30	
Chlorobenzene	0.0265	0.00730	0.0339	0	78.1	75	123	0.558	30	
Chloroethane	0.0297	0.00730	0.0339	0	87.6	41	141	6.99	30	
Chloroform	0.0304	0.00730	0.0339	0	89.7	72	124	1.89	30	
Chloromethane	0.0307	0.00730	0.0339	0	90.7	51	129	5.07	30	
cis-1,2-Dichloroethene	0.0316	0.00730	0.0339	0	93.2	67	125	3.31	30	
cis-1,3-Dichloropropene	0.0269	0.00730	0.0339	0	79.4	72	126	3.54	30	
Cyclohexane	0.0246	0.0219	0.0339	0	72.6	40	158	5.15	30	N
Dibromochloromethane	0.0276	0.00730	0.0339	0	81.5	66	130	2.36	30	
Dibromomethane	0.0304	0.00730	0.0339	0	89.7	73	128	6.31	30	
Dichlorodifluoromethane	0.0282	0.00730	0.0339	0	83.2	34	136	4.31	30	
Ethylbenzene	0.0258	0.00730	0.0339	0	76.0	74	127	1.44	30	
Hexachlorobutadiene	0.00993	0.00730	0.0339	0	29.3	53	142	12.8	30	S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS2_170203B**

Sample ID	**1701264-11AMSD**	Batch ID:	**79018**	TestNo:	**SW8260C**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**GCMS2_170203B**	Analysis Date:	**2/3/2017 5:34:00 PM**	Prep Date:	**2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Isopropylbenzene	0.0225	0.00730	0.0339	0	66.3	77	129	5.45	30	S
m,p-Xylene	0.0515	0.00730	0.0678	0	76.1	79	126	2.94	30	S
Methyl Acetate	0.0321	0.0219	0.0339	0	94.9	50	150	10.5	30	
Methyl tert-butyl ether	0.0323	0.00730	0.0339	0	95.2	50	135	6.41	30	
Methylcyclohexane	0.0194	0.0219	0.0339	0	57.2	50	150	11.5	30	
Methylene chloride	0.160	0.00730	0.0339	0	473	63	137	18.1	30	S
Naphthalene	0.0136	0.0219	0.0339	0	40.0	51	135	4.03	30	S
n-Butylbenzene	0.0160	0.00730	0.0339	0	47.3	65	138	10.3	30	S
n-Propylbenzene	0.0234	0.00730	0.0339	0	69.1	63	135	9.95	30	
o-Xylene	0.0253	0.00730	0.0339	0	74.8	77	125	2.19	30	S
p-Isopropyltoluene	0.0191	0.00730	0.0339	0	56.3	75	133	10.7	30	S
sec-Butylbenzene	0.0202	0.00730	0.0339	0	59.7	63	132	9.53	30	S
Styrene	0.0240	0.00730	0.0339	0	70.8	74	128	1.38	30	S
tert-Butylbenzene	0.0229	0.00730	0.0339	0	67.5	65	132	10.5	30	
Tetrachloroethene	0.0240	0.00730	0.0339	0	70.8	67	139	6.44	30	
Toluene	0.0299	0.00730	0.0339	0	88.2	71	127	1.89	30	
trans-1,2-Dichloroethene	0.0311	0.00730	0.0339	0	91.8	66	134	1.99	30	
trans-1,3-Dichloropropene	0.0270	0.00730	0.0339	0	79.7	65	127	1.30	30	
Trichloroethene	0.0291	0.00730	0.0339	0	85.9	77	124	0.254	30	
Trichlorofluoromethane	0.0288	0.0219	0.0339	0	84.9	49	139	3.16	30	
Vinyl chloride	0.0339	0.00730	0.0339	0	100	58	126	4.06	30	
Surr: 1,2-Dichloroethane-d4	68.8		73.03		94.3	52	149	0	0	
Surr: 4-Bromofluorobenzene	78.4		73.03		107	84	118	0	0	
Surr: Dibromofluoromethane	71.3		73.03		97.6	65	135	0	0	
Surr: Toluene-d8	72.7		73.03		99.6	84	116	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS2_170203B**

Sample ID **ICV-170203**	Batch ID: **R90311**	TestNo: **SW8260C**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GCMS2_170203B**	Analysis Date: **2/3/2017 10:19:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0477	0.00500	0.0464	0	103	80	120			
1,1,1-Trichloroethane	0.0490	0.00500	0.0464	0	106	80	120			
1,1,2,2-Tetrachloroethane	0.0484	0.00500	0.0464	0	104	80	120			
1,1,2-Trichloroethane	0.0490	0.00500	0.0464	0	105	80	120			
1,1,2-Trichlorotrifluoroethane	0.0502	0.0150	0.0464	0	108	80	120			
1,1-Dichloroethane	0.0508	0.00500	0.0464	0	109	80	120			
1,1-Dichloroethene	0.0500	0.00500	0.0464	0	108	80	120			
1,1-Dichloropropene	0.0503	0.00500	0.0464	0	108	80	120			
1,2,3-Trichlorobenzene	0.0475	0.00500	0.0464	0	102	80	120			
1,2,3-Trichloropropane	0.0484	0.00500	0.0464	0	104	80	120			
1,2,4-Trichlorobenzene	0.0485	0.00500	0.0464	0	105	80	120			
1,2,4-Trimethylbenzene	0.0492	0.00500	0.0464	0	106	80	120			
1,2-Dibromo-3-chloropropane	0.0462	0.00500	0.0464	0	99.6	80	120			
1,2-Dibromoethane	0.0469	0.00500	0.0464	0	101	80	120			
1,2-Dichlorobenzene	0.0475	0.00500	0.0464	0	102	80	120			
1,2-Dichloroethane	0.0490	0.00500	0.0464	0	106	80	120			
1,2-Dichloropropane	0.0488	0.00500	0.0464	0	105	80	120			
1,3,5-Trimethylbenzene	0.0487	0.00500	0.0464	0	105	80	120			
1,3-Dichlorobenzene	0.0476	0.00500	0.0464	0	103	80	120			
1,3-Dichloropropane	0.0472	0.00500	0.0464	0	102	80	120			
1,4-Dichlorobenzene	0.0483	0.00500	0.0464	0	104	80	120			
1-Chlorohexane	0.0461	0.00500	0.0464	0	99.3	80	120			
2,2-Dichloropropane	0.0552	0.00500	0.0464	0	119	80	120			
2-Butanone	0.489	0.0150	0.464	0	105	80	120			
2-Chlorotoluene	0.0485	0.00500	0.0464	0	105	80	120			
2-Hexanone	0.471	0.0150	0.464	0	102	80	120			
4-Chlorotoluene	0.0489	0.00500	0.0464	0	105	80	120			
4-Methyl-2-pentanone	0.458	0.0150	0.464	0	98.7	80	120			
Acetone	0.468	0.0500	0.464	0	101	80	120			
Benzene	0.0502	0.00500	0.0464	0	108	80	120			
Bromobenzene	0.0475	0.00500	0.0464	0	102	80	120			
Bromochloromethane	0.0499	0.00500	0.0464	0	108	80	120			
Bromodichloromethane	0.0492	0.00500	0.0464	0	106	80	120			
Bromoform	0.0477	0.00500	0.0464	0	103	80	120			
Bromomethane	0.0483	0.00500	0.0464	0	104	80	120			
Carbon disulfide	0.0484	0.0150	0.0464	0	104	80	120			
Carbon tetrachloride	0.0503	0.00500	0.0464	0	108	80	120			
Chlorobenzene	0.0485	0.00500	0.0464	0	104	80	120			
Chloroethane	0.0448	0.00500	0.0464	0	96.5	80	120			
Chloroform	0.0492	0.00500	0.0464	0	106	80	120			
Chloromethane	0.0511	0.00500	0.0464	0	110	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS2_170203B**

Sample ID	**ICV-170203**	Batch ID:	**R90311**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS2_170203B**	Analysis Date:	**2/3/2017 10:19:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	0.0498	0.00500	0.0464	0	107	80	120			
cis-1,3-Dichloropropene	0.0494	0.00500	0.0464	0	106	80	120			
Cyclohexane	0.0504	0.0150	0.0464	0	109	80	120			N
Dibromochloromethane	0.0467	0.00500	0.0464	0	101	80	120			
Dibromomethane	0.0492	0.00500	0.0464	0	106	80	120			
Dichlorodifluoromethane	0.0501	0.00500	0.0464	0	108	80	120			
Ethylbenzene	0.0494	0.00500	0.0464	0	107	80	120			
Hexachlorobutadiene	0.0473	0.00500	0.0464	0	102	80	120			
Isopropylbenzene	0.0492	0.00500	0.0464	0	106	80	120			
m,p-Xylene	0.101	0.00500	0.0928	0	109	80	120			
Methyl Acetate	0.0468	0.0150	0.0464	0	101	80	120			
Methyl tert-butyl ether	0.0486	0.00500	0.0464	0	105	80	120			
Methylcyclohexane	0.0517	0.0150	0.0464	0	112	80	120			
Methylene chloride	0.0520	0.00500	0.0464	0	112	80	120			
Naphthalene	0.0467	0.0150	0.0464	0	101	80	120			
n-Butylbenzene	0.0512	0.00500	0.0464	0	110	80	120			
n-Propylbenzene	0.0494	0.00500	0.0464	0	107	80	120			
o-Xylene	0.0500	0.00500	0.0464	0	108	80	120			
p-Isopropyltoluene	0.0500	0.00500	0.0464	0	108	80	120			
sec-Butylbenzene	0.0496	0.00500	0.0464	0	107	80	120			
Styrene	0.0484	0.00500	0.0464	0	104	80	120			
tert-Butylbenzene	0.0493	0.00500	0.0464	0	106	80	120			
Tetrachloroethene	0.0497	0.00500	0.0464	0	107	80	120			
Toluene	0.0510	0.00500	0.0464	0	110	80	120			
trans-1,2-Dichloroethene	0.0505	0.00500	0.0464	0	109	80	120			
trans-1,3-Dichloropropene	0.0499	0.00500	0.0464	0	108	80	120			
Trichloroethene	0.0512	0.00500	0.0464	0	110	80	120			
Trichlorofluoromethane	0.0498	0.0150	0.0464	0	107	80	120			
Vinyl chloride	0.0529	0.00500	0.0464	0	114	80	120			
Surr: 1,2-Dichloroethane-d4	49.7		50.00		99.3	52	149			
Surr: 4-Bromofluorobenzene	50.6		50.00		101	84	118			
Surr: Dibromofluoromethane	50.9		50.00		102	65	135			
Surr: Toluene-d8	48.6		50.00		97.1	84	116			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS7_170127B**

Sample ID **DCS-78937**	Batch ID: **78937**	TestNo: **SW8260C**	Units: **mg/L**
SampType: **DCS**	Run ID: **GCMS7_170127B**	Analysis Date: **1/27/2017 9:50:00 PM**	Prep Date: **1/27/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.000410	0.00100	0.000464	0	88.4	10	400	0	0	
1,1,1-Trichloroethane	0.000360	0.00100	0.000464	0	77.6	10	400	0	0	
1,1,2,2-Tetrachloroethane	0.000460	0.00100	0.000464	0	99.1	10	400	0	0	
1,1,2-Trichloroethane	0.000470	0.00100	0.000464	0	101	10	400	0	0	
1,1,2-Trichlorotrifluoroethane	0.00837	0.0150	0.00928	0	90.2	10	400	0	0	
1,1-Dichloroethane	0.000420	0.00100	0.000464	0	90.5	10	400	0	0	
1,1-Dichloroethene	0.000470	0.00100	0.000464	0	101	10	400	0	0	
1,1-Dichloropropene	0.000400	0.00100	0.000464	0	86.2	10	400	0	0	
1,2,3-Trichlorobenzene	0.000500	0.00500	0.000464	0	108	10	400	0	0	
1,2,3-Trichloropropane	0.000330	0.00100	0.000464	0	71.1	10	400	0	0	
1,2,4-Trichlorobenzene	0.000520	0.00500	0.000464	0	112	10	400	0	0	
1,2,4-Trimethylbenzene	0.000350	0.00500	0.000464	0	75.4	10	400	0	0	
1,2-Dibromoethane	0.000480	0.00100	0.000464	0	103	10	400	0	0	
1,2-Dichlorobenzene	0.000500	0.00100	0.000464	0	108	10	400	0	0	
1,2-Dichloroethane	0.000390	0.00100	0.000464	0	84.1	10	400	0	0	
1,2-Dichloropropane	0.000420	0.00100	0.000464	0	90.5	10	400	0	0	
1,3,5-Trimethylbenzene	0.000370	0.00500	0.000464	0	79.7	10	400	0	0	
1,3-Dichlorobenzene	0.000460	0.00100	0.000464	0	99.1	10	400	0	0	
1,3-Dichloropropane	0.000420	0.00100	0.000464	0	90.5	10	400	0	0	
1,4-Dichlorobenzene	0.000560	0.00100	0.000464	0	121	10	400	0	0	
2,2-Dichloropropane	0.000310	0.00100	0.000464	0	66.8	10	400	0	0	
2-Butanone	0.00871	0.0150	0.00928	0	93.9	10	400	0	0	
2-Chlorotoluene	0.000420	0.00100	0.000464	0	90.5	10	400	0	0	
2-Hexanone	0.00785	0.0150	0.00928	0	84.6	10	400	0	0	
4-Chlorotoluene	0.000420	0.00100	0.000464	0	90.5	10	400	0	0	
4-Methyl-2-pentanone	0.00841	0.0150	0.00928	0	90.6	10	400	0	0	
Acetone	0.00753	0.0150	0.00928	0	81.1	10	400	0	0	
Benzene	0.000540	0.00100	0.000464	0	116	10	400	0	0	
Bromobenzene	0.000470	0.00100	0.000464	0	101	10	400	0	0	
Bromochloromethane	0.000490	0.00100	0.000464	0	106	10	400	0	0	
Bromodichloromethane	0.000360	0.00100	0.000464	0	77.6	10	400	0	0	
Bromoform	0.000460	0.00100	0.000464	0	99.1	10	400	0	0	
Bromomethane	0.00166	0.00100	0.000464	0	358	10	400	0	0	
Carbon disulfide	0.0111	0.0150	0.00928	0	120	10	400	0	0	
Carbon tetrachloride	0.000350	0.00100	0.000464	0	75.4	10	400	0	0	
Chlorobenzene	0.000500	0.00100	0.000464	0	108	10	400	0	0	
Chloroethane	0.000340	0.00100	0.000464	0	73.3	10	400	0	0	
Chloroform	0.000360	0.00100	0.000464	0	77.6	10	400	0	0	
Chloromethane	0.000610	0.00100	0.000464	0	131	10	400	0	0	
cis-1,2-Dichloroethene	0.000600	0.00100	0.000464	0	129	10	400	0	0	
cis-1,3-Dichloropropene	0.000430	0.00100	0.000464	0	92.7	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS7_170127B**

Sample ID **DCS-78937** Batch ID: **78937** TestNo: **SW8260C** Units: **mg/L**
SampType: **DCS** Run ID: **GCMS7_170127B** Analysis Date: **1/27/2017 9:50:00 PM** Prep Date: **1/27/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyclohexane	0.00831	0.0150	0.00928	0	89.5	10	400	0	0	N
Dibromochloromethane	0.000350	0.00100	0.000464	0	75.4	10	400	0	0	
Dibromomethane	0.000470	0.00100	0.000464	0	101	10	400	0	0	
Dichlorodifluoromethane	0.000260	0.00100	0.000464	0	56.0	10	400	0	0	
Ethylbenzene	0.000390	0.00100	0.000464	0	84.1	10	400	0	0	
Hexachlorobutadiene	0.000460	0.00300	0.000464	0	99.1	10	400	0	0	
Isopropylbenzene	0.000340	0.00100	0.000464	0	73.3	10	400	0	0	
m,p-Xylene	0.000820	0.00200	0.000928	0	88.4	10	400	0	0	
Methyl Acetate	0.00943	0.0150	0.00928	0	102	10	400	0	0	
Methyl tert-butyl ether	0.000370	0.00100	0.000464	0	79.7	10	400	0	0	
Methylcyclohexane	0.00836	0.0150	0.00928	0	90.1	10	400	0	0	
Methylene chloride	0.000370	0.00250	0.000464	0	79.7	10	400	0	0	
Naphthalene	0.00106	0.0150	0.000464	0	228	10	400	0	0	
n-Butylbenzene	0.000380	0.00100	0.000464	0	81.9	10	400	0	0	
n-Propylbenzene	0.000440	0.00100	0.000464	0	94.8	10	400	0	0	
o-Xylene	0.000410	0.00100	0.000464	0	88.4	10	400	0	0	
p-Isopropyltoluene	0.000330	0.00100	0.000464	0	71.1	10	400	0	0	
sec-Butylbenzene	0.000400	0.00100	0.000464	0	86.2	10	400	0	0	
Styrene	0.000570	0.00100	0.000464	0	123	10	400	0	0	
tert-Butylbenzene	0.000370	0.00100	0.000464	0	79.7	10	400	0	0	
Tetrachloroethene	0.000450	0.00200	0.000464	0	97.0	10	400	0	0	
Toluene	0.000480	0.00200	0.000464	0	103	10	400	0	0	
trans-1,2-Dichloroethene	0.000470	0.00100	0.000464	0	101	10	400	0	0	
trans-1,3-Dichloropropene	0.000420	0.00100	0.000464	0	90.5	10	400	0	0	
Trichloroethene	0.000530	0.00100	0.000464	0	114	10	400	0	0	
Trichlorofluoromethane	0.000350	0.00100	0.000464	0	75.4	10	400	0	0	
Vinyl chloride	0.000380	0.00100	0.000464	0	81.9	10	400	0	0	

Sample ID **DCS2-78937** Batch ID: **78937** TestNo: **SW8260C** Units: **mg/L**
SampType: **DCS2** Run ID: **GCMS7_170127B** Analysis Date: **1/27/2017 10:16:00 PM** Prep Date: **1/27/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	0.00198	0.0100	0.00186	0	106	10	400	0	0	
1-Chlorohexane	0.00164	0.00500	0.00186	0	88.2	10	400	0	0	
Chloroethane	0.00206	0.00100	0.00186	0	111	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS7_170128A**

The QC data in batch 78941 applies to the following samples: 1701264-10A

Sample ID	**LCS-78941**	Batch ID:	**78941**	TestNo:	**SW8260C**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**GCMS7_170128A**	Analysis Date:	**1/28/2017 12:53:00 PM**	Prep Date:	**1/28/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0233	0.00100	0.0232	0	100	81	129			
1,1,1-Trichloroethane	0.0215	0.00100	0.0232	0	92.8	67	132			
1,1,2,2-Tetrachloroethane	0.0275	0.00100	0.0232	0	119	63	128			
1,1,2-Trichloroethane	0.0257	0.00100	0.0232	0	111	75	125			
1,1,2-Trichlorotrifluoroethane	0.0243	0.0150	0.0232	0	105	67	125			
1,1-Dichloroethane	0.0238	0.00100	0.0232	0	103	69	133			
1,1-Dichloroethene	0.0261	0.00100	0.0232	0	113	68	130			
1,1-Dichloropropene	0.0242	0.00100	0.0232	0	104	73	132			
1,2,3-Trichlorobenzene	0.0236	0.00500	0.0232	0	102	67	137			
1,2,3-Trichloropropane	0.0256	0.00100	0.0232	0	110	73	124			
1,2,4-Trichlorobenzene	0.0239	0.00500	0.0232	0	103	66	134			
1,2,4-Trimethylbenzene	0.0241	0.00500	0.0232	0	104	74	132			
1,2-Dibromo-3-chloropropane	0.0230	0.0100	0.0232	0	99.3	50	132			
1,2-Dibromoethane	0.0254	0.00100	0.0232	0	109	80	121			
1,2-Dichlorobenzene	0.0250	0.00100	0.0232	0	108	75	122			
1,2-Dichloroethane	0.0205	0.00100	0.0232	0	88.3	69	132			
1,2-Dichloropropane	0.0255	0.00100	0.0232	0	110	75	125			
1,3,5-Trimethylbenzene	0.0243	0.00500	0.0232	0	105	74	131			
1,3-Dichlorobenzene	0.0242	0.00100	0.0232	0	104	75	124			
1,3-Dichloropropane	0.0245	0.00100	0.0232	0	106	73	126			
1,4-Dichlorobenzene	0.0243	0.00100	0.0232	0	105	74	123			
1-Chlorohexane	0.0240	0.00500	0.0232	0	103	70	125			
2,2-Dichloropropane	0.0238	0.00100	0.0232	0	103	69	137			
2-Butanone	0.124	0.0150	0.116	0	107	49	136			
2-Chlorotoluene	0.0238	0.00100	0.0232	0	103	73	126			
2-Hexanone	0.124	0.0150	0.116	0	107	50	150			
4-Chlorotoluene	0.0239	0.00100	0.0232	0	103	74	128			
4-Methyl-2-pentanone	0.122	0.0150	0.116	0	105	60	134			
Acetone	0.126	0.0150	0.116	0	108	40	135			
Benzene	0.0249	0.00100	0.0232	0	107	81	122			
Bromobenzene	0.0245	0.00100	0.0232	0	106	76	124			
Bromochloromethane	0.0276	0.00100	0.0232	0	119	65	129			
Bromodichloromethane	0.0222	0.00100	0.0232	0	95.8	76	121			
Bromoform	0.0227	0.00100	0.0232	0	97.8	69	128			
Bromomethane	0.0192	0.00100	0.0232	0	82.7	53	141			
Carbon disulfide	0.0298	0.0150	0.0232	0	129	50	150			
Carbon tetrachloride	0.0216	0.00100	0.0232	0	93.3	66	138			
Chlorobenzene	0.0242	0.00100	0.0232	0	104	81	122			
Chloroethane	0.0217	0.00100	0.0232	0	93.7	58	133			
Chloroform	0.0223	0.00100	0.0232	0	96.0	69	128			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS7_170128A**

Sample ID **LCS-78941** Batch ID: **78941** TestNo: **SW8260C** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS7_170128A** Analysis Date: **1/28/2017 12:53:00 PM** Prep Date: **1/28/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloromethane	0.0219	0.00100	0.0232	0	94.4	56	131			
cis-1,2-Dichloroethene	0.0247	0.00100	0.0232	0	106	72	126			
cis-1,3-Dichloropropene	0.0250	0.00100	0.0232	0	108	69	131			
Cyclohexane	0.0245	0.0150	0.0232	0	106	40	161			N
Dibromochloromethane	0.0244	0.00100	0.0232	0	105	66	133			
Dibromomethane	0.0233	0.00100	0.0232	0	100	76	125			
Dichlorodifluoromethane	0.0160	0.00100	0.0232	0	69.0	53	153			
Ethylbenzene	0.0245	0.00100	0.0232	0	106	80	120			
Hexachlorobutadiene	0.0195	0.00300	0.0232	0	84.2	67	131			
Isopropylbenzene	0.0240	0.00100	0.0232	0	103	75	127			
m,p-Xylene	0.0495	0.00200	0.0464	0	107	80	120			
Methyl Acetate	0.0265	0.0150	0.0232	0	114	50	150			
Methyl tert-butyl ether	0.0234	0.00100	0.0232	0	101	68	123			
Methylcyclohexane	0.0240	0.0150	0.0232	0	103	70	130			
Methylene chloride	0.0267	0.00250	0.0232	0	115	63	137			
Naphthalene	0.0262	0.0150	0.0232	0	113	54	138			
n-Butylbenzene	0.0228	0.00100	0.0232	0	98.3	69	137			
n-Propylbenzene	0.0248	0.00100	0.0232	0	107	72	129			
o-Xylene	0.0244	0.00100	0.0232	0	105	80	120			
p-Isopropyltoluene	0.0247	0.00100	0.0232	0	106	73	130			
sec-Butylbenzene	0.0245	0.00100	0.0232	0	106	72	127			
Styrene	0.0248	0.00100	0.0232	0	107	65	134			
tert-Butylbenzene	0.0248	0.00100	0.0232	0	107	70	129			
Tetrachloroethene	0.0241	0.00200	0.0232	0	104	66	128			
Toluene	0.0250	0.00200	0.0232	0	108	80	120			
trans-1,2-Dichloroethene	0.0254	0.00100	0.0232	0	110	63	137			
trans-1,3-Dichloropropene	0.0237	0.00100	0.0232	0	102	59	135			
Trichloroethene	0.0243	0.00100	0.0232	0	105	70	127			
Trichlorofluoromethane	0.0198	0.00100	0.0232	0	85.3	57	129			
Vinyl chloride	0.0222	0.00100	0.0232	0	95.5	50	134			
Surr: 1,2-Dichloroethane-d4	161		200.0		80.6	72	119			
Surr: 4-Bromofluorobenzene	194		200.0		97.2	76	119			
Surr: Dibromofluoromethane	190		200.0		95.0	85	115			
Surr: Toluene-d8	200		200.0		99.9	81	120			

Sample ID **MB-78941** Batch ID: **78941** TestNo: **SW8260C** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS7_170128A** Analysis Date: **1/28/2017 1:45:00 PM** Prep Date: **1/28/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	<0.000300	0.00100								
1,1,1-Trichloroethane	<0.000300	0.00100								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS7_170128A**

Sample ID	**MB-78941**	Batch ID:	**78941**	TestNo:	**SW8260C**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**GCMS7_170128A**	Analysis Date:	**1/28/2017 1:45:00 PM**	Prep Date:	**1/28/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	<0.000300	0.00100								
1,1,2-Trichloroethane	<0.000300	0.00100								
1,1,2-Trichlorotrifluoroethane	<0.00500	0.0150								
1,1-Dichloroethane	<0.000300	0.00100								
1,1-Dichloroethene	<0.000300	0.00100								
1,1-Dichloropropene	<0.000300	0.00100								
1,2,3-Trichlorobenzene	<0.00150	0.00500								
1,2,3-Trichloropropane	<0.000300	0.00100								
1,2,4-Trichlorobenzene	<0.00150	0.00500								
1,2,4-Trimethylbenzene	<0.00150	0.00500								
1,2-Dibromo-3-chloropropane	<0.00300	0.0100								
1,2-Dibromoethane	<0.000300	0.00100								
1,2-Dichlorobenzene	<0.000300	0.00100								
1,2-Dichloroethane	<0.000300	0.00100								
1,2-Dichloropropane	<0.000300	0.00100								
1,3,5-Trimethylbenzene	<0.00150	0.00500								
1,3-Dichlorobenzene	<0.000300	0.00100								
1,3-Dichloropropane	<0.000300	0.00100								
1,4-Dichlorobenzene	<0.000300	0.00100								
1-Chlorohexane	<0.00100	0.00500								
2,2-Dichloropropane	<0.000300	0.00100								
2-Butanone	<0.00500	0.0150								
2-Chlorotoluene	<0.000300	0.00100								
2-Hexanone	<0.00500	0.0150								
4-Chlorotoluene	<0.000300	0.00100								
4-Methyl-2-pentanone	<0.00500	0.0150								
Acetone	<0.00500	0.0150								
Benzene	<0.000300	0.00100								
Bromobenzene	<0.000300	0.00100								
Bromochloromethane	<0.000300	0.00100								
Bromodichloromethane	<0.000300	0.00100								
Bromoform	<0.000300	0.00100								
Bromomethane	<0.000300	0.00100								
Carbon disulfide	<0.00500	0.0150								
Carbon tetrachloride	<0.000300	0.00100								
Chlorobenzene	<0.000300	0.00100								
Chloroethane	<0.000300	0.00100								
Chloroform	<0.000300	0.00100								
Chloromethane	<0.000300	0.00100								
cis-1,2-Dichloroethene	<0.000300	0.00100								
cis-1,3-Dichloropropene	<0.000300	0.00100								

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS7_170128A**

Sample ID **MB-78941**	Batch ID: **78941**	TestNo: **SW8260C**	Units: **mg/L**
SampType: **MBLK**	Run ID: **GCMS7_170128A**	Analysis Date: **1/28/2017 1:45:00 PM**	Prep Date: **1/28/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyclohexane	<0.00500	0.0150								N
Dibromochloromethane	<0.000300	0.00100								
Dibromomethane	<0.000300	0.00100								
Dichlorodifluoromethane	<0.000300	0.00100								
Ethylbenzene	<0.000300	0.00100								
Hexachlorobutadiene	<0.00100	0.00300								
Isopropylbenzene	<0.000300	0.00100								
m,p-Xylene	<0.000600	0.00200								
Methyl Acetate	<0.00500	0.0150								
Methyl tert-butyl ether	<0.000300	0.00100								
Methylcyclohexane	<0.00500	0.0150								
Methylene chloride	<0.00250	0.00250								
Naphthalene	<0.00500	0.0150								
n-Butylbenzene	<0.000300	0.00100								
n-Propylbenzene	<0.000300	0.00100								
o-Xylene	<0.000300	0.00100								
p-Isopropyltoluene	<0.000300	0.00100								
sec-Butylbenzene	<0.000300	0.00100								
Styrene	<0.000300	0.00100								
tert-Butylbenzene	<0.000300	0.00100								
Tetrachloroethene	<0.000600	0.00200								
Toluene	<0.000600	0.00200								
trans-1,2-Dichloroethene	<0.000300	0.00100								
trans-1,3-Dichloropropene	<0.000300	0.00100								
Trichloroethene	<0.000600	0.00100								
Trichlorofluoromethane	<0.000300	0.00100								
Vinyl chloride	<0.000300	0.00100								
Surr: 1,2-Dichloroethane-d4	162		200.0		81.2	72	119			
Surr: 4-Bromofluorobenzene	208		200.0		104	76	119			
Surr: Dibromofluoromethane	187		200.0		93.3	85	115			
Surr: Toluene-d8	204		200.0		102	81	120			

Sample ID **1701244-22AMS**	Batch ID: **78941**	TestNo: **SW8260C**	Units: **mg/L**
SampType: **MS**	Run ID: **GCMS7_170128A**	Analysis Date: **1/28/2017 10:27:00 PM**	Prep Date: **1/28/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.21	0.0500	1.16	0	104	81	129			
1,1,1-Trichloroethane	1.30	0.0500	1.16	0	112	67	132			
1,1,2,2-Tetrachloroethane	1.21	0.0500	1.16	0	104	63	128			
1,1,2-Trichloroethane	1.22	0.0500	1.16	0	105	75	125			
1,1,2-Trichlorotrifluoroethane	1.26	0.750	1.16	0	109	67	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS7_170128A**

Sample ID **1701244-22AMS**	Batch ID: **78941**	TestNo: **SW8260C**	Units: **mg/L**
SampType: **MS**	Run ID: **GCMS7_170128A**	Analysis Date: **1/28/2017 10:27:00 PM**	Prep Date: **1/28/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethane	1.20	0.0500	1.16	0	103	69	133			
1,1-Dichloroethene	1.19	0.0500	1.16	0	103	68	130			
1,1-Dichloropropene	1.27	0.0500	1.16	0	110	73	132			
1,2,3-Trichlorobenzene	1.10	0.250	1.16	0	94.6	67	137			
1,2,3-Trichloropropane	1.23	0.0500	1.16	0	106	73	124			
1,2,4-Trichlorobenzene	1.06	0.250	1.16	0	91.8	66	134			
1,2,4-Trimethylbenzene	1.15	0.250	1.16	0	99.4	74	132			
1,2-Dibromo-3-chloropropane	1.20	0.500	1.16	0	103	50	132			
1,2-Dibromoethane	1.19	0.0500	1.16	0	102	80	121			
1,2-Dichlorobenzene	1.16	0.0500	1.16	0	100	75	122			
1,2-Dichloroethane	1.29	0.0500	1.16	0	111	69	132			
1,2-Dichloropropane	1.16	0.0500	1.16	0	99.8	75	125			
1,3,5-Trimethylbenzene	1.18	0.250	1.16	0	102	74	131			
1,3-Dichlorobenzene	1.14	0.0500	1.16	0	98.7	75	124			
1,3-Dichloropropane	1.18	0.0500	1.16	0	102	73	126			
1,4-Dichlorobenzene	1.14	0.0500	1.16	0	97.9	74	123			
1-Chlorohexane	1.19	0.250	1.16	0	102	70	125			
2,2-Dichloropropane	1.08	0.0500	1.16	0	93.1	69	137			
2-Butanone	5.85	0.750	5.80	0	101	49	136			
2-Chlorotoluene	1.17	0.0500	1.16	0	101	73	126			
2-Hexanone	5.71	0.750	5.80	0	98.5	50	150			
4-Chlorotoluene	1.18	0.0500	1.16	0	101	74	128			
4-Methyl-2-pentanone	5.69	0.750	5.80	0	98.1	60	134			
Acetone	6.62	0.750	5.80	0	114	40	135			
Benzene	1.16	0.0500	1.16	0	100	81	122			
Bromobenzene	1.15	0.0500	1.16	0	98.8	76	124			
Bromochloromethane	1.27	0.0500	1.16	0	110	65	129			
Bromodichloromethane	1.28	0.0500	1.16	0	110	76	121			
Bromoform	1.20	0.0500	1.16	0	104	69	128			
Bromomethane	1.12	0.0500	1.16	0	96.9	53	141			
Carbon disulfide	1.64	0.750	1.16	0	142	50	150			
Carbon tetrachloride	1.31	0.0500	1.16	0	113	66	138			
Chlorobenzene	1.15	0.0500	1.16	0	99.0	81	122			
Chloroethane	1.23	0.0500	1.16	0	106	58	133			
Chloroform	1.28	0.0500	1.16	0	110	69	128			
Chloromethane	0.911	0.0500	1.16	0	78.5	56	131			
cis-1,2-Dichloroethene	1.14	0.0500	1.16	0	98.2	72	126			
cis-1,3-Dichloropropene	1.13	0.0500	1.16	0	97.1	69	131			
Cyclohexane	1.17	0.750	1.16	0	101	40	161			N
Dibromochloromethane	1.24	0.0500	1.16	0	107	66	133			
Dibromomethane	1.22	0.0500	1.16	0	105	76	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS7_170128A**

Sample ID **1701244-22AMS** Batch ID: **78941** TestNo: **SW8260C** Units: **mg/L**
SampType: **MS** Run ID: **GCMS7_170128A** Analysis Date: **1/28/2017 10:27:00 PM** Prep Date: **1/28/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	0.952	0.0500	1.16	0	82.0	53	153			
Ethylbenzene	1.17	0.0500	1.16	0	101	80	120			
Hexachlorobutadiene	1.08	0.150	1.16	0	93.5	67	131			
Isopropylbenzene	1.17	0.0500	1.16	0	101	75	127			
m,p-Xylene	2.32	0.100	2.32	0	100	80	120			
Methyl Acetate	1.22	0.750	1.16	0	105	50	150			
Methyl tert-butyl ether	1.20	0.0500	1.16	0	104	68	123			
Methylcyclohexane	1.14	0.750	1.16	0	97.9	70	130			
Methylene chloride	1.32	0.125	1.16	0	113	63	137			
Naphthalene	1.01	0.750	1.16	0	86.7	54	138			
n-Butylbenzene	1.12	0.0500	1.16	0	96.2	69	137			
n-Propylbenzene	1.16	0.0500	1.16	0	100	72	129			
o-Xylene	1.12	0.0500	1.16	0	96.6	80	120			
p-Isopropyltoluene	1.17	0.0500	1.16	0	101	73	130			
sec-Butylbenzene	1.18	0.0500	1.16	0	102	72	127			
Styrene	1.18	0.0500	1.16	0	101	65	134			
tert-Butylbenzene	1.18	0.0500	1.16	0	102	70	129			
Tetrachloroethene	1.17	0.100	1.16	0	100	66	128			
Toluene	1.17	0.100	1.16	0	101	80	120			
trans-1,2-Dichloroethene	1.17	0.0500	1.16	0	101	63	137			
trans-1,3-Dichloropropene	1.24	0.0500	1.16	0	107	59	135			
Trichloroethene	1.12	0.0500	1.16	0	96.4	70	127			
Trichlorofluoromethane	1.29	0.0500	1.16	0	111	57	129			
Vinyl chloride	1.08	0.0500	1.16	0	93.5	50	134			
Surr: 1,2-Dichloroethane-d4	11000		10000		110	72	119			
Surr: 4-Bromofluorobenzene	9600		10000		96.0	76	119			
Surr: Dibromofluoromethane	10700		10000		107	85	115			
Surr: Toluene-d8	9690		10000		96.9	81	120			

Sample ID **1701244-22AMSD** Batch ID: **78941** TestNo: **SW8260C** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS7_170128A** Analysis Date: **1/28/2017 10:53:00 PM** Prep Date: **1/28/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.24	0.0500	1.16	0	107	81	129	2.16	20	
1,1,1-Trichloroethane	1.30	0.0500	1.16	0	112	67	132	0.577	20	
1,1,2,2-Tetrachloroethane	1.21	0.0500	1.16	0	104	63	128	0.082	20	
1,1,2-Trichloroethane	1.28	0.0500	1.16	0	110	75	125	4.68	20	
1,1,2-Trichlorotrifluoroethane	1.26	0.750	1.16	0	109	67	125	0.039	20	
1,1-Dichloroethane	1.24	0.0500	1.16	0	107	69	133	3.49	20	
1,1-Dichloroethene	1.24	0.0500	1.16	0	107	68	130	4.03	20	
1,1-Dichloropropene	1.27	0.0500	1.16	0	109	73	132	0.078	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS7_170128A**

Sample ID **1701244-22AMSD**	Batch ID: **78941**	TestNo: **SW8260C**	Units: **mg/L**
SampType: **MSD**	Run ID: **GCMS7_170128A**	Analysis Date: **1/28/2017 10:53:00 PM**	Prep Date: **1/28/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,3-Trichlorobenzene	1.12	0.250	1.16	0	96.6	67	137	2.12	20	
1,2,3-Trichloropropane	1.29	0.0500	1.16	0	111	73	124	4.88	20	
1,2,4-Trichlorobenzene	1.10	0.250	1.16	0	94.7	66	134	3.10	20	
1,2,4-Trimethylbenzene	1.16	0.250	1.16	0	100	74	132	0.734	20	
1,2-Dibromo-3-chloropropane	1.27	0.500	1.16	0	110	50	132	5.96	20	
1,2-Dibromoethane	1.18	0.0500	1.16	0	102	80	121	0.127	20	
1,2-Dichlorobenzene	1.17	0.0500	1.16	0	101	75	125	0.729	20	
1,2-Dichloroethane	1.32	0.0500	1.16	0	114	68	132	1.99	20	
1,2-Dichloropropane	1.20	0.0500	1.16	0	103	75	125	3.52	20	
1,3,5-Trimethylbenzene	1.17	0.250	1.16	0	101	74	131	0.681	20	
1,3-Dichlorobenzene	1.17	0.0500	1.16	0	101	75	124	2.54	20	
1,3-Dichloropropane	1.20	0.0500	1.16	0	104	73	126	2.10	20	
1,4-Dichlorobenzene	1.15	0.0500	1.16	0	99.3	74	123	1.40	20	
1-Chlorohexane	1.18	0.250	1.16	0	102	70	125	0.761	20	
2,2-Dichloropropane	1.07	0.0500	1.16	0	92.1	69	137	1.12	20	
2-Butanone	6.04	0.750	5.80	0	104	49	136	3.18	20	
2-Chlorotoluene	1.18	0.0500	1.16	0	102	73	126	1.11	20	
2-Hexanone	5.96	0.750	5.80	0	103	50	150	4.33	20	
4-Chlorotoluene	1.19	0.0500	1.16	0	103	74	128	1.35	20	
4-Methyl-2-pentanone	5.88	0.750	5.80	0	101	60	135	3.18	20	
Acetone	6.90	0.750	5.80	0	119	40	135	4.17	20	
Benzene	1.20	0.0500	1.16	0	103	81	120	2.97	20	
Bromobenzene	1.12	0.0500	1.16	0	96.6	76	124	2.25	20	
Bromochloromethane	1.32	0.0500	1.16	0	114	65	129	3.92	20	
Bromodichloromethane	1.31	0.0500	1.16	0	113	76	121	2.59	20	
Bromoform	1.22	0.0500	1.16	0	105	69	128	1.73	20	
Bromomethane	1.18	0.0500	1.16	0	101	53	141	4.52	20	
Carbon disulfide	1.49	0.750	1.16	0	129	50	150	9.50	20	
Carbon tetrachloride	1.32	0.0500	1.16	0	114	66	138	1.07	20	
Chlorobenzene	1.17	0.0500	1.16	0	101	81	122	2.24	20	
Chloroethane	1.20	0.0500	1.16	0	104	58	133	2.46	20	
Chloroform	1.34	0.0500	1.16	0	116	69	128	5.08	20	
Chloromethane	1.05	0.0500	1.16	0	90.3	56	131	13.9	20	
cis-1,2-Dichloroethene	1.19	0.0500	1.16	0	103	72	126	4.51	20	
cis-1,3-Dichloropropene	1.17	0.0500	1.16	0	101	69	131	3.49	20	
Cyclohexane	1.18	0.750	1.16	0	102	40	161	1.10	20	N
Dibromochloromethane	1.24	0.0500	1.16	0	107	66	133	0.242	20	
Dibromomethane	1.25	0.0500	1.16	0	108	76	125	2.64	20	
Dichlorodifluoromethane	0.993	0.0500	1.16	0	85.6	53	153	4.22	20	
Ethylbenzene	1.20	0.0500	1.16	0	103	80	120	2.37	20	
Hexachlorobutadiene	1.12	0.150	1.16	0	96.5	67	131	3.18	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS7_170128A**

Sample ID	**1701244-22AMSD**	Batch ID:	**78941**	TestNo:	**SW8260C**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**GCMS7_170128A**	Analysis Date:	**1/28/2017 10:53:00 PM**	Prep Date:	**1/28/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Isopropylbenzene	1.18	0.0500	1.16	0	102	75	127	0.851	20	
m,p-Xylene	2.35	0.100	2.32	0	101	80	120	1.50	20	
Methyl Acetate	1.26	0.750	1.16	0	109	50	150	3.56	20	
Methyl tert-butyl ether	1.24	0.0500	1.16	0	107	68	123	2.62	20	
Methylcyclohexane	1.14	0.750	1.16	0	97.9	70	130	0.044	20	
Methylene chloride	1.33	0.125	1.16	0	114	63	137	0.795	20	
Naphthalene	1.10	0.750	1.16	0	94.6	54	138	8.75	20	
n-Butylbenzene	1.15	0.0500	1.16	0	99.1	69	137	3.00	20	
n-Propylbenzene	1.17	0.0500	1.16	0	101	72	129	1.07	20	
o-Xylene	1.15	0.0500	1.16	0	99.2	80	120	2.64	20	
p-Isopropyltoluene	1.19	0.0500	1.16	0	102	73	130	1.74	20	
sec-Butylbenzene	1.18	0.0500	1.16	0	101	72	127	0.212	20	
Styrene	1.19	0.0500	1.16	0	102	65	134	0.932	20	
tert-Butylbenzene	1.20	0.0500	1.16	0	103	70	129	0.882	20	
Tetrachloroethene	1.14	0.100	1.16	0	98.3	66	128	2.21	20	
Toluene	1.20	0.100	1.16	0	103	80	120	2.45	20	
trans-1,2-Dichloroethene	1.20	0.0500	1.16	0	104	63	137	3.20	20	
trans-1,3-Dichloropropene	1.26	0.0500	1.16	0	108	59	135	1.57	20	
Trichloroethene	1.13	0.0500	1.16	0	97.5	70	127	1.11	20	
Trichlorofluoromethane	1.31	0.0500	1.16	0	113	57	129	1.89	20	
Vinyl chloride	1.17	0.0500	1.16	0	100	50	134	7.20	20	
Surr: 1,2-Dichloroethane-d4	10800		10000		108	72	119	0	0	
Surr: 4-Bromofluorobenzene	9590		10000		95.9	76	119	0	0	
Surr: Dibromofluoromethane	10500		10000		105	85	115	0	0	
Surr: Toluene-d8	9460		10000		94.6	81	120	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS7_170128A**

Sample ID **ICV-170128**	Batch ID: **R90212**	TestNo: **SW8260C**	Units: **mg/L**
SampType: **ICV**	Run ID: **GCMS7_170128A**	Analysis Date: **1/28/2017 12:27:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0439	0.00100	0.0464	0	94.5	80	120			
1,1,1-Trichloroethane	0.0429	0.00100	0.0464	0	92.4	80	120			
1,1,2,2-Tetrachloroethane	0.0520	0.00100	0.0464	0	112	80	120			
1,1,2-Trichloroethane	0.0489	0.00100	0.0464	0	105	80	120			
1,1,2-Trichlorotrifluoroethane	0.0440	0.0150	0.0464	0	94.8	80	120			
1,1-Dichloroethane	0.0470	0.00100	0.0464	0	101	80	120			
1,1-Dichloroethene	0.0522	0.00100	0.0464	0	112	80	120			
1,1-Dichloropropene	0.0468	0.00100	0.0464	0	101	80	120			
1,2,3-Trichlorobenzene	0.0470	0.00500	0.0464	0	101	80	120			
1,2,3-Trichloropropane	0.0461	0.00100	0.0464	0	99.4	80	120			
1,2,4-Trichlorobenzene	0.0470	0.00500	0.0464	0	101	80	120			
1,2,4-Trimethylbenzene	0.0469	0.00500	0.0464	0	101	80	120			
1,2-Dibromo-3-chloropropane	0.0454	0.0100	0.0464	0	97.8	80	120			
1,2-Dibromoethane	0.0481	0.00100	0.0464	0	104	80	120			
1,2-Dichlorobenzene	0.0480	0.00100	0.0464	0	104	80	120			
1,2-Dichloroethane	0.0402	0.00100	0.0464	0	86.6	80	120			
1,2-Dichloropropane	0.0494	0.00100	0.0464	0	106	80	120			
1,3,5-Trimethylbenzene	0.0476	0.00500	0.0464	0	103	80	120			
1,3-Dichlorobenzene	0.0474	0.00100	0.0464	0	102	80	120			
1,3-Dichloropropane	0.0468	0.00100	0.0464	0	101	80	120			
1,4-Dichlorobenzene	0.0470	0.00100	0.0464	0	101	80	120			
1-Chlorohexane	0.0460	0.00500	0.0464	0	99.1	80	120			
2,2-Dichloropropane	0.0488	0.00100	0.0464	0	105	80	120			
2-Butanone	0.277	0.0150	0.232	0	120	80	120			
2-Chlorotoluene	0.0462	0.00100	0.0464	0	99.6	80	120			
2-Hexanone	0.270	0.0150	0.232	0	116	80	120			
4-Chlorotoluene	0.0462	0.00100	0.0464	0	99.6	80	120			
4-Methyl-2-pentanone	0.264	0.0150	0.232	0	114	80	120			
Acetone	0.273	0.0150	0.232	0	118	80	120			
Benzene	0.0477	0.00100	0.0464	0	103	80	120			
Bromobenzene	0.0466	0.00100	0.0464	0	100	80	120			
Bromochloromethane	0.0538	0.00100	0.0464	0	116	80	120			
Bromodichloromethane	0.0444	0.00100	0.0464	0	95.6	80	120			
Bromoform	0.0465	0.00100	0.0464	0	100	80	120			
Bromomethane	0.0383	0.00100	0.0464	0	82.5	80	120			
Carbon disulfide	0.0543	0.0150	0.0464	0	117	80	120			
Carbon tetrachloride	0.0432	0.00100	0.0464	0	93.1	80	120			
Chlorobenzene	0.0460	0.00100	0.0464	0	99.0	80	120			
Chloroethane	0.0442	0.00100	0.0464	0	95.3	80	120			
Chloroform	0.0436	0.00100	0.0464	0	94.1	80	120			
Chloromethane	0.0471	0.00100	0.0464	0	102	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS7_170128A**

Sample ID **ICV-170128**	Batch ID: **R90212**	TestNo: **SW8260C**	Units: **mg/L**
SampType: **ICV**	Run ID: **GCMS7_170128A**	Analysis Date: **1/28/2017 12:27:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	0.0491	0.00100	0.0464	0	106	80	120			
cis-1,3-Dichloropropene	0.0488	0.00100	0.0464	0	105	80	120			
Cyclohexane	0.0437	0.0150	0.0464	0	94.1	80	120			N
Dibromochloromethane	0.0475	0.00100	0.0464	0	102	80	120			
Dibromomethane	0.0463	0.00100	0.0464	0	99.8	80	120			
Dichlorodifluoromethane	0.0336	0.00100	0.0464	0	72.4	80	120			S
Ethylbenzene	0.0478	0.00100	0.0464	0	103	80	120			
Hexachlorobutadiene	0.0394	0.00300	0.0464	0	84.8	80	120			
Isopropylbenzene	0.0485	0.00100	0.0464	0	105	80	120			
m,p-Xylene	0.0976	0.00200	0.0928	0	105	80	120			
Methyl Acetate	0.0470	0.0150	0.0464	0	101	80	120			
Methyl tert-butyl ether	0.0471	0.00100	0.0464	0	102	80	120			
Methylcyclohexane	0.0422	0.0150	0.0464	0	90.9	80	120			
Methylene chloride	0.0513	0.00250	0.0464	0	110	80	120			
Naphthalene	0.0484	0.0150	0.0464	0	104	80	120			
n-Butylbenzene	0.0462	0.00100	0.0464	0	99.5	80	120			
n-Propylbenzene	0.0479	0.00100	0.0464	0	103	80	120			
o-Xylene	0.0494	0.00100	0.0464	0	107	80	120			
p-Isopropyltoluene	0.0492	0.00100	0.0464	0	106	80	120			
sec-Butylbenzene	0.0487	0.00100	0.0464	0	105	80	120			
Styrene	0.0482	0.00100	0.0464	0	104	80	120			
tert-Butylbenzene	0.0493	0.00100	0.0464	0	106	80	120			
Tetrachloroethene	0.0461	0.00200	0.0464	0	99.3	80	120			
Toluene	0.0479	0.00200	0.0464	0	103	80	120			
trans-1,2-Dichloroethene	0.0500	0.00100	0.0464	0	108	80	120			
trans-1,3-Dichloropropene	0.0458	0.00100	0.0464	0	98.7	80	120			
Trichloroethene	0.0467	0.00100	0.0464	0	101	80	120			
Trichlorofluoromethane	0.0411	0.00100	0.0464	0	88.5	80	120			
Vinyl chloride	0.0456	0.00100	0.0464	0	98.3	80	120			
Surr: 1,2-Dichloroethane-d4	167		200.0		83.7	72	119			
Surr: 4-Bromofluorobenzene	191		200.0		95.5	76	119			
Surr: Dibromofluoromethane	195		200.0		97.6	85	115			
Surr: Toluene-d8	199		200.0		99.5	81	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_170127A

The QC data in batch 78938 applies to the following samples: 1701264-01A, 1701264-02A, 1701264-04A, 1701264-05A

Sample ID	**1701257-03B DUP**	Batch ID:	**78938**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_170127A**	Analysis Date:	**1/30/2017 8:05:00 AM**	Prep Date:	**1/27/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	24.9	0	0	23.34				6.44	30	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_170130A

The QC data in batch 78956 applies to the following samples: 1701264-06A, 1701264-07A, 1701264-09A, 1701264-11C

Sample ID	**1701275-01A DUP**	Batch ID:	**78956**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_170130A**	Analysis Date:	**1/31/2017 8:10:00 AM**	Prep Date:	**1/30/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	22.3	0	0	21.92				1.95	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_170201A**

The QC data in batch 78993 applies to the following samples: 1701264-12C, 1701264-13A, 1701264-14A, 1701264-15B, 1701264-16B

Sample ID	**1702008-05A DUP**	Batch ID:	**78993**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_170201A**	Analysis Date:	**2/2/2017 8:15:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	27.1	0	0	27.36				0.984	30	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

MQL SUMMARY REPORT

TestNo: TX1005	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
T/R Hydrocarbons: C6-C12	7.00	20.0
T/R Hydrocarbons: >C12-C28	7.00	20.0
T/R Hydrocarbons: >C28-C35	7.00	20.0
T/R Hydrocarbons: C6-C35	7.00	20.0

TestNo: SW6020A	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Antimony	0.500	1.00
Arsenic	0.500	1.00
Barium	0.500	2.00
Beryllium	0.100	0.300
Cadmium	0.100	0.300
Chromium	0.500	2.00
Lead	0.100	0.300
Nickel	0.500	2.00
Selenium	0.150	0.500
Silver	0.100	0.200

TestNo: SW6020A	MDL	MQL
Analyte	**mg/L**	**mg/L**
Antimony	0.000800	0.00250
Arsenic	0.00200	0.00500
Barium	0.00300	0.0100
Beryllium	0.000300	0.00100
Cadmium	0.000300	0.00100
Chromium	0.00200	0.00500
Lead	0.000300	0.00100
Nickel	0.00300	0.0100
Selenium	0.00200	0.00500
Silver	0.00100	0.00200

TestNo: SW8082A	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Aroclor 1016	0.0500	0.100
Aroclor 1221	0.0500	0.100
Aroclor 1232	0.0500	0.100
Aroclor 1242	0.0500	0.100
Aroclor 1248	0.0500	0.100
Aroclor 1254	0.0500	0.100
Aroclor 1260	0.0500	0.100

TestNo: SW8260C	MDL	MQL
Analyte	**mg/L**	**mg/L**
1,1,1,2-Tetrachloroethane	0.000300	0.00100
1,1,1-Trichloroethane	0.000300	0.00100
1,1,2,2-Tetrachloroethane	0.000300	0.00100
1,1,2-Trichloroethane	0.000300	0.00100
1,1,2-Trichlorotrifluoroethane	0.00500	0.0150
1,1-Dichloroethane	0.000300	0.00100
1,1-Dichloroethene	0.000300	0.00100
1,1-Dichloropropene	0.000300	0.00100
1,2,3-Trichlorobenzene	0.00150	0.00500
1,2,3-Trichloropropane	0.000300	0.00100
1,2,4-Trichlorobenzene	0.00150	0.00500
1,2,4-Trimethylbenzene	0.00150	0.00500
1,2-Dibromo-3-chloropropane	0.00300	0.0100
1,2-Dibromoethane	0.000300	0.00100
1,2-Dichlorobenzene	0.000300	0.00100
1,2-Dichloroethane	0.000300	0.00100
1,2-Dichloropropane	0.000300	0.00100
1,3,5-Trimethylbenzene	0.00150	0.00500
1,3-Dichlorobenzene	0.000300	0.00100
1,3-Dichloropropane	0.000300	0.00100
1,4-Dichlorobenzene	0.000300	0.00100
1-Chlorohexane	0.00100	0.00500
2,2-Dichloropropane	0.000300	0.00100
2-Butanone	0.00500	0.0150
2-Chlorotoluene	0.000300	0.00100
2-Hexanone	0.00500	0.0150
4-Chlorotoluene	0.000300	0.00100
4-Methyl-2-pentanone	0.00500	0.0150
Acetone	0.00500	0.0150
Benzene	0.000300	0.00100
Bromobenzene	0.000300	0.00100
Bromochloromethane	0.000300	0.00100
Bromodichloromethane	0.000300	0.00100
Bromoform	0.000300	0.00100
Bromomethane	0.000300	0.00100
Carbon disulfide	0.00500	0.0150
Carbon tetrachloride	0.000300	0.00100
Chlorobenzene	0.000300	0.00100
Chloroethane	0.000300	0.00100
Chloroform	0.000300	0.00100
Chloromethane	0.000300	0.00100
cis-1,2-Dichloroethene	0.000300	0.00100
cis-1,3-Dichloropropene	0.000300	0.00100
Cyclohexane	0.00500	0.0150

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

MQL SUMMARY REPORT

Dibromochloromethane	0.000300	0.00100
Dibromomethane	0.000300	0.00100
Dichlorodifluoromethane	0.000300	0.00100
Ethylbenzene	0.000300	0.00100
Hexachlorobutadiene	0.00100	0.00300
Isopropylbenzene	0.000300	0.00100
m,p-Xylene	0.000600	0.00200
Methyl Acetate	0.00500	0.0150
Methyl tert-butyl ether	0.000300	0.00100
Methylcyclohexane	0.00500	0.0150
Methylene chloride	0.00250	0.00250
Naphthalene	0.00500	0.0150
n-Butylbenzene	0.000300	0.00100
n-Propylbenzene	0.000300	0.00100
o-Xylene	0.000300	0.00100
p-Isopropyltoluene	0.000300	0.00100
sec-Butylbenzene	0.000300	0.00100
Styrene	0.000300	0.00100
tert-Butylbenzene	0.000300	0.00100
Tetrachloroethene	0.000600	0.00200
Toluene	0.000600	0.00200
trans-1,2-Dichloroethene	0.000300	0.00100
trans-1,3-Dichloropropene	0.000300	0.00100
Trichloroethene	0.000600	0.00100
Trichlorofluoromethane	0.000300	0.00100
Vinyl chloride	0.000300	0.00100

TestNo: SW8260C	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
1,1,1,2-Tetrachloroethane	0.00100	0.00500
1,1,1-Trichloroethane	0.00100	0.00500
1,1,2,2-Tetrachloroethane	0.00100	0.00500
1,1,2-Trichloroethane	0.00100	0.00500
1,1,2-Trichlorotrifluoroethane	0.00500	0.0150
1,1-Dichloroethane	0.00100	0.00500
1,1-Dichloroethene	0.00100	0.00500
1,1-Dichloropropene	0.00100	0.00500
1,2,3-Trichlorobenzene	0.00100	0.00500
1,2,3-Trichloropropane	0.00100	0.00500
1,2,4-Trichlorobenzene	0.00100	0.00500
1,2,4-Trimethylbenzene	0.00100	0.00500
1,2-Dibromo-3-chloropropane	0.00100	0.00500
1,2-Dibromoethane	0.00100	0.00500
1,2-Dichlorobenzene	0.00100	0.00500
1,2-Dichloroethane	0.00100	0.00500
1,2-Dichloropropane	0.00100	0.00500
1,3,5-Trimethylbenzene	0.00100	0.00500
1,3-Dichlorobenzene	0.00100	0.00500
1,3-Dichloropropane	0.00100	0.00500
1,4-Dichlorobenzene	0.00100	0.00500
1-Chlorohexane	0.00100	0.00500
2,2-Dichloropropane	0.00100	0.00500
2-Butanone	0.00500	0.0150
2-Chlorotoluene	0.00100	0.00500
2-Hexanone	0.00500	0.0150
4-Chlorotoluene	0.00100	0.00500
4-Methyl-2-pentanone	0.00500	0.0150
Acetone	0.0150	0.0500
Benzene	0.00100	0.00500
Bromobenzene	0.00100	0.00500
Bromochloromethane	0.00100	0.00500
Bromodichloromethane	0.00100	0.00500
Bromoform	0.00100	0.00500
Bromomethane	0.00100	0.00500
Carbon disulfide	0.00500	0.0150
Carbon tetrachloride	0.00100	0.00500
Chlorobenzene	0.00100	0.00500
Chloroethane	0.00100	0.00500
Chloroform	0.00100	0.00500
Chloromethane	0.00100	0.00500
cis-1,2-Dichloroethene	0.00100	0.00500
cis-1,3-Dichloropropene	0.00100	0.00500
Cyclohexane	0.00500	0.0150
Dibromochloromethane	0.00100	0.00500
Dibromomethane	0.00100	0.00500

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

CLIENT: AECOM
Work Order: 1701264
Project: GLO/City of Galveston

MQL SUMMARY REPORT

Dichlorodifluoromethane	0.00100	0.00500
Ethylbenzene	0.00100	0.00500
Hexachlorobutadiene	0.00100	0.00500
Isopropylbenzene	0.00100	0.00500
m,p-Xylene	0.00100	0.00500
Methyl Acetate	0.00500	0.0150
Methyl tert-butyl ether	0.00100	0.00500
Methylcyclohexane	0.00500	0.0150
Methylene chloride	0.00500	0.00500
Naphthalene	0.00500	0.0150
n-Butylbenzene	0.00100	0.00500
n-Propylbenzene	0.00100	0.00500
o-Xylene	0.00100	0.00500
p-Isopropyltoluene	0.00100	0.00500
sec-Butylbenzene	0.00100	0.00500
Styrene	0.00100	0.00500
tert-Butylbenzene	0.00100	0.00500
Tetrachloroethene	0.00100	0.00500
Toluene	0.00100	0.00500
trans-1,2-Dichloroethene	0.00100	0.00500
trans-1,3-Dichloropropene	0.00100	0.00500
Trichloroethene	0.00100	0.00500
Trichlorofluoromethane	0.00500	0.0150
Vinyl chloride	0.00100	0.00500

TestNo: SW7471B	**MDL**	**MQL**
Analyte	**mg/Kg**	**mg/Kg**
Mercury	0.0160	0.0400

TestNo: SW7470A	**MDL**	**MQL**
Analyte	**mg/L**	**mg/L**
Mercury	0.0000800	0.000200

TestNo: SW8270D-LL	**MDL**	**MQL**
Analyte	**mg/Kg**	**mg/Kg**
Acenaphthene	0.00500	0.0100
Acenaphthylene	0.00500	0.0100
Anthracene	0.00500	0.0100
Benzo[a]anthracene	0.00500	0.0100
Benzo[a]pyrene	0.00500	0.0100
Benzo[b]fluoranthene	0.00500	0.0100
Benzo[g,h,i]perylene	0.00500	0.0100
Benzo[k]fluoranthene	0.00500	0.0100
Chrysene	0.00500	0.0100
Dibenz[a,h]anthracene	0.00500	0.0100
Fluoranthene	0.00500	0.0100
Fluorene	0.00500	0.0100
Indeno[1,2,3-cd]pyrene	0.00500	0.0100
Naphthalene	0.00500	0.0100
Phenanthrene	0.00500	0.0100
Pyrene	0.00500	0.0100

TestNo: SW8270D-LL	**MDL**	**MQL**
Analyte	**mg/L**	**mg/L**
Acenaphthene	0.0000250	0.0000500
Acenaphthylene	0.0000250	0.0000500
Anthracene	0.0000250	0.0000500
Benzo[a]anthracene	0.0000250	0.0000500
Benzo[a]pyrene	0.0000250	0.0000500
Benzo[b]fluoranthene	0.0000250	0.0000500
Benzo[g,h,i]perylene	0.0000250	0.0000500
Benzo[k]fluoranthene	0.0000250	0.0000500
Chrysene	0.0000250	0.0000500
Dibenz[a,h]anthracene	0.0000250	0.0000500
Fluoranthene	0.0000250	0.0000500
Fluorene	0.0000250	0.0000500
Indeno[1,2,3-cd]pyrene	0.0000250	0.0000500
Naphthalene	0.0000250	0.0000500
Phenanthrene	0.0000250	0.0000500
Pyrene	0.0000250	0.0000500

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

DHL Analytical, Inc.
Laboratory Review Checklist: Reportable Data

Project Name: GLO/City of Galveston	**Date:** 2/14/2017
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1702034
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	**1)** Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				**R1-01**
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			**R4-02**
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.
Laboratory Review Checklist (continued): Supporting Data

Project Name: GLO/City of Galveston | **Date:** 2/14/2017

Reviewer Name: Angie O'Donnell | **Laboratory Work Order:** 1702034

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?		X			**S4-01**
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
- a) Items consistent with NELAC Chapter 5,
- b) dilution factors,
- c) preparation methods,
- d) cleanup methods, and
- e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:
- a) Calculated recovery (%R), and
- b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
- a) LCS spiking amounts,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d) Calculated %Rs and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits

R8 Laboratory analytical duplicate (if applicable) recovery and precision:
- a) The amount of analyte measured in the duplicate,
- b) The calculated RPD, and
- c) The laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-5, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager		02/14/17
Scott Schroeder – Technical Director	Signature	Date

DHL Analytical, Inc. **Date:** *14-Feb-17*

CLIENT: AECOM
Project: GLO/City of Galveston
Lab Order: 1702034

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7470A - Mercury Analysis
Method SW8270D-LL - PAH Analysis

Exception Report R1-01

The samples were received and log-in performed on 2/3/2017. A total of 13 samples were received and analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R4-02

For PAH Analysis, the recovery of surrogate 2-Fluorobiphenyl for four samples was slightly below the method control limits. This is flagged accordingly in the QC Summary report. The remaining surrogate for these samples was within method control limits. No further corrective action was taken.

For PAH Analysis, the recoveries of surrogate 2-Fluorobiphenyl (at 1x) and the recovery of surrogate 4-Terphenyl-d14 (at 50x) for Sample INC-MW5-010 were slightly below the method control limits. These are flagged accordingly in the QC Summary report. The remaining surrogate at these dilutions were within method control limits. No further corrective action was taken.

Exception Report S4-01

For Metals Analysis, the response factor(s) of Internal Standards Bismuth and Indium for Sample INC-MW07-010 were below the method control limit, due to matrix interference and verified by re-analysis. The affected analytes are nondetect, with the exception of Lead and Barium, which may be biased slightly high for this sample. No further corrective action was taken.

For Metals Analysis, the response factor of Internal Standard Bismuth for the Matrix Spike and Matrix Spike Duplicate (1702034-13 MS/MSD) was below the method control limits, due to matrix interference and verified by re-analysis. The recovery of the affected analyte, Lead, was within method control limits in these samples. The reference sample selected for the Batch QC was from this workorder. No further corrective action was taken.

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT: AECOM
Project: GLO/City of Galveston
Lab Order: 1702034

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1702034-01	INC-MW09-010		02/01/17 10:50 AM	2/3/2017
1702034-02	INC-MW04-010		02/01/17 12:20 PM	2/3/2017
1702034-03	INC-MW08-010		02/01/17 01:20 PM	2/3/2017
1702034-04	INC-MW03-010		02/01/17 02:25 PM	2/3/2017
1702034-05	INC-MW13-010		02/01/17 04:10 PM	2/3/2017
1702034-06	INC-MW12-010		02/01/17 05:10 PM	2/3/2017
1702034-07	INC-MW11-010		02/02/17 09:25 AM	2/3/2017
1702034-08	INC-MW11-011		02/02/17 09:25 AM	2/3/2017
1702034-09	INC-MW01-010		02/02/17 10:35 AM	2/3/2017
1702034-10	INC-MW05-010		02/02/17 11:55 AM	2/3/2017
1702034-11	INC-MW07-010		02/02/17 12:40 PM	2/3/2017
1702034-12	INC-MW06-010		02/02/17 02:10 PM	2/3/2017
1702034-13	INC-MW10-013		02/02/17 03:10 PM	2/3/2017

DHL Analytical, Inc.

14-Feb-17

Lab Order: 1702034
Client: AECOM
Project: GLO/City of Galveston

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1702034-01A	INC-MW09-010	02/01/17 10:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	02/06/17 08:19 AM	79042
	INC-MW09-010	02/01/17 10:50 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	02/10/17 11:11 AM	79141
1702034-01B	INC-MW09-010	02/01/17 10:50 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	02/07/17 02:30 PM	79080
1702034-02A	INC-MW04-010	02/01/17 12:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	02/06/17 08:19 AM	79042
	INC-MW04-010	02/01/17 12:20 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	02/10/17 11:11 AM	79141
1702034-02B	INC-MW04-010	02/01/17 12:20 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	02/07/17 02:30 PM	79080
1702034-03A	INC-MW08-010	02/01/17 01:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	02/06/17 08:19 AM	79042
	INC-MW08-010	02/01/17 01:20 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	02/10/17 11:11 AM	79141
1702034-03B	INC-MW08-010	02/01/17 01:20 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	02/07/17 02:30 PM	79080
1702034-04A	INC-MW03-010	02/01/17 02:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	02/06/17 08:19 AM	79042
	INC-MW03-010	02/01/17 02:25 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	02/10/17 11:11 AM	79141
1702034-04B	INC-MW03-010	02/01/17 02:25 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	02/07/17 02:30 PM	79080
1702034-05A	INC-MW13-010	02/01/17 04:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	02/06/17 08:19 AM	79042
	INC-MW13-010	02/01/17 04:10 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	02/10/17 11:11 AM	79141
1702034-05B	INC-MW13-010	02/01/17 04:10 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	02/07/17 02:30 PM	79080
	INC-MW13-010	02/01/17 04:10 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	02/08/17 01:00 PM	79080
1702034-06A	INC-MW12-010	02/01/17 05:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	02/06/17 08:19 AM	79042
	INC-MW12-010	02/01/17 05:10 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	02/10/17 11:11 AM	79141
1702034-06B	INC-MW12-010	02/01/17 05:10 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	02/07/17 02:30 PM	79080
1702034-07A	INC-MW11-010	02/02/17 09:25 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	02/06/17 08:19 AM	79042
	INC-MW11-010	02/02/17 09:25 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	02/10/17 11:11 AM	79141
1702034-07B	INC-MW11-010	02/02/17 09:25 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	02/07/17 02:30 PM	79080
1702034-08A	INC-MW11-011	02/02/17 09:25 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	02/06/17 08:19 AM	79042
	INC-MW11-011	02/02/17 09:25 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	02/10/17 11:11 AM	79141
1702034-08B	INC-MW11-011	02/02/17 09:25 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	02/07/17 02:30 PM	79080
1702034-09A	INC-MW01-010	02/02/17 10:35 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	02/06/17 08:19 AM	79042
	INC-MW01-010	02/02/17 10:35 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	02/10/17 11:11 AM	79141
1702034-09B	INC-MW01-010	02/02/17 10:35 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	02/07/17 02:30 PM	79080

Lab Order: 1702034
Client: AECOM
Project: GLO/City of Galveston

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1702034-10A	INC-MW05-010	02/02/17 11:55 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	02/06/17 08:19 AM	79042
	INC-MW05-010	02/02/17 11:55 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	02/10/17 11:11 AM	79141
1702034-10B	INC-MW05-010	02/02/17 11:55 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	02/07/17 02:30 PM	79080
	INC-MW05-010	02/02/17 11:55 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	02/07/17 02:30 PM	79080
	INC-MW05-010	02/02/17 11:55 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	02/07/17 02:30 PM	79080
1702034-11A	INC-MW07-010	02/02/17 12:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	02/06/17 08:19 AM	79042
	INC-MW07-010	02/02/17 12:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	02/06/17 08:19 AM	79042
	INC-MW07-010	02/02/17 12:40 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	02/10/17 11:11 AM	79141
1702034-11B	INC-MW07-010	02/02/17 12:40 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	02/07/17 02:30 PM	79080
	INC-MW07-010	02/02/17 12:40 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	02/08/17 01:00 PM	79080
1702034-12A	INC-MW06-010	02/02/17 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	02/06/17 08:19 AM	79042
	INC-MW06-010	02/02/17 02:10 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	02/10/17 11:11 AM	79141
1702034-12B	INC-MW06-010	02/02/17 02:10 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	02/07/17 02:30 PM	79080
1702034-13A	INC-MW10-013	02/02/17 03:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	02/06/17 08:19 AM	79042
	INC-MW10-013	02/02/17 03:10 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	02/10/17 11:11 AM	79141
1702034-13B	INC-MW10-013	02/02/17 03:10 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	02/08/17 01:00 PM	79080
	INC-MW10-013	02/02/17 03:10 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	02/07/17 02:30 PM	79080

DHL Analytical, Inc.

14-Feb-17

Lab Order: 1702034
Client: AECOM
Project: GLO/City of Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1702034-01A	INC-MW09-010	Aqueous	SW7470A	Mercury Total: Aqueous	79141	1	02/13/17 11:40 AM	CETAC2_HG_170213B
	INC-MW09-010	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	79042	1	02/07/17 12:30 PM	ICP-MS5_170207A
1702034-01B	INC-MW09-010	Aqueous	SW8270D-LL	PAHs: GC/MS	79080	1	02/07/17 07:05 PM	GCMS6_170207A
1702034-02A	INC-MW04-010	Aqueous	SW7470A	Mercury Total: Aqueous	79141	1	02/13/17 11:42 AM	CETAC2_HG_170213B
	INC-MW04-010	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	79042	1	02/07/17 12:32 PM	ICP-MS5_170207A
1702034-02B	INC-MW04-010	Aqueous	SW8270D-LL	PAHs: GC/MS	79080	1	02/07/17 07:35 PM	GCMS6_170207A
1702034-03A	INC-MW08-010	Aqueous	SW7470A	Mercury Total: Aqueous	79141	1	02/13/17 11:44 AM	CETAC2_HG_170213B
	INC-MW08-010	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	79042	1	02/07/17 12:34 PM	ICP-MS5_170207A
1702034-03B	INC-MW08-010	Aqueous	SW8270D-LL	PAHs: GC/MS	79080	1	02/07/17 08:05 PM	GCMS6_170207A
1702034-04A	INC-MW03-010	Aqueous	SW7470A	Mercury Total: Aqueous	79141	1	02/13/17 11:47 AM	CETAC2_HG_170213B
	INC-MW03-010	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	79042	1	02/07/17 12:36 PM	ICP-MS5_170207A
1702034-04B	INC-MW03-010	Aqueous	SW8270D-LL	PAHs: GC/MS	79080	1	02/07/17 08:34 PM	GCMS6_170207A
1702034-05A	INC-MW13-010	Aqueous	SW7470A	Mercury Total: Aqueous	79141	1	02/13/17 11:49 AM	CETAC2_HG_170213B
	INC-MW13-010	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	79042	1	02/07/17 12:37 PM	ICP-MS5_170207A
1702034-05B	INC-MW13-010	Aqueous	SW8270D-LL	PAHs: GC/MS	79080	1	02/07/17 09:04 PM	GCMS6_170207A
	INC-MW13-010	Aqueous	SW8270D-LL	PAHs: GC/MS	79080	1	02/08/17 02:18 PM	GCMS6_170207A
1702034-06A	INC-MW12-010	Aqueous	SW7470A	Mercury Total: Aqueous	79141	1	02/13/17 11:51 AM	CETAC2_HG_170213B
	INC-MW12-010	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	79042	1	02/07/17 12:39 PM	ICP-MS5_170207A
1702034-06B	INC-MW12-010	Aqueous	SW8270D-LL	PAHs: GC/MS	79080	1	02/07/17 09:34 PM	GCMS6_170207A
1702034-07A	INC-MW11-010	Aqueous	SW7470A	Mercury Total: Aqueous	79141	1	02/13/17 11:54 AM	CETAC2_HG_170213B
	INC-MW11-010	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	79042	1	02/07/17 12:41 PM	ICP-MS5_170207A
1702034-07B	INC-MW11-010	Aqueous	SW8270D-LL	PAHs: GC/MS	79080	1	02/07/17 10:04 PM	GCMS6_170207A
1702034-08A	INC-MW11-011	Aqueous	SW7470A	Mercury Total: Aqueous	79141	1	02/13/17 11:56 AM	CETAC2_HG_170213B
	INC-MW11-011	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	79042	1	02/07/17 12:43 PM	ICP-MS5_170207A

Lab Order: 1702034
Client: AECOM
Project: GLO/City of Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1702034-08B	INC-MW11-011	Aqueous	SW8270D-LL	PAHs: GC/MS	79080	1	02/07/17 10:34 PM	GCMS6_170207A
1702034-09A	INC-MW01-010	Aqueous	SW7470A	Mercury Total: Aqueous	79141	1	02/13/17 11:58 AM	CETAC2_HG_170213B
	INC-MW01-010	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	79042	1	02/07/17 01:22 PM	ICP-MS5_170207A
1702034-09B	INC-MW01-010	Aqueous	SW8270D-LL	PAHs: GC/MS	79080	1	02/07/17 11:04 PM	GCMS6_170207A
1702034-10A	INC-MW05-010	Aqueous	SW7470A	Mercury Total: Aqueous	79141	1	02/13/17 12:05 PM	CETAC2_HG_170213B
	INC-MW05-010	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	79042	1	02/07/17 01:24 PM	ICP-MS5_170207A
1702034-10B	INC-MW05-010	Aqueous	SW8270D-LL	PAHs: GC/MS	79080	50	02/08/17 05:55 PM	GCMS6_170207A
	INC-MW05-010	Aqueous	SW8270D-LL	PAHs: GC/MS	79080	1	02/07/17 11:34 PM	GCMS6_170207A
	INC-MW05-010	Aqueous	SW8270D-LL	PAHs: GC/MS	79080	10	02/08/17 05:25 PM	GCMS6_170207A
1702034-11A	INC-MW07-010	Aqueous	SW7470A	Mercury Total: Aqueous	79141	1	02/13/17 12:07 PM	CETAC2_HG_170213B
	INC-MW07-010	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	79042	100	02/07/17 02:05 PM	ICP-MS5_170207A
	INC-MW07-010	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	79042	1	02/07/17 01:26 PM	ICP-MS5_170207A
1702034-11B	INC-MW07-010	Aqueous	SW8270D-LL	PAHs: GC/MS	79080	1	02/08/17 12:04 AM	GCMS6_170207A
	INC-MW07-010	Aqueous	SW8270D-LL	PAHs: GC/MS	79080	1	02/08/17 02:47 PM	GCMS6_170207A
1702034-12A	INC-MW06-010	Aqueous	SW7470A	Mercury Total: Aqueous	79141	1	02/13/17 12:10 PM	CETAC2_HG_170213B
	INC-MW06-010	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	79042	1	02/07/17 01:28 PM	ICP-MS5_170207A
1702034-12B	INC-MW06-010	Aqueous	SW8270D-LL	PAHs: GC/MS	79080	1	02/08/17 12:33 AM	GCMS6_170207A
1702034-13A	INC-MW10-013	Aqueous	SW7470A	Mercury Total: Aqueous	79141	1	02/13/17 11:28 AM	CETAC2_HG_170213B
	INC-MW10-013	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	79042	1	02/07/17 12:25 PM	ICP-MS5_170207A
1702034-13B	INC-MW10-013	Aqueous	SW8270D-LL	PAHs: GC/MS	79080	1	02/08/17 03:17 PM	GCMS6_170207A
	INC-MW10-013	Aqueous	SW8270D-LL	PAHs: GC/MS	79080	1	02/08/17 01:03 AM	GCMS6_170207A

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW09-010
Project:	GLO/City of Galveston	**Lab ID:**	1702034-01
Project No:	60420789.3301	**Collection Date:**	02/01/17 10:50 AM
Lab Order:	1702034	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	02/07/17 12:30 PM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:30 PM
Barium	0.0313	0.00300	0.0100		mg/L	1	02/07/17 12:30 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 12:30 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 12:30 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:30 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 12:30 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	02/07/17 12:30 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:30 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	02/07/17 12:30 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **RO**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	02/13/17 11:40 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.00998	0.0000271	0.0000543		mg/L	1	02/07/17 07:05 PM
Acenaphthylene	<0.0000271	0.0000271	0.0000543		mg/L	1	02/07/17 07:05 PM
Anthracene	0.0000788	0.0000271	0.0000543		mg/L	1	02/07/17 07:05 PM
Benzo[a]anthracene	<0.0000271	0.0000271	0.0000543		mg/L	1	02/07/17 07:05 PM
Benzo[a]pyrene	<0.0000271	0.0000271	0.0000543		mg/L	1	02/07/17 07:05 PM
Benzo[b]fluoranthene	<0.0000271	0.0000271	0.0000543		mg/L	1	02/07/17 07:05 PM
Benzo[g,h,i]perylene	<0.0000271	0.0000271	0.0000543		mg/L	1	02/07/17 07:05 PM
Benzo[k]fluoranthene	<0.0000271	0.0000271	0.0000543		mg/L	1	02/07/17 07:05 PM
Chrysene	<0.0000271	0.0000271	0.0000543		mg/L	1	02/07/17 07:05 PM
Dibenz[a,h]anthracene	<0.0000271	0.0000271	0.0000543		mg/L	1	02/07/17 07:05 PM
Fluoranthene	0.0000671	0.0000271	0.0000543		mg/L	1	02/07/17 07:05 PM
Fluorene	0.000251	0.0000271	0.0000543		mg/L	1	02/07/17 07:05 PM
Indeno[1,2,3-cd]pyrene	<0.0000271	0.0000271	0.0000543		mg/L	1	02/07/17 07:05 PM
Naphthalene	0.000294	0.0000271	0.0000543		mg/L	1	02/07/17 07:05 PM
Phenanthrene	<0.0000271	0.0000271	0.0000543		mg/L	1	02/07/17 07:05 PM
Pyrene	0.0000643	0.0000271	0.0000543		mg/L	1	02/07/17 07:05 PM
Surr: 2-Fluorobiphenyl	46.6	0	48-120	S	%REC	1	02/07/17 07:05 PM
Surr: 4-Terphenyl-d14	50.7	0	51-135		%REC	1	02/07/17 07:05 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW04-010
Project:	GLO/City of Galveston	**Lab ID:**	1702034-02
Project No:	60420789.3301	**Collection Date:**	02/01/17 12:20 PM
Lab Order:	1702034	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	02/07/17 12:32 PM
Arsenic	0.00404	0.00200	0.00500	J	mg/L	1	02/07/17 12:32 PM
Barium	0.146	0.00300	0.0100		mg/L	1	02/07/17 12:32 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 12:32 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 12:32 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:32 PM
Lead	0.00904	0.000300	0.00100		mg/L	1	02/07/17 12:32 PM
Nickel	0.00699	0.00300	0.0100	J	mg/L	1	02/07/17 12:32 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:32 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	02/07/17 12:32 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **RO**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	02/13/17 11:42 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0000299	0.0000299	0.0000598		mg/L	1	02/07/17 07:35 PM
Acenaphthylene	<0.0000299	0.0000299	0.0000598		mg/L	1	02/07/17 07:35 PM
Anthracene	<0.0000299	0.0000299	0.0000598		mg/L	1	02/07/17 07:35 PM
Benzo[a]anthracene	<0.0000299	0.0000299	0.0000598		mg/L	1	02/07/17 07:35 PM
Benzo[a]pyrene	<0.0000299	0.0000299	0.0000598		mg/L	1	02/07/17 07:35 PM
Benzo[b]fluoranthene	<0.0000299	0.0000299	0.0000598		mg/L	1	02/07/17 07:35 PM
Benzo[g,h,i]perylene	<0.0000299	0.0000299	0.0000598		mg/L	1	02/07/17 07:35 PM
Benzo[k]fluoranthene	<0.0000299	0.0000299	0.0000598		mg/L	1	02/07/17 07:35 PM
Chrysene	<0.0000299	0.0000299	0.0000598		mg/L	1	02/07/17 07:35 PM
Dibenz[a,h]anthracene	<0.0000299	0.0000299	0.0000598		mg/L	1	02/07/17 07:35 PM
Fluoranthene	<0.0000299	0.0000299	0.0000598		mg/L	1	02/07/17 07:35 PM
Fluorene	<0.0000299	0.0000299	0.0000598		mg/L	1	02/07/17 07:35 PM
Indeno[1,2,3-cd]pyrene	<0.0000299	0.0000299	0.0000598		mg/L	1	02/07/17 07:35 PM
Naphthalene	<0.0000299	0.0000299	0.0000598		mg/L	1	02/07/17 07:35 PM
Phenanthrene	<0.0000299	0.0000299	0.0000598		mg/L	1	02/07/17 07:35 PM
Pyrene	<0.0000299	0.0000299	0.0000598		mg/L	1	02/07/17 07:35 PM
Surr: 2-Fluorobiphenyl	55.9	0	48-120		%REC	1	02/07/17 07:35 PM
Surr: 4-Terphenyl-d14	63.3	0	51-135		%REC	1	02/07/17 07:35 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW08-010
Project:	GLO/City of Galveston	**Lab ID:**	1702034-03
Project No:	60420789.3301	**Collection Date:**	02/01/17 01:20 PM
Lab Order:	1702034	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	0.000849	0.000800	0.00250	J	mg/L	1	02/07/17 12:34 PM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:34 PM
Barium	0.146	0.00300	0.0100		mg/L	1	02/07/17 12:34 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 12:34 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 12:34 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:34 PM
Lead	0.00334	0.000300	0.00100		mg/L	1	02/07/17 12:34 PM
Nickel	0.00570	0.00300	0.0100	J	mg/L	1	02/07/17 12:34 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:34 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	02/07/17 12:34 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **RO**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	02/13/17 11:44 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 08:05 PM
Acenaphthylene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 08:05 PM
Anthracene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 08:05 PM
Benzo[a]anthracene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 08:05 PM
Benzo[a]pyrene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 08:05 PM
Benzo[b]fluoranthene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 08:05 PM
Benzo[g,h,i]perylene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 08:05 PM
Benzo[k]fluoranthene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 08:05 PM
Chrysene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 08:05 PM
Dibenz[a,h]anthracene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 08:05 PM
Fluoranthene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 08:05 PM
Fluorene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 08:05 PM
Indeno[1,2,3-cd]pyrene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 08:05 PM
Naphthalene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 08:05 PM
Phenanthrene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 08:05 PM
Pyrene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 08:05 PM
Surr: 2-Fluorobiphenyl	50.7	0	48-120		%REC	1	02/07/17 08:05 PM
Surr: 4-Terphenyl-d14	56.5	0	51-135		%REC	1	02/07/17 08:05 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW03-010
Project:	GLO/City of Galveston	**Lab ID:**	1702034-04
Project No:	60420789.3301	**Collection Date:**	02/01/17 02:25 PM
Lab Order:	1702034	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	02/07/17 12:36 PM
Arsenic	0.00637	0.00200	0.00500		mg/L	1	02/07/17 12:36 PM
Barium	0.138	0.00300	0.0100		mg/L	1	02/07/17 12:36 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 12:36 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 12:36 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:36 PM
Lead	0.000763	0.000300	0.00100	J	mg/L	1	02/07/17 12:36 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	02/07/17 12:36 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:36 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	02/07/17 12:36 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **RO**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	02/13/17 11:47 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0000320	0.0000320	0.0000639		mg/L	1	02/07/17 08:34 PM
Acenaphthylene	<0.0000320	0.0000320	0.0000639		mg/L	1	02/07/17 08:34 PM
Anthracene	<0.0000320	0.0000320	0.0000639		mg/L	1	02/07/17 08:34 PM
Benzo[a]anthracene	<0.0000320	0.0000320	0.0000639		mg/L	1	02/07/17 08:34 PM
Benzo[a]pyrene	<0.0000320	0.0000320	0.0000639		mg/L	1	02/07/17 08:34 PM
Benzo[b]fluoranthene	<0.0000320	0.0000320	0.0000639		mg/L	1	02/07/17 08:34 PM
Benzo[g,h,i]perylene	<0.0000320	0.0000320	0.0000639		mg/L	1	02/07/17 08:34 PM
Benzo[k]fluoranthene	<0.0000320	0.0000320	0.0000639		mg/L	1	02/07/17 08:34 PM
Chrysene	<0.0000320	0.0000320	0.0000639		mg/L	1	02/07/17 08:34 PM
Dibenz[a,h]anthracene	<0.0000320	0.0000320	0.0000639		mg/L	1	02/07/17 08:34 PM
Fluoranthene	<0.0000320	0.0000320	0.0000639		mg/L	1	02/07/17 08:34 PM
Fluorene	<0.0000320	0.0000320	0.0000639		mg/L	1	02/07/17 08:34 PM
Indeno[1,2,3-cd]pyrene	<0.0000320	0.0000320	0.0000639		mg/L	1	02/07/17 08:34 PM
Naphthalene	<0.0000320	0.0000320	0.0000639		mg/L	1	02/07/17 08:34 PM
Phenanthrene	<0.0000320	0.0000320	0.0000639		mg/L	1	02/07/17 08:34 PM
Pyrene	<0.0000320	0.0000320	0.0000639		mg/L	1	02/07/17 08:34 PM
Surr: 2-Fluorobiphenyl	48.0	0	48-120		%REC	1	02/07/17 08:34 PM
Surr: 4-Terphenyl-d14	53.9	0	51-135		%REC	1	02/07/17 08:34 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW13-010
Project:	GLO/City of Galveston	**Lab ID:**	1702034-05
Project No:	60420789.3301	**Collection Date:**	02/01/17 04:10 PM
Lab Order:	1702034	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	02/07/17 12:37 PM
Arsenic	0.0105	0.00200	0.00500		mg/L	1	02/07/17 12:37 PM
Barium	0.169	0.00300	0.0100		mg/L	1	02/07/17 12:37 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 12:37 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 12:37 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:37 PM
Lead	0.000769	0.000300	0.00100	J	mg/L	1	02/07/17 12:37 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	02/07/17 12:37 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:37 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	02/07/17 12:37 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **RO**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	02/13/17 11:49 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.000289	0.0000291	0.0000582		mg/L	1	02/08/17 02:18 PM
Acenaphthylene	<0.0000291	0.0000291	0.0000582		mg/L	1	02/08/17 02:18 PM
Anthracene	<0.0000291	0.0000291	0.0000582		mg/L	1	02/08/17 02:18 PM
Benzo[a]anthracene	<0.0000291	0.0000291	0.0000582		mg/L	1	02/08/17 02:18 PM
Benzo[a]pyrene	<0.0000291	0.0000291	0.0000582		mg/L	1	02/08/17 02:18 PM
Benzo[b]fluoranthene	<0.0000291	0.0000291	0.0000582		mg/L	1	02/08/17 02:18 PM
Benzo[g,h,i]perylene	<0.0000291	0.0000291	0.0000582		mg/L	1	02/08/17 02:18 PM
Benzo[k]fluoranthene	<0.0000291	0.0000291	0.0000582		mg/L	1	02/08/17 02:18 PM
Chrysene	<0.0000291	0.0000291	0.0000582		mg/L	1	02/08/17 02:18 PM
Dibenz[a,h]anthracene	<0.0000291	0.0000291	0.0000582		mg/L	1	02/08/17 02:18 PM
Fluoranthene	<0.0000291	0.0000291	0.0000582		mg/L	1	02/08/17 02:18 PM
Fluorene	0.0000393	0.0000291	0.0000582	J	mg/L	1	02/08/17 02:18 PM
Indeno[1,2,3-cd]pyrene	<0.0000291	0.0000291	0.0000582		mg/L	1	02/08/17 02:18 PM
Naphthalene	<0.0000291	0.0000291	0.0000582		mg/L	1	02/08/17 02:18 PM
Phenanthrene	<0.0000291	0.0000291	0.0000582		mg/L	1	02/08/17 02:18 PM
Pyrene	<0.0000291	0.0000291	0.0000582		mg/L	1	02/08/17 02:18 PM
Surr: 2-Fluorobiphenyl	60.3	0	48-120		%REC	1	02/08/17 02:18 PM
Surr: 4-Terphenyl-d14	69.1	0	51-135		%REC	1	02/08/17 02:18 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW12-010
Project:	GLO/City of Galveston	**Lab ID:**	1702034-06
Project No:	60420789.3301	**Collection Date:**	02/01/17 05:10 PM
Lab Order:	1702034	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	02/07/17 12:39 PM
Arsenic	0.00284	0.00200	0.00500	J	mg/L	1	02/07/17 12:39 PM
Barium	0.101	0.00300	0.0100		mg/L	1	02/07/17 12:39 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 12:39 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 12:39 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:39 PM
Lead	0.000923	0.000300	0.00100	J	mg/L	1	02/07/17 12:39 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	02/07/17 12:39 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:39 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	02/07/17 12:39 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **RO**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	02/13/17 11:51 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0000304	0.0000304	0.0000608		mg/L	1	02/07/17 09:34 PM
Acenaphthylene	<0.0000304	0.0000304	0.0000608		mg/L	1	02/07/17 09:34 PM
Anthracene	<0.0000304	0.0000304	0.0000608		mg/L	1	02/07/17 09:34 PM
Benzo[a]anthracene	<0.0000304	0.0000304	0.0000608		mg/L	1	02/07/17 09:34 PM
Benzo[a]pyrene	<0.0000304	0.0000304	0.0000608		mg/L	1	02/07/17 09:34 PM
Benzo[b]fluoranthene	<0.0000304	0.0000304	0.0000608		mg/L	1	02/07/17 09:34 PM
Benzo[g,h,i]perylene	<0.0000304	0.0000304	0.0000608		mg/L	1	02/07/17 09:34 PM
Benzo[k]fluoranthene	<0.0000304	0.0000304	0.0000608		mg/L	1	02/07/17 09:34 PM
Chrysene	<0.0000304	0.0000304	0.0000608		mg/L	1	02/07/17 09:34 PM
Dibenz[a,h]anthracene	<0.0000304	0.0000304	0.0000608		mg/L	1	02/07/17 09:34 PM
Fluoranthene	<0.0000304	0.0000304	0.0000608		mg/L	1	02/07/17 09:34 PM
Fluorene	<0.0000304	0.0000304	0.0000608		mg/L	1	02/07/17 09:34 PM
Indeno[1,2,3-cd]pyrene	<0.0000304	0.0000304	0.0000608		mg/L	1	02/07/17 09:34 PM
Naphthalene	<0.0000304	0.0000304	0.0000608		mg/L	1	02/07/17 09:34 PM
Phenanthrene	<0.0000304	0.0000304	0.0000608		mg/L	1	02/07/17 09:34 PM
Pyrene	<0.0000304	0.0000304	0.0000608		mg/L	1	02/07/17 09:34 PM
Surr: 2-Fluorobiphenyl	45.5	0	48-120	S	%REC	1	02/07/17 09:34 PM
Surr: 4-Terphenyl-d14	55.7	0	51-135		%REC	1	02/07/17 09:34 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW11-010
Project:	GLO/City of Galveston	**Lab ID:**	1702034-07
Project No:	60420789.3301	**Collection Date:**	02/02/17 09:25 AM
Lab Order:	1702034	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	02/07/17 12:41 PM
Arsenic	0.00903	0.00200	0.00500		mg/L	1	02/07/17 12:41 PM
Barium	0.0863	0.00300	0.0100		mg/L	1	02/07/17 12:41 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 12:41 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 12:41 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:41 PM
Lead	0.000787	0.000300	0.00100	J	mg/L	1	02/07/17 12:41 PM
Nickel	0.00479	0.00300	0.0100	J	mg/L	1	02/07/17 12:41 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:41 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	02/07/17 12:41 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **RO**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	02/13/17 11:54 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0000260	0.0000260	0.0000520		mg/L	1	02/07/17 10:04 PM
Acenaphthylene	<0.0000260	0.0000260	0.0000520		mg/L	1	02/07/17 10:04 PM
Anthracene	<0.0000260	0.0000260	0.0000520		mg/L	1	02/07/17 10:04 PM
Benzo[a]anthracene	<0.0000260	0.0000260	0.0000520		mg/L	1	02/07/17 10:04 PM
Benzo[a]pyrene	<0.0000260	0.0000260	0.0000520		mg/L	1	02/07/17 10:04 PM
Benzo[b]fluoranthene	<0.0000260	0.0000260	0.0000520		mg/L	1	02/07/17 10:04 PM
Benzo[g,h,i]perylene	<0.0000260	0.0000260	0.0000520		mg/L	1	02/07/17 10:04 PM
Benzo[k]fluoranthene	<0.0000260	0.0000260	0.0000520		mg/L	1	02/07/17 10:04 PM
Chrysene	<0.0000260	0.0000260	0.0000520		mg/L	1	02/07/17 10:04 PM
Dibenz[a,h]anthracene	<0.0000260	0.0000260	0.0000520		mg/L	1	02/07/17 10:04 PM
Fluoranthene	<0.0000260	0.0000260	0.0000520		mg/L	1	02/07/17 10:04 PM
Fluorene	<0.0000260	0.0000260	0.0000520		mg/L	1	02/07/17 10:04 PM
Indeno[1,2,3-cd]pyrene	<0.0000260	0.0000260	0.0000520		mg/L	1	02/07/17 10:04 PM
Naphthalene	<0.0000260	0.0000260	0.0000520		mg/L	1	02/07/17 10:04 PM
Phenanthrene	<0.0000260	0.0000260	0.0000520		mg/L	1	02/07/17 10:04 PM
Pyrene	<0.0000260	0.0000260	0.0000520		mg/L	1	02/07/17 10:04 PM
Surr: 2-Fluorobiphenyl	50.2	0	48-120		%REC	1	02/07/17 10:04 PM
Surr: 4-Terphenyl-d14	57.4	0	51-135		%REC	1	02/07/17 10:04 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW11-011
Project:	GLO/City of Galveston	**Lab ID:**	1702034-08
Project No:	60420789.3301	**Collection Date:**	02/02/17 09:25 AM
Lab Order:	1702034	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	02/07/17 12:43 PM
Arsenic	0.00930	0.00200	0.00500		mg/L	1	02/07/17 12:43 PM
Barium	0.0871	0.00300	0.0100		mg/L	1	02/07/17 12:43 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 12:43 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 12:43 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:43 PM
Lead	0.00113	0.000300	0.00100		mg/L	1	02/07/17 12:43 PM
Nickel	0.00473	0.00300	0.0100	J	mg/L	1	02/07/17 12:43 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:43 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	02/07/17 12:43 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **RO**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	02/13/17 11:56 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0000260	0.0000260	0.0000521		mg/L	1	02/07/17 10:34 PM
Acenaphthylene	<0.0000260	0.0000260	0.0000521		mg/L	1	02/07/17 10:34 PM
Anthracene	<0.0000260	0.0000260	0.0000521		mg/L	1	02/07/17 10:34 PM
Benzo[a]anthracene	<0.0000260	0.0000260	0.0000521		mg/L	1	02/07/17 10:34 PM
Benzo[a]pyrene	<0.0000260	0.0000260	0.0000521		mg/L	1	02/07/17 10:34 PM
Benzo[b]fluoranthene	<0.0000260	0.0000260	0.0000521		mg/L	1	02/07/17 10:34 PM
Benzo[g,h,i]perylene	<0.0000260	0.0000260	0.0000521		mg/L	1	02/07/17 10:34 PM
Benzo[k]fluoranthene	<0.0000260	0.0000260	0.0000521		mg/L	1	02/07/17 10:34 PM
Chrysene	<0.0000260	0.0000260	0.0000521		mg/L	1	02/07/17 10:34 PM
Dibenz[a,h]anthracene	<0.0000260	0.0000260	0.0000521		mg/L	1	02/07/17 10:34 PM
Fluoranthene	<0.0000260	0.0000260	0.0000521		mg/L	1	02/07/17 10:34 PM
Fluorene	<0.0000260	0.0000260	0.0000521		mg/L	1	02/07/17 10:34 PM
Indeno[1,2,3-cd]pyrene	<0.0000260	0.0000260	0.0000521		mg/L	1	02/07/17 10:34 PM
Naphthalene	<0.0000260	0.0000260	0.0000521		mg/L	1	02/07/17 10:34 PM
Phenanthrene	<0.0000260	0.0000260	0.0000521		mg/L	1	02/07/17 10:34 PM
Pyrene	<0.0000260	0.0000260	0.0000521		mg/L	1	02/07/17 10:34 PM
Surr: 2-Fluorobiphenyl	42.2	0	48-120	S	%REC	1	02/07/17 10:34 PM
Surr: 4-Terphenyl-d14	51.8	0	51-135		%REC	1	02/07/17 10:34 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW01-010
Project:	GLO/City of Galveston	**Lab ID:**	1702034-09
Project No:	60420789.3301	**Collection Date:**	02/02/17 10:35 AM
Lab Order:	1702034	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	02/07/17 01:22 PM
Arsenic	0.00309	0.00200	0.00500	J	mg/L	1	02/07/17 01:22 PM
Barium	0.0372	0.00300	0.0100		mg/L	1	02/07/17 01:22 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 01:22 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 01:22 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 01:22 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 01:22 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	02/07/17 01:22 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 01:22 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	02/07/17 01:22 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **RO**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	02/13/17 11:58 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 11:04 PM
Acenaphthylene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 11:04 PM
Anthracene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 11:04 PM
Benzo[a]anthracene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 11:04 PM
Benzo[a]pyrene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 11:04 PM
Benzo[b]fluoranthene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 11:04 PM
Benzo[g,h,i]perylene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 11:04 PM
Benzo[k]fluoranthene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 11:04 PM
Chrysene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 11:04 PM
Dibenz[a,h]anthracene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 11:04 PM
Fluoranthene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 11:04 PM
Fluorene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 11:04 PM
Indeno[1,2,3-cd]pyrene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 11:04 PM
Naphthalene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 11:04 PM
Phenanthrene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 11:04 PM
Pyrene	<0.0000298	0.0000298	0.0000596		mg/L	1	02/07/17 11:04 PM
Surr: 2-Fluorobiphenyl	45.3	0	48-120	S	%REC	1	02/07/17 11:04 PM
Surr: 4-Terphenyl-d14	52.9	0	51-135		%REC	1	02/07/17 11:04 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW05-010
Project:	GLO/City of Galveston	**Lab ID:**	1702034-10
Project No:	60420789.3301	**Collection Date:**	02/02/17 11:55 AM
Lab Order:	1702034	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	02/07/17 01:24 PM
Arsenic	0.00339	0.00200	0.00500	J	mg/L	1	02/07/17 01:24 PM
Barium	0.273	0.00300	0.0100		mg/L	1	02/07/17 01:24 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 01:24 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 01:24 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 01:24 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 01:24 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	02/07/17 01:24 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 01:24 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	02/07/17 01:24 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **RO**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	02/13/17 12:05 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.178	0.00152	0.00303		mg/L	50	02/08/17 05:55 PM
Acenaphthylene	<0.0000303	0.0000303	0.0000607		mg/L	1	02/07/17 11:34 PM
Anthracene	0.00396	0.0000303	0.0000607		mg/L	1	02/07/17 11:34 PM
Benzo[a]anthracene	<0.0000303	0.0000303	0.0000607		mg/L	1	02/07/17 11:34 PM
Benzo[a]pyrene	<0.0000303	0.0000303	0.0000607		mg/L	1	02/07/17 11:34 PM
Benzo[b]fluoranthene	<0.0000303	0.0000303	0.0000607		mg/L	1	02/07/17 11:34 PM
Benzo[g,h,i]perylene	<0.0000303	0.0000303	0.0000607		mg/L	1	02/07/17 11:34 PM
Benzo[k]fluoranthene	<0.0000303	0.0000303	0.0000607		mg/L	1	02/07/17 11:34 PM
Chrysene	<0.0000303	0.0000303	0.0000607		mg/L	1	02/07/17 11:34 PM
Dibenz[a,h]anthracene	<0.0000303	0.0000303	0.0000607		mg/L	1	02/07/17 11:34 PM
Fluoranthene	0.00475	0.0000303	0.0000607		mg/L	1	02/07/17 11:34 PM
Fluorene	0.0685	0.000303	0.000607		mg/L	10	02/08/17 05:25 PM
Indeno[1,2,3-cd]pyrene	<0.0000303	0.0000303	0.0000607		mg/L	1	02/07/17 11:34 PM
Naphthalene	0.00150	0.0000303	0.0000607		mg/L	1	02/07/17 11:34 PM
Phenanthrene	0.0472	0.000303	0.000607		mg/L	10	02/08/17 05:25 PM
Pyrene	0.00190	0.0000303	0.0000607		mg/L	1	02/07/17 11:34 PM
Surr: 2-Fluorobiphenyl	44.9	0	48-120	S	%REC	1	02/07/17 11:34 PM
Surr: 2-Fluorobiphenyl	47.8	0	48-120		%REC	10	02/08/17 05:25 PM
Surr: 2-Fluorobiphenyl	50.3	0	48-120		%REC	50	02/08/17 05:55 PM
Surr: 4-Terphenyl-d14	56.9	0	51-135		%REC	10	02/08/17 05:25 PM
Surr: 4-Terphenyl-d14	52.3	0	51-135		%REC	1	02/07/17 11:34 PM
Surr: 4-Terphenyl-d14	46.6	0	51-135	S	%REC	50	02/08/17 05:55 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW07-010
Project:	GLO/City of Galveston	**Lab ID:**	1702034-11
Project No:	60420789.3301	**Collection Date:**	02/02/17 12:40 PM
Lab Order:	1702034	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	02/07/17 01:26 PM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 01:26 PM
Barium	0.0887	0.00300	0.0100		mg/L	1	02/07/17 01:26 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 01:26 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 01:26 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 01:26 PM
Lead	0.0392	0.000300	0.00100		mg/L	1	02/07/17 01:26 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	02/07/17 01:26 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 01:26 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	02/07/17 01:26 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **RO**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	02/13/17 12:07 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0000267	0.0000267	0.0000535		mg/L	1	02/08/17 02:47 PM
Acenaphthylene	<0.0000267	0.0000267	0.0000535		mg/L	1	02/08/17 02:47 PM
Anthracene	<0.0000267	0.0000267	0.0000535		mg/L	1	02/08/17 02:47 PM
Benzo[a]anthracene	<0.0000267	0.0000267	0.0000535		mg/L	1	02/08/17 02:47 PM
Benzo[a]pyrene	<0.0000267	0.0000267	0.0000535		mg/L	1	02/08/17 02:47 PM
Benzo[b]fluoranthene	<0.0000267	0.0000267	0.0000535		mg/L	1	02/08/17 02:47 PM
Benzo[g,h,i]perylene	<0.0000267	0.0000267	0.0000535		mg/L	1	02/08/17 02:47 PM
Benzo[k]fluoranthene	<0.0000267	0.0000267	0.0000535		mg/L	1	02/08/17 02:47 PM
Chrysene	<0.0000267	0.0000267	0.0000535		mg/L	1	02/08/17 02:47 PM
Dibenz[a,h]anthracene	<0.0000267	0.0000267	0.0000535		mg/L	1	02/08/17 02:47 PM
Fluoranthene	<0.0000267	0.0000267	0.0000535		mg/L	1	02/08/17 02:47 PM
Fluorene	<0.0000267	0.0000267	0.0000535		mg/L	1	02/08/17 02:47 PM
Indeno[1,2,3-cd]pyrene	<0.0000267	0.0000267	0.0000535		mg/L	1	02/08/17 02:47 PM
Naphthalene	<0.0000267	0.0000267	0.0000535		mg/L	1	02/08/17 02:47 PM
Phenanthrene	<0.0000267	0.0000267	0.0000535		mg/L	1	02/08/17 02:47 PM
Pyrene	<0.0000267	0.0000267	0.0000535		mg/L	1	02/08/17 02:47 PM
Surr: 2-Fluorobiphenyl	61.9	0	48-120		%REC	1	02/08/17 02:47 PM
Surr: 4-Terphenyl-d14	71.5	0	51-135		%REC	1	02/08/17 02:47 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW06-010
Project:	GLO/City of Galveston	**Lab ID:**	1702034-12
Project No:	60420789.3301	**Collection Date:**	02/02/17 02:10 PM
Lab Order:	1702034	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	0.00117	0.000800	0.00250	J	mg/L	1	02/07/17 01:28 PM
Arsenic	0.00250	0.00200	0.00500	J	mg/L	1	02/07/17 01:28 PM
Barium	0.0844	0.00300	0.0100		mg/L	1	02/07/17 01:28 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 01:28 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 01:28 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 01:28 PM
Lead	0.000531	0.000300	0.00100	J	mg/L	1	02/07/17 01:28 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	02/07/17 01:28 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 01:28 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	02/07/17 01:28 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **RO**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	02/13/17 12:10 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	<0.0000292	0.0000292	0.0000584		mg/L	1	02/08/17 12:33 AM
Acenaphthylene	<0.0000292	0.0000292	0.0000584		mg/L	1	02/08/17 12:33 AM
Anthracene	<0.0000292	0.0000292	0.0000584		mg/L	1	02/08/17 12:33 AM
Benzo[a]anthracene	<0.0000292	0.0000292	0.0000584		mg/L	1	02/08/17 12:33 AM
Benzo[a]pyrene	<0.0000292	0.0000292	0.0000584		mg/L	1	02/08/17 12:33 AM
Benzo[b]fluoranthene	<0.0000292	0.0000292	0.0000584		mg/L	1	02/08/17 12:33 AM
Benzo[g,h,i]perylene	<0.0000292	0.0000292	0.0000584		mg/L	1	02/08/17 12:33 AM
Benzo[k]fluoranthene	<0.0000292	0.0000292	0.0000584		mg/L	1	02/08/17 12:33 AM
Chrysene	<0.0000292	0.0000292	0.0000584		mg/L	1	02/08/17 12:33 AM
Dibenz[a,h]anthracene	<0.0000292	0.0000292	0.0000584		mg/L	1	02/08/17 12:33 AM
Fluoranthene	<0.0000292	0.0000292	0.0000584		mg/L	1	02/08/17 12:33 AM
Fluorene	<0.0000292	0.0000292	0.0000584		mg/L	1	02/08/17 12:33 AM
Indeno[1,2,3-cd]pyrene	<0.0000292	0.0000292	0.0000584		mg/L	1	02/08/17 12:33 AM
Naphthalene	<0.0000292	0.0000292	0.0000584		mg/L	1	02/08/17 12:33 AM
Phenanthrene	<0.0000292	0.0000292	0.0000584		mg/L	1	02/08/17 12:33 AM
Pyrene	<0.0000292	0.0000292	0.0000584		mg/L	1	02/08/17 12:33 AM
Surr: 2-Fluorobiphenyl	49.3	0	48-120		%REC	1	02/08/17 12:33 AM
Surr: 4-Terphenyl-d14	56.5	0	51-135		%REC	1	02/08/17 12:33 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW10-013
Project:	GLO/City of Galveston	**Lab ID:**	1702034-13
Project No:	60420789.3301	**Collection Date:**	02/02/17 03:10 PM
Lab Order:	1702034	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	02/07/17 12:25 PM
Arsenic	0.00406	0.00200	0.00500	J	mg/L	1	02/07/17 12:25 PM
Barium	0.153	0.00300	0.0100		mg/L	1	02/07/17 12:25 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 12:25 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	02/07/17 12:25 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:25 PM
Lead	0.00410	0.000300	0.00100		mg/L	1	02/07/17 12:25 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	02/07/17 12:25 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	02/07/17 12:25 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	02/07/17 12:25 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **RO**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	02/13/17 11:28 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DEW**
Acenaphthene	0.000578	0.0000262	0.0000524		mg/L	1	02/08/17 03:17 PM
Acenaphthylene	<0.0000262	0.0000262	0.0000524		mg/L	1	02/08/17 03:17 PM
Anthracene	0.000141	0.0000262	0.0000524		mg/L	1	02/08/17 03:17 PM
Benzo[a]anthracene	<0.0000262	0.0000262	0.0000524		mg/L	1	02/08/17 03:17 PM
Benzo[a]pyrene	<0.0000262	0.0000262	0.0000524		mg/L	1	02/08/17 03:17 PM
Benzo[b]fluoranthene	<0.0000262	0.0000262	0.0000524		mg/L	1	02/08/17 03:17 PM
Benzo[g,h,i]perylene	<0.0000262	0.0000262	0.0000524		mg/L	1	02/08/17 03:17 PM
Benzo[k]fluoranthene	<0.0000262	0.0000262	0.0000524		mg/L	1	02/08/17 03:17 PM
Chrysene	<0.0000262	0.0000262	0.0000524		mg/L	1	02/08/17 03:17 PM
Dibenz[a,h]anthracene	<0.0000262	0.0000262	0.0000524		mg/L	1	02/08/17 03:17 PM
Fluoranthene	0.000261	0.0000262	0.0000524		mg/L	1	02/08/17 03:17 PM
Fluorene	0.000941	0.0000262	0.0000524		mg/L	1	02/08/17 03:17 PM
Indeno[1,2,3-cd]pyrene	<0.0000262	0.0000262	0.0000524		mg/L	1	02/08/17 03:17 PM
Naphthalene	0.0000428	0.0000262	0.0000524	J	mg/L	1	02/08/17 03:17 PM
Phenanthrene	0.000675	0.0000262	0.0000524		mg/L	1	02/08/17 03:17 PM
Pyrene	0.000191	0.0000262	0.0000524		mg/L	1	02/08/17 03:17 PM
Surr: 2-Fluorobiphenyl	68.0	0	48-120		%REC	1	02/08/17 03:17 PM
Surr: 4-Terphenyl-d14	74.8	0	51-135		%REC	1	02/08/17 03:17 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT: AECOM
Work Order: 1702034
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170119A

Sample ID	**DCS-78789**	Batch ID:	**78789**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**CETAC2_HG_170119A**	Analysis Date:	**1/19/2017 11:50:30 AM**	Prep Date:	**1/18/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.000191	0.000200	0.000200	0	95.5	82	119	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702034
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170213B**

The QC data in batch 79141 applies to the following samples: 1702034-01A, 1702034-02A, 1702034-03A, 1702034-04A, 1702034-05A, 1702034-06A, 1702034-07A, 1702034-08A, 1702034-09A, 1702034-10A, 1702034-11A, 1702034-12A, 1702034-13A

Sample ID **MB-79141** Batch ID: **79141** TestNo: **SW7470A** Units: **mg/L**
SampType: **MBLK** Run ID: **CETAC2_HG_170213** Analysis Date: **2/13/2017 11:22:10 AM** Prep Date: **2/10/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0000800	0.000200								

Sample ID **LCS-79141** Batch ID: **79141** TestNo: **SW7470A** Units: **mg/L**
SampType: **LCS** Run ID: **CETAC2_HG_170213** Analysis Date: **2/13/2017 11:24:26 AM** Prep Date: **2/10/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00210	0.000200	0.00200	0	105	85	115			

Sample ID **LCSD-79141** Batch ID: **79141** TestNo: **SW7470A** Units: **mg/L**
SampType: **LCSD** Run ID: **CETAC2_HG_170213** Analysis Date: **2/13/2017 11:26:42 AM** Prep Date: **2/10/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00203	0.000200	0.00200	0	102	85	115	3.39	15	

Sample ID **1702034-13A SD** Batch ID: **79141** TestNo: **SW7470A** Units: **mg/L**
SampType: **SD** Run ID: **CETAC2_HG_170213** Analysis Date: **2/13/2017 11:31:15 AM** Prep Date: **2/10/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.000400	0.00100	0	0				0	10	

Sample ID **1702034-13A PDS** Batch ID: **79141** TestNo: **SW7470A** Units: **mg/L**
SampType: **PDS** Run ID: **CETAC2_HG_170213** Analysis Date: **2/13/2017 11:33:31 AM** Prep Date: **2/10/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00215	0.000200	0.00250	0	86.0	85	115			

Sample ID **1702034-13A MS** Batch ID: **79141** TestNo: **SW7470A** Units: **mg/L**
SampType: **MS** Run ID: **CETAC2_HG_170213** Analysis Date: **2/13/2017 11:35:48 AM** Prep Date: **2/10/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00191	0.000200	0.00200	0	95.5	80	120			

Sample ID **1702034-13A MSD** Batch ID: **79141** TestNo: **SW7470A** Units: **mg/L**
SampType: **MSD** Run ID: **CETAC2_HG_170213** Analysis Date: **2/13/2017 11:38:04 AM** Prep Date: **2/10/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00189	0.000200	0.00200	0	94.5	80	120	1.05	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702034
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170213B**

Sample ID	**ICV-170213**	Batch ID:	**R90464**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**CETAC2_HG_170213**	Analysis Date:	**2/13/2017 10:14:23 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00405	0.000200	0.00400	0	101	90	110			

Sample ID	**CCV2-170213**	Batch ID:	**R90464**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170213**	Analysis Date:	**2/13/2017 11:17:35 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00201	0.000200	0.00200	0	101	90	110			

Sample ID	**CCV3-170213**	Batch ID:	**R90464**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170213**	Analysis Date:	**2/13/2017 12:00:53 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00200	0.000200	0.00200	0	100	90	110			

Sample ID	**CCV4-170213**	Batch ID:	**R90464**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170213**	Analysis Date:	**2/13/2017 12:26:05 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00200	0.000200	0.00200	0	100	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702034
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170202B**

Sample ID	**DCS1-78981**	Batch ID:	**78981**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**ICP-MS5_170202B**	Analysis Date:	**2/2/2017 2:53:00 PM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.000945	0.00250	0.00100	0	94.5	80	120	0	0	
Beryllium	0.000555	0.00100	0.000500	0	111	80	120	0	0	
Cadmium	0.000525	0.00100	0.000500	0	105	80	120	0	0	
Lead	0.000483	0.00100	0.000500	0	96.6	80	120	0	0	

Sample ID	**DCS2-78981**	Batch ID:	**78981**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**DCS2**	Run ID:	**ICP-MS5_170202B**	Analysis Date:	**2/2/2017 2:55:00 PM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.00206	0.00500	0.00200	0	103	80	120	0	0	
Silver	0.00194	0.00200	0.00200	0	97.2	80	120	0	0	

Sample ID	**DCS3-78981**	Batch ID:	**78981**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**DCS3**	Run ID:	**ICP-MS5_170202B**	Analysis Date:	**2/2/2017 2:57:00 PM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00532	0.00500	0.00500	0	106	80	120	0	0	
Barium	0.00542	0.0100	0.00500	0	108	80	120	0	0	
Nickel	0.00594	0.0100	0.00500	0	119	80	120	0	0	
Selenium	0.00540	0.00500	0.00500	0	108	80	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702034
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170207A**

The QC data in batch 79042 applies to the following samples: 1702034-01A, 1702034-02A, 1702034-03A, 1702034-04A, 1702034-05A, 1702034-06A, 1702034-07A, 1702034-08A, 1702034-09A, 1702034-10A, 1702034-11A, 1702034-12A, 1702034-13A

Sample ID **MB-79042** Batch ID: **79042** TestNo: **SW6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS5_170207A** Analysis Date: **2/7/2017 12:20:00 PM** Prep Date: **2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.000800	0.00250								
Arsenic	<0.00200	0.00500								
Barium	<0.00300	0.0100								
Beryllium	<0.000300	0.00100								
Cadmium	<0.000300	0.00100								
Chromium	<0.00200	0.00500								
Lead	<0.000300	0.00100								
Nickel	<0.00300	0.0100								
Selenium	<0.00200	0.00500								
Silver	<0.00100	0.00200								

Sample ID **LCS-79042** Batch ID: **79042** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS5_170207A** Analysis Date: **2/7/2017 12:21:00 PM** Prep Date: **2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.202	0.00250	0.200	0	101	80	120			
Arsenic	0.207	0.00500	0.200	0	103	80	120			
Barium	0.207	0.0100	0.200	0	104	80	120			
Beryllium	0.204	0.00100	0.200	0	102	80	120			
Cadmium	0.208	0.00100	0.200	0	104	80	120			
Chromium	0.208	0.00500	0.200	0	104	80	120			
Lead	0.205	0.00100	0.200	0	103	80	120			
Nickel	0.210	0.0100	0.200	0	105	80	120			
Selenium	0.205	0.00500	0.200	0	103	80	120			
Silver	0.202	0.00200	0.200	0	101	80	120			

Sample ID **LCSD-79042** Batch ID: **79042** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS5_170207A** Analysis Date: **2/7/2017 12:23:00 PM** Prep Date: **2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.203	0.00250	0.200	0	101	80	120	0.254	15	
Arsenic	0.208	0.00500	0.200	0	104	80	120	0.531	15	
Barium	0.207	0.0100	0.200	0	103	80	120	0.249	15	
Beryllium	0.206	0.00100	0.200	0	103	80	120	0.770	15	
Cadmium	0.210	0.00100	0.200	0	105	80	120	0.792	15	
Chromium	0.209	0.00500	0.200	0	104	80	120	0.251	15	
Lead	0.205	0.00100	0.200	0	103	80	120	0.096	15	
Nickel	0.212	0.0100	0.200	0	106	80	120	0.734	15	
Selenium	0.206	0.00500	0.200	0	103	80	120	0.339	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702034
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170207A**

Sample ID	**LCSD-79042**	Batch ID:	**79042**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 12:23:00 PM**	Prep Date:	**2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.205	0.00200	0.200	0	103	80	120	1.38	15	

Sample ID	**1702034-13A SD**	Batch ID:	**79042**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**SD**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 12:27:00 PM**	Prep Date:	**2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.00400	0.0125	0	0				0	10	
Arsenic	<0.0100	0.0250	0	0.00406				0	10	
Barium	0.155	0.0500	0	0.153				0.938	10	
Beryllium	<0.00150	0.00500	0	0				0	10	
Cadmium	<0.00150	0.00500	0	0				0	10	
Chromium	<0.0100	0.0250	0	0				0	10	
Lead	0.00410	0.00500	0	0.00410				0.097	10	
Nickel	<0.0150	0.0500	0	0				0	10	
Selenium	<0.0100	0.0250	0	0				0	10	
Silver	<0.00500	0.0100	0	0				0	10	

Sample ID	**1702034-13A PDS**	Batch ID:	**79042**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**PDS**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 12:44:00 PM**	Prep Date:	**2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.187	0.00250	0.200	0	93.7	80	120			
Arsenic	0.199	0.00500	0.200	0.00406	97.3	80	120			
Barium	0.329	0.0100	0.200	0.153	87.8	80	120			
Beryllium	0.167	0.00100	0.200	0	83.3	80	120			
Cadmium	0.179	0.00100	0.200	0	89.4	80	120			
Chromium	0.186	0.00500	0.200	0	93.1	80	120			
Lead	0.198	0.00100	0.200	0.00410	97.1	80	120			
Nickel	0.180	0.0100	0.200	0	90.2	80	120			
Selenium	0.194	0.00500	0.200	0	97.2	80	120			
Silver	0.167	0.00200	0.200	0	83.7	80	120			

Sample ID	**1702034-13A MS**	Batch ID:	**79042**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 12:46:00 PM**	Prep Date:	**2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.194	0.00250	0.200	0	97.1	80	120			
Arsenic	0.206	0.00500	0.200	0.00406	101	80	120			
Barium	0.343	0.0100	0.200	0.153	94.9	80	120			
Beryllium	0.168	0.00100	0.200	0	84.2	80	120			
Cadmium	0.184	0.00100	0.200	0	91.8	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702034
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170207A**

Sample ID	**1702034-13A MS**	Batch ID:	**79042**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 12:46:00 PM**	Prep Date:	**2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.189	0.00500	0.200	0	94.3	80	120			
Lead	0.205	0.00100	0.200	0.00410	100	80	120			
Nickel	0.187	0.0100	0.200	0	93.7	80	120			
Selenium	0.206	0.00500	0.200	0	103	80	120			
Silver	0.172	0.00200	0.200	0	86.2	80	120			

Sample ID	**1702034-13A MSD**	Batch ID:	**79042**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 12:48:00 PM**	Prep Date:	**2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.195	0.00250	0.200	0	97.4	80	120	0.313	15	
Arsenic	0.203	0.00500	0.200	0.00406	99.6	80	120	1.49	15	
Barium	0.341	0.0100	0.200	0.153	94.1	80	120	0.479	15	
Beryllium	0.168	0.00100	0.200	0	83.8	80	120	0.464	15	
Cadmium	0.186	0.00100	0.200	0	92.8	80	120	1.05	15	
Chromium	0.188	0.00500	0.200	0	93.8	80	120	0.466	15	
Lead	0.203	0.00100	0.200	0.00410	99.5	80	120	0.769	15	
Nickel	0.186	0.0100	0.200	0	92.8	80	120	0.940	15	
Selenium	0.203	0.00500	0.200	0	101	80	120	1.42	15	
Silver	0.173	0.00200	0.200	0	86.5	80	120	0.390	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702034
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170207A**

Sample ID	**ICV-170207**	Batch ID:	**R90363**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 9:59:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.0985	0.00250	0.100	0	98.5	90	110			
Arsenic	0.102	0.00500	0.100	0	102	90	110			
Barium	0.100	0.0100	0.100	0	100	90	110			
Beryllium	0.0952	0.00100	0.100	0	95.2	90	110			
Cadmium	0.101	0.00100	0.100	0	101	90	110			
Chromium	0.102	0.00500	0.100	0	102	90	110			
Lead	0.0986	0.00100	0.100	0	98.6	90	110			
Nickel	0.103	0.0100	0.100	0	103	90	110			
Selenium	0.100	0.00500	0.100	0	100	90	110			
Silver	0.0990	0.00200	0.100	0	99.0	90	110			

Sample ID	**LCVL-170207**	Batch ID:	**R90363**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 10:02:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00193	0.00250	0.00200	0	96.4	70	130			
Arsenic	0.00504	0.00500	0.00500	0	101	70	130			
Barium	0.00494	0.0100	0.00500	0	98.7	70	130			
Beryllium	0.000950	0.00100	0.00100	0	95.0	70	130			
Cadmium	0.00104	0.00100	0.00100	0	104	70	130			
Chromium	0.00510	0.00500	0.00500	0	102	70	130			
Lead	0.00107	0.00100	0.00100	0	107	70	130			
Nickel	0.00523	0.0100	0.00500	0	105	70	130			
Selenium	0.00505	0.00500	0.00500	0	101	70	130			
Silver	0.00198	0.00200	0.00200	0	99.1	70	130			

Sample ID	**CCV4-170207**	Batch ID:	**R90363**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 12:12:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.196	0.00250	0.200	0	98.0	90	110			
Arsenic	0.200	0.00500	0.200	0	100	90	110			
Barium	0.199	0.0100	0.200	0	99.7	90	110			
Beryllium	0.204	0.00100	0.200	0	102	90	110			
Cadmium	0.203	0.00100	0.200	0	102	90	110			
Chromium	0.203	0.00500	0.200	0	101	90	110			
Lead	0.200	0.00100	0.200	0	100	90	110			
Nickel	0.206	0.0100	0.200	0	103	90	110			
Selenium	0.199	0.00500	0.200	0	99.5	90	110			
Silver	0.198	0.00200	0.200	0	98.9	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702034
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170207A**

Sample ID **LCVL4-170207** Batch ID: **R90363** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS5_170207A** Analysis Date: **2/7/2017 12:16:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00199	0.00250	0.00200	0	99.2	70	130			
Arsenic	0.00502	0.00500	0.00500	0	100	70	130			
Barium	0.00493	0.0100	0.00500	0	98.5	70	130			
Beryllium	0.000955	0.00100	0.00100	0	95.5	70	130			
Cadmium	0.00101	0.00100	0.00100	0	101	70	130			
Chromium	0.00526	0.00500	0.00500	0	105	70	130			
Lead	0.00102	0.00100	0.00100	0	102	70	130			
Nickel	0.00514	0.0100	0.00500	0	103	70	130			
Selenium	0.00502	0.00500	0.00500	0	100	70	130			
Silver	0.00199	0.00200	0.00200	0	99.4	70	130			

Sample ID **CCV5-170207** Batch ID: **R90363** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS5_170207A** Analysis Date: **2/7/2017 12:52:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.187	0.00250	0.200	0	93.5	90	110			
Arsenic	0.198	0.00500	0.200	0	99.2	90	110			
Barium	0.190	0.0100	0.200	0	95.0	90	110			
Beryllium	0.184	0.00100	0.200	0	92.0	90	110			
Cadmium	0.190	0.00100	0.200	0	95.0	90	110			
Chromium	0.193	0.00500	0.200	0	96.3	90	110			
Lead	0.194	0.00100	0.200	0	96.9	90	110			
Nickel	0.200	0.0100	0.200	0	100	90	110			
Selenium	0.203	0.00500	0.200	0	101	90	110			
Silver	0.182	0.00200	0.200	0	91.0	90	110			

Sample ID **LCVL5-170207** Batch ID: **R90363** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS5_170207A** Analysis Date: **2/7/2017 1:21:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00190	0.00250	0.00200	0	95.2	70	130			
Arsenic	0.00515	0.00500	0.00500	0	103	70	130			
Barium	0.00514	0.0100	0.00500	0	103	70	130			
Beryllium	0.00126	0.00100	0.00100	0	126	70	130			
Cadmium	0.000994	0.00100	0.00100	0	99.4	70	130			
Chromium	0.00510	0.00500	0.00500	0	102	70	130			
Lead	0.000957	0.00100	0.00100	0	95.7	70	130			
Nickel	0.00489	0.0100	0.00500	0	97.8	70	130			
Selenium	0.00503	0.00500	0.00500	0	101	70	130			
Silver	0.00185	0.00200	0.00200	0	92.7	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702034
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170207A**

Sample ID	**CCV6-170207**	Batch ID:	**R90363**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 1:40:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.191	0.00250	0.200	0	95.7	90	110			
Arsenic	0.197	0.00500	0.200	0	98.5	90	110			
Barium	0.197	0.0100	0.200	0	98.4	90	110			
Beryllium	0.197	0.00100	0.200	0	98.5	90	110			
Cadmium	0.195	0.00100	0.200	0	97.5	90	110			
Chromium	0.200	0.00500	0.200	0	100	90	110			
Lead	0.196	0.00100	0.200	0	98.2	90	110			
Nickel	0.202	0.0100	0.200	0	101	90	110			
Selenium	0.198	0.00500	0.200	0	98.9	90	110			
Silver	0.189	0.00200	0.200	0	94.3	90	110			

Sample ID	**LCVL6-170207**	Batch ID:	**R90363**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 2:01:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00188	0.00250	0.00200	0	94.0	70	130			
Arsenic	0.00506	0.00500	0.00500	0	101	70	130			
Barium	0.00484	0.0100	0.00500	0	96.8	70	130			
Beryllium	0.000992	0.00100	0.00100	0	99.2	70	130			
Cadmium	0.000957	0.00100	0.00100	0	95.7	70	130			
Chromium	0.00518	0.00500	0.00500	0	104	70	130			
Lead	0.000953	0.00100	0.00100	0	95.3	70	130			
Nickel	0.00478	0.0100	0.00500	0	95.6	70	130			
Selenium	0.00469	0.00500	0.00500	0	93.8	70	130			
Silver	0.00186	0.00200	0.00200	0	93.2	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702034
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170103A**

Sample ID	**DCS-78566**	Batch ID:	**78566**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**GCMS6_170103A**	Analysis Date:	**1/3/2017 5:04:00 PM**	Prep Date:	**1/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0000312	0.0000500	0.0000400	0	78.0	20	200	0	0	
Acenaphthylene	0.0000328	0.0000500	0.0000400	0	82.1	20	200	0	0	
Anthracene	0.0000346	0.0000500	0.0000400	0	86.6	20	200	0	0	
Benzo[a]anthracene	0.0000363	0.0000500	0.0000400	0	90.7	20	200	0	0	
Benzo[a]pyrene	0.0000347	0.0000500	0.0000400	0	86.8	20	200	0	0	
Benzo[b]fluoranthene	0.0000351	0.0000500	0.0000400	0	87.9	20	200	0	0	
Benzo[g,h,i]perylene	0.0000348	0.0000500	0.0000400	0	87.1	20	200	0	0	
Benzo[k]fluoranthene	0.0000345	0.0000500	0.0000400	0	86.2	20	200	0	0	
Chrysene	0.0000359	0.0000500	0.0000400	0	89.7	20	200	0	0	
Dibenz[a,h]anthracene	0.0000335	0.0000500	0.0000400	0	83.9	20	200	0	0	
Fluoranthene	0.0000370	0.0000500	0.0000400	0	92.4	20	200	0	0	
Fluorene	0.0000333	0.0000500	0.0000400	0	83.3	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.0000335	0.0000500	0.0000400	0	83.9	20	200	0	0	
Naphthalene	0.0000346	0.0000500	0.0000400	0	86.6	20	200	0	0	
Phenanthrene	0.0000360	0.0000500	0.0000400	0	90.0	20	200	0	0	
Pyrene	0.0000330	0.0000500	0.0000400	0	82.6	20	200	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702034
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170207A**

The QC data in batch 79080 applies to the following samples: 1702034-01B, 1702034-02B, 1702034-03B, 1702034-04B, 1702034-05B, 1702034-06B, 1702034-07B, 1702034-08B, 1702034-09B, 1702034-10B, 1702034-11B, 1702034-12B, 1702034-13B

Sample ID **LCS-79080** Batch ID: **79080** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS6_170207A** Analysis Date: **2/7/2017 5:36:00 PM** Prep Date: **2/7/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00241	0.0000500	0.00400	0	60.2	47	120			
Acenaphthylene	0.00261	0.0000500	0.00400	0	65.2	50	120			
Anthracene	0.00285	0.0000500	0.00400	0	71.2	54	120			
Benzo[a]anthracene	0.00316	0.0000500	0.00400	0	79.0	56	100			
Benzo[a]pyrene	0.00318	0.0000500	0.00400	0	79.5	53	120			
Benzo[b]fluoranthene	0.00316	0.0000500	0.00400	0	78.9	45	124			
Benzo[g,h,i]perylene	0.00320	0.0000500	0.00400	0	80.1	38	123			
Benzo[k]fluoranthene	0.00314	0.0000500	0.00400	0	78.4	45	124			
Chrysene	0.00314	0.0000500	0.00400	0	78.4	55	120			
Dibenz[a,h]anthracene	0.00322	0.0000500	0.00400	0	80.6	42	127			
Fluoranthene	0.00299	0.0000500	0.00400	0	74.7	54	120			
Fluorene	0.00272	0.0000500	0.00400	0	68.0	50	120			
Indeno[1,2,3-cd]pyrene	0.00308	0.0000500	0.00400	0	76.9	43	125			
Naphthalene	0.00209	0.0000500	0.00400	0	52.2	39	120			
Phenanthrene	0.00280	0.0000500	0.00400	0	70.0	51	120			
Pyrene	0.00290	0.0000500	0.00400	0	72.4	49	128			
Surr: 2-Fluorobiphenyl	4.66		8.000		58.3	48	120			
Surr: 4-Terphenyl-d14	4.88		8.000		61.0	51	135			

Sample ID **MB-79080** Batch ID: **79080** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS6_170207A** Analysis Date: **2/7/2017 6:36:00 PM** Prep Date: **2/7/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.0000250	0.0000500								
Acenaphthylene	<0.0000250	0.0000500								
Anthracene	<0.0000250	0.0000500								
Benzo[a]anthracene	<0.0000250	0.0000500								
Benzo[a]pyrene	<0.0000250	0.0000500								
Benzo[b]fluoranthene	<0.0000250	0.0000500								
Benzo[g,h,i]perylene	<0.0000250	0.0000500								
Benzo[k]fluoranthene	<0.0000250	0.0000500								
Chrysene	<0.0000250	0.0000500								
Dibenz[a,h]anthracene	<0.0000250	0.0000500								
Fluoranthene	<0.0000250	0.0000500								
Fluorene	<0.0000250	0.0000500								
Indeno[1,2,3-cd]pyrene	<0.0000250	0.0000500								
Naphthalene	<0.0000250	0.0000500								
Phenanthrene	<0.0000250	0.0000500								
Pyrene	<0.0000250	0.0000500								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702034
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170207A**

Sample ID	**MB-79080**	Batch ID:	**79080**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**GCMS6_170207A**	Analysis Date:	**2/7/2017 6:36:00 PM**	Prep Date:	**2/7/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	4.40		8.000		55.0	48	120			
Surr: 4-Terphenyl-d14	4.86		8.000		60.7	51	135			

Sample ID	**1702034-13BMS**	Batch ID:	**79080**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**GCMS6_170207A**	Analysis Date:	**2/8/2017 2:33:00 AM**	Prep Date:	**2/7/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00300	0.0000541	0.00433	0.000405	60.0	47	120			
Acenaphthylene	0.00267	0.0000541	0.00433	0	61.6	50	120			
Anthracene	0.00317	0.0000541	0.00433	0.000106	70.9	54	120			
Benzo[a]anthracene	0.00321	0.0000541	0.00433	0	74.2	56	100			
Benzo[a]pyrene	0.00332	0.0000541	0.00433	0	76.8	53	120			
Benzo[b]fluoranthene	0.00328	0.0000541	0.00433	0	75.7	45	124			
Benzo[g,h,i]perylene	0.00339	0.0000541	0.00433	0	78.3	38	123			
Benzo[k]fluoranthene	0.00318	0.0000541	0.00433	0	73.4	45	124			
Chrysene	0.00323	0.0000541	0.00433	0	74.6	55	120			
Dibenz[a,h]anthracene	0.00339	0.0000541	0.00433	0	78.4	42	127			
Fluoranthene	0.00326	0.0000541	0.00433	0.000196	70.8	54	120			
Fluorene	0.00365	0.0000541	0.00433	0.000680	68.7	50	120			
Indeno[1,2,3-cd]pyrene	0.00327	0.0000541	0.00433	0	75.7	43	125			
Naphthalene	0.00216	0.0000541	0.00433	0.0000276	49.2	39	120			
Phenanthrene	0.00353	0.0000541	0.00433	0.000510	69.8	51	120			
Pyrene	0.00314	0.0000541	0.00433	0.000143	69.4	49	128			
Surr: 2-Fluorobiphenyl	4.53		8.656		52.3	48	120			
Surr: 4-Terphenyl-d14	5.01		8.656		57.9	51	135			

Sample ID	**1702034-13BMSD**	Batch ID:	**79080**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**GCMS6_170207A**	Analysis Date:	**2/8/2017 3:03:00 AM**	Prep Date:	**2/7/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00282	0.0000530	0.00424	0.000405	57.0	47	120	6.15	20	
Acenaphthylene	0.00250	0.0000530	0.00424	0	59.1	50	120	6.36	20	
Anthracene	0.00305	0.0000530	0.00424	0.000106	69.4	54	120	4.09	20	
Benzo[a]anthracene	0.00305	0.0000530	0.00424	0	72.0	56	100	5.25	20	
Benzo[a]pyrene	0.00313	0.0000530	0.00424	0	73.8	53	120	6.06	20	
Benzo[b]fluoranthene	0.00301	0.0000530	0.00424	0	71.0	45	124	8.50	20	
Benzo[g,h,i]perylene	0.00320	0.0000530	0.00424	0	75.5	38	123	5.81	20	
Benzo[k]fluoranthene	0.00304	0.0000530	0.00424	0	71.7	45	124	4.38	20	
Chrysene	0.00304	0.0000530	0.00424	0	71.7	55	120	6.11	20	
Dibenz[a,h]anthracene	0.00319	0.0000530	0.00424	0	75.2	42	127	6.23	20	
Fluoranthene	0.00309	0.0000530	0.00424	0.000196	68.3	54	120	5.41	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702034
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170207A**

Sample ID	**1702034-13BMSD**	Batch ID:	**79080**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**GCMS6_170207A**	Analysis Date:	**2/8/2017 3:03:00 AM**	Prep Date:	**2/7/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	0.00354	0.0000530	0.00424	0.000680	67.6	50	120	3.09	20	
Indeno[1,2,3-cd]pyrene	0.00309	0.0000530	0.00424	0	73.0	43	125	5.71	20	
Naphthalene	0.00182	0.0000530	0.00424	0.0000276	42.2	39	120	17.2	20	
Phenanthrene	0.00345	0.0000530	0.00424	0.000510	69.5	51	120	2.29	20	
Pyrene	0.00300	0.0000530	0.00424	0.000143	67.4	49	128	4.72	20	
Surr: 2-Fluorobiphenyl	4.47		8.473		52.7	48	120	0	0	
Surr: 4-Terphenyl-d14	4.69		8.473		55.3	51	135	0	0	

Sample ID	**SB-170208**	Batch ID:	**79080**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**SBLK**	Run ID:	**GCMS6_170207A**	Analysis Date:	**2/8/2017 9:12:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.0000250	0.0000500	0							
Acenaphthylene	<0.0000250	0.0000500	0							
Anthracene	<0.0000250	0.0000500	0							
Benzo[a]anthracene	<0.0000250	0.0000500	0							
Benzo[a]pyrene	<0.0000250	0.0000500	0							
Benzo[b]fluoranthene	<0.0000250	0.0000500	0							
Benzo[g,h,i]perylene	<0.0000250	0.0000500	0							
Benzo[k]fluoranthene	<0.0000250	0.0000500	0							
Chrysene	<0.0000250	0.0000500	0							
Dibenz[a,h]anthracene	<0.0000250	0.0000500	0							
Fluoranthene	<0.0000250	0.0000500	0							
Fluorene	<0.0000250	0.0000500	0							
Indeno[1,2,3-cd]pyrene	<0.0000250	0.0000500	0							
Naphthalene	<0.0000250	0.0000500	0							
Phenanthrene	<0.0000250	0.0000500	0							
Pyrene	<0.0000250	0.0000500	0							
Surr: 4-Terphenyl-d14	0		0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702034
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170207A**

Sample ID **ICV-170207** Batch ID: **R90377** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **ICV** Run ID: **GCMS6_170207A** Analysis Date: **2/7/2017 5:07:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.86	0.0000500	2.00	0	93.0	80	120			
Acenaphthylene	1.86	0.0000500	2.00	0	92.9	80	120			
Anthracene	1.85	0.0000500	2.00	0	92.7	80	120			
Benzo[a]anthracene	1.96	0.0000500	2.00	0	97.8	80	120			
Benzo[a]pyrene	2.02	0.0000500	2.00	0	101	80	120			
Benzo[b]fluoranthene	2.05	0.0000500	2.00	0	102	80	120			
Benzo[g,h,i]perylene	2.02	0.0000500	2.00	0	101	80	120			
Benzo[k]fluoranthene	1.96	0.0000500	2.00	0	98.1	80	120			
Chrysene	1.96	0.0000500	2.00	0	97.8	80	120			
Dibenz[a,h]anthracene	2.02	0.0000500	2.00	0	101	80	120			
Fluoranthene	1.85	0.0000500	2.00	0	92.3	80	120			
Fluorene	1.90	0.0000500	2.00	0	94.8	80	120			
Indeno[1,2,3-cd]pyrene	1.94	0.0000500	2.00	0	96.8	80	120			
Naphthalene	1.76	0.0000500	2.00	0	88.0	80	120			
Phenanthrene	1.83	0.0000500	2.00	0	91.4	80	120			
Pyrene	1.82	0.0000500	2.00	0	91.0	80	120			
Surr: 2-Fluorobiphenyl	1760		2000		88.2	65	120			
Surr: 4-Terphenyl-d14	1960		2000		98.0	65	120			

Sample ID **ICV-170208** Batch ID: **R90377** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **ICV** Run ID: **GCMS6_170207A** Analysis Date: **2/8/2017 8:42:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.88	0.0000500	2.00	0	94.1	80	120			
Acenaphthylene	1.90	0.0000500	2.00	0	95.1	80	120			
Anthracene	1.87	0.0000500	2.00	0	93.3	80	120			
Benzo[a]anthracene	1.95	0.0000500	2.00	0	97.6	80	120			
Benzo[a]pyrene	1.99	0.0000500	2.00	0	99.6	80	120			
Benzo[b]fluoranthene	1.95	0.0000500	2.00	0	97.3	80	120			
Benzo[g,h,i]perylene	2.00	0.0000500	2.00	0	99.9	80	120			
Benzo[k]fluoranthene	1.96	0.0000500	2.00	0	97.8	80	120			
Chrysene	1.92	0.0000500	2.00	0	96.0	80	120			
Dibenz[a,h]anthracene	2.01	0.0000500	2.00	0	100	80	120			
Fluoranthene	1.87	0.0000500	2.00	0	93.3	80	120			
Fluorene	1.94	0.0000500	2.00	0	97.2	80	120			
Indeno[1,2,3-cd]pyrene	1.95	0.0000500	2.00	0	97.3	80	120			
Naphthalene	1.77	0.0000500	2.00	0	88.4	80	120			
Phenanthrene	1.86	0.0000500	2.00	0	93.1	80	120			
Pyrene	1.81	0.0000500	2.00	0	90.5	80	120			
Surr: 2-Fluorobiphenyl	1800		2000		90.0	65	120			
Surr: 4-Terphenyl-d14	1980		2000		98.9	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT: AECOM
Work Order: 1702034
Project: GLO/City of Galveston

MQL SUMMARY REPORT

TestNo: SW6020A	MDL	MQL
Analyte	**mg/L**	**mg/L**
Antimony	0.000800	0.00250
Arsenic	0.00200	0.00500
Barium	0.00300	0.0100
Beryllium	0.000300	0.00100
Cadmium	0.000300	0.00100
Chromium	0.00200	0.00500
Lead	0.000300	0.00100
Nickel	0.00300	0.0100
Selenium	0.00200	0.00500
Silver	0.00100	0.00200

TestNo: SW7470A	MDL	MQL
Analyte	**mg/L**	**mg/L**
Mercury	0.0000800	0.000200

TestNo: SW8270D-LL	MDL	MQL
Analyte	**mg/L**	**mg/L**
Acenaphthene	0.0000250	0.0000500
Acenaphthylene	0.0000250	0.0000500
Anthracene	0.0000250	0.0000500
Benzo[a]anthracene	0.0000250	0.0000500
Benzo[a]pyrene	0.0000250	0.0000500
Benzo[b]fluoranthene	0.0000250	0.0000500
Benzo[g,h,i]perylene	0.0000250	0.0000500
Benzo[k]fluoranthene	0.0000250	0.0000500
Chrysene	0.0000250	0.0000500
Dibenz[a,h]anthracene	0.0000250	0.0000500
Fluoranthene	0.0000250	0.0000500
Fluorene	0.0000250	0.0000500
Indeno[1,2,3-cd]pyrene	0.0000250	0.0000500
Naphthalene	0.0000250	0.0000500
Phenanthrene	0.0000250	0.0000500
Pyrene	0.0000250	0.0000500

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

DHL Analytical, Inc.
Laboratory Review Checklist: Reportable Data

Project Name: GLO/City of Galveston	**Date:** 2/7/2017
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1701263
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	**1)** Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				**R1-01**
		2) Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?		X			**R3-08**
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			**R7-03**
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				**R10-01**
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.
Laboratory Review Checklist (continued): Supporting Data

Project Name: GLO/City of Galveston | **Date:** 2/7/2017

Reviewer Name: Angie O'Donnell | **Laboratory Work Order:** 1701263

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			**S9-01**
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
- a) Items consistent with NELAC Chapter 5,
- b) dilution factors,
- c) preparation methods,
- d) cleanup methods, and
- e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:
- a) Calculated recovery (%R), and
- b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
- a) LCS spiking amounts,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d) Calculated %Rs and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits

R8 Laboratory analytical duplicate (if applicable) recovery and precision:
- a) The amount of analyte measured in the duplicate,
- b) The calculated RPD, and
- c) The laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-5, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager

Scott Schroeder – Technical Director

_____ Signature

02/08/17
_____ Date

CASE NARRATIVE

The samples were analyzed using the methods outlined in the following references:

Method SW8260C - Volatile Organics Analysis
Method SW1311/8270D - TCLP Semivolatile Organics Analysis
Method SW1311/6020A - TCLP Metals Analysis
Method SW1311/7470A - TCLP Mercury Analysis
Method TX1005 - Total Petroleum Hydrocarbons Analysis
Method SW9045D - pH of Solid Analysis
Method SW1010 - Ignitability
Method SW846 Ch7.3 - Reactivity (Cyanide & Sulfide) (These parameters are not NELAC Certified)

Exception Report R1-01

The samples were received and log in performed on 1/27/2017. A total of 2 samples were received and analyzed. The samples arrived in good condition and were properly packaged. The client made changes to the analysis requested on 1/27/2017.

Exception Report R3-08

As per the TCEQ-NELAP accreditation requirement the following must be noted: For TX1005 analyses of soils, the samples were collected in 4 ounce jars. This is allowed in Method TX1005 and by regulatory agencies for specific situations. For analyses reported to the Texas Railroad Commission, bulk sampling is allowed. For analyses reported for the TCEQ PST program, for waste classification, or for remediation project where process knowledge can document that C6-C12 hydrocarbons are not present, then Method 1005 allows for bulk sampling. NELAP requires a note that if 5035 sampling method for TX1005 is not utilized and none of the exceptions are applicable, the results of samples collected in bulk containers for C6-C12 hydrocarbon components may be compromised. The client has been notified and has requested the Laboratory to proceed with analysis.

Exception Report R7-03

For TCLP Mercury Analysis, the recoveries of the Matrix Spike and Matrix Spike Duplicate (1701222-02 MS/MSD) were below the method control limits. These are flagged accordingly in the QC Summary Report. The associated LCS was within method control limits. No further corrective action was taken.

For Volatiles Analysis, the recoveries of up to three compounds for the Matrix Spike and Matrix Spike Duplicate (1701264-11 MS/MSD) were below the method control limits. These are flagged accordingly in the QC Summary Report. These compounds were within method control limits in the

associated LCS. No further corrective action was taken.

Exception Report R10-01

The results of samples were below TCLP or RCRA characterization limits.

Exception Report S9-01

For TCLP Mercury Analysis, the recovery of the Post Digestion Spike (1701222-02 PDS) was below the method control limits. This is flagged accordingly in the QC Summary Report. The associated Serial Dilution (1701222-02 SD) was within method control limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: *07-Feb-17*

CLIENT: AECOM
Project: GLO/City of Galveston
Lab Order: 1701263

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1701263-01	INC-IDWS-010		01/26/17 03:35 PM	1/27/2017
1701263-02	INC-IDWS-020		01/26/17 03:45 PM	1/27/2017

DHL Analytical, Inc.

07-Feb-17

Lab Order: 1701263
Client: AECOM
Project: GLO/City of Galveston

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1701263-01A	INC-IDWS-010	01/26/17 03:35 PM	Soil	SW5035A	Purge and Trap 5035	02/03/17 08:30 AM	79018
1701263-01B	INC-IDWS-010	01/26/17 03:35 PM	Soil	SW1010	Ignitibility Preparation	02/01/17 08:52 AM	78983
	INC-IDWS-010	01/26/17 03:35 PM	Soil	SW9045C	pH Preparation	01/31/17 02:12 PM	78980
	INC-IDWS-010	01/26/17 03:35 PM	Soil	Reactivity	Reactivity Prep	02/03/17 09:02 AM	79024
	INC-IDWS-010	01/26/17 03:35 PM	Soil	Reactivity	Reactivity Prep	02/03/17 09:02 AM	79024
	INC-IDWS-010	01/26/17 03:35 PM	Soil	TX1005	TX1005 Soil Prep	01/30/17 09:38 AM	78952
1701263-01C	INC-IDWS-010	01/26/17 03:35 PM	Soil	SW3510C	Aq Prep Sep Funnel: BNA	01/31/17 02:00 PM	78978
	INC-IDWS-010	01/26/17 03:35 PM	Soil	SW3010A	Liquid Prep Total Metals: ICP-MS	01/31/17 09:14 AM	78968
	INC-IDWS-010	01/26/17 03:35 PM	Soil	SW7470A	Mercury Aq Prep, Total	01/31/17 11:43 AM	78975
	INC-IDWS-010	01/26/17 03:35 PM	Soil	D2216	Moisture Preparation	02/01/17 01:18 PM	78993
1701263-02A	INC-IDWS-020	01/26/17 03:45 PM	Soil	SW1010	Ignitibility Preparation	02/01/17 08:52 AM	78983
	INC-IDWS-020	01/26/17 03:45 PM	Soil	SW9045C	pH Preparation	01/31/17 02:12 PM	78980
	INC-IDWS-020	01/26/17 03:45 PM	Soil	Reactivity	Reactivity Prep	02/03/17 09:02 AM	79024
	INC-IDWS-020	01/26/17 03:45 PM	Soil	Reactivity	Reactivity Prep	02/03/17 09:02 AM	79024
1701263-02B	INC-IDWS-020	01/26/17 03:45 PM	Soil	SW3510C	Aq Prep Sep Funnel: BNA	01/31/17 02:00 PM	78978
	INC-IDWS-020	01/26/17 03:45 PM	Soil	SW3010A	Liquid Prep Total Metals: ICP-MS	01/31/17 09:14 AM	78968
	INC-IDWS-020	01/26/17 03:45 PM	Soil	SW7470A	Mercury Aq Prep, Total	01/31/17 11:43 AM	78975

Lab Order: 1701263
Client: AECOM
Project: GLO/City of Galveston

TCLP/SPLP PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1701263-01C	INC-IDWS-010	1/26/2017 3:35:00 PM	Soil	SW1311	TCLP Bottle Extr. (Metals)	1/30/2017 8:54:46 AM	78947
	INC-IDWS-010	1/26/2017 3:35:00 PM	Soil	SW1311	TCLP Sample Prep (Organics/Metals)	1/30/2017 9:02:17 AM	78948
1701263-02B	INC-IDWS-020	1/26/2017 3:45:00 PM	Soil	SW1311	TCLP Bottle Extr. (Metals)	1/30/2017 8:54:46 AM	78947
	INC-IDWS-020	1/26/2017 3:45:00 PM	Soil	SW1311	TCLP Sample Prep (Organics/Metals)	1/30/2017 9:02:17 AM	78948

DHL Analytical, Inc.

07-Feb-17

Lab Order: 1701263
Client: AECOM
Project: GLO/City of Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1701263-01A	INC-IDWS-010	Soil	SW8260C	Volatiles by 8260/5035 GC/MS	79018	1	02/03/17 01:13 PM	GCMS2_170203B
1701263-01B	INC-IDWS-010	Soil	SW1010	Ignitability	78983	1	02/01/17 08:53 AM	IGN_170201A
	INC-IDWS-010	Soil	SW9045D	pH of Solid (Corrosivity)	78980	1	01/31/17 02:13 PM	PH2_170131A
	INC-IDWS-010	Soil	Sw846 Ch7.3	Reactivity (Cyanide & Sulfide)	79024	2	02/03/17 03:23 PM	UV/VIS_2_170203A
	INC-IDWS-010	Soil	Sw846 Ch7.3	Reactivity (Cyanide & Sulfide)	79024	1	02/03/17 01:01 PM	WC_170203C
	INC-IDWS-010	Soil	TX1005	Tx1005 TPH Soil	78952	1	01/31/17 10:50 AM	GC12_170131A
1701263-01C	INC-IDWS-010	Soil	D2216	Percent Moisture	78993	1	02/02/17 08:15 AM	PMOIST_170201A
	INC-IDWS-010	Soil	SW1311/7470A	TCLP Mercury	78975	1	02/01/17 11:42 AM	CETAC2_HG_170201B
	INC-IDWS-010	Soil	SW1311/6020A	TCLP Metals	78968	1	02/01/17 10:49 AM	ICP-MS4_170201A
	INC-IDWS-010	Soil	SW1311/8270D	TCLP Semi-Volatiles	78978	1	02/01/17 01:00 PM	GCMS9_170201A
1701263-02A	INC-IDWS-020	Soil	SW1010	Ignitability	78983	1	02/01/17 08:53 AM	IGN_170201A
	INC-IDWS-020	Soil	SW9045D	pH of Solid (Corrosivity)	78980	1	01/31/17 02:13 PM	PH2_170131A
	INC-IDWS-020	Soil	Sw846 Ch7.3	Reactivity (Cyanide & Sulfide)	79024	2	02/03/17 03:23 PM	UV/VIS_2_170203A
	INC-IDWS-020	Soil	Sw846 Ch7.3	Reactivity (Cyanide & Sulfide)	79024	1	02/03/17 01:56 PM	WC_170203C
1701263-02B	INC-IDWS-020	Soil	SW1311/7470A	TCLP Mercury	78975	1	02/01/17 11:44 AM	CETAC2_HG_170201B
	INC-IDWS-020	Soil	SW1311/6020A	TCLP Metals	78968	1	02/01/17 10:51 AM	ICP-MS4_170201A
	INC-IDWS-020	Soil	SW1311/8270D	TCLP Semi-Volatiles	78978	1	02/01/17 01:24 PM	GCMS9_170201A

DHL Analytical, Inc.

Date: *08-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-IDWS-010
Project:	GLO/City of Galveston	**Lab ID:**	1701263-01
Project No:	60420789.3301	**Collection Date:**	01/26/17 03:35 PM
Lab Order:	1701263	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH SOIL		**TX1005**					Analyst: **BJT**
T/R Hydrocarbons: C6-C12	162	8.71	24.9		mg/Kg-dry	1	01/31/17 10:50 AM
T/R Hydrocarbons: >C12-C28	720	8.71	24.9		mg/Kg-dry	1	01/31/17 10:50 AM
T/R Hydrocarbons: >C28-C35	29.3	8.71	24.9		mg/Kg-dry	1	01/31/17 10:50 AM
T/R Hydrocarbons: C6-C35	911	8.71	24.9		mg/Kg-dry	1	01/31/17 10:50 AM
Surr: Isopropylbenzene	89.5	0	70-130		%REC	1	01/31/17 10:50 AM
Surr: Octacosane	128	0	70-130		%REC	1	01/31/17 10:50 AM
TCLP MERCURY		**SW1311/7470A**					Analyst: **AH**
Mercury	<0.000400	0.000400	0.00100		mg/L	1	02/01/17 11:42 AM
TCLP METALS		**SW1311/6020A**					Analyst: **RO**
Antimony	0.00827	0.00400	0.0125	J	mg/L	1	02/01/17 10:49 AM
Arsenic	<0.0100	0.0100	0.0250		mg/L	1	02/01/17 10:49 AM
Barium	0.767	0.0150	0.0500		mg/L	1	02/01/17 10:49 AM
Beryllium	<0.00150	0.00150	0.00500		mg/L	1	02/01/17 10:49 AM
Cadmium	0.0145	0.00150	0.00500		mg/L	1	02/01/17 10:49 AM
Chromium	<0.0100	0.0100	0.0250		mg/L	1	02/01/17 10:49 AM
Lead	0.0665	0.00150	0.00500		mg/L	1	02/01/17 10:49 AM
Nickel	0.0360	0.0150	0.0500	J	mg/L	1	02/01/17 10:49 AM
Selenium	<0.0100	0.0100	0.0250		mg/L	1	02/01/17 10:49 AM
Silver	<0.00500	0.00500	0.0100		mg/L	1	02/01/17 10:49 AM
TCLP SEMI-VOLATILES		**SW1311/8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.00996	0.00996	0.0398		mg/L	1	02/01/17 01:00 PM
2,4,6-Trichlorophenol	<0.00996	0.00996	0.0398		mg/L	1	02/01/17 01:00 PM
2,4-Dinitrotoluene	<0.00996	0.00996	0.0398		mg/L	1	02/01/17 01:00 PM
2-Methylphenol	<0.00996	0.00996	0.0398		mg/L	1	02/01/17 01:00 PM
3&4-Methylphenol	<0.00996	0.00996	0.0398		mg/L	1	02/01/17 01:00 PM
Hexachlorobenzene	<0.00996	0.00996	0.0398		mg/L	1	02/01/17 01:00 PM
Hexachlorobutadiene	<0.00996	0.00996	0.0398		mg/L	1	02/01/17 01:00 PM
Hexachloroethane	<0.00996	0.00996	0.0398		mg/L	1	02/01/17 01:00 PM
Nitrobenzene	<0.0199	0.0199	0.0398		mg/L	1	02/01/17 01:00 PM
Pentachlorophenol	<0.0199	0.0199	0.0398		mg/L	1	02/01/17 01:00 PM
Pyridine	<0.0398	0.0398	0.0996		mg/L	1	02/01/17 01:00 PM
Surr: 2,4,6-Tribromophenol	85.5	0	42-124		%REC	1	02/01/17 01:00 PM
Surr: 2-Fluorobiphenyl	86.0	0	48-120		%REC	1	02/01/17 01:00 PM
Surr: 2-Fluorophenol	79.2	0	20-120		%REC	1	02/01/17 01:00 PM
Surr: 4-Terphenyl-d14	71.0	0	51-135		%REC	1	02/01/17 01:00 PM
Surr: Nitrobenzene-d5	72.8	0	41-120		%REC	1	02/01/17 01:00 PM
Surr: Phenol-d5	80.5	0	20-120		%REC	1	02/01/17 01:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *08-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-IDWS-010
Project:	GLO/City of Galveston	**Lab ID:**	1701263-01
Project No:	60420789.3301	**Collection Date:**	01/26/17 03:35 PM
Lab Order:	1701263	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260C**					Analyst: **SW**
1,1-Dichloroethene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	02/03/17 01:13 PM
1,2-Dichloroethane	<0.00124	0.00124	0.00618		mg/Kg-dry	1	02/03/17 01:13 PM
1,4-Dichlorobenzene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	02/03/17 01:13 PM
2-Butanone	0.0170	0.00618	0.0186	J	mg/Kg-dry	1	02/03/17 01:13 PM
Benzene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	02/03/17 01:13 PM
Carbon tetrachloride	<0.00124	0.00124	0.00618		mg/Kg-dry	1	02/03/17 01:13 PM
Chlorobenzene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	02/03/17 01:13 PM
Chloroform	<0.00124	0.00124	0.00618		mg/Kg-dry	1	02/03/17 01:13 PM
Tetrachloroethene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	02/03/17 01:13 PM
Trichloroethene	<0.00124	0.00124	0.00618		mg/Kg-dry	1	02/03/17 01:13 PM
Vinyl chloride	<0.00124	0.00124	0.00618		mg/Kg-dry	1	02/03/17 01:13 PM
Surr: 1,2-Dichloroethane-d4	102	0	52-149		%REC	1	02/03/17 01:13 PM
Surr: 4-Bromofluorobenzene	110	0	84-118		%REC	1	02/03/17 01:13 PM
Surr: Dibromofluoromethane	101	0	65-135		%REC	1	02/03/17 01:13 PM
Surr: Toluene-d8	97.5	0	84-116		%REC	1	02/03/17 01:13 PM
IGNITABILITY		**SW1010**					Analyst: **AJH**
Ignitability	>100	0	0		°C	1	02/01/17 08:53 AM
PH OF SOLID (CORROSIVITY)		**SW9045D**					Analyst: **AJH**
pH	7.94	0	0		pH Units@21.6°C	1	01/31/17 02:13 PM
PERCENT MOISTURE		**D2216**					Analyst: **SP**
Percent Moisture	21.4	0	0		WT%	1	02/02/17 08:15 AM
REACTIVITY (CYANIDE & SULFIDE)		**SW846 CH7.3**					Analyst: **JL**
Reactive Cyanide	<0.0984	0.0984	0.197	N	mg/Kg	2	02/03/17 03:23 PM
Reactive Sulfide	<19.7	19.7	19.7	N	mg/Kg	1	02/03/17 01:01 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *08-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-IDWS-020
Project:	GLO/City of Galveston	**Lab ID:**	1701263-02
Project No:	60420789.3301	**Collection Date:**	01/26/17 03:45 PM
Lab Order:	1701263	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TCLP MERCURY		**SW1311/7470A**					Analyst: **AH**
Mercury	<0.000400	0.000400	0.00100		mg/L	1	02/01/17 11:44 AM
TCLP METALS		**SW1311/6020A**					Analyst: **RO**
Antimony	<0.00400	0.00400	0.0125		mg/L	1	02/01/17 10:51 AM
Arsenic	<0.0100	0.0100	0.0250		mg/L	1	02/01/17 10:51 AM
Barium	0.509	0.0150	0.0500		mg/L	1	02/01/17 10:51 AM
Beryllium	<0.00150	0.00150	0.00500		mg/L	1	02/01/17 10:51 AM
Cadmium	0.00280	0.00150	0.00500	J	mg/L	1	02/01/17 10:51 AM
Chromium	<0.0100	0.0100	0.0250		mg/L	1	02/01/17 10:51 AM
Lead	0.0217	0.00150	0.00500		mg/L	1	02/01/17 10:51 AM
Nickel	<0.0150	0.0150	0.0500		mg/L	1	02/01/17 10:51 AM
Selenium	<0.0100	0.0100	0.0250		mg/L	1	02/01/17 10:51 AM
Silver	<0.00500	0.00500	0.0100		mg/L	1	02/01/17 10:51 AM
TCLP SEMI-VOLATILES		**SW1311/8270D**					Analyst: **DEW**
2,4,5-Trichlorophenol	<0.00982	0.00982	0.0393		mg/L	1	02/01/17 01:24 PM
2,4,6-Trichlorophenol	<0.00982	0.00982	0.0393		mg/L	1	02/01/17 01:24 PM
2,4-Dinitrotoluene	<0.00982	0.00982	0.0393		mg/L	1	02/01/17 01:24 PM
2-Methylphenol	<0.00982	0.00982	0.0393		mg/L	1	02/01/17 01:24 PM
3&4-Methylphenol	<0.00982	0.00982	0.0393		mg/L	1	02/01/17 01:24 PM
Hexachlorobenzene	<0.00982	0.00982	0.0393		mg/L	1	02/01/17 01:24 PM
Hexachlorobutadiene	<0.00982	0.00982	0.0393		mg/L	1	02/01/17 01:24 PM
Hexachloroethane	<0.00982	0.00982	0.0393		mg/L	1	02/01/17 01:24 PM
Nitrobenzene	<0.0196	0.0196	0.0393		mg/L	1	02/01/17 01:24 PM
Pentachlorophenol	<0.0196	0.0196	0.0393		mg/L	1	02/01/17 01:24 PM
Pyridine	<0.0393	0.0393	0.0982		mg/L	1	02/01/17 01:24 PM
Surr: 2,4,6-Tribromophenol	84.5	0	42-124		%REC	1	02/01/17 01:24 PM
Surr: 2-Fluorobiphenyl	83.8	0	48-120		%REC	1	02/01/17 01:24 PM
Surr: 2-Fluorophenol	76.8	0	20-120		%REC	1	02/01/17 01:24 PM
Surr: 4-Terphenyl-d14	70.5	0	51-135		%REC	1	02/01/17 01:24 PM
Surr: Nitrobenzene-d5	71.5	0	41-120		%REC	1	02/01/17 01:24 PM
Surr: Phenol-d5	77.5	0	20-120		%REC	1	02/01/17 01:24 PM
IGNITABILITY		**SW1010**					Analyst: **AJH**
Ignitability	>100	0	0		°C	1	02/01/17 08:53 AM
PH OF SOLID (CORROSIVITY)		**SW9045D**					Analyst: **AJH**
pH	8.01	0	0		pH Units@21.8°C	1	01/31/17 02:13 PM
REACTIVITY (CYANIDE & SULFIDE)		**SW846 CH7.3**					Analyst: **JL**
Reactive Cyanide	<0.0990	0.0990	0.198	N	mg/Kg	2	02/03/17 03:23 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *08-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-IDWS-020
Project:	GLO/City of Galveston	**Lab ID:**	1701263-02
Project No:	60420789.3301	**Collection Date:**	01/26/17 03:45 PM
Lab Order:	1701263	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
REACTIVITY (CYANIDE & SULFIDE)		**SW846 CH7.3**					Analyst: **JL**
Reactive Sulfide	<19.8	19.8	19.8	N	mg/Kg	1	02/03/17 01:56 PM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
	C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
	E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
	RL	Reporting Limit	S	Spike Recovery outside control limits
	N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *08-Feb-17*

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GC12_170131A**

The QC data in batch 78952 applies to the following samples: 1701263-01B

Sample ID **LCS-78952** Batch ID: **78952** TestNo: **TX1005** Units: **mg/Kg**
SampType: **LCS** Run ID: **GC12_170131A** Analysis Date: **1/31/2017 9:49:56 AM** Prep Date: **1/30/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	250	20.0	250.0	0	100	75	125			
Surr: Isopropylbenzene	22.2		25.00		88.8	70	130			
Surr: Octacosane	22.8		25.00		91.2	70	130			

Sample ID **LCSD-78952** Batch ID: **78952** TestNo: **TX1005** Units: **mg/Kg**
SampType: **LCSD** Run ID: **GC12_170131A** Analysis Date: **1/31/2017 9:58:58 AM** Prep Date: **1/30/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	243	20.0	250.0	0	97.1	75	125	2.96	20	
Surr: Isopropylbenzene	21.9		25.00		87.6	70	130	0	0	
Surr: Octacosane	22.4		25.00		89.5	70	130	0	0	

Sample ID **MB-78952** Batch ID: **78952** TestNo: **TX1005** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GC12_170131A** Analysis Date: **1/31/2017 10:08:01 AM** Prep Date: **1/30/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C12	<7.00	20.0								
T/R Hydrocarbons: >C12-C28	<7.00	20.0								
T/R Hydrocarbons: >C28-C35	<7.00	20.0								
T/R Hydrocarbons: C6-C35	<7.00	20.0								
Surr: Isopropylbenzene	22.0		25.00		88.0	70	130			
Surr: Octacosane	23.2		25.00		92.9	70	130			

Sample ID **1701274-03BMS** Batch ID: **78952** TestNo: **TX1005** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GC12_170131A** Analysis Date: **1/31/2017 12:38:05 PM** Prep Date: **1/30/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	351	30.0	374.6	0	93.6	75	125			
Surr: Isopropylbenzene	34.9		37.46		93.3	70	130			
Surr: Octacosane	32.5		37.46		86.7	70	130			

Sample ID **1701274-03BMSD** Batch ID: **78952** TestNo: **TX1005** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GC12_170131A** Analysis Date: **1/31/2017 12:47:07 PM** Prep Date: **1/30/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	351	28.8	360.1	0	97.6	75	125	0.257	20	
Surr: Isopropylbenzene	33.6		36.01		93.4	70	130	0	0	
Surr: Octacosane	31.0		36.01		86.1	70	130	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GC12_170131A**

Sample ID	**ICV-170131**	Batch ID:	**R90247**	TestNo:	**TX1005**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GC12_170131A**	Analysis Date:	**1/31/2017 9:39:36 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	1000	20.0	1000	0	100	75	125			
Surr: Isopropylbenzene	54.9		50.00		110	70	130			
Surr: Octacosane	50.6		50.00		101	70	130			

Sample ID	**CCV1-170130**	Batch ID:	**R90247**	TestNo:	**TX1005**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**GC12_170131A**	Analysis Date:	**1/31/2017 1:30:53 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	577	20.0	500.0	0	115	75	125			
Surr: Isopropylbenzene	27.1		25.00		108	70	130			
Surr: Octacosane	25.1		25.00		100	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170201B**

The QC data in batch 78975 applies to the following samples: 1701263-01C, 1701263-02B

Sample ID	**MB-78975**	Batch ID:	**78975**	TestNo:	**SW1311/7470A**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 10:56:31 AM**	Prep Date:	**1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0000800	0.000200								

Sample ID	**MB-78947-TCLP**	Batch ID:	**78975**	TestNo:	**SW1311/7470A**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 10:58:47 AM**	Prep Date:	**1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.000400	0.00100								

Sample ID	**LCS-78975**	Batch ID:	**78975**	TestNo:	**SW1311/7470A**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 11:01:03 AM**	Prep Date:	**1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00213	0.000200	0.002000	0	106	85	115			

Sample ID	**LCSD-78975**	Batch ID:	**78975**	TestNo:	**SW1311/7470A**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 11:03:19 AM**	Prep Date:	**1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00212	0.000200	0.002000	0	106	85	115	0.471	15	

Sample ID	**1701222-02A SD**	Batch ID:	**78975**	TestNo:	**SW1311/7470A**	Units:	**mg/L**
SampType:	**SD**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 11:19:12 AM**	Prep Date:	**1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.000400	0.00100	0	0				0	10	

Sample ID	**1701222-02A PDS**	Batch ID:	**78975**	TestNo:	**SW1311/7470A**	Units:	**mg/L**
SampType:	**PDS**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 11:21:29 AM**	Prep Date:	**1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00167	0.000200	0.002500	0	66.8	85	115			S

Sample ID	**1701222-02A MS**	Batch ID:	**78975**	TestNo:	**SW1311/7470A**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 11:23:45 AM**	Prep Date:	**1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00136	0.000200	0.002000	0	68.0	80	120			S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170201B

Sample ID	**1701222-02A MSD**	Batch ID:	**78975**	TestNo:	**SW1311/7470A**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 11:26:01 AM**	Prep Date:	**1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00134	0.000200	0.002000	0	67.0	80	120	1.48	15	S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170201B**

Sample ID	**ICV-170201**	Batch ID:	**R90269**	TestNo:	**SW1311/7470A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 10:05:30 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00401	0.000200	0.004000	0	100	90	110			

Sample ID	**CCV1-170201**	Batch ID:	**R90269**	TestNo:	**SW1311/7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 10:51:57 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00197	0.000200	0.002000	0	98.5	90	110			

Sample ID	**CCV2-170201**	Batch ID:	**R90269**	TestNo:	**SW1311/7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 11:37:25 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00199	0.000200	0.002000	0	99.5	90	110			

Sample ID	**CCV3-170201**	Batch ID:	**R90269**	TestNo:	**SW1311/7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170201**	Analysis Date:	**2/1/2017 11:58:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00196	0.000200	0.002000	0	98.0	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170201A**

The QC data in batch 78968 applies to the following samples: 1701263-01C, 1701263-02B

Sample ID	**MB-78968**	Batch ID:	**78968**	TestNo:	**SW1311/6020A**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**ICP-MS4_170201A**	Analysis Date:	**2/1/2017 10:30:00 AM**	Prep Date:	**1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.000800	0.00250								
Arsenic	<0.00200	0.00500								
Barium	<0.00300	0.0100								
Beryllium	<0.000300	0.00100								
Cadmium	<0.000300	0.00100								
Chromium	<0.00200	0.00500								
Lead	<0.000300	0.00100								
Nickel	<0.00300	0.0100								
Selenium	<0.00200	0.00500								
Silver	<0.00100	0.00200								

Sample ID	**MB-78947-TCLP**	Batch ID:	**78968**	TestNo:	**SW1311/6020A**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**ICP-MS4_170201A**	Analysis Date:	**2/1/2017 10:32:00 AM**	Prep Date:	**1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.00400	0.0125								
Arsenic	<0.0100	0.0250								
Barium	<0.0150	0.0500								
Beryllium	<0.00150	0.00500								
Cadmium	<0.00150	0.00500								
Chromium	<0.0100	0.0250								
Lead	<0.00150	0.00500								
Nickel	<0.0150	0.0500								
Selenium	<0.0100	0.0250								
Silver	<0.00500	0.0100								

Sample ID	**LCS-78968**	Batch ID:	**78968**	TestNo:	**SW1311/6020A**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**ICP-MS4_170201A**	Analysis Date:	**2/1/2017 10:34:00 AM**	Prep Date:	**1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.201	0.00250	0.2000	0	100	80	120			
Arsenic	0.201	0.00500	0.2000	0	100	80	120			
Barium	0.206	0.0100	0.2000	0	103	80	120			
Beryllium	0.210	0.00100	0.2000	0	105	80	120			
Cadmium	0.206	0.00100	0.2000	0	103	80	120			
Chromium	0.214	0.00500	0.2000	0	107	80	120			
Lead	0.212	0.00100	0.2000	0	106	80	120			
Nickel	0.212	0.0100	0.2000	0	106	80	120			
Selenium	0.198	0.00500	0.2000	0	98.9	80	120			
Silver	0.211	0.00200	0.2000	0	106	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170201A**

Sample ID **LCSD-78968** Batch ID: **78968** TestNo: **SW1311/6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS4_170201A** Analysis Date: **2/1/2017 10:36:00 AM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.202	0.00250	0.2000	0	101	80	120	0.686	15	
Arsenic	0.204	0.00500	0.2000	0	102	80	120	1.50	15	
Barium	0.204	0.0100	0.2000	0	102	80	120	0.753	15	
Beryllium	0.213	0.00100	0.2000	0	106	80	120	1.25	15	
Cadmium	0.208	0.00100	0.2000	0	104	80	120	0.751	15	
Chromium	0.217	0.00500	0.2000	0	108	80	120	1.29	15	
Lead	0.213	0.00100	0.2000	0	106	80	120	0.497	15	
Nickel	0.217	0.0100	0.2000	0	108	80	120	2.21	15	
Selenium	0.202	0.00500	0.2000	0	101	80	120	1.98	15	
Silver	0.212	0.00200	0.2000	0	106	80	120	0.430	15	

Sample ID **1701219-03B SD** Batch ID: **78968** TestNo: **SW1311/6020A** Units: **mg/L**
SampType: **SD** Run ID: **ICP-MS4_170201A** Analysis Date: **2/1/2017 10:43:00 AM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.0200	0.0625	0	0				0	10	
Arsenic	<0.0500	0.125	0	0				0	10	
Barium	0.675	0.250	0	0.6518				3.52	10	
Beryllium	<0.00750	0.0250	0	0				0	10	
Cadmium	<0.00750	0.0250	0	0				0	10	
Chromium	<0.0500	0.125	0	0.02835				0	10	
Lead	<0.00750	0.0250	0	0				0	10	
Nickel	<0.0750	0.250	0	0				0	10	
Selenium	<0.0500	0.125	0	0				0	10	
Silver	<0.0250	0.0500	0	0				0	10	

Sample ID **1701219-03B PDS** Batch ID: **78968** TestNo: **SW1311/6020A** Units: **mg/L**
SampType: **PDS** Run ID: **ICP-MS4_170201A** Analysis Date: **2/1/2017 11:03:00 AM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.980	0.0125	1.000	0	98.0	80	120			
Arsenic	1.06	0.0250	1.000	0	106	80	120			
Barium	1.63	0.0500	1.000	0.6518	97.8	80	120			
Beryllium	1.02	0.00500	1.000	0	102	80	120			
Cadmium	0.991	0.00500	1.000	0	99.1	80	120			
Chromium	1.08	0.0250	1.000	0.02835	106	80	120			
Lead	1.04	0.00500	1.000	0	104	80	120			
Nickel	1.01	0.0500	1.000	0	101	80	120			
Selenium	1.02	0.0250	1.000	0	102	80	120			
Silver	0.961	0.0100	1.000	0	96.1	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170201A**

Sample ID	**1701219-03B MS**	Batch ID:	**78968**	TestNo:	**SW1311/6020A**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**ICP-MS4_170201A**	Analysis Date:	**2/1/2017 11:05:00 AM**	Prep Date:	**1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	1.06	0.0125	1.000	0	106	80	120			
Arsenic	1.09	0.0250	1.000	0	109	80	120			
Barium	1.72	0.0500	1.000	0.6518	107	80	120			
Beryllium	1.04	0.00500	1.000	0	104	80	120			
Cadmium	1.03	0.00500	1.000	0	103	80	120			
Chromium	1.10	0.0250	1.000	0.02835	107	80	120			
Lead	1.07	0.00500	1.000	0	107	80	120			
Nickel	1.06	0.0500	1.000	0	106	80	120			
Selenium	1.09	0.0250	1.000	0	109	80	120			
Silver	1.01	0.0100	1.000	0	101	80	120			

Sample ID	**1701219-03B MSD**	Batch ID:	**78968**	TestNo:	**SW1311/6020A**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**ICP-MS4_170201A**	Analysis Date:	**2/1/2017 11:07:00 AM**	Prep Date:	**1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	1.06	0.0125	1.000	0	106	80	120	0.024	15	
Arsenic	1.09	0.0250	1.000	0	109	80	120	0.163	15	
Barium	1.73	0.0500	1.000	0.6518	108	80	120	0.596	15	
Beryllium	1.03	0.00500	1.000	0	103	80	120	0.815	15	
Cadmium	1.04	0.00500	1.000	0	104	80	120	0.873	15	
Chromium	1.10	0.0250	1.000	0.02835	107	80	120	0.268	15	
Lead	1.08	0.00500	1.000	0	108	80	120	0.465	15	
Nickel	1.05	0.0500	1.000	0	105	80	120	0.482	15	
Selenium	1.08	0.0250	1.000	0	108	80	120	0.322	15	
Silver	1.01	0.0100	1.000	0	101	80	120	0.046	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170201A**

Sample ID **ICV-170201** Batch ID: **R90267** TestNo: **SW1311/6020A** Units: **mg/L**
SampType: **ICV** Run ID: **ICP-MS4_170201A** Analysis Date: **2/1/2017 10:15:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.0988	0.00250	0.1000	0	98.8	90	110			
Arsenic	0.0997	0.00500	0.1000	0	99.7	90	110			
Barium	0.100	0.0100	0.1000	0	100	90	110			
Beryllium	0.104	0.00100	0.1000	0	104	90	110			
Cadmium	0.101	0.00100	0.1000	0	101	90	110			
Chromium	0.108	0.00500	0.1000	0	108	90	110			
Lead	0.101	0.00100	0.1000	0	101	90	110			
Nickel	0.107	0.0100	0.1000	0	107	90	110			
Selenium	0.0973	0.00500	0.1000	0	97.3	90	110			
Silver	0.103	0.00200	0.1000	0	103	90	110			

Sample ID **LCVL-170201** Batch ID: **R90267** TestNo: **SW1311/6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170201A** Analysis Date: **2/1/2017 10:24:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00195	0.00250	0.002000	0	97.6	70	130			
Arsenic	0.00497	0.00500	0.005000	0	99.4	70	130			
Barium	0.00489	0.0100	0.005000	0	97.8	70	130			
Beryllium	0.00104	0.00100	0.001000	0	104	70	130			
Cadmium	0.00103	0.00100	0.001000	0	103	70	130			
Chromium	0.00542	0.00500	0.005000	0	108	70	130			
Lead	0.00102	0.00100	0.001000	0	102	70	130			
Nickel	0.00528	0.0100	0.005000	0	106	70	130			
Selenium	0.00512	0.00500	0.005000	0	102	70	130			
Silver	0.00204	0.00200	0.002000	0	102	70	130			

Sample ID **CCV1-170201** Batch ID: **R90267** TestNo: **SW1311/6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_170201A** Analysis Date: **2/1/2017 11:09:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.206	0.00250	0.2000	0	103	90	110			
Arsenic	0.207	0.00500	0.2000	0	104	90	110			
Barium	0.205	0.0100	0.2000	0	103	90	110			
Beryllium	0.206	0.00100	0.2000	0	103	90	110			
Cadmium	0.208	0.00100	0.2000	0	104	90	110			
Chromium	0.213	0.00500	0.2000	0	107	90	110			
Lead	0.207	0.00100	0.2000	0	104	90	110			
Nickel	0.209	0.0100	0.2000	0	105	90	110			
Selenium	0.203	0.00500	0.2000	0	102	90	110			
Silver	0.206	0.00200	0.2000	0	103	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170201A**

Sample ID	**LCVL1-170201**	Batch ID:	**R90267**	TestNo:	**SW1311/6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170201A**	Analysis Date:	**2/1/2017 11:16:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00204	0.00250	0.002000	0	102	70	130			
Arsenic	0.00508	0.00500	0.005000	0	102	70	130			
Barium	0.00487	0.0100	0.005000	0	97.4	70	130			
Beryllium	0.00116	0.00100	0.001000	0	116	70	130			
Cadmium	0.00107	0.00100	0.001000	0	107	70	130			
Chromium	0.00531	0.00500	0.005000	0	106	70	130			
Lead	0.00103	0.00100	0.001000	0	103	70	130			
Nickel	0.00514	0.0100	0.005000	0	103	70	130			
Selenium	0.00501	0.00500	0.005000	0	100	70	130			
Silver	0.00203	0.00200	0.002000	0	101	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_170201A**

The QC data in batch 78978 applies to the following samples: 1701263-01C, 1701263-02B

Sample ID **LCS-78978** Batch ID: **78978** TestNo: **SW1311/8270D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS9_170201A** Analysis Date: **2/1/2017 9:10:00 AM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	0.367	0.0400	0.4000	0	91.6	49	120			
2,4,6-Trichlorophenol	0.402	0.0400	0.4000	0	101	49	126			
2,4-Dinitrotoluene	0.355	0.0400	0.4000	0	88.6	51	120			
2-Methylphenol	0.354	0.0400	0.4000	0	88.6	38	120			
3&4-Methylphenol	0.346	0.0400	0.4000	0	86.6	32	120			
Hexachlorobenzene	0.369	0.0400	0.4000	0	92.2	52	120			
Hexachlorobutadiene	0.326	0.0400	0.4000	0	81.4	27	120			
Hexachloroethane	0.333	0.0400	0.4000	0	83.2	28	120			
Nitrobenzene	0.348	0.0400	0.4000	0	87.0	44	120			
Pentachlorophenol	0.335	0.0400	0.4000	0	83.8	38	120			
Pyridine	0.255	0.100	0.4000	0	63.8	20	120			
Surr: 2,4,6-Tribromophenol	0.722		0.8000		90.2	42	124			
Surr: 2-Fluorobiphenyl	0.690		0.8000		86.2	48	120			
Surr: 2-Fluorophenol	0.664		0.8000		83.0	20	120			
Surr: 4-Terphenyl-d14	0.626		0.8000		78.2	51	135			
Surr: Nitrobenzene-d5	0.624		0.8000		78.0	41	120			
Surr: Phenol-d5	0.654		0.8000		81.8	20	120			

Sample ID **1701263-02BMS** Batch ID: **78978** TestNo: **SW1311/8270D** Units: **mg/L**
SampType: **MS** Run ID: **GCMS9_170201A** Analysis Date: **2/1/2017 9:35:00 AM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	0.350	0.0396	0.3960	0	88.2	49	120			
2,4,6-Trichlorophenol	0.395	0.0396	0.3960	0	99.9	49	126			
2,4-Dinitrotoluene	0.339	0.0396	0.3960	0	85.6	51	120			
2-Methylphenol	0.377	0.0396	0.3960	0	95.2	38	120			
3&4-Methylphenol	0.369	0.0396	0.3960	0	93.2	32	120			
Hexachlorobenzene	0.361	0.0396	0.3960	0	91.2	52	120			
Hexachlorobutadiene	0.308	0.0396	0.3960	0	77.7	27	120			
Hexachloroethane	0.333	0.0396	0.3960	0	84.0	28	120			
Nitrobenzene	0.326	0.0396	0.3960	0	82.4	44	120			
Pentachlorophenol	0.324	0.0396	0.3960	0	81.9	38	120			
Pyridine	0.286	0.0990	0.3960	0	72.2	20	120			
Surr: 2,4,6-Tribromophenol	0.711		0.7921		89.8	42	124			
Surr: 2-Fluorobiphenyl	0.667		0.7921		84.2	48	120			
Surr: 2-Fluorophenol	0.673		0.7921		85.0	20	120			
Surr: 4-Terphenyl-d14	0.604		0.7921		76.2	51	135			
Surr: Nitrobenzene-d5	0.596		0.7921		75.2	41	120			
Surr: Phenol-d5	0.683		0.7921		86.2	20	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_170201A**

Sample ID **1701263-02BMSD** Batch ID: **78978** TestNo: **SW1311/8270D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS9_170201A** Analysis Date: **2/1/2017 10:00:00 AM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	0.341	0.0396	0.3960	0	86.0	49	120	2.58	20	
2,4,6-Trichlorophenol	0.388	0.0396	0.3960	0	98.0	49	126	1.87	20	
2,4-Dinitrotoluene	0.334	0.0396	0.3960	0	84.4	51	120	1.35	20	
2-Methylphenol	0.352	0.0396	0.3960	0	89.0	38	120	6.78	20	
3&4-Methylphenol	0.344	0.0396	0.3960	0	86.9	32	120	6.94	20	
Hexachlorobenzene	0.345	0.0396	0.3960	0	87.2	52	120	4.43	20	
Hexachlorobutadiene	0.310	0.0396	0.3960	0	78.2	27	120	0.577	20	
Hexachloroethane	0.326	0.0396	0.3960	0	82.4	28	120	1.92	20	
Nitrobenzene	0.322	0.0396	0.3960	0	81.4	44	120	1.16	20	
Pentachlorophenol	0.326	0.0396	0.3960	0	82.2	38	120	0.426	20	
Pyridine	0.266	0.0990	0.3960	0	67.2	20	120	7.25	20	
Surr: 2,4,6-Tribromophenol	0.915		0.7921		116	42	124	0	0	
Surr: 2-Fluorobiphenyl	0.877		0.7921		111	48	120	0	0	
Surr: 2-Fluorophenol	0.857		0.7921		108	20	120	0	0	
Surr: 4-Terphenyl-d14	0.762		0.7921		96.2	51	135	0	0	
Surr: Nitrobenzene-d5	0.784		0.7921		99.0	41	120	0	0	
Surr: Phenol-d5	0.818		0.7921		103	20	120	0	0	

Sample ID **MB-78978** Batch ID: **78978** TestNo: **SW1311/8270D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS9_170201A** Analysis Date: **2/1/2017 11:18:00 AM** Prep Date: **1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	<0.0100	0.0400								
2,4,6-Trichlorophenol	<0.0100	0.0400								
2,4-Dinitrotoluene	<0.0100	0.0400								
2-Methylphenol	<0.0100	0.0400								
3&4-Methylphenol	<0.0100	0.0400								
Hexachlorobenzene	<0.0100	0.0400								
Hexachlorobutadiene	<0.0100	0.0400								
Hexachloroethane	<0.0100	0.0400								
Nitrobenzene	<0.0200	0.0400								
Pentachlorophenol	<0.0200	0.0400								
Pyridine	<0.0400	0.100								
Surr: 2,4,6-Tribromophenol	0.592		0.8000		74.0	42	124			
Surr: 2-Fluorobiphenyl	0.646		0.8000		80.8	48	120			
Surr: 2-Fluorophenol	0.598		0.8000		74.8	20	120			
Surr: 4-Terphenyl-d14	0.544		0.8000		68.0	51	135			
Surr: Nitrobenzene-d5	0.546		0.8000		68.2	41	120			
Surr: Phenol-d5	0.608		0.8000		76.0	20	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_170201A**

Sample ID	**MB-78948-TCLP**	Batch ID:	**78978**	TestNo:	**SW1311/8270D**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**GCMS9_170201A**	Analysis Date:	**2/1/2017 11:48:00 AM**	Prep Date:	**1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	<0.00994	0.0398								
2,4,6-Trichlorophenol	<0.00994	0.0398								
2,4-Dinitrotoluene	<0.00994	0.0398								
2-Methylphenol	<0.00994	0.0398								
3&4-Methylphenol	<0.00994	0.0398								
Hexachlorobenzene	<0.00994	0.0398								
Hexachlorobutadiene	<0.00994	0.0398								
Hexachloroethane	<0.00994	0.0398								
Nitrobenzene	<0.0199	0.0398								
Pentachlorophenol	<0.0199	0.0398								
Pyridine	<0.0398	0.0994								
Surr: 2,4,6-Tribromophenol	0.628		0.7952		79.0	42	124			
Surr: 2-Fluorobiphenyl	0.596		0.7952		75.0	48	120			
Surr: 2-Fluorophenol	0.543		0.7952		68.2	20	120			
Surr: 4-Terphenyl-d14	0.531		0.7952		66.8	51	135			
Surr: Nitrobenzene-d5	0.501		0.7952		63.0	41	120			
Surr: Phenol-d5	0.541		0.7952		68.0	20	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_170201A**

Sample ID	**ICV-170201**	Batch ID:	**R90272**	TestNo:	**SW1311/8270D**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**GCMS9_170201A**	Analysis Date:	**2/1/2017 8:45:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	2.49	0.00400	2.500	0	99.8	80	120			
2,4,6-Trichlorophenol	2.63	0.00400	2.500	0	105	80	120			
2,4-Dinitrotoluene	2.61	0.00400	2.500	0	104	80	120			
2-Methylphenol	2.58	0.00400	2.500	0	103	80	120			
3&4-Methylphenol	2.53	0.00400	2.500	0	101	80	120			
Hexachlorobenzene	2.44	0.00400	2.500	0	97.6	80	120			
Hexachlorobutadiene	2.51	0.00400	2.500	0	101	80	120			
Hexachloroethane	2.62	0.00400	2.500	0	105	80	120			
Nitrobenzene	2.36	0.00400	2.500	0	94.2	80	120			
Pentachlorophenol	2.37	0.00400	2.500	0	95.0	80	120			
Pyridine	2.43	0.0100	2.500	0	97.1	80	120			
Surr: 2,4,6-Tribromophenol	2.84		2.500		114	80	120			
Surr: 2-Fluorobiphenyl	2.63		2.500		105	80	120			
Surr: 2-Fluorophenol	2.52		2.500		101	80	120			
Surr: 4-Terphenyl-d14	2.54		2.500		102	80	120			
Surr: Nitrobenzene-d5	2.41		2.500		96.4	80	120			
Surr: Phenol-d5	2.69		2.500		108	80	120			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS2_170203B**

The QC data in batch 79018 applies to the following samples: 1701263-01A

Sample ID **LCS-79018** Batch ID: **79018** TestNo: **SW8260C** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS2_170203B** Analysis Date: **2/3/2017 10:48:00 AM** Prep Date: **2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0234	0.00500	0.0232	0	101	65	136			
1,2-Dichloroethane	0.0234	0.00500	0.0232	0	101	72	137			
1,4-Dichlorobenzene	0.0228	0.00500	0.0232	0	98.4	72	125			
2-Butanone	0.246	0.0150	0.232	0	106	60	135			
Benzene	0.0235	0.00500	0.0232	0	101	73	126			
Carbon tetrachloride	0.0229	0.00500	0.0232	0	98.5	67	133			
Chlorobenzene	0.0233	0.00500	0.0232	0	101	75	123			
Chloroform	0.0233	0.00500	0.0232	0	100	72	124			
Tetrachloroethene	0.0234	0.00500	0.0232	0	101	67	139			
Trichloroethene	0.0241	0.00500	0.0232	0	104	77	124			
Vinyl chloride	0.0245	0.00500	0.0232	0	106	58	126			
Surr: 1,2-Dichloroethane-d4	49.8		50.00		99.6	52	149			
Surr: 4-Bromofluorobenzene	50.0		50.00		100	84	118			
Surr: Dibromofluoromethane	50.5		50.00		101	65	135			
Surr: Toluene-d8	48.6		50.00		97.1	84	116			

Sample ID **MB-79018** Batch ID: **79018** TestNo: **SW8260C** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS2_170203B** Analysis Date: **2/3/2017 11:46:00 AM** Prep Date: **2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	<0.00100	0.00500								
1,2-Dichloroethane	<0.00100	0.00500								
1,4-Dichlorobenzene	<0.00100	0.00500								
2-Butanone	<0.00500	0.0150								
Benzene	<0.00100	0.00500								
Carbon tetrachloride	<0.00100	0.00500								
Chlorobenzene	<0.00100	0.00500								
Chloroform	<0.00100	0.00500								
Tetrachloroethene	<0.00100	0.00500								
Trichloroethene	<0.00100	0.00500								
Vinyl chloride	<0.00100	0.00500								
Surr: 1,2-Dichloroethane-d4	51.1		50.00		102	52	149			
Surr: 4-Bromofluorobenzene	49.2		50.00		98.5	84	118			
Surr: Dibromofluoromethane	49.9		50.00		99.8	65	135			
Surr: Toluene-d8	47.9		50.00		95.8	84	116			

Sample ID **1701264-11AMS** Batch ID: **79018** TestNo: **SW8260C** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GCMS2_170203B** Analysis Date: **2/3/2017 5:05:00 PM** Prep Date: **2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS2_170203B**

Sample ID **1701264-11AMS**	Batch ID: **79018**	TestNo: **SW8260C**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GCMS2_170203B**	Analysis Date: **2/3/2017 5:05:00 PM**	Prep Date: **2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0309	0.00779	0.0361	0	85.6	65	136			
1,2-Dichloroethane	0.0314	0.00779	0.0361	0	86.8	72	137			
1,4-Dichlorobenzene	0.0197	0.00779	0.0361	0	54.7	72	125			S
2-Butanone	0.356	0.0234	0.361	0	98.6	60	135			
Benzene	0.0326	0.00779	0.0361	0	90.2	73	126			
Carbon tetrachloride	0.0269	0.00779	0.0361	0	74.4	67	133			
Chlorobenzene	0.0263	0.00779	0.0361	0	72.9	75	123			S
Chloroform	0.0310	0.00779	0.0361	0	85.8	72	124			
Tetrachloroethene	0.0225	0.00779	0.0361	0	62.2	67	139			S
Trichloroethene	0.0292	0.00779	0.0361	0	80.8	77	124			
Vinyl chloride	0.0353	0.00779	0.0361	0	97.8	58	126			
Surr: 1,2-Dichloroethane-d4	75.1		77.87		96.4	52	149			
Surr: 4-Bromofluorobenzene	81.8		77.87		105	84	118			
Surr: Dibromofluoromethane	74.8		77.87		96.1	65	135			
Surr: Toluene-d8	77.8		77.87		100	84	116			

Sample ID **1701264-11AMSD**	Batch ID: **79018**	TestNo: **SW8260C**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GCMS2_170203B**	Analysis Date: **2/3/2017 5:34:00 PM**	Prep Date: **2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0299	0.00730	0.0339	0	88.3	65	136	3.38	30	
1,2-Dichloroethane	0.0301	0.00730	0.0339	0	89.0	72	137	3.96	30	
1,4-Dichlorobenzene	0.0211	0.00730	0.0339	0	62.2	72	125	6.59	30	S
2-Butanone	0.321	0.0219	0.339	0	94.8	60	135	10.4	30	
Benzene	0.0311	0.00730	0.0339	0	91.6	73	126	4.79	30	
Carbon tetrachloride	0.0266	0.00730	0.0339	0	78.4	67	133	1.16	30	
Chlorobenzene	0.0265	0.00730	0.0339	0	78.1	75	123	0.558	30	
Chloroform	0.0304	0.00730	0.0339	0	89.7	72	124	1.89	30	
Tetrachloroethene	0.0240	0.00730	0.0339	0	70.8	67	139	6.44	30	
Trichloroethene	0.0291	0.00730	0.0339	0	85.9	77	124	0.254	30	
Vinyl chloride	0.0339	0.00730	0.0339	0	100	58	126	4.06	30	
Surr: 1,2-Dichloroethane-d4	68.8		73.03		94.3	52	149	0	0	
Surr: 4-Bromofluorobenzene	78.4		73.03		107	84	118	0	0	
Surr: Dibromofluoromethane	71.3		73.03		97.6	65	135	0	0	
Surr: Toluene-d8	72.7		73.03		99.6	84	116	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS2_170203B**

Sample ID	**ICV-170203**	Batch ID:	**R90311**	TestNo:	**SW8260C**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS2_170203B**	Analysis Date:	**2/3/2017 10:19:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0500	0.00500	0.0464	0	108	80	120			
1,2-Dichloroethane	0.0490	0.00500	0.0464	0	106	80	120			
1,4-Dichlorobenzene	0.0483	0.00500	0.0464	0	104	80	120			
2-Butanone	0.489	0.0150	0.464	0	105	80	120			
Benzene	0.0502	0.00500	0.0464	0	108	80	120			
Carbon tetrachloride	0.0503	0.00500	0.0464	0	108	80	120			
Chlorobenzene	0.0485	0.00500	0.0464	0	104	80	120			
Chloroform	0.0492	0.00500	0.0464	0	106	80	120			
Tetrachloroethene	0.0497	0.00500	0.0464	0	107	80	120			
Trichloroethene	0.0512	0.00500	0.0464	0	110	80	120			
Vinyl chloride	0.0529	0.00500	0.0464	0	114	80	120			
Surr: 1,2-Dichloroethane-d4	49.7		50.00		99.3	52	149			
Surr: 4-Bromofluorobenzene	50.6		50.00		101	84	118			
Surr: Dibromofluoromethane	50.9		50.00		102	65	135			
Surr: Toluene-d8	48.6		50.00		97.1	84	116			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **IGN_170201A**

The QC data in batch 78983 applies to the following samples: 1701263-01B, 1701263-02A

Sample ID	**LCS-78983**	Batch ID:	**78983**	TestNo:	**SW1010**	Units:	**°C**
SampType:	**LCS**	Run ID:	**IGN_170201A**	Analysis Date:	**2/1/2017 8:53:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ignitability	47.0	0	46.00	0	102	95	105			

Sample ID	**MB-78983**	Batch ID:	**78983**	TestNo:	**SW1010**	Units:	**°C**
SampType:	**MBLK**	Run ID:	**IGN_170201A**	Analysis Date:	**2/1/2017 8:53:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ignitability	>100	0								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **PH2_170131A**

The QC data in batch 78980 applies to the following samples: 1701263-01B, 1701263-02A

Sample ID	**1701262-01C-DUP**	Batch ID:	**78980**	TestNo:	**SW9045D**	Units:	**pH Units@21°C**
SampType:	**DUP**	Run ID:	**PH2_170131A**	Analysis Date:	**1/31/2017 2:13:00 PM**	Prep Date:	**1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.72	0	0	7.680				0.519	5	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: PH2_170131A

Sample ID	**ICV2-170131**	Batch ID:	**PH_S-1/31/17**	TestNo:	**SW9045D**	Units:	**pH Units@21.7°C**
SampType:	**ICV2**	Run ID:	**PH2_170131A**	Analysis Date:	**1/31/2017 2:13:00 PM**	Prep Date:	**1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	4.05	0	4.000	0	101	97.5	102.5			

Sample ID	**ICV3-170131**	Batch ID:	**PH_S-1/31/17**	TestNo:	**SW9045D**	Units:	**pH Units@21.8°C**
SampType:	**ICV3**	Run ID:	**PH2_170131A**	Analysis Date:	**1/31/2017 2:13:00 PM**	Prep Date:	**1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.07	0	7.000	0	101	98.5	101.4			

Sample ID	**SSCV-170131**	Batch ID:	**PH_S-1/31/17**	TestNo:	**SW9045D**	Units:	**pH Units@21.8°C**
SampType:	**ICV**	Run ID:	**PH2_170131A**	Analysis Date:	**1/31/2017 2:13:00 PM**	Prep Date:	**1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	6.98	0	7.000	0	99.7	99	101			

Sample ID	**CCV-170131**	Batch ID:	**PH_S-1/31/17**	TestNo:	**SW9045D**	Units:	**pH Units@22.1°C**
SampType:	**CCV**	Run ID:	**PH2_170131A**	Analysis Date:	**1/31/2017 2:13:00 PM**	Prep Date:	**1/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.01	0	7.000	0	100	97.1	102.9			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_170201A**

The QC data in batch 78993 applies to the following samples: 1701263-01C

Sample ID	**1702008-05A DUP**	Batch ID:	**78993**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_170201A**	Analysis Date:	**2/2/2017 8:15:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	27.1	0	0	27.36				0.984	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **UV/VIS_2_170203A**

Sample ID	**ICV-170203**	Batch ID:		TestNo:	**Sw846 Ch7.3**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**UV/VIS_2_170203A**	Analysis Date:	**2/3/2017 3:17:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Cyanide	0.100	0.100	0.1000	0	100	85	115			N

Sample ID	**CCV-170203**	Batch ID:		TestNo:	**Sw846 Ch7.3**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**UV/VIS_2_170203A**	Analysis Date:	**2/3/2017 3:25:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Cyanide	0.209	0.100	0.2000	0	105	85	115			N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **UV/VIS_2_170203A**

The QC data in batch 79024 applies to the following samples: 1701263-01B, 1701263-02A

Sample ID	**MB-79024**	Batch ID:	**79024**	TestNo:	**Sw846 Ch7.3**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**UV/VIS_2_170203A**	Analysis Date:	**2/3/2017 3:17:00 PM**	Prep Date:	**2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Cyanide	<0.100	0.200								N

Sample ID	**LCS-79024**	Batch ID:	**79024**	TestNo:	**Sw846 Ch7.3**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**UV/VIS_2_170203A**	Analysis Date:	**2/3/2017 3:23:00 PM**	Prep Date:	**2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Cyanide	2.12	0.200	40.00	0	5.29	1	10			N

Sample ID	**LCS-79024**	Batch ID:	**79024**	TestNo:	**Sw846 Ch7.3**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**UV/VIS_2_170203A**	Analysis Date:	**2/3/2017 3:23:00 PM**	Prep Date:	**2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Cyanide	1.15	0.200	40.00	0	2.87	1	10			N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **WC_170203C**

Sample ID	**ICV-170203**	Batch ID:		TestNo:	**Sw846 Ch7.3**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**WC_170203C**	Analysis Date:	**2/3/2017 12:49:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Sulfide	158	20.0	152.5	0	104	80	120			N

Sample ID	**CCV-170203**	Batch ID:		TestNo:	**Sw846 Ch7.3**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**WC_170203C**	Analysis Date:	**2/3/2017 2:48:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Sulfide	312	20.0	305.0	0	102	80	120			N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **WC_170203C**

The QC data in batch 79024 applies to the following samples: 1701263-01B, 1701263-02A

Sample ID	**MB-79024**	Batch ID:	**79024**	TestNo:	**Sw846 Ch7.3**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**WC_170203C**	Analysis Date:	**2/3/2017 12:55:00 PM**	Prep Date:	**2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Sulfide	<20.0	20.0								N

Sample ID	**LCS-79024**	Batch ID:	**79024**	TestNo:	**Sw846 Ch7.3**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**WC_170203C**	Analysis Date:	**2/3/2017 12:57:00 PM**	Prep Date:	**2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Sulfide	190	20.0	305.0	0	62.3	25	90			N

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

MQL SUMMARY REPORT

TestNo: TX1005	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
T/R Hydrocarbons: C6-C12	7.00	20.0
T/R Hydrocarbons: >C12-C28	7.00	20.0
T/R Hydrocarbons: >C28-C35	7.00	20.0
T/R Hydrocarbons: C6-C35	7.00	20.0

TestNo: SW8260C	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
1,1-Dichloroethene	0.00100	0.00500
1,2-Dichloroethane	0.00100	0.00500
1,4-Dichlorobenzene	0.00100	0.00500
2-Butanone	0.00500	0.0150
Benzene	0.00100	0.00500
Carbon tetrachloride	0.00100	0.00500
Chlorobenzene	0.00100	0.00500
Chloroform	0.00100	0.00500
Tetrachloroethene	0.00100	0.00500
Trichloroethene	0.00100	0.00500
Vinyl chloride	0.00100	0.00500

TestNo: SW1010	MDL	MQL
Analyte	**°C**	**°C**
Ignitability	0	0

TestNo: Sw846 Ch7.3	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Reactive Cyanide	0.100	0.200
Reactive Sulfide	20.0	20.0

TestNo: SW1311/7470A	MDL	MQL
Analyte	**mg/L**	**mg/L**
Mercury	0.000400	0.00100
Mercury	0.0000800	0.000200

TestNo: SW1311/6020A	MDL	MQL
Analyte	**mg/L**	**mg/L**
Antimony	0.00400	0.0125
Antimony	0.000800	0.00250
Arsenic	0.00200	0.00500
Arsenic	0.0100	0.0250
Barium	0.00300	0.0100
Barium	0.0150	0.0500
Beryllium	0.000300	0.00100
Beryllium	0.00150	0.00500
Cadmium	0.00150	0.00500
Cadmium	0.000300	0.00100
Chromium	0.0100	0.0250
Chromium	0.00200	0.00500
Lead	0.000300	0.00100
Lead	0.00150	0.00500
Nickel	0.00300	0.0100
Nickel	0.0150	0.0500
Selenium	0.00200	0.00500
Selenium	0.0100	0.0250
Silver	0.00500	0.0100
Silver	0.00100	0.00200

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

CLIENT: AECOM
Work Order: 1701263
Project: GLO/City of Galveston

MQL SUMMARY REPORT

TestNo: SW1311/8270D	MDL	MQL
Analyte	mg/L	mg/L
2,4,5-Trichlorophenol	0.0100	0.0400
2,4,5-Trichlorophenol	0.00994	0.0398
2,4,6-Trichlorophenol	0.00994	0.0398
2,4,6-Trichlorophenol	0.0100	0.0400
2,4-Dinitrotoluene	0.00994	0.0398
2,4-Dinitrotoluene	0.0100	0.0400
2-Methylphenol	0.00994	0.0398
2-Methylphenol	0.0100	0.0400
3&4-Methylphenol	0.0100	0.0400
3&4-Methylphenol	0.00994	0.0398
Hexachlorobenzene	0.0100	0.0400
Hexachlorobenzene	0.00994	0.0398
Hexachlorobutadiene	0.00994	0.0398
Hexachlorobutadiene	0.0100	0.0400
Hexachloroethane	0.00994	0.0398
Hexachloroethane	0.0100	0.0400
Nitrobenzene	0.0199	0.0398
Nitrobenzene	0.0200	0.0400
Pentachlorophenol	0.0199	0.0398
Pentachlorophenol	0.0200	0.0400
Pyridine	0.0400	0.100
Pyridine	0.0398	0.0994

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7470A - Mercury Analysis
Method SW8260C - Volatile Organics Analysis
Method SW8270D - Semivolatile Organics Analysis
Method M4500-H+ B - pH Analysis
Method SW1010 - Ignitability
Method SW846 Ch7.3 - Reactivity (Cyanide & Sulfide) (These parameters are not NELAC Certified)

LOG IN

The samples were received and log-in performed on 2/3/2017. A total of 1 sample was received and analyzed. The sample arrived in good condition and was properly packaged.

METALS ANALYSIS

For Metals Analysis, the recovery of Nickel for the Post Digestion Spike (1702043-107 PDS) was below the method control limits. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Serial Dilution. No further corrective action was taken.

For Metals Analysis, the response factor of Internal Standard Bismuth for Sample INC-IDWW-010 was below the method control limits, due to concentration of target analytes. The affected analyte, Lead, was reported from the 5x dilution. No further corrective action was taken.

For Metals Analysis, the response factor of Internal Standard Bismuth for the Post Digestion Spike , Matrix Spike and Matrix Spike Duplicate (1702043-17 PDS/MS/MSD) was below the method control limits, due to concentration of target analytes. The recovery of the affected analyte, Lead, was within method control limits in these Batch QC samples. The reference sample selected for the Batch QC was not from this workorder. No further corrective action was taken.

SEMIVOLATILES ANALYSIS

For Semivolatiles Analysis, the recovery of Benzo(a)anthracene for the Laboratory Control Spike (LCS-79046) was slightly below the method control limits. Additionally, the RPD of Pentachlorophenol for the Laboratory Control Spike Duplicate (LCSD-79046) was slightly above the method control limit. These are flagged accordingly in the QC Summary Report. These compounds were within method control limits in the associated ICV. No further corrective action was taken.

CASE NARRATIVE

For Semivolatiles Analysis, the recoveries of two compounds for the Initial Calibration Verification(s) (ICV-170207 and ICV2-170207) were slightly above of the method control limits specified in SW8270D (80-120% recovery). These are flagged accordingly in the QC Summary report. The number of target analytes outside of the method control limits for the ICV are less than 20% of the total number of compounds being reported; this is allowed in SW8270D specifications. These compounds were within method control limits in the associated LCS. No further corrective action was taken.

For Semivolatiles Analysis, Di-n-butyl phthalate was detected below the reporting limit for Method Blank-79046. This compound was nondetect in the associated sample. No further corrective action was taken.

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT: AECOM
Project: GLO/City of Galveston
Lab Order: 1702035

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1702035-01	INC-IDWW-010		02/02/17 03:40 PM	2/3/2017

DHL Analytical, Inc.

14-Feb-17

Lab Order: 1702035
Client: AECOM
Project: GLO/City of Galveston

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1702035-01A	INC-IDWW-010	02/02/17 03:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	02/06/17 08:25 AM	79044
	INC-IDWW-010	02/02/17 03:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	02/06/17 08:25 AM	79044
	INC-IDWW-010	02/02/17 03:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	02/06/17 08:25 AM	79044
	INC-IDWW-010	02/02/17 03:40 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	02/10/17 11:11 AM	79141
1702035-01B	INC-IDWW-010	02/02/17 03:40 PM	Aqueous	SW1010	Ignitibility Preparation	02/14/17 01:55 PM	79193
	INC-IDWW-010	02/02/17 03:40 PM	Aqueous	M4500-H+ B	pH Preparation	02/07/17 08:39 AM	79070
	INC-IDWW-010	02/02/17 03:40 PM	Aqueous	Reactivity	Reactivity Prep	02/03/17 09:02 AM	79024
	INC-IDWW-010	02/02/17 03:40 PM	Aqueous	Reactivity	Reactivity Prep	02/03/17 09:02 AM	79024
1702035-01C	INC-IDWW-010	02/02/17 03:40 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: BNA	02/06/17 02:00 PM	79046

DHL Analytical, Inc.

14-Feb-17

Lab Order: 1702035
Client: AECOM
Project: GLO/City of Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1702035-01A	INC-IDWW-010	Aqueous	SW7470A	Mercury Total: Aqueous	79141	1	02/13/17 12:12 PM	CETAC2_HG_170213B
	INC-IDWW-010	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	79044	1	02/07/17 02:37 PM	ICP-MS5_170207A
	INC-IDWW-010	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	79044	5	02/07/17 12:35 PM	ICP-MS4_170207A
	INC-IDWW-010	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	79044	1	02/07/17 11:21 AM	ICP-MS4_170207A
1702035-01B	INC-IDWW-010	Aqueous	SW1010A	Ignitability	79193	1	02/14/17 01:57 PM	IGN_170214A
	INC-IDWW-010	Aqueous	M4500-H+ B	pH	79070	1	02/07/17 11:28 AM	TITRATOR_170207A
	INC-IDWW-010	Aqueous	Sw846 Ch7.3	Reactivity (Cyanide & Sulfide)	79024	1	02/03/17 02:45 PM	WC_170203C
	INC-IDWW-010	Aqueous	Sw846 Ch7.3	Reactivity (Cyanide & Sulfide)	79024	2	02/03/17 03:25 PM	UV/VIS_2_170203A
1702035-01C	INC-IDWW-010	Aqueous	SW8270D	Semivolatiles by GC/MS - Water	79046	1	02/08/17 12:39 AM	GCMS9_170207A

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-IDWW-010
Project:	GLO/City of Galveston	**Lab ID:**	1702035-01
Project No:	60420789.3301	**Collection Date:**	02/02/17 03:40 PM
Lab Order:	1702035	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **RO**
Antimony	0.00419	0.000800	0.00250		mg/L	1	02/07/17 11:21 AM
Arsenic	0.0936	0.00200	0.00500		mg/L	1	02/07/17 11:21 AM
Barium	1.10	0.00300	0.0100		mg/L	1	02/07/17 11:21 AM
Beryllium	0.00367	0.000300	0.00100		mg/L	1	02/07/17 02:37 PM
Cadmium	0.00224	0.000300	0.00100		mg/L	1	02/07/17 11:21 AM
Chromium	0.101	0.00200	0.00500		mg/L	1	02/07/17 11:21 AM
Lead	0.649	0.00150	0.00500		mg/L	5	02/07/17 12:35 PM
Nickel	0.0760	0.00300	0.0100		mg/L	1	02/07/17 11:21 AM
Selenium	0.0109	0.00200	0.00500		mg/L	1	02/07/17 11:21 AM
Silver	0.00341	0.00100	0.00200		mg/L	1	02/07/17 11:21 AM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **RO**
Mercury	0.000181	0.0000800	0.000200	J	mg/L	1	02/13/17 12:12 PM
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
1,2,4-Trichlorobenzene	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
1,2-Dichlorobenzene	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
1,3-Dichlorobenzene	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
1,4-Dichlorobenzene	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
2,4,5-Trichlorophenol	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
2,4,6-Trichlorophenol	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
2,4-Dichlorophenol	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
2,4-Dimethylphenol	<0.00381	0.00381	0.00762		mg/L	1	02/08/17 12:39 AM
2,4-Dinitrophenol	<0.00952	0.00952	0.0381		mg/L	1	02/08/17 12:39 AM
2,4-Dinitrotoluene	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
2,6-Dichlorophenol	<0.00381	0.00381	0.00762		mg/L	1	02/08/17 12:39 AM
2,6-Dinitrotoluene	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
2-Chloronaphthalene	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
2-Chlorophenol	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
2-Methylnaphthalene	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
2-Methylphenol	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
2-Nitroaniline	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
2-Nitrophenol	<0.00381	0.00381	0.00762		mg/L	1	02/08/17 12:39 AM
3,3´-Dichlorobenzidine	<0.00381	0.00381	0.00762		mg/L	1	02/08/17 12:39 AM
3-Nitroaniline	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
4,6-Dinitro-2-methylphenol	<0.00476	0.00476	0.0190		mg/L	1	02/08/17 12:39 AM
4-Bromophenyl phenyl ether	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
4-Chloro-3-methylphenol	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
4-Chloroaniline	<0.00476	0.00476	0.0190		mg/L	1	02/08/17 12:39 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-IDWW-010
Project:	GLO/City of Galveston	**Lab ID:**	1702035-01
Project No:	60420789.3301	**Collection Date:**	02/02/17 03:40 PM
Lab Order:	1702035	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
4-Chlorophenyl phenyl ether	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
4-Methylphenol	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
4-Nitroaniline	<0.00381	0.00381	0.00762		mg/L	1	02/08/17 12:39 AM
4-Nitrophenol	<0.00952	0.00952	0.0381		mg/L	1	02/08/17 12:39 AM
Acenaphthene	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Acenaphthylene	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Aniline	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Anthracene	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Benzo[a]anthracene	<0.00381	0.00381	0.00762		mg/L	1	02/08/17 12:39 AM
Benzo[a]pyrene	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Benzo[b]fluoranthene	<0.00381	0.00381	0.00762		mg/L	1	02/08/17 12:39 AM
Benzo[g,h,i]perylene	<0.00381	0.00381	0.00762		mg/L	1	02/08/17 12:39 AM
Benzo[k]fluoranthene	<0.00381	0.00381	0.00762		mg/L	1	02/08/17 12:39 AM
Benzyl alcohol	<0.00476	0.00476	0.0190		mg/L	1	02/08/17 12:39 AM
Bis(2-chloroethoxy)methane	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Bis(2-chloroethyl)ether	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Bis(2-chloroisopropyl)ether	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Bis(2-ethylhexyl)phthalate	<0.00952	0.00952	0.0286		mg/L	1	02/08/17 12:39 AM
Butyl benzyl phthalate	<0.0190	0.0190	0.0571		mg/L	1	02/08/17 12:39 AM
Carbazole	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Chrysene	<0.00381	0.00381	0.00762		mg/L	1	02/08/17 12:39 AM
Dibenz[a,h]anthracene	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Dibenzofuran	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Diethyl phthalate	<0.0190	0.0190	0.0571		mg/L	1	02/08/17 12:39 AM
Dimethyl phthalate	<0.0190	0.0190	0.0571		mg/L	1	02/08/17 12:39 AM
Di-n-butyl phthalate	<0.0190	0.0190	0.0571		mg/L	1	02/08/17 12:39 AM
Di-n-octyl phthalate	<0.0190	0.0190	0.0571		mg/L	1	02/08/17 12:39 AM
Fluoranthene	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Fluorene	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Hexachlorobenzene	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Hexachlorobutadiene	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Hexachlorocyclopentadiene	<0.00476	0.00476	0.0190		mg/L	1	02/08/17 12:39 AM
Hexachloroethane	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Indeno[1,2,3-cd]pyrene	<0.00381	0.00381	0.00762		mg/L	1	02/08/17 12:39 AM
Isophorone	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Naphthalene	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Nitrobenzene	<0.00381	0.00381	0.00762		mg/L	1	02/08/17 12:39 AM
N-Nitrosodiethylamine	<0.00952	0.00952	0.0286		mg/L	1	02/08/17 12:39 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-IDWW-010
Project:	GLO/City of Galveston	**Lab ID:**	1702035-01
Project No:	60420789.3301	**Collection Date:**	02/02/17 03:40 PM
Lab Order:	1702035	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - WATER		**SW8270D**					Analyst: **DEW**
N-Nitrosodi-n-propylamine	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
N-Nitrosodiphenylamine	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Pentachlorophenol	<0.00381	0.00381	0.00762		mg/L	1	02/08/17 12:39 AM
Phenanthrene	<0.00190	0.00190	0.00762		mg/L	1	02/08/17 12:39 AM
Phenol	<0.00381	0.00381	0.00762		mg/L	1	02/08/17 12:39 AM
Pyrene	<0.00381	0.00381	0.00762		mg/L	1	02/08/17 12:39 AM
Surr: 2,4,6-Tribromophenol	64.8	0	42-124		%REC	1	02/08/17 12:39 AM
Surr: 2-Fluorobiphenyl	60.8	0	48-120		%REC	1	02/08/17 12:39 AM
Surr: 2-Fluorophenol	46.0	0	20-120		%REC	1	02/08/17 12:39 AM
Surr: 4-Terphenyl-d14	56.5	0	51-135		%REC	1	02/08/17 12:39 AM
Surr: Nitrobenzene-d5	52.8	0	41-120		%REC	1	02/08/17 12:39 AM
Surr: Phenol-d5	28.0	0	20-120		%REC	1	02/08/17 12:39 AM
IGNITABILITY		**SW1010A**					Analyst: **AJH**
Ignitability	>100	0	0		°C	1	02/14/17 01:57 PM
PH		**M4500-H+ B**					Analyst: **BTJ**
pH	7.48	0	0		pH Units@21.5°C	1	02/07/17 11:28 AM
REACTIVITY (CYANIDE & SULFIDE)		**SW846 CH7.3**					Analyst: **JL**
Reactive Cyanide	<0.0962	0.0962	0.192	N	mg/Kg	2	02/03/17 03:25 PM
Reactive Sulfide	<19.2	19.2	19.2	N	mg/Kg	1	02/03/17 02:45 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *14-Feb-17*

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170213B**

The QC data in batch 79141 applies to the following samples: 1702035-01A

Sample ID **MB-79141** Batch ID: **79141** TestNo: **SW7470A** Units: **mg/L**
SampType: **MBLK** Run ID: **CETAC2_HG_170213** Analysis Date: **2/13/2017 11:22:10 AM** Prep Date: **2/10/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0000800	0.000200								

Sample ID **LCS-79141** Batch ID: **79141** TestNo: **SW7470A** Units: **mg/L**
SampType: **LCS** Run ID: **CETAC2_HG_170213** Analysis Date: **2/13/2017 11:24:26 AM** Prep Date: **2/10/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00210	0.000200	0.00200	0	105	85	115			

Sample ID **LCSD-79141** Batch ID: **79141** TestNo: **SW7470A** Units: **mg/L**
SampType: **LCSD** Run ID: **CETAC2_HG_170213** Analysis Date: **2/13/2017 11:26:42 AM** Prep Date: **2/10/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00203	0.000200	0.00200	0	102	85	115	3.39	15	

Sample ID **1702034-13A SD** Batch ID: **79141** TestNo: **SW7470A** Units: **mg/L**
SampType: **SD** Run ID: **CETAC2_HG_170213** Analysis Date: **2/13/2017 11:31:15 AM** Prep Date: **2/10/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.000400	0.00100	0	0				0	10	

Sample ID **1702034-13A PDS** Batch ID: **79141** TestNo: **SW7470A** Units: **mg/L**
SampType: **PDS** Run ID: **CETAC2_HG_170213** Analysis Date: **2/13/2017 11:33:31 AM** Prep Date: **2/10/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00215	0.000200	0.00250	0	86.0	85	115			

Sample ID **1702034-13A MS** Batch ID: **79141** TestNo: **SW7470A** Units: **mg/L**
SampType: **MS** Run ID: **CETAC2_HG_170213** Analysis Date: **2/13/2017 11:35:48 AM** Prep Date: **2/10/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00191	0.000200	0.00200	0	95.5	80	120			

Sample ID **1702034-13A MSD** Batch ID: **79141** TestNo: **SW7470A** Units: **mg/L**
SampType: **MSD** Run ID: **CETAC2_HG_170213** Analysis Date: **2/13/2017 11:38:04 AM** Prep Date: **2/10/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00189	0.000200	0.00200	0	94.5	80	120	1.05	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170213B**

Sample ID	**ICV-170213**	Batch ID:	**R90464**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**CETAC2_HG_170213**	Analysis Date:	**2/13/2017 10:14:23 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00405	0.000200	0.00400	0	101	90	110			

Sample ID	**CCV2-170213**	Batch ID:	**R90464**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170213**	Analysis Date:	**2/13/2017 11:17:35 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00201	0.000200	0.00200	0	101	90	110			

Sample ID	**CCV3-170213**	Batch ID:	**R90464**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170213**	Analysis Date:	**2/13/2017 12:00:53 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00200	0.000200	0.00200	0	100	90	110			

Sample ID	**CCV4-170213**	Batch ID:	**R90464**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170213**	Analysis Date:	**2/13/2017 12:26:05 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00200	0.000200	0.00200	0	100	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170207A**

The QC data in batch 79044 applies to the following samples: 1702035-01A

Sample ID **MB-79044** Batch ID: **79044** TestNo: **SW6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS4_170207A** Analysis Date: **2/7/2017 11:09:00 AM** Prep Date: **2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.000800	0.00250								
Arsenic	<0.00200	0.00500								
Barium	<0.00300	0.0100								
Cadmium	<0.000300	0.00100								
Chromium	<0.00200	0.00500								
Lead	<0.000300	0.00100								
Nickel	<0.00300	0.0100								
Selenium	<0.00200	0.00500								
Silver	<0.00100	0.00200								

Sample ID **LCS-79044** Batch ID: **79044** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS4_170207A** Analysis Date: **2/7/2017 11:11:00 AM** Prep Date: **2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.209	0.00250	0.200	0	105	80	120			
Arsenic	0.199	0.00500	0.200	0	99.5	80	120			
Barium	0.208	0.0100	0.200	0	104	80	120			
Cadmium	0.208	0.00100	0.200	0	104	80	120			
Chromium	0.211	0.00500	0.200	0	106	80	120			
Lead	0.212	0.00100	0.200	0	106	80	120			
Nickel	0.204	0.0100	0.200	0	102	80	120			
Selenium	0.190	0.00500	0.200	0	95.1	80	120			
Silver	0.213	0.00200	0.200	0	106	80	120			

Sample ID **LCSD-79044** Batch ID: **79044** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS4_170207A** Analysis Date: **2/7/2017 11:13:00 AM** Prep Date: **2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.210	0.00250	0.200	0	105	80	120	0.206	15	
Arsenic	0.200	0.00500	0.200	0	100	80	120	0.603	15	
Barium	0.207	0.0100	0.200	0	103	80	120	0.324	15	
Cadmium	0.208	0.00100	0.200	0	104	80	120	0.010	15	
Chromium	0.213	0.00500	0.200	0	107	80	120	1.07	15	
Lead	0.213	0.00100	0.200	0	106	80	120	0.147	15	
Nickel	0.206	0.0100	0.200	0	103	80	120	0.857	15	
Selenium	0.192	0.00500	0.200	0	96.1	80	120	1.07	15	
Silver	0.213	0.00200	0.200	0	106	80	120	0.063	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170207A**

Sample ID **1702043-17B SD** Batch ID: **79044** TestNo: **SW6020A** Units: **mg/L**
SampType: **SD** Run ID: **ICP-MS4_170207A** Analysis Date: **2/7/2017 11:19:00 AM** Prep Date: **2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.00400	0.0125	0	0				0	10	
Arsenic	<0.0100	0.0250	0	0.00202				0	10	
Barium	<0.0150	0.0500	0	0.00831				0	10	
Cadmium	0.00334	0.00500	0	0.00327				2.12	10	
Chromium	<0.0100	0.0250	0	0.00336				0	10	
Lead	0.0448	0.00500	0	0.0439				2.11	10	
Nickel	0.291	0.0500	0	0.284				2.51	10	
Selenium	<0.0100	0.0250	0	0.00284				0	10	
Silver	<0.00500	0.0100	0	0				0	10	

Sample ID **1702043-17B PDS** Batch ID: **79044** TestNo: **SW6020A** Units: **mg/L**
SampType: **PDS** Run ID: **ICP-MS4_170207A** Analysis Date: **2/7/2017 11:39:00 AM** Prep Date: **2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.194	0.00250	0.200	0	96.8	80	120			
Arsenic	0.201	0.00500	0.200	0.00202	99.4	80	120			
Barium	0.195	0.0100	0.200	0.00831	93.2	80	120			
Cadmium	0.198	0.00100	0.200	0.00327	97.4	80	120			
Chromium	0.203	0.00500	0.200	0.00336	99.9	80	120			
Lead	0.242	0.00100	0.200	0.0439	99.2	80	120			
Nickel	0.435	0.0100	0.200	0.284	75.4	80	120			S
Selenium	0.189	0.00500	0.200	0.00284	93.0	80	120			
Silver	0.187	0.00200	0.200	0	93.7	80	120			

Sample ID **1702043-17B MS** Batch ID: **79044** TestNo: **SW6020A** Units: **mg/L**
SampType: **MS** Run ID: **ICP-MS4_170207A** Analysis Date: **2/7/2017 11:41:00 AM** Prep Date: **2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.210	0.00250	0.200	0	105	80	120			
Arsenic	0.211	0.00500	0.200	0.00202	104	80	120			
Barium	0.204	0.0100	0.200	0.00831	97.9	80	120			
Cadmium	0.205	0.00100	0.200	0.00327	101	80	120			
Chromium	0.205	0.00500	0.200	0.00336	101	80	120			
Lead	0.256	0.00100	0.200	0.0439	106	80	120			
Nickel	0.463	0.0100	0.200	0.284	89.5	80	120			
Selenium	0.200	0.00500	0.200	0.00284	98.6	80	120			
Silver	0.195	0.00200	0.200	0	97.3	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170207A**

Sample ID	**1702043-17B MSD**	Batch ID:	**79044**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**ICP-MS4_170207A**	Analysis Date:	**2/7/2017 11:43:00 AM**	Prep Date:	**2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.210	0.00250	0.200	0	105	80	120	0.152	15	
Arsenic	0.210	0.00500	0.200	0.00202	104	80	120	0.130	15	
Barium	0.207	0.0100	0.200	0.00831	99.4	80	120	1.46	15	
Cadmium	0.208	0.00100	0.200	0.00327	102	80	120	1.24	15	
Chromium	0.206	0.00500	0.200	0.00336	101	80	120	0.450	15	
Lead	0.255	0.00100	0.200	0.0439	105	80	120	0.363	15	
Nickel	0.456	0.0100	0.200	0.284	86.2	80	120	1.41	15	
Selenium	0.200	0.00500	0.200	0.00284	98.5	80	120	0.131	15	
Silver	0.196	0.00200	0.200	0	98.2	80	120	0.925	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170207A**

Sample ID **ICV-170207** Batch ID: **R90358** TestNo: **SW6020A** Units: **mg/L**
SampType: **ICV** Run ID: **ICP-MS4_170207A** Analysis Date: **2/7/2017 10:18:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.0999	0.00250	0.100	0	99.9	90	110			
Arsenic	0.0987	0.00500	0.100	0	98.7	90	110			
Barium	0.0988	0.0100	0.100	0	98.8	90	110			
Cadmium	0.0993	0.00100	0.100	0	99.3	90	110			
Chromium	0.105	0.00500	0.100	0	105	90	110			
Lead	0.102	0.00100	0.100	0	102	90	110			
Nickel	0.102	0.0100	0.100	0	102	90	110			
Selenium	0.0963	0.00500	0.100	0	96.3	90	110			
Silver	0.103	0.00200	0.100	0	103	90	110			

Sample ID **LCVL-170207** Batch ID: **R90358** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170207A** Analysis Date: **2/7/2017 10:23:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00200	0.00250	0.00200	0	99.8	70	130			
Arsenic	0.00496	0.00500	0.00500	0	99.3	70	130			
Barium	0.00492	0.0100	0.00500	0	98.5	70	130			
Cadmium	0.00104	0.00100	0.00100	0	104	70	130			
Chromium	0.00499	0.00500	0.00500	0	99.8	70	130			
Lead	0.00102	0.00100	0.00100	0	102	70	130			
Nickel	0.00508	0.0100	0.00500	0	102	70	130			
Selenium	0.00484	0.00500	0.00500	0	96.8	70	130			
Silver	0.00199	0.00200	0.00200	0	99.6	70	130			

Sample ID **CCV1-170207** Batch ID: **R90358** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_170207A** Analysis Date: **2/7/2017 10:59:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.203	0.00250	0.200	0	102	90	110			
Arsenic	0.194	0.00500	0.200	0	96.9	90	110			
Barium	0.201	0.0100	0.200	0	101	90	110			
Cadmium	0.203	0.00100	0.200	0	102	90	110			
Chromium	0.208	0.00500	0.200	0	104	90	110			
Lead	0.203	0.00100	0.200	0	102	90	110			
Nickel	0.200	0.0100	0.200	0	99.9	90	110			
Selenium	0.186	0.00500	0.200	0	92.8	90	110			
Silver	0.207	0.00200	0.200	0	103	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170207A**

Sample ID **LCVL1-170207** Batch ID: **R90358** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170207A** Analysis Date: **2/7/2017 11:05:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00203	0.00250	0.00200	0	102	70	130			
Arsenic	0.00484	0.00500	0.00500	0	96.8	70	130			
Barium	0.00494	0.0100	0.00500	0	98.8	70	130			
Cadmium	0.000966	0.00100	0.00100	0	96.6	70	130			
Chromium	0.00498	0.00500	0.00500	0	99.5	70	130			
Lead	0.00106	0.00100	0.00100	0	106	70	130			
Nickel	0.00501	0.0100	0.00500	0	100	70	130			
Selenium	0.00483	0.00500	0.00500	0	96.6	70	130			
Silver	0.00207	0.00200	0.00200	0	104	70	130			

Sample ID **CCV2-170207** Batch ID: **R90358** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_170207A** Analysis Date: **2/7/2017 11:47:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.205	0.00250	0.200	0	102	90	110			
Arsenic	0.198	0.00500	0.200	0	99.1	90	110			
Barium	0.199	0.0100	0.200	0	99.3	90	110			
Cadmium	0.202	0.00100	0.200	0	101	90	110			
Chromium	0.207	0.00500	0.200	0	103	90	110			
Lead	0.206	0.00100	0.200	0	103	90	110			
Nickel	0.190	0.0100	0.200	0	95.0	90	110			
Selenium	0.187	0.00500	0.200	0	93.3	90	110			
Silver	0.204	0.00200	0.200	0	102	90	110			

Sample ID **LCVL2-170207** Batch ID: **R90358** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170207A** Analysis Date: **2/7/2017 11:52:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00203	0.00250	0.00200	0	102	70	130			
Arsenic	0.00504	0.00500	0.00500	0	101	70	130			
Barium	0.00480	0.0100	0.00500	0	96.0	70	130			
Cadmium	0.000990	0.00100	0.00100	0	99.0	70	130			
Chromium	0.00488	0.00500	0.00500	0	97.5	70	130			
Lead	0.00105	0.00100	0.00100	0	105	70	130			
Nickel	0.00473	0.0100	0.00500	0	94.7	70	130			
Selenium	0.00488	0.00500	0.00500	0	97.6	70	130			
Silver	0.00195	0.00200	0.00200	0	97.4	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170207A**

Sample ID	**CCV3-170207**	Batch ID:	**R90358**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_170207A**	Analysis Date:	**2/7/2017 12:16:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.209	0.00100	0.200	0	104	90	110			

Sample ID	**LCVL3-170207**	Batch ID:	**R90358**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170207A**	Analysis Date:	**2/7/2017 12:27:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.00103	0.00100	0.00100	0	103	70	130			

Sample ID	**CCV4-170207**	Batch ID:	**R90358**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_170207A**	Analysis Date:	**2/7/2017 12:37:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.207	0.00100	0.200	0	103	90	110			

Sample ID	**LCVL4-170207**	Batch ID:	**R90358**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170207A**	Analysis Date:	**2/7/2017 12:44:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.00105	0.00100	0.00100	0	105	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170207A**

The QC data in batch 79044 applies to the following samples: 1702035-01A

Sample ID	**MB-79044**	Batch ID:	**79044**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 2:28:00 PM**	Prep Date:	**2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	<0.000300	0.00100								

Sample ID	**LCS-79044**	Batch ID:	**79044**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 2:30:00 PM**	Prep Date:	**2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.204	0.00100	0.200	0	102	80	120			

Sample ID	**LCSD-79044**	Batch ID:	**79044**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 2:32:00 PM**	Prep Date:	**2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.206	0.00100	0.200	0	103	80	120	0.778	15	

Sample ID	**1702043-17B SD**	Batch ID:	**79044**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**SD**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 2:36:00 PM**	Prep Date:	**2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	<0.00150	0.00500	0	0.000332				0	10	

Sample ID	**1702043-17B PDS**	Batch ID:	**79044**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**PDS**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 2:39:00 PM**	Prep Date:	**2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.185	0.00100	0.200	0.000332	92.4	80	120			

Sample ID	**1702043-17B MS**	Batch ID:	**79044**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 2:41:00 PM**	Prep Date:	**2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.192	0.00100	0.200	0.000332	96.0	80	120			

Sample ID	**1702043-17B MSD**	Batch ID:	**79044**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 2:43:00 PM**	Prep Date:	**2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.196	0.00100	0.200	0.000332	97.7	80	120	1.68	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170207A**

Sample ID	**ICV-170207**	Batch ID:	**R90363**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 9:59:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.0952	0.00100	0.100	0	95.2	90	110			

Sample ID	**LCVL-170207**	Batch ID:	**R90363**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 10:02:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.000950	0.00100	0.00100	0	95.0	70	130			

Sample ID	**CCV7-170207**	Batch ID:	**R90363**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 2:12:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.195	0.00100	0.200	0	97.6	90	110			

Sample ID	**LCVL7-170207**	Batch ID:	**R90363**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 2:16:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.000950	0.00100	0.00100	0	95.0	70	130			

Sample ID	**CCV8-170207**	Batch ID:	**R90363**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 2:44:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.191	0.00100	0.200	0	95.4	90	110			

Sample ID	**LCVL8-170207**	Batch ID:	**R90363**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS5_170207A**	Analysis Date:	**2/7/2017 2:48:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.00103	0.00100	0.00100	0	103	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_170207A**

The QC data in batch 79046 applies to the following samples: 1702035-01C

Sample ID	**LCS-79046**	Batch ID:	**79046**	TestNo:	**SW8270D**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**GCMS9_170207A**	Analysis Date:	**2/7/2017 10:04:00 AM**	Prep Date:	**2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.0270	0.000800	0.0400	0	67.6	37	120			
1,2-Dichlorobenzene	0.0263	0.000800	0.0400	0	65.8	33	120			
1,3-Dichlorobenzene	0.0264	0.000800	0.0400	0	66.1	32	120			
1,4-Dichlorobenzene	0.0261	0.000800	0.0400	0	65.3	32	120			
2,4,5-Trichlorophenol	0.0299	0.000800	0.0400	0	74.8	49	120			
2,4,6-Trichlorophenol	0.0322	0.000800	0.0400	0	80.5	49	126			
2,4-Dichlorophenol	0.0301	0.000800	0.0400	0	75.2	48	120			
2,4-Dimethylphenol	0.0284	0.000800	0.0400	0	71.0	28	120			
2,4-Dinitrophenol	0.0355	0.00400	0.0400	0	88.6	25	130			
2,4-Dinitrotoluene	0.0306	0.000800	0.0400	0	76.5	51	120			
2,6-Dichlorophenol	0.0303	0.000800	0.0400	0	75.8	35	120			
2,6-Dinitrotoluene	0.0310	0.000800	0.0400	0	77.4	49	120			
2-Chloronaphthalene	0.0292	0.000800	0.0400	0	73.0	49	120			
2-Chlorophenol	0.0289	0.000800	0.0400	0	72.3	37	120			
2-Methylnaphthalene	0.0268	0.000800	0.0400	0	67.0	46	120			
2-Methylphenol	0.0271	0.000800	0.0400	0	67.8	38	120			
2-Nitroaniline	0.0306	0.000800	0.0400	0	76.5	48	120			
2-Nitrophenol	0.0378	0.000800	0.0400	0	94.4	39	123			
3,3´-Dichlorobenzidine	0.0325	0.000800	0.0400	0	81.2	20	120			
3-Nitroaniline	0.0299	0.000800	0.0400	0	74.8	20	126			
4,6-Dinitro-2-methylphenol	0.0426	0.00200	0.0400	0	106	40	130			
4-Bromophenyl phenyl ether	0.0295	0.000800	0.0400	0	73.7	52	120			
4-Chloro-3-methylphenol	0.0268	0.000800	0.0400	0	67.0	47	120			
4-Chloroaniline	0.0202	0.00200	0.0400	0	50.4	20	120			
4-Chlorophenyl phenyl ether	0.0274	0.000800	0.0400	0	68.5	50	120			
4-Methylphenol	0.0253	0.000800	0.0400	0	63.2	32	120			
4-Nitroaniline	0.0273	0.000800	0.0400	0	68.3	36	120			
4-Nitrophenol	0.0239	0.00400	0.0400	0	59.7	20	120			
Acenaphthene	0.0284	0.000800	0.0400	0	71.0	47	120			
Acenaphthylene	0.0296	0.000800	0.0400	0	74.1	60	120			
Aniline	0.00876	0.000800	0.0400	0	21.9	10	140			
Anthracene	0.0294	0.000800	0.0400	0	73.5	54	120			
Benzo[a]anthracene	0.0263	0.000800	0.0400	0	65.8	68	118			S
Benzo[a]pyrene	0.0277	0.000800	0.0400	0	69.3	53	120			
Benzo[b]fluoranthene	0.0299	0.000800	0.0400	0	74.7	45	124			
Benzo[g,h,i]perylene	0.0289	0.000800	0.0400	0	72.2	38	123			
Benzo[k]fluoranthene	0.0317	0.000800	0.0400	0	79.2	45	124			
Benzyl alcohol	0.0245	0.00200	0.0400	0	61.4	30	120			
Bis(2-chloroethoxy)methane	0.0271	0.000800	0.0400	0	67.8	46	120			
Bis(2-chloroethyl)ether	0.0267	0.000800	0.0400	0	66.8	37	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_170207A**

Sample ID **LCS-79046**	Batch ID: **79046**	TestNo: **SW8270D**	Units: **mg/L**
SampType: **LCS**	Run ID: **GCMS9_170207A**	Analysis Date: **2/7/2017 10:04:00 AM**	Prep Date: **2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	0.0250	0.000800	0.0400	0	62.6	26	131			
Bis(2-ethylhexyl)phthalate	0.0288	0.00300	0.0400	0	72.1	42	126			
Butyl benzyl phthalate	0.0303	0.00600	0.0400	0	75.7	46	120			
Carbazole	0.0308	0.000800	0.0400	0	77.0	26	125			
Chrysene	0.0278	0.000800	0.0400	0	69.5	55	120			
Dibenz[a,h]anthracene	0.0295	0.000800	0.0400	0	73.8	42	127			
Dibenzofuran	0.0281	0.000800	0.0400	0	70.2	54	120			
Diethyl phthalate	0.0269	0.00600	0.0400	0	67.4	41	120			
Dimethyl phthalate	0.0279	0.00600	0.0400	0	69.6	25	127			
Di-n-butyl phthalate	0.0321	0.00600	0.0400	0	80.2	54	120			
Di-n-octyl phthalate	0.0291	0.00600	0.0400	0	72.9	37	137			
Fluoranthene	0.0323	0.000800	0.0400	0	80.7	54	120			
Fluorene	0.0281	0.000800	0.0400	0	70.2	50	120			
Hexachlorobenzene	0.0285	0.000800	0.0400	0	71.3	52	120			
Hexachlorobutadiene	0.0273	0.000800	0.0400	0	68.3	27	120			
Hexachlorocyclopentadiene	0.0305	0.00200	0.0400	0	76.2	41	125			
Hexachloroethane	0.0281	0.000800	0.0400	0	70.2	28	120			
Indeno[1,2,3-cd]pyrene	0.0276	0.000800	0.0400	0	68.9	43	125			
Isophorone	0.0277	0.000800	0.0400	0	69.2	50	120			
Naphthalene	0.0254	0.000800	0.0400	0	63.6	39	120			
Nitrobenzene	0.0270	0.000800	0.0400	0	67.4	44	120			
N-Nitrosodiethylamine	0.0250	0.00300	0.0400	0	62.4	35	120			
N-Nitrosodi-n-propylamine	0.0274	0.000800	0.0400	0	68.4	34	128			
N-Nitrosodiphenylamine	0.0285	0.000800	0.0400	0	71.3	48	120			
Pentachlorophenol	0.0302	0.000800	0.0400	0	75.5	38	120			
Phenanthrene	0.0287	0.000800	0.0400	0	71.7	51	120			
Phenol	0.0193	0.000800	0.0400	0	48.2	20	120			
Pyrene	0.0263	0.000800	0.0400	0	65.7	49	128			
Surr: 2,4,6-Tribromophenol	59.8		80.00		74.8	42	124			
Surr: 2-Fluorobiphenyl	54.0		80.00		67.5	48	120			
Surr: 2-Fluorophenol	42.6		80.00		53.2	20	120			
Surr: 4-Terphenyl-d14	44.6		80.00		55.8	51	135			
Surr: Nitrobenzene-d5	47.2		80.00		59.0	41	120			
Surr: Phenol-d5	32.8		80.00		41.0	20	120			

Sample ID **MB-79046**	Batch ID: **79046**	TestNo: **SW8270D**	Units: **mg/L**
SampType: **MBLK**	Run ID: **GCMS9_170207A**	Analysis Date: **2/7/2017 11:17:00 AM**	Prep Date: **2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	<0.000200	0.000800								
1,2-Dichlorobenzene	<0.000200	0.000800								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_170207A**

Sample ID	**MB-79046**	Batch ID:	**79046**	TestNo:	**SW8270D**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**GCMS9_170207A**	Analysis Date:	**2/7/2017 11:17:00 AM**	Prep Date:	**2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	<0.000200	0.000800								
1,4-Dichlorobenzene	<0.000200	0.000800								
2,4,5-Trichlorophenol	<0.000200	0.000800								
2,4,6-Trichlorophenol	<0.000200	0.000800								
2,4-Dichlorophenol	<0.000200	0.000800								
2,4-Dimethylphenol	<0.000400	0.000800								
2,4-Dinitrophenol	<0.00100	0.00400								
2,4-Dinitrotoluene	<0.000200	0.000800								
2,6-Dichlorophenol	<0.000400	0.000800								
2,6-Dinitrotoluene	<0.000200	0.000800								
2-Chloronaphthalene	<0.000200	0.000800								
2-Chlorophenol	<0.000200	0.000800								
2-Methylnaphthalene	<0.000200	0.000800								
2-Methylphenol	<0.000200	0.000800								
2-Nitroaniline	<0.000200	0.000800								
2-Nitrophenol	<0.000400	0.000800								
3,3´-Dichlorobenzidine	<0.000400	0.000800								
3-Nitroaniline	<0.000200	0.000800								
4,6-Dinitro-2-methylphenol	<0.000500	0.00200								
4-Bromophenyl phenyl ether	<0.000200	0.000800								
4-Chloro-3-methylphenol	<0.000200	0.000800								
4-Chloroaniline	<0.000500	0.00200								
4-Chlorophenyl phenyl ether	<0.000200	0.000800								
4-Methylphenol	<0.000200	0.000800								
4-Nitroaniline	<0.000400	0.000800								
4-Nitrophenol	<0.00100	0.00400								
Acenaphthene	<0.000200	0.000800								
Acenaphthylene	<0.000200	0.000800								
Aniline	<0.000200	0.000800								
Anthracene	<0.000200	0.000800								
Benzo[a]anthracene	<0.000400	0.000800								
Benzo[a]pyrene	<0.000200	0.000800								
Benzo[b]fluoranthene	<0.000400	0.000800								
Benzo[g,h,i]perylene	<0.000400	0.000800								
Benzo[k]fluoranthene	<0.000400	0.000800								
Benzyl alcohol	<0.000500	0.00200								
Bis(2-chloroethoxy)methane	<0.000200	0.000800								
Bis(2-chloroethyl)ether	<0.000200	0.000800								
Bis(2-chloroisopropyl)ether	<0.000200	0.000800								
Bis(2-ethylhexyl)phthalate	<0.00100	0.00300								
Butyl benzyl phthalate	<0.00200	0.00600								

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_170207A**

Sample ID **MB-79046**	Batch ID: **79046**	TestNo: **SW8270D**	Units: **mg/L**
SampType: **MBLK**	Run ID: **GCMS9_170207A**	Analysis Date: **2/7/2017 11:17:00 AM**	Prep Date: **2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Carbazole	<0.000200	0.000800								
Chrysene	<0.000400	0.000800								
Dibenz[a,h]anthracene	<0.000200	0.000800								
Dibenzofuran	<0.000200	0.000800								
Diethyl phthalate	<0.00200	0.00600								
Dimethyl phthalate	<0.00200	0.00600								
Di-n-butyl phthalate	0.00254	0.00600								
Di-n-octyl phthalate	<0.00200	0.00600								
Fluoranthene	<0.000200	0.000800								
Fluorene	<0.000200	0.000800								
Hexachlorobenzene	<0.000200	0.000800								
Hexachlorobutadiene	<0.000200	0.000800								
Hexachlorocyclopentadiene	<0.000500	0.00200								
Hexachloroethane	<0.000200	0.000800								
Indeno[1,2,3-cd]pyrene	<0.000400	0.000800								
Isophorone	<0.000200	0.000800								
Naphthalene	<0.000200	0.000800								
Nitrobenzene	<0.000400	0.000800								
N-Nitrosodiethylamine	<0.00100	0.00300								
N-Nitrosodi-n-propylamine	<0.000200	0.000800								
N-Nitrosodiphenylamine	<0.000200	0.000800								
Pentachlorophenol	<0.000400	0.000800								
Phenanthrene	<0.000200	0.000800								
Phenol	<0.000400	0.000800								
Pyrene	<0.000400	0.000800								
Surr: 2,4,6-Tribromophenol	57.4		80.00		71.8	42	124			
Surr: 2-Fluorobiphenyl	62.4		80.00		78.0	48	120			
Surr: 2-Fluorophenol	38.4		80.00		48.0	20	120			
Surr: 4-Terphenyl-d14	51.8		80.00		64.8	51	135			
Surr: Nitrobenzene-d5	54.0		80.00		67.5	41	120			
Surr: Phenol-d5	27.0		80.00		33.8	20	120			

Sample ID **LCSD-79046**	Batch ID: **79046**	TestNo: **SW8270D**	Units: **mg/L**
SampType: **LCSD**	Run ID: **GCMS9_170207A**	Analysis Date: **2/7/2017 3:19:00 PM**	Prep Date: **2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.0316	0.000800	0.0400	0	79.1	37	120	15.7	20	
1,2-Dichlorobenzene	0.0299	0.000800	0.0400	0	74.7	33	120	12.5	20	
1,3-Dichlorobenzene	0.0304	0.000800	0.0400	0	75.9	32	120	13.8	20	
1,4-Dichlorobenzene	0.0302	0.000800	0.0400	0	75.4	32	120	14.4	20	
2,4,5-Trichlorophenol	0.0343	0.000800	0.0400	0	85.9	49	120	13.8	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_170207A**

Sample ID	**LCSD-79046**	Batch ID:	**79046**	TestNo:	**SW8270D**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**GCMS9_170207A**	Analysis Date:	**2/7/2017 3:19:00 PM**	Prep Date:	**2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,6-Trichlorophenol	0.0370	0.000800	0.0400	0	92.4	49	126	13.8	20	
2,4-Dichlorophenol	0.0331	0.000800	0.0400	0	82.6	48	120	9.37	20	
2,4-Dimethylphenol	0.0308	0.000800	0.0400	0	77.0	28	120	8.04	20	
2,4-Dinitrophenol	0.0413	0.00400	0.0400	0	103	25	130	15.3	20	
2,4-Dinitrotoluene	0.0330	0.000800	0.0400	0	82.5	51	120	7.61	20	
2,6-Dichlorophenol	0.0331	0.000800	0.0400	0	82.7	35	120	8.77	20	
2,6-Dinitrotoluene	0.0333	0.000800	0.0400	0	83.3	49	120	7.28	20	
2-Chloronaphthalene	0.0332	0.000800	0.0400	0	83.0	49	120	12.9	20	
2-Chlorophenol	0.0343	0.000800	0.0400	0	85.9	37	120	17.1	20	
2-Methylnaphthalene	0.0288	0.000800	0.0400	0	72.0	46	120	7.27	20	
2-Methylphenol	0.0290	0.000800	0.0400	0	72.6	38	120	6.84	20	
2-Nitroaniline	0.0322	0.000800	0.0400	0	80.4	48	120	4.97	20	
2-Nitrophenol	0.0409	0.000800	0.0400	0	102	39	123	7.98	20	
3,3´-Dichlorobenzidine	0.0354	0.000800	0.0400	0	88.6	20	120	8.78	20	
3-Nitroaniline	0.0322	0.000800	0.0400	0	80.4	20	126	7.28	20	
4,6-Dinitro-2-methylphenol	0.0437	0.00200	0.0400	0	109	40	130	2.69	20	
4-Bromophenyl phenyl ether	0.0324	0.000800	0.0400	0	81.1	52	120	9.56	20	
4-Chloro-3-methylphenol	0.0284	0.000800	0.0400	0	71.0	47	120	5.73	20	
4-Chloroaniline	0.0214	0.00200	0.0400	0	53.5	20	120	5.97	20	
4-Chlorophenyl phenyl ether	0.0310	0.000800	0.0400	0	77.4	50	120	12.2	20	
4-Methylphenol	0.0275	0.000800	0.0400	0	68.7	32	120	8.34	20	
4-Nitroaniline	0.0305	0.000800	0.0400	0	76.3	36	120	11.1	20	
4-Nitrophenol	0.0291	0.00400	0.0400	0	72.6	20	120	19.6	20	
Acenaphthene	0.0323	0.000800	0.0400	0	80.6	47	120	12.7	20	
Acenaphthylene	0.0334	0.000800	0.0400	0	83.4	60	120	11.9	20	
Aniline	0.00944	0.000800	0.0400	0	23.6	10	140	7.47	20	
Anthracene	0.0318	0.000800	0.0400	0	79.6	54	120	7.97	20	
Benzo[a]anthracene	0.0295	0.000800	0.0400	0	73.9	68	118	11.6	20	
Benzo[a]pyrene	0.0314	0.000800	0.0400	0	78.6	53	120	12.6	20	
Benzo[b]fluoranthene	0.0351	0.000800	0.0400	0	87.9	45	124	16.2	20	
Benzo[g,h,i]perylene	0.0334	0.000800	0.0400	0	83.5	38	123	14.5	20	
Benzo[k]fluoranthene	0.0340	0.000800	0.0400	0	85.0	45	124	7.01	20	
Benzyl alcohol	0.0280	0.00200	0.0400	0	70.0	30	120	13.2	20	
Bis(2-chloroethoxy)methane	0.0293	0.000800	0.0400	0	73.3	46	120	7.80	20	
Bis(2-chloroethyl)ether	0.0308	0.000800	0.0400	0	77.0	37	120	14.2	20	
Bis(2-chloroisopropyl)ether	0.0280	0.000800	0.0400	0	70.1	26	131	11.4	20	
Bis(2-ethylhexyl)phthalate	0.0327	0.00300	0.0400	0	81.8	42	126	12.7	20	
Butyl benzyl phthalate	0.0330	0.00600	0.0400	0	82.6	46	120	8.72	20	
Carbazole	0.0338	0.000800	0.0400	0	84.6	26	125	9.28	20	
Chrysene	0.0307	0.000800	0.0400	0	76.8	55	120	9.99	20	
Dibenz[a,h]anthracene	0.0340	0.000800	0.0400	0	85.0	42	127	14.2	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_170207A**

Sample ID **LCSD-79046** Batch ID: **79046** TestNo: **SW8270D** Units: **mg/L**
SampType: **LCSD** Run ID: **GCMS9_170207A** Analysis Date: **2/7/2017 3:19:00 PM** Prep Date: **2/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dibenzofuran	0.0317	0.000800	0.0400	0	79.2	54	120	12.1	20	
Diethyl phthalate	0.0310	0.00600	0.0400	0	77.4	41	120	14.0	20	
Dimethyl phthalate	0.0314	0.00600	0.0400	0	78.6	25	127	12.1	20	
Di-n-butyl phthalate	0.0352	0.00600	0.0400	0	88.0	54	120	9.34	20	
Di-n-octyl phthalate	0.0328	0.00600	0.0400	0	82.0	37	137	11.8	20	
Fluoranthene	0.0359	0.000800	0.0400	0	89.8	54	120	10.7	20	
Fluorene	0.0317	0.000800	0.0400	0	79.4	50	120	12.2	20	
Hexachlorobenzene	0.0317	0.000800	0.0400	0	79.2	52	120	10.5	20	
Hexachlorobutadiene	0.0319	0.000800	0.0400	0	79.9	27	120	15.6	20	
Hexachlorocyclopentadiene	0.0313	0.00200	0.0400	0	78.4	41	125	2.78	20	
Hexachloroethane	0.0318	0.000800	0.0400	0	79.4	28	120	12.4	20	
Indeno[1,2,3-cd]pyrene	0.0317	0.000800	0.0400	0	79.2	43	125	14.0	20	
Isophorone	0.0296	0.000800	0.0400	0	74.0	50	120	6.71	20	
Naphthalene	0.0289	0.000800	0.0400	0	72.2	39	120	12.7	20	
Nitrobenzene	0.0309	0.000800	0.0400	0	77.3	44	120	13.6	20	
N-Nitrosodiethylamine	0.0293	0.00300	0.0400	0	73.2	35	120	15.9	20	
N-Nitrosodi-n-propylamine	0.0281	0.000800	0.0400	0	70.2	34	128	2.60	20	
N-Nitrosodiphenylamine	0.0315	0.000800	0.0400	0	78.7	48	120	9.80	20	
Pentachlorophenol	0.0374	0.000800	0.0400	0	93.5	38	120	21.3	20	R
Phenanthrene	0.0318	0.000800	0.0400	0	79.4	51	120	10.3	20	
Phenol	0.0227	0.000800	0.0400	0	56.8	20	120	16.4	20	
Pyrene	0.0287	0.000800	0.0400	0	71.8	49	128	8.88	20	
Surr: 2,4,6-Tribromophenol	65.4		80.00		81.8	42	124	0	0	
Surr: 2-Fluorobiphenyl	61.0		80.00		76.2	48	120	0	0	
Surr: 2-Fluorophenol	52.2		80.00		65.2	20	120	0	0	
Surr: 4-Terphenyl-d14	49.6		80.00		62.0	51	135	0	0	
Surr: Nitrobenzene-d5	53.0		80.00		66.2	41	120	0	0	
Surr: Phenol-d5	37.8		80.00		47.2	20	120	0	0	

Sample ID **SB-170207** Batch ID: **79046** TestNo: **SW8270D** Units: **mg/L**
SampType: **SBLK** Run ID: **GCMS9_170207A** Analysis Date: **2/7/2017 5:24:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	<0.000200	0.000800	0							
1,2-Dichlorobenzene	<0.000200	0.000800	0							
1,3-Dichlorobenzene	<0.000200	0.000800	0							
1,4-Dichlorobenzene	<0.000200	0.000800	0							
2,4,5-Trichlorophenol	<0.000200	0.000800	0							
2,4,6-Trichlorophenol	<0.000200	0.000800	0							
2,4-Dichlorophenol	<0.000200	0.000800	0							
2,4-Dimethylphenol	<0.000400	0.000800	0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_170207A**

Sample ID	**SB-170207**	Batch ID:	**79046**	TestNo:	**SW8270D**	Units:	**mg/L**
SampType:	**SBLK**	Run ID:	**GCMS9_170207A**	Analysis Date:	**2/7/2017 5:24:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-Dinitrophenol	<0.00100	0.00400	0							
2,4-Dinitrotoluene	<0.000200	0.000800	0							
2,6-Dichlorophenol	<0.000400	0.000800	0							
2,6-Dinitrotoluene	<0.000200	0.000800	0							
2-Chloronaphthalene	<0.000200	0.000800	0							
2-Chlorophenol	<0.000200	0.000800	0							
2-Methylnaphthalene	<0.000200	0.000800	0							
2-Methylphenol	<0.000200	0.000800	0							
2-Nitroaniline	<0.000200	0.000800	0							
2-Nitrophenol	<0.000400	0.000800	0							
3,3´-Dichlorobenzidine	<0.000400	0.000800	0							
3-Nitroaniline	<0.000200	0.000800	0							
4,6-Dinitro-2-methylphenol	<0.000500	0.00200	0							
4-Bromophenyl phenyl ether	<0.000200	0.000800	0							
4-Chloro-3-methylphenol	<0.000200	0.000800	0							
4-Chloroaniline	<0.000500	0.00200	0							
4-Chlorophenyl phenyl ether	<0.000200	0.000800	0							
4-Methylphenol	<0.000200	0.000800	0							
4-Nitroaniline	<0.000400	0.000800	0							
4-Nitrophenol	<0.00100	0.00400	0							
Acenaphthene	<0.000200	0.000800	0							
Acenaphthylene	<0.000200	0.000800	0							
Aniline	<0.000200	0.000800	0							
Anthracene	<0.000200	0.000800	0							
Benzo[a]anthracene	<0.000400	0.000800	0							
Benzo[a]pyrene	<0.000200	0.000800	0							
Benzo[b]fluoranthene	<0.000400	0.000800	0							
Benzo[g,h,i]perylene	<0.000400	0.000800	0							
Benzo[k]fluoranthene	<0.000400	0.000800	0							
Benzyl alcohol	<0.000500	0.00200	0							
Bis(2-chloroethoxy)methane	<0.000200	0.000800	0							
Bis(2-chloroethyl)ether	<0.000200	0.000800	0							
Bis(2-chloroisopropyl)ether	<0.000200	0.000800	0							
Bis(2-ethylhexyl)phthalate	<0.00100	0.00300	0							
Butyl benzyl phthalate	<0.00200	0.00600	0							
Carbazole	<0.000200	0.000800	0							
Chrysene	<0.000400	0.000800	0							
Dibenz[a,h]anthracene	<0.000200	0.000800	0							
Dibenzofuran	<0.000200	0.000800	0							
Diethyl phthalate	<0.00200	0.00600	0							
Dimethyl phthalate	<0.00200	0.00600	0							

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_170207A**

Sample ID	**SB-170207**	Batch ID:	**79046**	TestNo:	**SW8270D**	Units:	**mg/L**
SampType:	**SBLK**	Run ID:	**GCMS9_170207A**	Analysis Date:	**2/7/2017 5:24:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Di-n-butyl phthalate	<0.00200	0.00600	0							
Di-n-octyl phthalate	<0.00200	0.00600	0							
Fluoranthene	<0.000200	0.000800	0							
Fluorene	<0.000200	0.000800	0							
Hexachlorobenzene	<0.000200	0.000800	0							
Hexachlorobutadiene	<0.000200	0.000800	0							
Hexachlorocyclopentadiene	<0.000500	0.00200	0							
Hexachloroethane	<0.000200	0.000800	0							
Indeno[1,2,3-cd]pyrene	<0.000400	0.000800	0							
Isophorone	<0.000200	0.000800	0							
Naphthalene	<0.000200	0.000800	0							
Nitrobenzene	<0.000400	0.000800	0							
N-Nitrosodiethylamine	<0.00100	0.00300	0							
N-Nitrosodi-n-propylamine	<0.000200	0.000800	0							
N-Nitrosodiphenylamine	<0.000200	0.000800	0							
Pentachlorophenol	<0.000400	0.000800	0							
Phenanthrene	<0.000200	0.000800	0							
Phenol	<0.000400	0.000800	0							
Pyrene	<0.000400	0.000800	0							
Surr: 2,4,6-Tribromophenol	68.4		0							
Surr: 2-Fluorobiphenyl	67.2		0							
Surr: 2-Fluorophenol	64.8		0							
Surr: 4-Terphenyl-d14	57.6		0							
Surr: Nitrobenzene-d5	58.8		0							
Surr: Phenol-d5	66.8		0							

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_170207A**

Sample ID **ICV-170207**	Batch ID: **R90360**	TestNo: **SW8270D**	Units: **mg/L**
SampType: **ICV**	Run ID: **GCMS9_170207A**	Analysis Date: **2/7/2017 9:40:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	2.50	0.000800	2.50	0	100	80	120			
1,2-Dichlorobenzene	2.49	0.000800	2.50	0	99.8	80	120			
1,3-Dichlorobenzene	2.48	0.000800	2.50	0	99.1	80	120			
1,4-Dichlorobenzene	2.45	0.000800	2.50	0	97.9	80	120			
2,4,5-Trichlorophenol	2.56	0.000800	2.50	0	103	80	120			
2,4,6-Trichlorophenol	2.63	0.000800	2.50	0	105	80	120			
2,4-Dichlorophenol	2.74	0.000800	2.50	0	110	80	120			
2,4-Dimethylphenol	2.66	0.000800	2.50	0	106	80	120			
2,4-Dinitrophenol	3.36	0.00400	2.50	0	135	80	120			S
2,4-Dinitrotoluene	2.66	0.000800	2.50	0	106	80	120			
2,6-Dichlorophenol	2.74	0.000800	2.50	0	110	80	120			
2,6-Dinitrotoluene	2.63	0.000800	2.50	0	105	80	120			
2-Chloronaphthalene	2.50	0.000800	2.50	0	100	80	120			
2-Chlorophenol	2.67	0.000800	2.50	0	107	80	120			
2-Methylnaphthalene	2.46	0.000800	2.50	0	98.3	80	120			
2-Methylphenol	2.70	0.000800	2.50	0	108	80	120			
2-Nitroaniline	2.63	0.000800	2.50	0	105	80	120			
2-Nitrophenol	2.88	0.000800	2.50	0	115	80	120			
3,3´-Dichlorobenzidine	2.70	0.000800	2.50	0	108	80	120			
3-Nitroaniline	2.70	0.000800	2.50	0	108	80	120			
4,6-Dinitro-2-methylphenol	3.37	0.00200	2.50	0	135	80	120			S
4-Bromophenyl phenyl ether	2.51	0.000800	2.50	0	100	80	120			
4-Chloro-3-methylphenol	2.56	0.000800	2.50	0	102	80	120			
4-Chloroaniline	2.53	0.00200	2.50	0	101	80	120			
4-Chlorophenyl phenyl ether	2.47	0.000800	2.50	0	98.9	80	120			
4-Methylphenol	2.62	0.000800	2.50	0	105	80	120			
4-Nitroaniline	2.65	0.000800	2.50	0	106	80	120			
4-Nitrophenol	2.63	0.00400	2.50	0	105	80	120			
Acenaphthene	2.42	0.000800	2.50	0	96.9	80	120			
Acenaphthylene	2.58	0.000800	2.50	0	103	80	120			
Aniline	2.69	0.000800	2.50	0	108	80	120			
Anthracene	2.45	0.000800	2.50	0	98.1	80	120			
Benzo[a]anthracene	2.32	0.000800	2.50	0	93.0	80	120			
Benzo[a]pyrene	2.57	0.000800	2.50	0	103	80	120			
Benzo[b]fluoranthene	2.67	0.000800	2.50	0	107	80	120			
Benzo[g,h,i]perylene	2.60	0.000800	2.50	0	104	80	120			
Benzo[k]fluoranthene	2.72	0.000800	2.50	0	109	80	120			
Benzyl alcohol	2.83	0.00200	2.50	0	113	80	120			
Bis(2-chloroethoxy)methane	2.38	0.000800	2.50	0	95.4	80	120			
Bis(2-chloroethyl)ether	2.59	0.000800	2.50	0	104	80	120			
Bis(2-chloroisopropyl)ether	2.30	0.000800	2.50	0	92.0	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_170207A**

Sample ID **ICV-170207** Batch ID: **R90360** TestNo: **SW8270D** Units: **mg/L**
SampType: **ICV** Run ID: **GCMS9_170207A** Analysis Date: **2/7/2017 9:40:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl)phthalate	2.50	0.00300	2.50	0	99.9	80	120			
Butyl benzyl phthalate	2.51	0.00600	2.50	0	100	80	120			
Carbazole	2.55	0.000800	2.50	0	102	80	120			
Chrysene	2.40	0.000800	2.50	0	96.0	80	120			
Dibenz[a,h]anthracene	2.59	0.000800	2.50	0	104	80	120			
Dibenzofuran	2.45	0.000800	2.50	0	98.1	80	120			
Diethyl phthalate	2.47	0.00600	2.50	0	99.0	80	120			
Dimethyl phthalate	2.48	0.00600	2.50	0	99.1	80	120			
Di-n-butyl phthalate	2.60	0.00600	2.50	0	104	80	120			
Di-n-octyl phthalate	2.56	0.00600	2.50	0	103	80	120			
Fluoranthene	2.62	0.000800	2.50	0	105	80	120			
Fluorene	2.47	0.000800	2.50	0	98.9	80	120			
Hexachlorobenzene	2.49	0.000800	2.50	0	99.6	80	120			
Hexachlorobutadiene	2.62	0.000800	2.50	0	105	80	120			
Hexachlorocyclopentadiene	2.99	0.00200	2.50	0	120	80	120			
Hexachloroethane	2.65	0.000800	2.50	0	106	80	120			
Indeno[1,2,3-cd]pyrene	2.42	0.000800	2.50	0	96.8	80	120			
Isophorone	2.42	0.000800	2.50	0	96.8	80	120			
Naphthalene	2.26	0.000800	2.50	0	90.4	80	120			
Nitrobenzene	2.40	0.000800	2.50	0	95.8	80	120			
N-Nitrosodiethylamine	2.96	0.00300	2.50	0	118	80	120			
N-Nitrosodi-n-propylamine	2.49	0.000800	2.50	0	99.6	80	120			
N-Nitrosodiphenylamine	2.43	0.000800	2.50	0	97.2	80	120			
Pentachlorophenol	2.56	0.000800	2.50	0	102	80	120			
Phenanthrene	2.38	0.000800	2.50	0	95.2	80	120			
Phenol	2.92	0.000800	2.50	0	117	80	120			
Pyrene	2.35	0.000800	2.50	0	94.1	80	120			
Surr: 2,4,6-Tribromophenol	2640		2500		106	80	120			
Surr: 2-Fluorobiphenyl	2440		2500		97.6	80	120			
Surr: 2-Fluorophenol	2400		2500		96.0	80	120			
Surr: 4-Terphenyl-d14	2320		2500		92.8	80	120			
Surr: Nitrobenzene-d5	2250		2500		90.0	80	120			
Surr: Phenol-d5	2610		2500		104	80	120			

Sample ID **ICV2-170207** Batch ID: **R90360** TestNo: **SW8270D** Units: **mg/L**
SampType: **ICV** Run ID: **GCMS9_170207A** Analysis Date: **2/7/2017 2:55:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	2.52	0.000800	2.50	0	101	80	120			
1,2-Dichlorobenzene	2.41	0.000800	2.50	0	96.4	80	120			
1,3-Dichlorobenzene	2.47	0.000800	2.50	0	98.9	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_170207A**

Sample ID	**ICV2-170207**	Batch ID:	**R90360**	TestNo:	**SW8270D**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**GCMS9_170207A**	Analysis Date:	**2/7/2017 2:55:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	2.39	0.000800	2.50	0	95.4	80	120			
2,4,5-Trichlorophenol	2.58	0.000800	2.50	0	103	80	120			
2,4,6-Trichlorophenol	2.69	0.000800	2.50	0	108	80	120			
2,4-Dichlorophenol	2.66	0.000800	2.50	0	107	80	120			
2,4-Dimethylphenol	2.54	0.000800	2.50	0	102	80	120			
2,4-Dinitrophenol	3.23	0.00400	2.50	0	129	80	120			S
2,4-Dinitrotoluene	2.68	0.000800	2.50	0	107	80	120			
2,6-Dichlorophenol	2.66	0.000800	2.50	0	106	80	120			
2,6-Dinitrotoluene	2.57	0.000800	2.50	0	103	80	120			
2-Chloronaphthalene	2.47	0.000800	2.50	0	98.9	80	120			
2-Chlorophenol	2.69	0.000800	2.50	0	108	80	120			
2-Methylnaphthalene	2.34	0.000800	2.50	0	93.5	80	120			
2-Methylphenol	2.50	0.000800	2.50	0	99.9	80	120			
2-Nitroaniline	2.56	0.000800	2.50	0	102	80	120			
2-Nitrophenol	2.82	0.000800	2.50	0	113	80	120			
3,3´-Dichlorobenzidine	2.66	0.000800	2.50	0	106	80	120			
3-Nitroaniline	2.73	0.000800	2.50	0	109	80	120			
4,6-Dinitro-2-methylphenol	3.17	0.00200	2.50	0	127	80	120			S
4-Bromophenyl phenyl ether	2.49	0.000800	2.50	0	99.5	80	120			
4-Chloro-3-methylphenol	2.44	0.000800	2.50	0	97.8	80	120			
4-Chloroaniline	2.45	0.00200	2.50	0	97.9	80	120			
4-Chlorophenyl phenyl ether	2.54	0.000800	2.50	0	101	80	120			
4-Methylphenol	2.44	0.000800	2.50	0	97.5	80	120			
4-Nitroaniline	2.72	0.000800	2.50	0	109	80	120			
4-Nitrophenol	2.84	0.00400	2.50	0	114	80	120			
Acenaphthene	2.42	0.000800	2.50	0	96.8	80	120			
Acenaphthylene	2.56	0.000800	2.50	0	102	80	120			
Aniline	2.58	0.000800	2.50	0	103	80	120			
Anthracene	2.46	0.000800	2.50	0	98.4	80	120			
Benzo[a]anthracene	2.30	0.000800	2.50	0	92.1	80	120			
Benzo[a]pyrene	2.60	0.000800	2.50	0	104	80	120			
Benzo[b]fluoranthene	2.81	0.000800	2.50	0	112	80	120			
Benzo[g,h,i]perylene	2.60	0.000800	2.50	0	104	80	120			
Benzo[k]fluoranthene	2.58	0.000800	2.50	0	103	80	120			
Benzyl alcohol	2.74	0.00200	2.50	0	109	80	120			
Bis(2-chloroethoxy)methane	2.27	0.000800	2.50	0	90.8	80	120			
Bis(2-chloroethyl)ether	2.46	0.000800	2.50	0	98.4	80	120			
Bis(2-chloroisopropyl)ether	2.18	0.000800	2.50	0	87.3	80	120			
Bis(2-ethylhexyl)phthalate	2.48	0.00300	2.50	0	99.2	80	120			
Butyl benzyl phthalate	2.49	0.00600	2.50	0	99.6	80	120			
Carbazole	2.56	0.000800	2.50	0	103	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_170207A**

Sample ID **ICV2-170207**	Batch ID: **R90360**	TestNo: **SW8270D**	Units: **mg/L**
SampType: **ICV**	Run ID: **GCMS9_170207A**	Analysis Date: **2/7/2017 2:55:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chrysene	2.38	0.000800	2.50	0	95.0	80	120			
Dibenz[a,h]anthracene	2.61	0.000800	2.50	0	104	80	120			
Dibenzofuran	2.47	0.000800	2.50	0	98.7	80	120			
Diethyl phthalate	2.61	0.00600	2.50	0	104	80	120			
Dimethyl phthalate	2.54	0.00600	2.50	0	102	80	120			
Di-n-butyl phthalate	2.63	0.00600	2.50	0	105	80	120			
Di-n-octyl phthalate	2.56	0.00600	2.50	0	102	80	120			
Fluoranthene	2.68	0.000800	2.50	0	107	80	120			
Fluorene	2.53	0.000800	2.50	0	101	80	120			
Hexachlorobenzene	2.44	0.000800	2.50	0	97.8	80	120			
Hexachlorobutadiene	2.67	0.000800	2.50	0	107	80	120			
Hexachlorocyclopentadiene	2.86	0.00200	2.50	0	115	80	120			
Hexachloroethane	2.65	0.000800	2.50	0	106	80	120			
Indeno[1,2,3-cd]pyrene	2.44	0.000800	2.50	0	97.4	80	120			
Isophorone	2.26	0.000800	2.50	0	90.2	80	120			
Naphthalene	2.24	0.000800	2.50	0	89.5	80	120			
Nitrobenzene	2.35	0.000800	2.50	0	93.9	80	120			
N-Nitrosodiethylamine	2.79	0.00300	2.50	0	112	80	120			
N-Nitrosodi-n-propylamine	2.22	0.000800	2.50	0	88.9	80	120			
N-Nitrosodiphenylamine	2.42	0.000800	2.50	0	96.7	80	120			
Pentachlorophenol	2.77	0.000800	2.50	0	111	80	120			
Phenanthrene	2.39	0.000800	2.50	0	95.7	80	120			
Phenol	2.85	0.000800	2.50	0	114	80	120			
Pyrene	2.31	0.000800	2.50	0	92.2	80	120			
Surr: 2,4,6-Tribromophenol	2700		2500		108	80	120			
Surr: 2-Fluorobiphenyl	2420		2500		96.8	80	120			
Surr: 2-Fluorophenol	2420		2500		96.8	80	120			
Surr: 4-Terphenyl-d14	2280		2500		91.2	80	120			
Surr: Nitrobenzene-d5	2180		2500		87.2	80	120			
Surr: Phenol-d5	2550		2500		102	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **IGN_170214A**

The QC data in batch 79193 applies to the following samples: 1702035-01B

Sample ID	**LCS-79193**	Batch ID:	**79193**	TestNo:	**SW1010A**	Units:	**°C**
SampType:	**LCS**	Run ID:	**IGN_170214A**	Analysis Date:	**2/14/2017 1:57:00 PM**	Prep Date:	**2/14/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ignitability	47.2	0	46.00	0	103	95	105			

Sample ID	**MB-79193**	Batch ID:	**79193**	TestNo:	**SW1010A**	Units:	**°C**
SampType:	**MBLK**	Run ID:	**IGN_170214A**	Analysis Date:	**2/14/2017 1:57:00 PM**	Prep Date:	**2/14/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ignitability	>100	0								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **TITRATOR_170207A**

The QC data in batch 79070 applies to the following samples: 1702035-01B

Sample ID	**1702035-01B-DUP**	Batch ID:	**79070**	TestNo:	**M4500-H+ B**	Units:	**pH Units@21.6°C**
SampType:	**DUP**	Run ID:	**TITRATOR_170207A**	Analysis Date:	**2/7/2017 11:30:00 AM**	Prep Date:	**2/7/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.50	0	0	7.480				0.267	5	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **TITRATOR_170207A**

Sample ID	**ICV2-170207**	Batch ID:	**R90361**	TestNo:	**M4500-H+ B**	Units:	**pH Units@22°C**
SampType:	**ICV2**	Run ID:	**TITRATOR_170207A**	Analysis Date:	**2/7/2017 10:03:00 AM**	Prep Date:	**2/7/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.01	0	7.000	0	100	98.5	101.4			

Sample ID	**ICV-170207**	Batch ID:	**R90361**	TestNo:	**M4500-H+ B**	Units:	**pH Units@22°C**
SampType:	**ICV**	Run ID:	**TITRATOR_170207A**	Analysis Date:	**2/7/2017 10:06:00 AM**	Prep Date:	**2/7/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	9.93	0	10.00	0	99.3	99	101			

Sample ID	**CCV1-170207**	Batch ID:	**R90361**	TestNo:	**M4500-H+ B**	Units:	**pH Units@22.2°C**
SampType:	**CCV**	Run ID:	**TITRATOR_170207A**	Analysis Date:	**2/7/2017 11:31:00 AM**	Prep Date:	**2/7/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	6.98	0	7.000	0	99.7	97.1	102.9			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **UV/VIS_2_170203A**

Sample ID	**ICV-170203**	Batch ID:		TestNo:	**Sw846 Ch7.3**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**UV/VIS_2_170203A**	Analysis Date:	**2/3/2017 3:17:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Cyanide	0.100	0.100	0.1000	0	100	85	115			N

Sample ID	**CCV-170203**	Batch ID:		TestNo:	**Sw846 Ch7.3**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**UV/VIS_2_170203A**	Analysis Date:	**2/3/2017 3:25:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Cyanide	0.209	0.100	0.2000	0	105	85	115			N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **UV/VIS_2_170203A**

The QC data in batch 79024 applies to the following samples: 1702035-01B

Sample ID	**MB-79024**	Batch ID:	**79024**	TestNo:	**Sw846 Ch7.3**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**UV/VIS_2_170203A**	Analysis Date:	**2/3/2017 3:17:00 PM**	Prep Date:	**2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Cyanide	<0.100	0.200								N

Sample ID	**LCS-79024**	Batch ID:	**79024**	TestNo:	**Sw846 Ch7.3**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**UV/VIS_2_170203A**	Analysis Date:	**2/3/2017 3:23:00 PM**	Prep Date:	**2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Cyanide	2.12	0.200	40.00	0	5.29	1	10			N

Sample ID	**LCS-79024**	Batch ID:	**79024**	TestNo:	**Sw846 Ch7.3**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**UV/VIS_2_170203A**	Analysis Date:	**2/3/2017 3:23:00 PM**	Prep Date:	**2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Cyanide	1.15	0.200	40.00	0	2.87	1	10			N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **WC_170203C**

Sample ID	**ICV-170203**	Batch ID:		TestNo:	**Sw846 Ch7.3**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**WC_170203C**	Analysis Date:	**2/3/2017 12:49:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Sulfide	158	20.0	152.5	0	104	80	120			N

Sample ID	**CCV-170203**	Batch ID:		TestNo:	**Sw846 Ch7.3**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**WC_170203C**	Analysis Date:	**2/3/2017 2:48:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Sulfide	312	20.0	305.0	0	102	80	120			N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1702035
Project: GLO/City of Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **WC_170203C**

The QC data in batch 79024 applies to the following samples: 1702035-01B

Sample ID	**MB-79024**	Batch ID:	**79024**	TestNo:	**Sw846 Ch7.3**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**WC_170203C**	Analysis Date:	**2/3/2017 12:55:00 PM**	Prep Date:	**2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Sulfide	<20.0	20.0								N

Sample ID	**LCS-79024**	Batch ID:	**79024**	TestNo:	**Sw846 Ch7.3**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**WC_170203C**	Analysis Date:	**2/3/2017 12:57:00 PM**	Prep Date:	**2/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Sulfide	190	20.0	305.0	0	62.3	25	90			N

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

March 2017

City of Galveston Incineration Site Sampling Event – March 2017 Data Usability Summary

This Data Usability Summary (DUS) contains the results of the data review for the analyses of samples collected by AECOM Technical Services, Inc. (AECOM) at the City of Galveston Incineration Site from March 29 through 31, 2017. These samples were analyzed by DHL Analytical, Inc. (DHL) in Austin, Texas for the analytical methods specified on the chain-of-custody (C-O-C) documentation. Table 1 presents the analyses requested and a cross-reference of field sample identifications (IDs) and laboratory IDs.

The purpose of this sampling event is to determine what level of remediation will be required for the affected property.

Sample identification, dates sampled, matrices, and methods used for analyses are provided in Table 1. Samples were evaluated against the Texas Commission on Environmental Quality (TCEQ) *Review and Reporting of COC Concentration Data under TRRP* [Texas Risk Reduction Program], (RG-366/TRRP-13, May 2010) guidelines for data usability for the methods listed in this table.

The following laboratory submittals were examined:

- Laboratory reports;
- TRRP-13 Laboratory Review Checklists (LRCs); and
- TRRP-13 Exception Reports (ERs).

The analytical results and data qualifier definitions are presented in Attachment A. LRCs and ERs checklists are presented in Attachment B.

Table 1
Sample Distribution

Sample Identification	Laboratory Identification	Date Sampled	Metals SW-846 6020A	Mercury SW-846 7470A/7471B	PAHs SW-846 8270D SIM
HA-SB01-010	1704005-05	3/31/2017	X	X	X
HA-SB02-010	1704005-01	3/30/2017	X	X	X
HA-SB02-011	1704005-03	3/30/2017	X	X	X
HA-SB02-020	1704005-02	3/30/2017	X	X	X
HA-SB03-010	1703266-17	3/29/2017	X	X	X
HA-SB04-013	1703266-20	3/29/2017	X	X	X
HA-SB05-010	1703266-11	3/29/2017	X	X	X
HA-SB06-010	1703266-12	3/29/2017	X	X	X
HA-SB07-010	1703266-13	3/29/2017	X	X	X
HA-SB08-010	1703266-16	3/29/2017	X	X	X
HA-SB09-010	1703266-21	3/29/2017	X	X	X
HA-SB09-011	1703266-22	3/29/2017	X	X	X
HA-SB10-010	1703266-14	3/29/2017	X	X	X
HA-SB11-010	1703266-18	3/29/2017	X	X	X
HA-SB12-010	1703266-10	3/29/2017	X	X	X
HA-SB12-020	1704005-06	3/31/2017	X	X	X
HA-SB13-010	1703266-19	3/29/2017	X	X	X
HA-SB14-010	1703266-24	3/29/2017	X	X	X
HA-SB15-010	1703266-15	3/29/2017	X	X	X
HA-SB16-010	1703266-08	3/29/2017	X	X	X
HA-SB17-010	1703266-09	3/29/2017	X	X	X
HA-SB18-010	1703266-04	3/29/2017	X	X	X
HA-SB18-011	1703266-05	3/29/2017	X	X	X
HA-SB19-010	1703266-03	3/29/2017	X	X	X
HA-SB20-013	1704005-08	3/31/2017	X	X	X
HA-SB20-020	1704005-09	3/31/2017	X	X	X
HA-SB20-021	1704005-10	3/31/2017	X	X	X
HA-SB21-010	1703266-26	3/29/2017	X	X	X
HA-SB22-010	1703266-25	3/29/2017	X	X	X
HA-SB23-010	1703266-27	3/29/2017	X	X	X
HA-SB24-010	1703266-07	3/29/2017	X	X	X
HA-SB25-010	1703266-43	3/30/2017	X	X	X
HA-SB26-010	1703266-06	3/29/2017	X	X	X
HA-SB27-010	1703266-02	3/29/2017	X	X	X
HA-SB28-010	1703266-01	3/29/2017	X	X	X
HA-SB29-010	1703266-28	3/30/2017	X	X	X
HA-SB30-010	1703266-41	3/30/2017	X	X	X
HA-SB30-020	1703266-42	3/30/2017	X	X	X
HA-SB31-010	1703266-32	3/30/2017	X	X	X
HA-SB32-010	1703266-30	3/30/2017	X	X	X
HA-SB32-020	1703266-31	3/30/2017	X	X	X
HA-SB33-010	1703266-38	3/30/2017	X	X	X
HA-SB34-010	1703266-29	3/30/2017	X	X	X
HA-SB35-010	1703266-35	3/30/2017	X	X	X
HA-SB36-010	1703266-40	3/30/2017	X	X	X
HA-SB37-013	1703266-39	3/30/2017	X	X	X
HA-SB38-010	1703266-34	3/30/2017	X	X	X
HA-SB39-010	1703266-33	3/30/2017	X	X	X
HA-SB40-010	1703266-36	3/30/2017	X	X	X
HA-SB40-011	1703266-37	3/30/2017	X	X	X
INC-SB71	1703267-01	3/30/2017	X	X	X

Table 1 (Continued)
Sample Distribution

Sample Identification	Laboratory Identification	Date Sampled	Metals SW-846 6020A	Mercury SW-846 7470A/7471B	PAHs SW-846 8270D SIM
Equipment Blanks					
HA-SB02-015	1704005-04	3/30/2017	X	X	X
HA-SB09-015	1703266-23	3/292017	X	X	X
HA-SB20-015	1704005-07	3/31/2017	X	X	X

X - Analyzed by DHL Analytical. Inc. in Round Rock, Texas.
-- Sample not analyzed for the indicated parameter.

ID – Identification
PAHs – Polychlorinated aromatic hydrocarbons
SIM – Selective ion monitoring
SW-846 - Test Methods for Evaluation of Solid Waste: Physical/Chemical Methods, EPA, Office of Solid Waste and Emergency Response, December 1996, Revision 3 and subsequent revisions
TCEQ – Texas Commission on Environmental Quality
Note - The "1" designation at the end of the sample ID means the sample is a field duplicate of the associated "0" ending sample that precedes it. The "3" designation at the end of the sample ID means the sample is a client-specified parent sample for matrix spike/matrix spike duplicate analysis. The "5" designation at the end of the sample ID means the sample is an equipment blank.

Analytical results were evaluated in accordance with TRRP-13. The results indicate that all of the data are acceptable and usable. Some samples were diluted due to matrix interferences or high concentrations of target analytes, which resulted in elevated sample detection limits (SDLs) and method quantitation limits (MQLs). Soil samples were reported on a dry-weight basis.

Sample results that were reported between the SDLs and MQLs were qualified with "J" as estimated. Note that the DHL cites the reporting limit, which is the lowest standard used in the calibration curve and is therefore the equivalent to the MQLs. The laboratory qualified data using statistically-derived control limits, which were also used for data review and validation. Samples that required further qualification or anomalies are discussed in this DUS. Only quality control (QC) results associated with field samples are discussed in the text. QC samples only associated with other QC samples (such as laboratory control samples [LCSs] for trip blanks) are not discussed.

Laboratory Certification

AECOM asserts that at the time the laboratory data were generated for this project, DHL was National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program for the matrices, methods, and parameters prescribed in this report. The applicable NELAP certification is T104704211-17-18 (effective February 27, 2017 through April 30, 2017).

Metals by EPA SW-846 Method 6020A

Samples were analyzed for client-specified metals by United States Environmental Protection Agency (EPA) SW-846 Method 6020A. The QC requirements that were evaluated included holding times, detection limits, calibrations, blanks, LCS and/or LCS/laboratory control sample duplicate (LCSD) results, matrix spike/matrix spike duplicate (MS/MSD) results, duplicates, serial dilutions (SD), post digestion spikes (PDS), interference check samples, and internal standards. The QC results indicate that the reported data are usable for the intended purposes. Samples that required qualification or analytical anomalies are discussed below.

Calibrations

Beryllium was recovered one percent above the laboratory acceptance criteria in two continuing calibration verification (CCV) standards. Per professional judgment, no results were qualified due to this possible high bias.

Blanks

Lead was detected in one method blank. All of the associated results were greater than five times the concentration of the method blank; therefore, no results were qualified.

Lead was detected in equipment blank HA-SB09-015. All of the associated results were greater than five times the concentration of the equipment blank; therefore, no results were qualified.

Matrix Spikes

Results were qualified if the average of the MS and MSD recoveries or the MS/MSD relative percent difference (RPD) were outside of the laboratory acceptance criteria for client samples in the same preparation batch as the client parent sample. Results were not evaluated if the MS/MSD spike concentrations were less than four times the concentrations in the unspiked parent sample. The MS/MSD results were not evaluated then since the spiked concentrations were insignificant and may not have represented the matrix effect.

The MS/MSD results for barium and/or lead were not evaluated in four samples since the spike concentrations were less than four times the concentrations in the unspiked parent sample. The RPDs for antimony, lead, and silver were slightly above the laboratory acceptance criteria for parent sample HA-SB37-013. Per professional judgment, no results were qualified due to MS/MSD variability.

The RPDs for antimony, lead, and silver were recovered about one percent above the laboratory acceptance criteria in for parent sample HA-SB37-013. Per professional judgment, no results were qualified due to MS/MSD variability.

Metal results qualified due to MS/MSD recoveries are presented in Table 2.

Table 2
Metal Results Qualified Due to MS/MSD Recoveries

Sample Identification	Analyte	Qualifier/Result	Reason
HA-SB09-010	Barium	JL (All Detects)	Average MS/MSD recovery < LCL and < 30%
HA-SB09-011			
HA-SB14-010			
HA-SB21-010			
HA-SB22-010			
HA-SB23-010			
HA-SB25-010			
HA-SB29-010			
HA-SB30-010			
HA-SB31-010			
HA-SB32-010			
HA-SB33-010			
HA-SB34-010			
HA-SB35-010			
HA-SB36-010			
HA-SB37-013			
HA-SB38-010			
HA-SB39-010			
HA-SB40-010			
HA-SB40-011			

JL – Estimated/biased low
LCL – Lower control limit
MS/MSD – Matrix spike/matrix spike duplicate

Field Duplicates

Field duplicate results were evaluated using the acceptance criteria as specified in TRRP-13. When both the sample and field duplicate sample results are greater than five times the lower MQL and the RPD is greater than 50%, then the parent and field duplicate sample results are qualified due to field duplicate variability. When one of the results for the field duplicate pair are less than five times the lower MQL, the RPD is greater than 50%, and both of the results are greater than three times the higher MQL, then the results are qualified due to field duplicate variability. Metal results qualified due to field duplicate variability are presented in Table 3.

Table 3
Metal Results Qualified Due to Field Duplicate Variability

Sample Identification	Analyte	Qualifier/Result	Reason
HA-SB20-020	Antimony	J (Detects)	Field duplicate results did not meet acceptance criteria
HA-SB20-021			

J – Estimated

Post Digestion Spikes

The PDS recoveries for barium and/or lead could not be evaluated in two samples since the spike concentrations were less than four times the concentrations in the unspiked parent sample. The PDS recovery for barium for parent sample HA-SB02-020 was not evaluated since the spike concentration was less than four times the concentrations in the unspiked parent sample.

Serial Dilutions

All detected results greater than 50x the analyte detection limits in the analytical batch were qualified due to SD results if the serial dilution RPDs were greater than the laboratory acceptance criteria.

The SD RPD for selenium for parent sample HA-SB02-010 was less than one percent above the laboratory acceptance criteria. Per professional judgment, no results were qualified. However, the SD RPDs for selenium for other samples were above the laboratory acceptance criteria and were qualified as presented in Table 4.

Table 4
Metal Results Qualified Due to Serial Dilution Variability

Sample Identification	Analyte	Qualifier/Result	Reason
HA-SB01-010	Selenium	J (Detects)	Serial dilution RPD > AC
HA-SB02-010			
HA-SB02-011			
HA-SB03-010			
HA-SB04-013			
HA-SB05-010			
HA-SB06-010			
HA-SB07-010			
HA-SB08-010			
HA-SB10-010			
HA-SB11-010			
HA-SB12-010			
HA-SB13-010			
HA-SB15-010			
HA-SB16-010			
HA-SB17-010			
HA-SB18-010			
HA-SB18-011			
HA-SB19-010			
HA-SB20-013			
HA-SB24-010			
HA-SB26-010			
HA-SB27-010			
HA-SB28-010			

AC – Acceptance criteria
J – Estimated
RPD – Relative percent difference

Mercury by EPA SW-846 Methods 7471B

Samples were analyzed for mercury by EPA SW-846 Methods 7471B. The QC requirements that were evaluated included holding times, detection limits, calibrations, blanks, LCS and/or LCS/LCSD results, MS/MSD results, duplicates, SD results, and PDS results. The QC results indicate that the reported data are usable for the intended purposes. Samples that required qualification or analytical anomalies are discussed below.

Matrix Spikes

Results were qualified if the average of the MS and MSD recoveries or the MS/MSD RPD were outside of the laboratory acceptance criteria for client samples in the same preparation batch as the client parent sample. Results were not evaluated if the MS/MSD spike concentrations were less than four times the concentrations in the unspiked parent sample. The MS/MSD results were not evaluated then since the spiked concentrations were insignificant and may not have represented the matrix effect.

The mercury MS/MSD results for parent sample HA-SB04-013 was not evaluated since the MS/MSD spike concentrations were less than four times the concentrations in the unspiked parent sample.

Polynuclear Aromatic Hydrocarbons by EPA SW-846 Method 8270D SIM

Samples were analyzed for polynuclear aromatic hydrocarbons (PAHs) by EPA SW-846 Method 8270D selective ion monitoring (SIM). The QC requirements that were evaluated included sample receipt conditions, holding times, detection limits, calibrations, internal standards, field duplicates, blanks, LCS and/or LCS/LCSD results, MS/MSD results, and surrogate spike results. The QC results indicate that all of the reported data are usable for the intended purposes. Samples that required qualification or analytical anomalies are discussed below.

Calibrations

The recovery for benzo(g,h,i)perylene was below the laboratory acceptance criteria in one CCV. PAH results qualified due to CCV recoveries are presented in Table 5.

Table 5
PAH Results Qualified Due to CCV Recoveries

Sample Identification	Analyte	Qualifier/Result	Reason
HA-SB31-010 HA-SB33-010 HA-SB37-013 HA-SB38-010 HA-SB39-010 HA-SB40-011	Benzo(g,h,i)perylene	JL (All detects)	CCV recovery < AC

AC – Acceptance criteria
CCV – Continuing calibration verification
JL – Estimated/biased low
PAH – Polynuclear aromatic hydrocarbons

Matrix Spikes/Matrix Spike Duplicates

Results were qualified if the MS or the average of the MS/MSD recoveries or the MS/MSD RPD were outside of the laboratory acceptance criteria for samples in the same preparation batch as the parent sample. If the average MS/MSD recovery was above the acceptance criteria and the associated sample result was not detected, then no results were qualified due to this possible high bias. MS/MSD results were not evaluated if the spike concentrations were less than four times the concentrations in the unspiked parent samples. The MS/MSD results were not evaluated

since the spiked concentrations were insignificant and may not have represented the matrix effect.

The recoveries for two to 14 PAHs were recovered above the laboratory acceptance criteria in two parent samples. The RPDs for three PAHs were above the laboratory acceptance criteria in one parent sample. These results had already been qualified due to high MS/MSD recoveries; therefore, further qualification was not made. Metal results qualified due to MS/MSD recoveries are presented in Table 6.

Table 6
PAH Results Qualified Due to MS/MSD Recoveries

Sample Identification	Analyte	Qualifier/Result	Reason
HA-SB03-010 HA-SB04-013 HA-SB11-010 HA-SB13-010 INC-SB71	Fluoranthene Pyrene	JH (Detects)	Average MS/MSD recovery > UCL
HA-SB09-010 HA-SB09-011 HA-SB14-010 HA-SB21-010 HA-SB25-010 HA-SB29-010 HA-SB30-010 HA-SB31-010 HA-SB32-010 HA-SB34-010 HA-SB35-010 HA-SB36-010 HA-SB38-010 HA-SB39-010	Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene Phenanthrene Pyrene		
HA-SB22-010 HA-SB33-010 HA-SB40-010	Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Indeno(1,2,3-cd)pyrene Phenanthrene Pyrene		

Table 6 (Continued)
PAH Results Qualified Due to MS/MSD Recoveries

Sample Identification	Analyte	Qualifier/Result	Reason
HA-SB23-010 HA-SB37-013 HA-SB40-011	Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene Phenanthrene Pyrene	JH (Detects)	Average MS/MSD recovery > UCL
HA-SB01-010 HA-SB02-010 HA-SB02-011 HA-SB05-010 HA-SB06-010 HA-SB07-010 HA-SB08-010 HA-SB10-010 HA-SB12-010 HA-SB15-010 HA-SB16-010 HA-SB17-010 HA-SB18-010 HA-SB18-011 HA-SB19-010 HA-SB20-013 HA-SB24-010 HA-SB26-010 HA-SB27-010 HA-SB28-010	Benzo(a)anthracene Fluoranthene Pyrene	JL (All detects)	Average MS/MSD recovery < LCL but ≥10%

JH – Estimated/biased high
JL – Estimated/biased low
LCL – Lower control limit
MS/MSD – Matrix spike/matrix spike duplicate
PAH – Polynuclear aromatic hydrocarbons
UCL – Upper control limit

Field Duplicates

Field duplicate results were evaluated using the acceptance criteria as specified in TRRP-13. When both the sample and field duplicate sample results are greater than five times the lower MQL and the RPD is greater than 50%, then the parent and field duplicate sample results are qualified due to field duplicate variability. When one of the results for the field duplicate pair are less than five times the lower MQL, the RPD is greater than 50%, and both of the results are greater than three times the higher MQL, then the results are qualified due to field duplicate variability. PAH results qualified due to field duplicate variability are presented in Table 7.

Some results had already been qualified due to MS/MSD recoveries; therefore, no additional qualifiers were made.

Table 7
PAH Results Qualified Due to Field Duplicate Variability

Sample Identification	Analyte	Qualifier/Result	Reason
HA-SB09-010 HA-SB09-011	Benzo(g,h,i)perylene	J (All detects)	Field duplicate results did not meet acceptance criteria
HA-SB20-020 HA-SB20-021	Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene Naphthalene Phenanthrene Pyrene		

J – Estimated
PAH – Polynuclear aromatic hydrocarbon

Attachment A
Analytical Results

DATA QUALIFIERS

Qualifier	Definition
U	Not detected: Analysis for the analyte was performed, but the analyte was not detected above the level of the associated value. The associated value is the sample detection limit (SDL).
J	Estimated: The analyte was detected and identified. The associated numerical value is the approximate concentration of the analyte in the sample.
UJ	Not detected, SDL is estimated: The analyte was not detected above the reported SDL. The numerical value of the SDL is estimated and may be inaccurate.
NJ	Tentatively identified, reported concentration is estimated: The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration. For example, analyte not included in the calibration or second column confirmation not performed.
R	Rejected: The data are unusable.
X1	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ.
X2	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is located outside of Texas, and is accredited or periodically inspected by that state.
X3	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ, and the work is performed for another company unit located on the same site as the laboratory.
X4	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ, and the work is performed without compensation for a government agency or charitable organization.
X5	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is accredited under federal law, including certification by the EPA to provide these data for decisions related to the Safe Drinking Water Act.
X6	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory provides these data necessary for emergency response activities and the required analytical data are not available from a laboratory accredited under TLAP.
X7	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The TCEQ does not offer accreditation for this analyte, in this matrix, by this method.
X8	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The TCEQ offers accreditation for this analyte, in this matrix, by this method, but the laboratory is not accredited for this analyte in this matrix by this method. The analyte result is validated and reported as part of a suite of analytes for the method.
X9	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The result was generated prior to July 1, 2008.
Bias Codes	**Definition**
H	Bias in sample result likely high.
L	Bias in sample result likely low.

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB01-010	0	0.5	N	3/31/2017	ASTM D2216	%	Percent moisture	27.0		NS	NS	1	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Antimony	4.47		0.685	1.37	5	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Arsenic	8.82		0.685	1.37	5	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Barium	428		0.685	2.74	5	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Beryllium	0.497		0.137	0.411	5	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Cadmium	1.36		0.137	0.411	5	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Chromium, total	25.9		0.685	2.74	5	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Lead	464		0.137	0.411	5	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Nickel	17.6		0.685	2.74	5	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Selenium	1.03	J	0.205	0.685	5	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Silver	0.328		0.137	0.274	5	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 7471B	mg/kg	Mercury	0.457		0.0206	0.0516	1	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0902		0.00678	0.0136	1	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.379		0.00678	0.0136	1	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Anthracene	0.592		0.00678	0.0136	1	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	1.50	JL	0.00678	0.0136	1	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	1.70		0.00678	0.0136	1	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	1.84		0.00678	0.0136	1	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	1.32		0.00678	0.0136	1	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.913		0.00678	0.0136	1	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Chrysene	1.79		0.00678	0.0136	1	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.271		0.00678	0.0136	1	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Fluoranthene	3.19	JL	0.00678	0.0136	1	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Fluorene	0.0998		0.00678	0.0136	1	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	1.34		0.00678	0.0136	1	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Naphthalene	0.0215		0.00678	0.0136	1	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Phenanthrene	1.37		0.00678	0.0136	1	1704005-05A
HA-SB01-010	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Pyrene	2.71	JL	0.00678	0.0136	1	1704005-05A
HA-SB02-010	0	0.5	N	3/30/2017	ASTM D2216	%	Percent moisture	25.0		NS	NS	1	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Antimony	9.19		0.657	1.31	5	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Arsenic	76.4		0.657	1.31	5	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Barium	1700		6.57	26.3	50	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Beryllium	2.41		0.131	0.394	5	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Cadmium	2.95		0.131	0.394	5	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	99.5		0.657	2.63	5	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Lead	229		0.131	0.394	5	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Nickel	89.5		0.657	2.63	5	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Selenium	2.15	J	0.197	0.657	5	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Silver	0.457		0.131	0.263	5	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 7471B	mg/kg	Mercury	0.0561		0.0176	0.0440	1	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0323		0.00615	0.0123	1	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0581		0.00615	0.0123	1	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Anthracene	0.119		0.00615	0.0123	1	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.341	JL	0.00615	0.0123	1	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.397		0.00615	0.0123	1	1704005-01A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.458		0.00615	0.0123	1	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.320		0.00615	0.0123	1	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.226		0.00615	0.0123	1	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Chrysene	0.440		0.00615	0.0123	1	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0558		0.00615	0.0123	1	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	0.871	JL	0.00615	0.0123	1	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluorene	0.0253		0.00615	0.0123	1	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.325		0.00615	0.0123	1	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	0.0139		0.00615	0.0123	1	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	0.428		0.00615	0.0123	1	1704005-01A
HA-SB02-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Pyrene	0.686	JL	0.00615	0.0123	1	1704005-01A
HA-SB02-011	0	0.5	FD	3/30/2017	ASTM D2216	%	Percent moisture	6.81		NS	NS	1	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Antimony	7.87		0.486	0.972	5	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Arsenic	98.6		0.486	0.972	5	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Barium	2090		4.86	19.4	50	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Beryllium	2.56		0.0972	0.292	5	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Cadmium	2.93		0.0972	0.292	5	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	98.4		0.486	1.94	5	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Lead	191		0.0972	0.292	5	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Nickel	76.9		0.486	1.94	5	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Selenium	2.41	J	0.146	0.486	5	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Silver	0.500		0.0972	0.194	5	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 7471B	mg/kg	Mercury	0.0354	J	0.0151	0.0377	1	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0339		0.00507	0.0101	1	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0574		0.00507	0.0101	1	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Anthracene	0.123		0.00507	0.0101	1	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.330	JL	0.00507	0.0101	1	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.379		0.00507	0.0101	1	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.456		0.00507	0.0101	1	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.372		0.00507	0.0101	1	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.228		0.00507	0.0101	1	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Chrysene	0.413		0.00507	0.0101	1	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0629		0.00507	0.0101	1	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	0.838	JL	0.00507	0.0101	1	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Fluorene	0.0302		0.00507	0.0101	1	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.368		0.00507	0.0101	1	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	0.00771	J	0.00507	0.0101	1	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	0.450		0.00507	0.0101	1	1704005-03A
HA-SB02-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Pyrene	0.669	JL	0.00507	0.0101	1	1704005-03A
HA-SB02-020	1	1.5	N	3/30/2017	ASTM D2216	%	Percent moisture	11.7		NS	NS	1	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 6020A	mg/kg	Antimony	1.57		0.490	0.980	5	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 6020A	mg/kg	Arsenic	11.6		0.490	0.980	5	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 6020A	mg/kg	Barium	284		0.490	1.96	5	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 6020A	mg/kg	Beryllium	0.404		0.0980	0.294	5	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 6020A	mg/kg	Cadmium	0.862		0.0980	0.294	5	1704005-02A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	27.7		0.490	1.96	5	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 6020A	mg/kg	Lead	290		0.0980	0.294	5	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 6020A	mg/kg	Nickel	10.1		0.490	1.96	5	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 6020A	mg/kg	Selenium	0.931		0.147	0.490	5	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 6020A	mg/kg	Silver	0.209		0.0980	0.196	5	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 7471B	mg/kg	Mercury	0.139		0.0162	0.0405	1	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	0.244		0.00565	0.0113	1	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.394		0.00565	0.0113	1	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 8270D	mg/kg	Anthracene	0.989		0.00565	0.0113	1	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	3.27		0.00565	0.0113	1	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	3.19		0.00565	0.0113	1	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	3.11		0.00565	0.0113	1	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	2.37		0.00565	0.0113	1	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	1.57		0.00565	0.0113	1	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 8270D	mg/kg	Chrysene	3.22		0.00565	0.0113	1	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.431		0.00565	0.0113	1	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	8.11		0.0113	0.0226	2	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluorene	0.281		0.00565	0.0113	1	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	2.43		0.00565	0.0113	1	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	0.0366		0.00565	0.0113	1	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	4.04		0.00565	0.0113	1	1704005-02A
HA-SB02-020	1	1.5	N	3/30/2017	SW-846 8270D	mg/kg	Pyrene	6.36		0.0113	0.0226	2	1704005-02A
HA-SB03-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	12.2		NS	NS	1	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	1.99		0.511	1.02	5	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	21.1		0.511	1.02	5	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	248		0.511	2.04	5	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.372		0.102	0.307	5	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	0.671		0.102	0.307	5	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	13.9		0.511	2.04	5	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	229		0.102	0.307	5	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	8.90		0.511	2.04	5	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	1.22	J	0.153	0.511	5	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	0.204	J	0.102	0.204	5	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.256		0.0146	0.0364	1	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0408		0.00561	0.0112	1	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.105		0.00561	0.0112	1	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.177		0.00561	0.0112	1	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.635		0.00561	0.0112	1	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.802		0.00561	0.0112	1	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.745		0.00561	0.0112	1	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.543		0.00561	0.0112	1	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.404		0.00561	0.0112	1	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	0.687		0.00561	0.0112	1	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.111		0.00561	0.0112	1	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	1.36	JH	0.00561	0.0112	1	1703266-17A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	0.0417		0.00561	0.0112	1	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.625		0.00561	0.0112	1	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	0.0150		0.00561	0.0112	1	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	0.614		0.00561	0.0112	1	1703266-17A
HA-SB03-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	1.13	JH	0.00561	0.0112	1	1703266-17A
HA-SB04-013	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	10.7		NS	NS	1	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	1.07		0.464	0.928	5	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	7.51		0.464	0.928	5	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	251		0.464	1.86	5	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.260	J	0.0928	0.278	5	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	0.712		0.0928	0.278	5	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	11.0		0.464	1.86	5	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	613		0.464	1.39	25	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	6.64		0.464	1.86	5	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	1.07	J	0.139	0.464	5	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	0.302		0.0928	0.186	5	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	1.75		0.325	0.814	20	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0336		0.00543	0.0109	1	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.188		0.00543	0.0109	1	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.223		0.00543	0.0109	1	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.734		0.00543	0.0109	1	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.907		0.00543	0.0109	1	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.776		0.00543	0.0109	1	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.629		0.00543	0.0109	1	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.436		0.00543	0.0109	1	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	0.752		0.00543	0.0109	1	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.110		0.00543	0.0109	1	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	1.72	JH	0.00543	0.0109	1	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	0.0482		0.00543	0.0109	1	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.755		0.00543	0.0109	1	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	0.0163		0.00543	0.0109	1	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	0.716		0.00543	0.0109	1	1703266-20A
HA-SB04-013	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	1.60	JH	0.00543	0.0109	1	1703266-20A
HA-SB05-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	12.3		NS	NS	1	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	<0.462	U	0.462	0.924	5	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	3.60		0.462	0.924	5	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	127		0.462	1.85	5	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.229	J	0.0924	0.277	5	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	0.187	J	0.0924	0.277	5	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	11.3		0.462	1.85	5	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	29.8		0.0924	0.277	5	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	6.73		0.462	1.85	5	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	0.883	J	0.139	0.462	5	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	<0.0924	U	0.0924	0.185	5	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.0690		0.0153	0.0382	1	1703266-11A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0159		0.00523	0.0105	1	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0535		0.00523	0.0105	1	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.0825		0.00523	0.0105	1	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.258	JL	0.00523	0.0105	1	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.287		0.00523	0.0105	1	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.357		0.00523	0.0105	1	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.261		0.00523	0.0105	1	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.170		0.00523	0.0105	1	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	0.338		0.00523	0.0105	1	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0452		0.00523	0.0105	1	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	0.605	JL	0.00523	0.0105	1	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	0.0157		0.00523	0.0105	1	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.253		0.00523	0.0105	1	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	<0.00523	U	0.00523	0.0105	1	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	0.256		0.00523	0.0105	1	1703266-11A
HA-SB05-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	0.476	JL	0.00523	0.0105	1	1703266-11A
HA-SB06-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	6.56		NS	NS	1	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	2.13		0.495	0.989	5	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	6.70		0.495	0.989	5	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	227		0.495	1.98	5	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.271	J	0.0989	0.297	5	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	1.19		0.0989	0.297	5	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	19.6		0.495	1.98	5	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	151		0.0989	0.297	5	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	11.5		0.495	1.98	5	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	0.868	J	0.148	0.495	5	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	0.183	J	0.0989	0.198	5	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.112		0.0167	0.0418	1	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	3.35		0.0101	0.0201	2	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	1.40		0.0101	0.0201	2	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	9.57		0.0101	0.0201	2	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	34.5	JL	0.101	0.201	20	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	34.7		0.101	0.201	20	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	29.9		0.101	0.201	20	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	<0.101	U	0.101	0.201	20	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	17.6		0.101	0.201	20	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	32.8		0.101	0.201	20	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	4.12		0.0101	0.0201	2	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	70.9	JL	0.101	0.201	20	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	2.49		0.0101	0.0201	2	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	20.6		0.101	0.201	20	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	1.24		0.0101	0.0201	2	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	52.1		0.101	0.201	20	1703266-12A
HA-SB06-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	58.2	JL	0.101	0.201	20	1703266-12A
HA-SB07-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	9.92		NS	NS	1	1703266-13A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	1.60		0.521	1.04	5	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	3.66		0.521	1.04	5	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	226		0.521	2.08	5	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	1.19		0.104	0.312	5	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	1.33		0.104	0.312	5	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	61.1		0.521	2.08	5	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	204		0.104	0.312	5	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	31.8		0.521	2.08	5	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	1.19	J	0.156	0.521	5	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	0.529		0.104	0.208	5	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.0330	J	0.0175	0.0438	1	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0122		0.00533	0.0107	1	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0291		0.00533	0.0107	1	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.0512		0.00533	0.0107	1	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.219	JL	0.00533	0.0107	1	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.270		0.00533	0.0107	1	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.280		0.00533	0.0107	1	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.229		0.00533	0.0107	1	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.137		0.00533	0.0107	1	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	0.265		0.00533	0.0107	1	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0393		0.00533	0.0107	1	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	0.484	JL	0.00533	0.0107	1	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	0.0120		0.00533	0.0107	1	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.223		0.00533	0.0107	1	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	0.00779	J	0.00533	0.0107	1	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	0.219		0.00533	0.0107	1	1703266-13A
HA-SB07-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	0.390	JL	0.00533	0.0107	1	1703266-13A
HA-SB08-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	19.4		NS	NS	1	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	1.23		0.608	1.22	5	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	7.71		0.608	1.22	5	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	434		0.608	2.43	5	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.394		0.122	0.365	5	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	3.95		0.122	0.365	5	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	26.1		0.608	2.43	5	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	219		0.122	0.365	5	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	16.9		0.608	2.43	5	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	1.25	J	0.182	0.608	5	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	0.374		0.122	0.243	5	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.166		0.0162	0.0405	1	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	0.117		0.00591	0.0118	1	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.263		0.00591	0.0118	1	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.490		0.00591	0.0118	1	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	1.58	JL	0.00591	0.0118	1	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	1.67		0.00591	0.0118	1	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	1.71		0.00591	0.0118	1	1703266-16A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	1.22		0.00591	0.0118	1	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.881		0.00591	0.0118	1	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	1.57		0.00591	0.0118	1	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.239		0.00591	0.0118	1	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	3.23	JL	0.00591	0.0118	1	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	0.116		0.00591	0.0118	1	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	1.24		0.00591	0.0118	1	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	0.0421		0.00591	0.0118	1	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	1.80		0.00591	0.0118	1	1703266-16A
HA-SB08-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	2.62	JL	0.00591	0.0118	1	1703266-16A
HA-SB09-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	16.0		NS	NS	1	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	0.729	J	0.594	1.19	5	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	5.70		0.594	1.19	5	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	198	JL	0.594	2.38	5	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.214	J	0.119	0.356	5	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	0.557		0.119	0.356	5	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	10.1		0.594	2.38	5	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	476		0.119	0.356	5	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	4.96		0.594	2.38	5	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	0.749		0.178	0.594	5	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	0.241		0.119	0.238	5	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	1.47		0.140	0.351	10	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	0.143	JH	0.00575	0.0115	1	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.651	JH	0.00575	0.0115	1	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.911	JH	0.00575	0.0115	1	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	3.64	JH	0.00575	0.0115	1	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	4.35	JH	0.00575	0.0115	1	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	3.53	JH	0.00575	0.0115	1	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	2.61	J	0.00575	0.0115	1	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	1.92	JH	0.00575	0.0115	1	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	3.50	JH	0.00575	0.0115	1	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.472	JH	0.00575	0.0115	1	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	5.95	JH	0.0287	0.0575	5	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	0.236	JH	0.00575	0.0115	1	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	3.25	JH	0.00575	0.0115	1	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	0.0333		0.00575	0.0115	1	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	2.60	JH	0.00575	0.0115	1	1703266-21A
HA-SB09-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	5.69	JH	0.0287	0.0575	5	1703266-21A
HA-SB09-011	0	0.5	FD	3/29/2017	ASTM D2216	%	Percent moisture	9.21		NS	NS	1	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Antimony	0.575	J	0.534	1.07	5	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Arsenic	5.01		0.534	1.07	5	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Barium	166	JL	0.534	2.13	5	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.239	J	0.107	0.320	5	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Cadmium	0.461		0.107	0.320	5	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	10.9		0.534	2.13	5	1703266-22A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Lead	438		0.107	0.320	5	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Nickel	4.99		0.534	2.13	5	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Selenium	0.745		0.160	0.534	5	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Silver	0.232		0.107	0.213	5	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 7471B	mg/kg	Mercury	1.28		0.145	0.363	10	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0613	JH	0.00505	0.0101	1	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.360	JH	0.00505	0.0101	1	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.384	JH	0.00505	0.0101	1	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	1.53	JH	0.00505	0.0101	1	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	1.95	JH	0.00505	0.0101	1	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	1.60	JH	0.00505	0.0101	1	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	1.21	J	0.00505	0.0101	1	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.867	JH	0.00505	0.0101	1	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Chrysene	1.52	JH	0.00505	0.0101	1	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.215	JH	0.00505	0.0101	1	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	3.35	JH	0.00505	0.0101	1	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Fluorene	0.0839	JH	0.00505	0.0101	1	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	1.49	JH	0.00505	0.0101	1	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	0.0194		0.00505	0.0101	1	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	1.17	JH	0.00505	0.0101	1	1703266-22A
HA-SB09-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Pyrene	3.21	JH	0.00505	0.0101	1	1703266-22A
HA-SB10-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	5.31		NS	NS	1	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	2.92		0.498	0.995	5	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	15.0		0.498	0.995	5	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	400		0.498	1.99	5	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.398		0.0995	0.299	5	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	3.77		0.0995	0.299	5	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	21.8		0.498	1.99	5	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	116		0.0995	0.299	5	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	36.1		0.498	1.99	5	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	0.710	J	0.149	0.498	5	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	0.579		0.0995	0.199	5	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.276		0.0131	0.0326	1	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0138		0.00488	0.00976	1	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0319		0.00488	0.00976	1	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.0653		0.00488	0.00976	1	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.228	JL	0.00488	0.00976	1	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.265		0.00488	0.00976	1	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.271		0.00488	0.00976	1	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.235		0.00488	0.00976	1	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.142		0.00488	0.00976	1	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	0.274		0.00488	0.00976	1	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0405		0.00488	0.00976	1	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	0.514	JL	0.00488	0.00976	1	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	0.0118		0.00488	0.00976	1	1703266-14A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.231		0.00488	0.00976	1	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	0.00688	J	0.00488	0.00976	1	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	0.251		0.00488	0.00976	1	1703266-14A
HA-SB10-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	0.430	JL	0.00488	0.00976	1	1703266-14A
HA-SB11-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	4.67		NS	NS	1	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	2.69		0.507	1.01	5	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	4.91		0.507	1.01	5	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	157		0.507	2.03	5	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.247	J	0.101	0.304	5	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	0.323		0.101	0.304	5	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	9.02		0.507	2.03	5	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	158		0.101	0.304	5	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	5.86		0.507	2.03	5	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	1.02	J	0.152	0.507	5	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	0.140	J	0.101	0.203	5	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.334		0.0145	0.0363	1	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0591		0.00500	0.00999	1	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.108		0.00500	0.00999	1	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.251		0.00500	0.00999	1	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.887		0.00500	0.00999	1	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.989		0.00500	0.00999	1	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.965		0.00500	0.00999	1	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.694		0.00500	0.00999	1	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.520		0.00500	0.00999	1	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	0.972		0.00500	0.00999	1	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.143		0.00500	0.00999	1	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	1.99	JH	0.00500	0.00999	1	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	0.0642		0.00500	0.00999	1	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.847		0.00500	0.00999	1	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	0.0165		0.00500	0.00999	1	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	0.914		0.00500	0.00999	1	1703266-18A
HA-SB11-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	1.67	JH	0.00500	0.00999	1	1703266-18A
HA-SB12-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	9.46		NS	NS	1	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	<0.533	U	0.533	1.07	5	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	3.76		0.533	1.07	5	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	67.8		0.533	2.13	5	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.217	J	0.107	0.320	5	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	0.186	J	0.107	0.320	5	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	7.34		0.533	2.13	5	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	33.5		0.107	0.320	5	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	4.51		0.533	2.13	5	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	0.822	J	0.160	0.533	5	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	<0.107	U	0.107	0.213	5	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.0434		0.0170	0.0425	1	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	0.220		0.00533	0.0107	1	1703266-10A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0633		0.00533	0.0107	1	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.533		0.00533	0.0107	1	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	1.91	JL	0.00533	0.0107	1	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	1.96		0.00533	0.0107	1	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	1.97		0.00533	0.0107	1	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	1.36		0.00533	0.0107	1	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	1.04		0.00533	0.0107	1	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	2.02		0.00533	0.0107	1	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.312		0.00533	0.0107	1	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	3.86	JL	0.00533	0.0107	1	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	0.183		0.00533	0.0107	1	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	1.51		0.00533	0.0107	1	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	0.0465		0.00533	0.0107	1	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	2.30		0.00533	0.0107	1	1703266-10A
HA-SB12-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	2.87	JL	0.00533	0.0107	1	1703266-10A
HA-SB12-020	0.5	1.33	N	3/31/2017	ASTM D2216	%	Percent moisture	16.3		NS	NS	1	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 6020A	mg/kg	Antimony	<0.572	U	0.572	1.14	5	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 6020A	mg/kg	Arsenic	3.24		0.572	1.14	5	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 6020A	mg/kg	Barium	47.3		0.572	2.29	5	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 6020A	mg/kg	Beryllium	0.296	J	0.114	0.343	5	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 6020A	mg/kg	Cadmium	<0.114	U	0.114	0.343	5	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 6020A	mg/kg	Chromium, total	11.1		0.572	2.29	5	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 6020A	mg/kg	Lead	34.1		0.114	0.343	5	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 6020A	mg/kg	Nickel	5.54		0.572	2.29	5	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 6020A	mg/kg	Selenium	0.740		0.172	0.572	5	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 6020A	mg/kg	Silver	<0.114	U	0.114	0.229	5	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 7471B	mg/kg	Mercury	0.0475		0.0174	0.0435	1	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 8270D	mg/kg	Acenaphthene	0.443		0.00584	0.0117	1	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.124		0.00584	0.0117	1	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 8270D	mg/kg	Anthracene	1.33		0.00584	0.0117	1	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	7.13		0.0584	0.117	10	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	6.99		0.0584	0.117	10	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	7.49		0.0584	0.117	10	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	5.02		0.00584	0.0117	1	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	3.70		0.00584	0.0117	1	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 8270D	mg/kg	Chrysene	8.23		0.0584	0.117	10	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	1.06		0.00584	0.0117	1	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 8270D	mg/kg	Fluoranthene	15.7		0.0584	0.117	10	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 8270D	mg/kg	Fluorene	0.444		0.00584	0.0117	1	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	5.38		0.00584	0.0117	1	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 8270D	mg/kg	Naphthalene	0.0309		0.00584	0.0117	1	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 8270D	mg/kg	Phenanthrene	7.60		0.0584	0.117	10	1704005-06A
HA-SB12-020	0.5	1.33	N	3/31/2017	SW-846 8270D	mg/kg	Pyrene	11.4		0.0584	0.117	10	1704005-06A
HA-SB13-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	15.3		NS	NS	1	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	1.19		0.562	1.12	5	1703266-19A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	7.09		0.562	1.12	5	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	328		0.562	2.25	5	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.284	J	0.112	0.337	5	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	0.737		0.112	0.337	5	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	12.4		0.562	2.25	5	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	664		0.562	1.69	25	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	6.87		0.562	2.25	5	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	1.12	J	0.169	0.562	5	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	0.305		0.112	0.225	5	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.965		0.170	0.425	10	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	<0.00565	U	0.00565	0.0113	1	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0321		0.00565	0.0113	1	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.0396		0.00565	0.0113	1	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.150		0.00565	0.0113	1	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.164		0.00565	0.0113	1	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.159		0.00565	0.0113	1	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.126		0.00565	0.0113	1	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.0914		0.00565	0.0113	1	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	0.169		0.00565	0.0113	1	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0230		0.00565	0.0113	1	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	0.345	JH	0.00565	0.0113	1	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	<0.00565	U	0.00565	0.0113	1	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.148		0.00565	0.0113	1	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	<0.00565	U	0.00565	0.0113	1	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	0.120		0.00565	0.0113	1	1703266-19A
HA-SB13-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	0.310	JH	0.00565	0.0113	1	1703266-19A
HA-SB14-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	19.6		NS	NS	1	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	0.546	J	0.376	0.753	5	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	4.24		0.376	0.753	5	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	4500	JL	18.8	75.3	250	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	1.54		0.0753	0.226	5	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	0.691		0.0753	0.226	5	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	35.0		0.376	1.51	5	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	199		0.0753	0.226	5	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	22.7		0.376	1.51	5	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	1.46		0.113	0.376	5	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	0.284		0.0753	0.151	5	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.0387		0.00914	0.0229	1	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	0.00913	JH	0.00580	0.0116	1	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0252	JH	0.00580	0.0116	1	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.0381	JH	0.00580	0.0116	1	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.126	JH	0.00580	0.0116	1	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.146	JH	0.00580	0.0116	1	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.138	JH	0.00580	0.0116	1	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.126		0.00580	0.0116	1	1703266-24A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.0810	JH	0.00580	0.0116	1	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	0.139	JH	0.00580	0.0116	1	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0177	JH	0.00580	0.0116	1	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	0.311	JH	0.00580	0.0116	1	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	0.00776	JH	0.00580	0.0116	1	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.128	JH	0.00580	0.0116	1	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	<0.00580	U	0.00580	0.0116	1	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	0.149	JH	0.00580	0.0116	1	1703266-24A
HA-SB14-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	0.253	JH	0.00580	0.0116	1	1703266-24A
HA-SB15-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	3.80		NS	NS	1	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	5.18		0.426	0.852	5	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	53.3		0.426	0.852	5	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	3040		4.26	17.0	50	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	3.78		0.0852	0.256	5	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	1.63		0.0852	0.256	5	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	82.5		0.426	1.70	5	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	112		0.0852	0.256	5	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	43.9		0.426	1.70	5	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	4.15	J	0.128	0.426	5	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	0.177		0.0852	0.170	5	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	<0.0165	U	0.0165	0.0413	1	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0505		0.00507	0.0101	1	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0385		0.00507	0.0101	1	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.0939		0.00507	0.0101	1	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.382	JL	0.00507	0.0101	1	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.425		0.00507	0.0101	1	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.464		0.00507	0.0101	1	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.362		0.00507	0.0101	1	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.218		0.00507	0.0101	1	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	0.456		0.00507	0.0101	1	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0632		0.00507	0.0101	1	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	1.04	JL	0.00507	0.0101	1	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	0.0309		0.00507	0.0101	1	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.370		0.00507	0.0101	1	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	0.00647	J	0.00507	0.0101	1	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	0.593		0.00507	0.0101	1	1703266-15A
HA-SB15-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	0.802	JL	0.00507	0.0101	1	1703266-15A
HA-SB16-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	7.89		NS	NS	1	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	0.526	J	0.512	1.02	5	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	4.66		0.512	1.02	5	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	267		0.512	2.05	5	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.456		0.102	0.307	5	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	0.650		0.102	0.307	5	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	14.6		0.512	2.05	5	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	104		0.102	0.307	5	1703266-08A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	11.9		0.512	2.05	5	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	1.27	J	0.154	0.512	5	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	0.134	J	0.102	0.205	5	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.0773		0.0164	0.0409	1	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	0.557		0.00539	0.0108	1	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.206		0.00539	0.0108	1	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	1.49		0.00539	0.0108	1	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	3.45	JL	0.00539	0.0108	1	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	3.25		0.00539	0.0108	1	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	2.94		0.00539	0.0108	1	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	2.18		0.00539	0.0108	1	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	1.69		0.00539	0.0108	1	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	3.35		0.00539	0.0108	1	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.513		0.00539	0.0108	1	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	7.44	JL	0.0108	0.0216	2	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	0.448		0.00539	0.0108	1	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	2.45		0.00539	0.0108	1	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	0.339		0.00539	0.0108	1	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	6.56		0.0108	0.0216	2	1703266-08A
HA-SB16-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	5.78	JL	0.0108	0.0216	2	1703266-08A
HA-SB17-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	5.08		NS	NS	1	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	<0.426	U	0.426	0.852	5	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	5.56		0.426	0.852	5	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	88.9		0.426	1.70	5	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.230	J	0.0852	0.256	5	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	0.185	J	0.0852	0.256	5	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	7.52		0.426	1.70	5	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	42.3		0.0852	0.256	5	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	4.98		0.426	1.70	5	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	0.823	J	0.128	0.426	5	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	<0.0852	U	0.0852	0.170	5	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.0549		0.0166	0.0416	1	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0345		0.00500	0.0100	1	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0960		0.00500	0.0100	1	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.162		0.00500	0.0100	1	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.561	JL	0.00500	0.0100	1	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.581		0.00500	0.0100	1	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.590		0.00500	0.0100	1	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.481		0.00500	0.0100	1	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.308		0.00500	0.0100	1	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	0.606		0.00500	0.0100	1	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0884		0.00500	0.0100	1	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	1.25	JL	0.00500	0.0100	1	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	0.0374		0.00500	0.0100	1	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.492		0.00500	0.0100	1	1703266-09A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	0.00976	J	0.00500	0.0100	1	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	0.592		0.00500	0.0100	1	1703266-09A
HA-SB17-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	0.964	JL	0.00500	0.0100	1	1703266-09A
HA-SB18-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	21.1		NS	NS	1	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	<0.542	U	0.542	1.08	5	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	2.66		0.542	1.08	5	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	59.8		0.542	2.17	5	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.123	J	0.108	0.325	5	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	0.317	J	0.108	0.325	5	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	4.95		0.542	2.17	5	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	190		0.108	0.325	5	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	3.57		0.542	2.17	5	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	0.775	J	0.163	0.542	5	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	<0.108	U	0.108	0.217	5	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.174		0.0151	0.0378	1	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	<0.00621	U	0.00621	0.0124	1	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0224		0.00621	0.0124	1	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.0123	J	0.00621	0.0124	1	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.0535	JL	0.00621	0.0124	1	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.072		0.00621	0.0124	1	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.0603		0.00621	0.0124	1	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.0610		0.00621	0.0124	1	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.0327		0.00621	0.0124	1	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	0.0679		0.00621	0.0124	1	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.00952	J	0.00621	0.0124	1	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	0.109	JL	0.00621	0.0124	1	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	<0.00621	U	0.00621	0.0124	1	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.0574		0.00621	0.0124	1	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	<0.00621	U	0.00621	0.0124	1	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	0.0310		0.00621	0.0124	1	1703266-04A
HA-SB18-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	0.103	JL	0.00621	0.0124	1	1703266-04A
HA-SB18-011	0	0.5	FD	3/29/2017	ASTM D2216	%	Percent moisture	19.9		NS	NS	1	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Antimony	<0.571	U	0.571	1.14	5	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Arsenic	2.98		0.571	1.14	5	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Barium	71.3		0.571	2.28	5	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.162	J	0.114	0.343	5	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Cadmium	0.382		0.114	0.343	5	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	5.52		0.571	2.28	5	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Lead	206		0.114	0.343	5	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Nickel	3.91		0.571	2.28	5	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Selenium	0.770	J	0.171	0.571	5	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 6020A	mg/kg	Silver	<0.114	U	0.114	0.228	5	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.170		0.0132	0.0331	1	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	<0.00590	U	0.00590	0.0118	1	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0267		0.00590	0.0118	1	1703266-05A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.0141		0.00590	0.0118	1	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.0694	JL	0.00590	0.0118	1	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.0865		0.00590	0.0118	1	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.0810		0.00590	0.0118	1	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.0697		0.00590	0.0118	1	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.0452		0.00590	0.0118	1	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Chrysene	0.0857		0.00590	0.0118	1	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0112	J	0.00590	0.0118	1	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	0.158	JL	0.00590	0.0118	1	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Fluorene	<0.00590	U	0.00590	0.0118	1	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.0648		0.00590	0.0118	1	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	<0.00590	U	0.00590	0.0118	1	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	0.0490		0.00590	0.0118	1	1703266-05A
HA-SB18-011	0	0.5	FD	3/29/2017	SW-846 8270D	mg/kg	Pyrene	0.161	JL	0.00590	0.0118	1	1703266-05A
HA-SB19-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	3.50		NS	NS	1	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	<0.501	U	0.501	1.00	5	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	2.76		0.501	1.00	5	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	137		0.501	2.00	5	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.208	J	0.100	0.301	5	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	0.201	J	0.100	0.301	5	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	8.67		0.501	2.00	5	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	38.9		0.100	0.301	5	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	6.06		0.501	2.00	5	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	0.648	J	0.150	0.501	5	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	<0.100	U	0.100	0.200	5	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.0548		0.0153	0.0383	1	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	0.111		0.0516	0.103	10	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.215		0.0516	0.103	10	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.500		0.0516	0.103	10	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	1.36	JL	0.0516	0.103	10	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	1.38		0.0516	0.103	10	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	1.39		0.0516	0.103	10	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.966		0.0516	0.103	10	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.750		0.0516	0.103	10	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	1.32		0.0516	0.103	10	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.187		0.0516	0.103	10	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	2.78	JL	0.0516	0.103	10	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	0.152		0.0516	0.103	10	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.946		0.0516	0.103	10	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	<0.0516	U	0.0516	0.103	10	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	1.64		0.0516	0.103	10	1703266-03A
HA-SB19-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	2.14	JL	0.0516	0.103	10	1703266-03A
HA-SB20-013	0	0.5	N	3/31/2017	ASTM D2216	%	Percent moisture	21.8		NS	NS	1	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Antimony	4.11		0.585	1.17	5	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Arsenic	7.41		0.585	1.17	5	1704005-08A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Barium	868		5.85	23.4	50	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Beryllium	0.285	J	0.117	0.351	5	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Cadmium	3.03		0.117	0.351	5	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Chromium, total	29.4		0.585	2.34	5	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Lead	3440		1.17	3.51	50	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Nickel	17.5		0.585	2.34	5	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Selenium	0.779	J	0.175	0.585	5	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 6020A	mg/kg	Silver	0.893		0.117	0.234	5	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 7471B	mg/kg	Mercury	0.470		0.101	0.253	5	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Acenaphthene	0.266		0.00614	0.0123	1	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.541		0.00614	0.0123	1	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Anthracene	1.06		0.00614	0.0123	1	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	3.88	JL	0.00614	0.0123	1	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	4.08		0.00614	0.0123	1	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	3.98		0.00614	0.0123	1	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	2.65		0.00614	0.0123	1	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	2.13		0.00614	0.0123	1	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Chrysene	3.74		0.00614	0.0123	1	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.609		0.00614	0.0123	1	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Fluoranthene	7.74	JL	0.0123	0.0245	2	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Fluorene	0.318		0.00614	0.0123	1	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	2.95		0.00614	0.0123	1	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Naphthalene	0.0670		0.00614	0.0123	1	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Phenanthrene	4.38		0.00614	0.0123	1	1704005-08A
HA-SB20-013	0	0.5	N	3/31/2017	SW-846 8270D	mg/kg	Pyrene	5.92	JL	0.00614	0.0123	1	1704005-08A
HA-SB20-020	0.75	1.08	N	3/31/2017	ASTM D2216	%	Percent moisture	18.6		NS	NS	1	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 6020A	mg/kg	Antimony	6.06	J	0.523	1.05	5	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 6020A	mg/kg	Arsenic	9.02		0.523	1.05	5	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 6020A	mg/kg	Barium	283		0.523	2.09	5	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 6020A	mg/kg	Beryllium	0.249	J	0.105	0.314	5	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 6020A	mg/kg	Cadmium	9.76		0.105	0.314	5	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 6020A	mg/kg	Chromium, total	29.8		0.523	2.09	5	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 6020A	mg/kg	Lead	1250		1.05	3.14	50	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 6020A	mg/kg	Nickel	17.7		0.523	2.09	5	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 6020A	mg/kg	Selenium	0.848		0.157	0.523	5	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 6020A	mg/kg	Silver	0.575		0.105	0.209	5	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 7471B	mg/kg	Mercury	2.77		0.308	0.771	20	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 8270D	mg/kg	Acenaphthene	0.988	J	0.00564	0.0113	1	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.913	J	0.00564	0.0113	1	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 8270D	mg/kg	Anthracene	2.37	J	0.00564	0.0113	1	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	5.45	J	0.00564	0.0113	1	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	5.16	J	0.00564	0.0113	1	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	5.10	J	0.00564	0.0113	1	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	3.73	J	0.00564	0.0113	1	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	2.62	J	0.00564	0.0113	1	1704005-09A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 8270D	mg/kg	Chrysene	5.60	J	0.00564	0.0113	1	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.753	J	0.00564	0.0113	1	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 8270D	mg/kg	Fluoranthene	17.7	J	0.0580	0.116	10	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 8270D	mg/kg	Fluorene	0.979	J	0.00564	0.0113	1	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	3.95	J	0.00564	0.0113	1	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 8270D	mg/kg	Naphthalene	0.905	J	0.00564	0.0113	1	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 8270D	mg/kg	Phenanthrene	14.5	J	0.0580	0.116	10	1704005-09A
HA-SB20-020	0.75	1.08	N	3/31/2017	SW-846 8270D	mg/kg	Pyrene	12.6	J	0.0580	0.116	10	1704005-09A
HA-SB20-021	0.75	1.08	FD	3/31/2017	ASTM D2216	%	Percent moisture	22.1		NS	NS	1	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 6020A	mg/kg	Antimony	3.56	J	0.358	0.717	5	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 6020A	mg/kg	Arsenic	8.78		0.358	0.717	5	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 6020A	mg/kg	Barium	439		3.58	14.3	50	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 6020A	mg/kg	Beryllium	0.246		0.0717	0.215	5	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 6020A	mg/kg	Cadmium	6.48		0.0717	0.215	5	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 6020A	mg/kg	Chromium, total	27.1		0.358	1.43	5	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 6020A	mg/kg	Lead	770		0.717	2.15	50	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 6020A	mg/kg	Nickel	18.8		0.358	1.43	5	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 6020A	mg/kg	Selenium	0.784		0.108	0.358	5	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 6020A	mg/kg	Silver	0.458		0.0717	0.143	5	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 7471B	mg/kg	Mercury	3.34		0.332	0.831	20	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 8270D	mg/kg	Acenaphthene	0.394	J	0.00620	0.0124	1	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.304	J	0.00620	0.0124	1	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 8270D	mg/kg	Anthracene	1.05	J	0.00620	0.0124	1	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	2.55	J	0.00620	0.0124	1	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	2.45	J	0.00620	0.0124	1	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	2.43	J	0.00620	0.0124	1	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	1.79	J	0.00620	0.0124	1	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	1.28	J	0.00620	0.0124	1	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 8270D	mg/kg	Chrysene	2.65	J	0.00620	0.0124	1	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.343	J	0.00620	0.0124	1	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 8270D	mg/kg	Fluoranthene	6.57	J	0.0126	0.0251	2	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 8270D	mg/kg	Fluorene	0.399	J	0.00620	0.0124	1	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	1.83	J	0.00620	0.0124	1	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 8270D	mg/kg	Naphthalene	0.281	J	0.00620	0.0124	1	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 8270D	mg/kg	Phenanthrene	5.31	J	0.00620	0.0124	1	1704005-10A
HA-SB20-021	0.75	1.08	FD	3/31/2017	SW-846 8270D	mg/kg	Pyrene	4.90	J	0.00620	0.0124	1	1704005-10A
HA-SB21-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	4.23		NS	NS	1	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	0.694	J	0.468	0.936	5	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	4.40		0.468	0.936	5	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	345	JL	0.468	1.87	5	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.185	J	0.0936	0.281	5	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	1.61		0.0936	0.281	5	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	12.1		0.468	1.87	5	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	89.8		0.0936	0.281	5	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	7.52		0.468	1.87	5	1703266-26A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	0.460	J	0.140	0.468	5	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	<0.0936	U	0.0936	0.187	5	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.176		0.0149	0.0372	1	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	0.160	JH	0.00514	0.0103	1	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.145	JH	0.00514	0.0103	1	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.495	JH	0.00514	0.0103	1	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	1.05	JH	0.00514	0.0103	1	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	1.06	JH	0.00514	0.0103	1	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	1.01	JH	0.00514	0.0103	1	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.613		0.00514	0.0103	1	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.579	JH	0.00514	0.0103	1	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	1.09	JH	0.00514	0.0103	1	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.146	JH	0.00514	0.0103	1	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	2.59	JH	0.00514	0.0103	1	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	0.151	JH	0.00514	0.0103	1	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.778	JH	0.00514	0.0103	1	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	0.0752		0.00514	0.0103	1	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	2.18	JH	0.00514	0.0103	1	1703266-26A
HA-SB21-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	2.15	JH	0.00514	0.0103	1	1703266-26A
HA-SB22-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	14.4		NS	NS	1	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	3.41		0.497	0.994	5	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	10.7		0.497	0.994	5	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	158	JL	0.497	1.99	5	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.236	J	0.0994	0.298	5	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	1.25		0.0994	0.298	5	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	126		0.497	1.99	5	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	50.4		0.0994	0.298	5	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	174		0.497	1.99	5	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	0.244	J	0.149	0.497	5	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	0.127	J	0.0994	0.199	5	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.0498		0.0119	0.0297	1	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	<0.00554	U	0.00554	0.0111	1	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.00766	JH	0.00554	0.0111	1	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.0205	JH	0.00554	0.0111	1	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.151	JH	0.00554	0.0111	1	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.175	JH	0.00554	0.0111	1	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.177	JH	0.00554	0.0111	1	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.159		0.00554	0.0111	1	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.0930	JH	0.00554	0.0111	1	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	0.169	JH	0.00554	0.0111	1	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0192	JH	0.00554	0.0111	1	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	0.254	JH	0.00554	0.0111	1	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	<0.00554	U	0.00554	0.0111	1	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.156	JH	0.00554	0.0111	1	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	<0.00554	U	0.00554	0.0111	1	1703266-25A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	0.0669	JH	0.00554	0.0111	1	1703266-25A
HA-SB22-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	0.231	JH	0.00554	0.0111	1	1703266-25A
HA-SB23-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	6.56		NS	NS	1	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	2.60		0.499	0.998	5	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	5.54		0.499	0.998	5	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	211	JL	0.499	2.00	5	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.334		0.0998	0.299	5	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	1.41		0.0998	0.299	5	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	368		0.499	2.00	5	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	319		0.0998	0.299	5	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	166		0.499	2.00	5	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	0.884		0.150	0.499	5	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	0.286		0.0998	0.200	5	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.0799		0.0163	0.0407	1	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	<0.00522	U	0.00522	0.0104	1	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0376	JH	0.00522	0.0104	1	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.0382	JH	0.00522	0.0104	1	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.0634	JH	0.00522	0.0104	1	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.0742	JH	0.00522	0.0104	1	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.102	JH	0.00522	0.0104	1	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.0926		0.00522	0.0104	1	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.0522	JH	0.00522	0.0104	1	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	0.0873	JH	0.00522	0.0104	1	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0107	JH	0.00522	0.0104	1	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	0.162	JH	0.00522	0.0104	1	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	0.00616	JH	0.00522	0.0104	1	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.0765	JH	0.00522	0.0104	1	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	<0.00522	U	0.00522	0.0104	1	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	0.0635	JH	0.00522	0.0104	1	1703266-27A
HA-SB23-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	0.147	JH	0.00522	0.0104	1	1703266-27A
HA-SB24-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	17.8		NS	NS	1	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	1.20		0.548	1.10	5	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	3.97		0.548	1.10	5	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	410		0.548	2.19	5	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.291	J	0.110	0.329	5	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	0.938		0.110	0.329	5	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	13.5		0.548	2.19	5	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	358		0.110	0.329	5	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	9.03		0.548	2.19	5	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	0.791	J	0.164	0.548	5	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	0.228		0.110	0.219	5	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.350		0.0164	0.0411	1	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0529		0.00563	0.0113	1	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.111		0.00563	0.0113	1	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.209		0.00563	0.0113	1	1703266-07A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.736	JL	0.00563	0.0113	1	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.777		0.00563	0.0113	1	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.787		0.00563	0.0113	1	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.575		0.00563	0.0113	1	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.402		0.00563	0.0113	1	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	0.771		0.00563	0.0113	1	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.111		0.00563	0.0113	1	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	1.56	JL	0.00563	0.0113	1	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	0.0451		0.00563	0.0113	1	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.589		0.00563	0.0113	1	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	0.0155		0.00563	0.0113	1	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	0.812		0.00563	0.0113	1	1703266-07A
HA-SB24-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	1.23	JL	0.00563	0.0113	1	1703266-07A
HA-SB25-010	0	0.5	N	3/30/2017	ASTM D2216	%	Percent moisture	13.2		NS	NS	1	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Antimony	0.628	J	0.490	0.980	5	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Arsenic	3.21		0.490	0.980	5	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Barium	208	JL	0.490	1.96	5	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Beryllium	0.276	J	0.0980	0.294	5	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Cadmium	1.08		0.0980	0.294	5	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	17.1		0.490	1.96	5	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Lead	394		0.0980	0.294	5	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Nickel	5.41		0.490	1.96	5	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Selenium	0.829		0.147	0.490	5	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Silver	0.374		0.0980	0.196	5	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 7471B	mg/kg	Mercury	0.126		0.0179	0.0447	1	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0429	JH	0.00567	0.0113	1	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.119	JH	0.00567	0.0113	1	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Anthracene	0.186	JH	0.00567	0.0113	1	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.565	JH	0.00567	0.0113	1	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.630	JH	0.00567	0.0113	1	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.599	JH	0.00567	0.0113	1	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.369		0.00567	0.0113	1	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.330	JH	0.00567	0.0113	1	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Chrysene	0.701	JH	0.00567	0.0113	1	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0772	JH	0.00567	0.0113	1	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	1.29	JH	0.00567	0.0113	1	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluorene	0.0521	JH	0.00567	0.0113	1	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.444	JH	0.00567	0.0113	1	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	0.0158		0.00567	0.0113	1	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	0.771	JH	0.00567	0.0113	1	1703266-43A
HA-SB25-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Pyrene	1.18	JH	0.00567	0.0113	1	1703266-43A
HA-SB26-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	12.2		NS	NS	1	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	0.517	J	0.459	0.918	5	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	3.45		0.459	0.918	5	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	45.8		0.459	1.84	5	1703266-06A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.133	J	0.0918	0.275	5	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	0.745		0.0918	0.275	5	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	6.30		0.459	1.84	5	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	60.1		0.0918	0.275	5	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	4.35		0.459	1.84	5	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	0.657	J	0.138	0.459	5	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	0.0924	J	0.0918	0.184	5	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.0295	J	0.0156	0.0391	1	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	<0.00533	U	0.00533	0.0107	1	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0395		0.00533	0.0107	1	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.0243		0.00533	0.0107	1	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.101	JL	0.00533	0.0107	1	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.144		0.00533	0.0107	1	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.143		0.00533	0.0107	1	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.126		0.00533	0.0107	1	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.0795		0.00533	0.0107	1	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	0.165		0.00533	0.0107	1	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0174		0.00533	0.0107	1	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	0.323	JL	0.00533	0.0107	1	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	<0.00533	U	0.00533	0.0107	1	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.114		0.00533	0.0107	1	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	<0.00533	U	0.00533	0.0107	1	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	0.131		0.00533	0.0107	1	1703266-06A
HA-SB26-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	0.273	JL	0.00533	0.0107	1	1703266-06A
HA-SB27-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	29.1		NS	NS	1	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	<0.668	U	0.668	1.34	5	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	2.31		0.668	1.34	5	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	209		0.668	2.67	5	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.317	J	0.134	0.401	5	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	0.617		0.134	0.401	5	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	10.7		0.668	2.67	5	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	89.2		0.134	0.401	5	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	6.26		0.668	2.67	5	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	1.01	J	0.200	0.668	5	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	0.158	J	0.134	0.267	5	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.0744		0.0179	0.0448	1	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	0.187		0.00651	0.0130	1	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.105		0.00651	0.0130	1	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.453		0.00651	0.0130	1	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	1.13	JL	0.00651	0.0130	1	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	1.10		0.00651	0.0130	1	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	1.07		0.00651	0.0130	1	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.815		0.00651	0.0130	1	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.597		0.00651	0.0130	1	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	1.19		0.00651	0.0130	1	1703266-02A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.168		0.00651	0.0130	1	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	2.66	JL	0.00651	0.0130	1	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	0.188		0.00651	0.0130	1	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.868		0.00651	0.0130	1	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	0.0722		0.00651	0.0130	1	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	2.25		0.00651	0.0130	1	1703266-02A
HA-SB27-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	2.16	JL	0.00651	0.0130	1	1703266-02A
HA-SB28-010	0	0.5	N	3/29/2017	ASTM D2216	%	Percent moisture	7.20		NS	NS	1	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Antimony	<0.499	U	0.499	0.997	5	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Arsenic	2.36		0.499	0.997	5	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Barium	108		0.499	1.99	5	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Beryllium	0.200	J	0.0997	0.299	5	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Cadmium	0.283	J	0.0997	0.299	5	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Chromium, total	6.18		0.499	1.99	5	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Lead	19.5		0.0997	0.299	5	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Nickel	4.50		0.499	1.99	5	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Selenium	0.805	J	0.150	0.499	5	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 6020A	mg/kg	Silver	<0.0997	U	0.0997	0.199	5	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 7471B	mg/kg	Mercury	0.0194	J	0.0170	0.0425	1	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthene	<0.00533	U	0.00533	0.0107	1	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.00958	J	0.00533	0.0107	1	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Anthracene	0.0192		0.00533	0.0107	1	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.0850	JL	0.00533	0.0107	1	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.109		0.00533	0.0107	1	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.117		0.00533	0.0107	1	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.117		0.00533	0.0107	1	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.0602		0.00533	0.0107	1	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Chrysene	0.110		0.00533	0.0107	1	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0167		0.00533	0.0107	1	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluoranthene	0.193	JL	0.00533	0.0107	1	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Fluorene	<0.00533	U	0.00533	0.0107	1	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.111		0.00533	0.0107	1	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Naphthalene	<0.00533	U	0.00533	0.0107	1	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Phenanthrene	0.0733		0.00533	0.0107	1	1703266-01A
HA-SB28-010	0	0.5	N	3/29/2017	SW-846 8270D	mg/kg	Pyrene	0.170	JL	0.00533	0.0107	1	1703266-01A
HA-SB29-010	0	0.5	N	3/30/2017	ASTM D2216	%	Percent moisture	30.6		NS	NS	1	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Antimony	2.23		0.675	1.35	5	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Arsenic	6.83		0.675	1.35	5	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Barium	546	JL	0.675	2.70	5	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Beryllium	0.326	J	0.135	0.405	5	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Cadmium	1.35		0.135	0.405	5	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	31.6		0.675	2.70	5	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Lead	307		0.135	0.405	5	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Nickel	16.8		0.675	2.70	5	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Selenium	0.968		0.203	0.675	5	1703266-28A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Silver	0.371		0.135	0.270	5	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 7471B	mg/kg	Mercury	0.152		0.0219	0.0547	1	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	0.121	JH	0.00701	0.0140	1	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.264	JH	0.00701	0.0140	1	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Anthracene	0.645	JH	0.00701	0.0140	1	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	3.16	JH	0.00701	0.0140	1	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	4.25	JH	0.00701	0.0140	1	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	4.93	JH	0.00701	0.0140	1	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	2.96		0.00701	0.0140	1	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	2.52	JH	0.00701	0.0140	1	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Chrysene	4.27	JH	0.00701	0.0140	1	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.566	JH	0.00701	0.0140	1	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	7.15	JH	0.0140	0.0281	2	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluorene	0.118	JH	0.00701	0.0140	1	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	3.68	JH	0.00701	0.0140	1	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	0.0283		0.00701	0.0140	1	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	2.89	JH	0.00701	0.0140	1	1703266-28A
HA-SB29-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Pyrene	6.10	JH	0.0140	0.0281	2	1703266-28A
HA-SB30-010	0	0.5	N	3/30/2017	ASTM D2216	%	Percent moisture	35.1		NS	NS	1	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Antimony	2.09		0.710	1.42	5	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Arsenic	8.97		0.710	1.42	5	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Barium	617	JL	0.710	2.84	5	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Beryllium	0.798		0.142	0.426	5	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Cadmium	1.97		0.142	0.426	5	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	40.8		0.710	2.84	5	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Lead	410		0.142	0.426	5	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Nickel	26.8		0.710	2.84	5	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Selenium	1.40		0.213	0.710	5	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Silver	0.716		0.142	0.284	5	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 7471B	mg/kg	Mercury	0.232		0.0210	0.0525	1	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0964	JH	0.00714	0.0143	1	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.134	JH	0.00714	0.0143	1	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Anthracene	0.438	JH	0.00714	0.0143	1	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	1.21	JH	0.00714	0.0143	1	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	1.34	JH	0.00714	0.0143	1	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	1.45	JH	0.00714	0.0143	1	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.756		0.00714	0.0143	1	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.765	JH	0.00714	0.0143	1	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Chrysene	1.35	JH	0.00714	0.0143	1	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.152	JH	0.00714	0.0143	1	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	3.09	JH	0.00714	0.0143	1	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluorene	0.0905	JH	0.00714	0.0143	1	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.974	JH	0.00714	0.0143	1	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	0.0219		0.00714	0.0143	1	1703266-41A
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	1.33	JH	0.00714	0.0143	1	1703266-41A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB30-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Pyrene	2.53	JH	0.00714	0.0143	1	1703266-41A
HA-SB30-020	0.5	1	N	3/30/2017	ASTM D2216	%	Percent moisture	37.2		NS	NS	1	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Antimony	2.89		0.529	1.06	5	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Arsenic	10.8		0.529	1.06	5	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Barium	619		2.64	10.6	25	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Beryllium	0.571		0.106	0.317	5	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Cadmium	2.55		0.106	0.317	5	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	43.8		0.529	2.12	5	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Lead	564		0.529	1.59	25	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Nickel	30.6		0.529	2.12	5	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Selenium	1.18		0.159	0.529	5	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Silver	0.473		0.106	0.212	5	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 7471B	mg/kg	Mercury	0.289		0.0158	0.0396	1	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0239		0.00747	0.0149	1	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0467		0.00747	0.0149	1	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Anthracene	0.108		0.00747	0.0149	1	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.330		0.00747	0.0149	1	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.376		0.00747	0.0149	1	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.386		0.00747	0.0149	1	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.332		0.00747	0.0149	1	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.199		0.00747	0.0149	1	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Chrysene	0.397		0.00747	0.0149	1	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0524		0.00747	0.0149	1	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	0.784		0.00747	0.0149	1	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Fluorene	0.0237		0.00747	0.0149	1	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.322		0.00747	0.0149	1	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	<0.00747	U	0.00747	0.0149	1	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	0.336		0.00747	0.0149	1	1703266-42A
HA-SB30-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Pyrene	0.615		0.00747	0.0149	1	1703266-42A
HA-SB31-010	0	0.5	N	3/30/2017	ASTM D2216	%	Percent moisture	48.8		NS	NS	1	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Antimony	5.12		0.914	1.83	5	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Arsenic	16.4		0.914	1.83	5	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Barium	551	JL	0.914	3.66	5	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Beryllium	0.289	J	0.183	0.548	5	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Cadmium	2.37		0.183	0.548	5	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	33.1		0.914	3.66	5	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Lead	520		0.183	0.548	5	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Nickel	18.6		0.914	3.66	5	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Selenium	0.963		0.274	0.914	5	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Silver	1.10		0.183	0.366	5	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 7471B	mg/kg	Mercury	0.199		0.0274	0.0686	1	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	3.05	JH	0.0898	0.180	10	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	5.18	JH	0.0898	0.180	10	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Anthracene	13.1	JH	0.0898	0.180	10	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	42.5	JH	0.0898	0.180	10	1703266-32A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	45.4	JH	0.0898	0.180	10	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	47.0	JH	0.0898	0.180	10	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	33.1	JL	0.0898	0.180	10	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	26.3	JH	0.0898	0.180	10	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Chrysene	44.8	JH	0.0898	0.180	10	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	7.01	JH	0.0898	0.180	10	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	105	JH	0.180	0.359	20	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluorene	2.87	JH	0.0898	0.180	10	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	40.7	JH	0.0898	0.180	10	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	0.770		0.0898	0.180	10	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	43.6	JH	0.0898	0.180	10	1703266-32A
HA-SB31-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Pyrene	72.1	JH	0.0898	0.180	10	1703266-32A
HA-SB32-010	0	0.5	N	3/30/2017	ASTM D2216	%	Percent moisture	35.4		NS	NS	1	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Antimony	<0.724	U	0.724	1.45	5	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Arsenic	4.21		0.724	1.45	5	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Barium	216	JL	0.724	2.90	5	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Beryllium	0.269	J	0.145	0.434	5	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Cadmium	0.479		0.145	0.434	5	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	11.7		0.724	2.90	5	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Lead	96.0		0.145	0.434	5	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Nickel	8.59		0.724	2.90	5	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Selenium	0.789		0.217	0.724	5	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Silver	0.182	J	0.145	0.290	5	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 7471B	mg/kg	Mercury	0.0526	J	0.0247	0.0617	1	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	0.337	JH	0.00726	0.0145	1	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.681	JH	0.00726	0.0145	1	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Anthracene	1.58	JH	0.00726	0.0145	1	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	5.83	JH	0.00726	0.0145	1	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	6.55	JH	0.00726	0.0145	1	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	7.15	JH	0.00726	0.0145	1	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	4.09		0.00726	0.0145	1	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	3.88	JH	0.00726	0.0145	1	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Chrysene	6.46	JH	0.00726	0.0145	1	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.901	JH	0.00726	0.0145	1	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	11.4	JH	0.0145	0.0290	2	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluorene	0.354	JH	0.00726	0.0145	1	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	5.17	JH	0.00726	0.0145	1	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	0.0511		0.00726	0.0145	1	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	5.06	JH	0.00726	0.0145	1	1703266-30A
HA-SB32-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Pyrene	9.14	JH	0.0145	0.0290	2	1703266-30A
HA-SB32-020	0.5	1	N	3/30/2017	ASTM D2216	%	Percent moisture	20.8		NS	NS	1	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Antimony	<0.433	U	0.433	0.866	5	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Arsenic	1.49		0.433	0.866	5	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Barium	15.8		0.433	1.73	5	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Beryllium	<0.0866	U	0.0866	0.260	5	1703266-31A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Cadmium	<0.0866	U	0.0866	0.260	5	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	2.76		0.433	1.73	5	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Lead	11.5		0.0866	0.260	5	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Nickel	1.91		0.433	1.73	5	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Selenium	0.467		0.130	0.433	5	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 6020A	mg/kg	Silver	<0.0866	U	0.0866	0.173	5	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 7471B	mg/kg	Mercury	<0.0126	U	0.0126	0.0315	1	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	<0.00610	U	0.00610	0.0122	1	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	<0.00610	U	0.00610	0.0122	1	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Anthracene	0.0152		0.00610	0.0122	1	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.0556		0.00610	0.0122	1	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.0541		0.00610	0.0122	1	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.0505		0.00610	0.0122	1	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.0401		0.00610	0.0122	1	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.0290		0.00610	0.0122	1	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Chrysene	0.0514		0.00610	0.0122	1	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.00655	J	0.00610	0.0122	1	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	0.127		0.00610	0.0122	1	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Fluorene	<0.00610	U	0.00610	0.0122	1	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.0387		0.00610	0.0122	1	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	<0.00610	U	0.00610	0.0122	1	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	0.0546		0.00610	0.0122	1	1703266-31A
HA-SB32-020	0.5	1	N	3/30/2017	SW-846 8270D	mg/kg	Pyrene	0.0975		0.00610	0.0122	1	1703266-31A
HA-SB33-010	0	0.5	N	3/30/2017	ASTM D2216	%	Percent moisture	11.5		NS	NS	1	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Antimony	0.618	J	0.565	1.13	5	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Arsenic	3.29		0.565	1.13	5	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Barium	149	JL	0.565	2.26	5	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Beryllium	0.135	J	0.113	0.339	5	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Cadmium	0.281	J	0.113	0.339	5	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	7.15		0.565	2.26	5	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Lead	76.3		0.113	0.339	5	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Nickel	6.90		0.565	2.26	5	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Selenium	0.443	J	0.169	0.565	5	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Silver	0.119	J	0.113	0.226	5	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 7471B	mg/kg	Mercury	0.0648		0.0171	0.0428	1	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	<0.0531	U	0.0531	0.106	10	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.181	JH	0.0531	0.106	10	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Anthracene	0.182	JH	0.0531	0.106	10	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.444	JH	0.0531	0.106	10	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.576	JH	0.0531	0.106	10	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.591	JH	0.0531	0.106	10	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.546	JL	0.0531	0.106	10	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.281	JH	0.0531	0.106	10	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Chrysene	0.627	JH	0.0531	0.106	10	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0871	JH	0.0531	0.106	10	1703266-38A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	0.893	JH	0.0531	0.106	10	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluorene	<0.0531	U	0.0531	0.106	10	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.526	JH	0.0531	0.106	10	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	<0.0531	U	0.0531	0.106	10	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	0.372	JH	0.0531	0.106	10	1703266-38A
HA-SB33-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Pyrene	1.01	JH	0.0531	0.106	10	1703266-38A
HA-SB34-010	0	0.5	N	3/30/2017	ASTM D2216	%	Percent moisture	53.9		NS	NS	1	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Antimony	9.36		1.03	2.05	5	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Arsenic	6.52		1.03	2.05	5	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Barium	446	JL	1.03	4.11	5	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Beryllium	0.367	J	0.205	0.616	5	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Cadmium	1.79		0.205	0.616	5	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	29.3		1.03	4.11	5	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Lead	1920		1.03	3.08	25	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Nickel	22.3		1.03	4.11	5	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Selenium	1.08		0.308	1.03	5	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Silver	1.04		0.205	0.411	5	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 7471B	mg/kg	Mercury	0.340		0.0254	0.0636	1	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	0.272	JH	0.0103	0.0205	1	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.688	JH	0.0103	0.0205	1	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Anthracene	1.31	JH	0.0103	0.0205	1	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	4.64	JH	0.0103	0.0205	1	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	5.63	JH	0.0103	0.0205	1	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	6.02	JH	0.0103	0.0205	1	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	3.40		0.0103	0.0205	1	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	3.05	JH	0.0103	0.0205	1	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Chrysene	5.19	JH	0.0103	0.0205	1	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.738	JH	0.0103	0.0205	1	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	9.44	JH	0.0205	0.0410	2	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluorene	0.279	JH	0.0103	0.0205	1	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	4.32	JH	0.0103	0.0205	1	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	0.0566		0.0103	0.0205	1	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	4.43	JH	0.0103	0.0205	1	1703266-29A
HA-SB34-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Pyrene	8.59	JH	0.0103	0.0205	1	1703266-29A
HA-SB35-010	0	0.5	N	3/30/2017	ASTM D2216	%	Percent moisture	14.1		NS	NS	1	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Antimony	12.3		0.566	1.13	5	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Arsenic	111		0.566	1.13	5	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Barium	1640	JL	11.3	45.3	100	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Beryllium	0.433		0.113	0.339	5	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Cadmium	15.9		0.113	0.339	5	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	47.4		0.566	2.26	5	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Lead	4370		2.26	6.79	100	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Nickel	30.5		0.566	2.26	5	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Selenium	2.01		0.170	0.566	5	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Silver	3.02		0.113	0.226	5	1703266-35A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 7471B	mg/kg	Mercury	0.313		0.0185	0.0462	1	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	0.491	JH	0.00567	0.0113	1	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.104	JH	0.00567	0.0113	1	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Anthracene	2.44	JH	0.00567	0.0113	1	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	5.93	JH	0.0567	0.113	10	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	5.52	JH	0.00567	0.0113	1	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	5.65	JH	0.00567	0.0113	1	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	2.90		0.00567	0.0113	1	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	2.97	JH	0.00567	0.0113	1	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Chrysene	6.11	JH	0.0567	0.113	10	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.804	JH	0.00567	0.0113	1	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	12.2	JH	0.0567	0.113	10	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluorene	0.482	JH	0.00567	0.0113	1	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	3.68	JH	0.00567	0.0113	1	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	0.228		0.00567	0.0113	1	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	9.04	JH	0.0567	0.113	10	1703266-35A
HA-SB35-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Pyrene	9.99	JH	0.0567	0.113	10	1703266-35A
HA-SB36-010	0	0.5	N	3/30/2017	ASTM D2216	%	Percent moisture	8.42		NS	NS	1	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Antimony	<0.466	U	0.466	0.932	5	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Arsenic	1.87		0.466	0.932	5	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Barium	238	JL	0.466	1.86	5	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Beryllium	0.121	J	0.0932	0.280	5	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Cadmium	0.203	J	0.0932	0.280	5	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	13.6		0.466	1.86	5	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Lead	52.1		0.0932	0.280	5	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Nickel	7.32		0.466	1.86	5	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Selenium	0.429	J	0.140	0.466	5	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Silver	<0.0932	U	0.0932	0.186	5	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 7471B	mg/kg	Mercury	0.0359	J	0.0167	0.0418	1	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0115	JH	0.00518	0.0104	1	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0569	JH	0.00518	0.0104	1	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Anthracene	0.0882	JH	0.00518	0.0104	1	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.397	JH	0.00518	0.0104	1	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.606	JH	0.00518	0.0104	1	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.805	JH	0.00518	0.0104	1	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.474		0.00518	0.0104	1	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.412	JH	0.00518	0.0104	1	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Chrysene	0.753	JH	0.00518	0.0104	1	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0780	JH	0.00518	0.0104	1	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	1.13	JH	0.00518	0.0104	1	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluorene	0.0149	JH	0.00518	0.0104	1	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.576	JH	0.00518	0.0104	1	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	<0.00518	U	0.00518	0.0104	1	1703266-40A
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	0.276	JH	0.00518	0.0104	1	1703266-40A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB36-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Pyrene	0.939	JH	0.00518	0.0104	1	1703266-40A
HA-SB37-013	0	0.5	N	3/30/2017	ASTM D2216	%	Percent moisture	26.3		NS	NS	1	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Antimony	<0.576	U	0.576	1.15	5	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Arsenic	2.60		0.576	1.15	5	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Barium	153	JL	0.576	2.30	5	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Beryllium	<0.115	U	0.115	0.346	5	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Cadmium	0.219	J	0.115	0.346	5	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	7.30		0.576	2.30	5	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Lead	37.5		0.115	0.346	5	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Nickel	5.65		0.576	2.30	5	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Selenium	0.396	J	0.173	0.576	5	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Silver	<0.115	U	0.115	0.230	5	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 7471B	mg/kg	Mercury	0.0348	J	0.0183	0.0458	1	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	<0.00660	U	0.00660	0.0132	1	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0393	JH	0.00660	0.0132	1	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Anthracene	0.0391	JH	0.00660	0.0132	1	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.104	JH	0.00660	0.0132	1	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.163	JH	0.00660	0.0132	1	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.192	JH	0.00660	0.0132	1	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.197	JL	0.00660	0.0132	1	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.0980	JH	0.00660	0.0132	1	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Chrysene	0.147	JH	0.00660	0.0132	1	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0251	JH	0.00660	0.0132	1	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	0.205	JH	0.00660	0.0132	1	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluorene	0.00714	JH	0.00660	0.0132	1	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.176	JH	0.00660	0.0132	1	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	<0.00660	U	0.00660	0.0132	1	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	0.0434	JH	0.00660	0.0132	1	1703266-39A
HA-SB37-013	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Pyrene	0.191	JH	0.00660	0.0132	1	1703266-39A
HA-SB38-010	0	0.5	N	3/30/2017	ASTM D2216	%	Percent moisture	2.66		NS	NS	1	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Antimony	0.695	J	0.493	0.986	5	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Arsenic	3.97		0.493	0.986	5	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Barium	251	JL	0.493	1.97	5	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Beryllium	0.199	J	0.0986	0.296	5	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Cadmium	0.448		0.0986	0.296	5	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	7.54		0.493	1.97	5	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Lead	92.1		0.0986	0.296	5	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Nickel	6.93		0.493	1.97	5	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Selenium	0.603		0.148	0.493	5	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Silver	0.136	J	0.0986	0.197	5	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 7471B	mg/kg	Mercury	0.0623		0.0156	0.0391	1	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0122	JH	0.00502	0.0100	1	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0575	JH	0.00502	0.0100	1	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Anthracene	0.0840	JH	0.00502	0.0100	1	1703266-34A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.295	JH	0.00502	0.0100	1	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.365	JH	0.00502	0.0100	1	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.342	JH	0.00502	0.0100	1	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.323	JL	0.00502	0.0100	1	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.186	JH	0.00502	0.0100	1	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Chrysene	0.319	JH	0.00502	0.0100	1	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0528	JH	0.00502	0.0100	1	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	0.505	JH	0.00502	0.0100	1	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluorene	0.0149	JH	0.00502	0.0100	1	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.306	JH	0.00502	0.0100	1	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	<0.00502	U	0.00502	0.0100	1	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	0.177	JH	0.00502	0.0100	1	1703266-34A
HA-SB38-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Pyrene	0.418	JH	0.00502	0.0100	1	1703266-34A
HA-SB39-010	0	0.5	N	3/30/2017	ASTM D2216	%	Percent moisture	20.0		NS	NS	1	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Antimony	0.511	J	0.412	0.825	5	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Arsenic	4.46		0.412	0.825	5	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Barium	236	JL	0.412	1.65	5	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Beryllium	0.689		0.0825	0.247	5	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Cadmium	0.419		0.0825	0.247	5	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	19.6		0.412	1.65	5	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Lead	115		0.0825	0.247	5	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Nickel	10.8		0.412	1.65	5	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Selenium	1.17		0.124	0.412	5	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Silver	0.201		0.0825	0.165	5	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 7471B	mg/kg	Mercury	0.108		0.0193	0.0483	1	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0244	JH	0.00624	0.0125	1	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.178	JH	0.00624	0.0125	1	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Anthracene	0.185	JH	0.00624	0.0125	1	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.446	JH	0.00624	0.0125	1	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.596	JH	0.00624	0.0125	1	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.525	JH	0.00624	0.0125	1	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.648	JL	0.00624	0.0125	1	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.283	JH	0.00624	0.0125	1	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Chrysene	0.488	JH	0.00624	0.0125	1	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0843	JH	0.00624	0.0125	1	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	0.803	JH	0.00624	0.0125	1	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluorene	0.0278	JH	0.00624	0.0125	1	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.529	JH	0.00624	0.0125	1	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	0.0237		0.00624	0.0125	1	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	0.239	JH	0.00624	0.0125	1	1703266-33A
HA-SB39-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Pyrene	0.734	JH	0.00624	0.0125	1	1703266-33A
HA-SB40-010	0	0.5	N	3/30/2017	ASTM D2216	%	Percent moisture	60.8		NS	NS	1	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Antimony	<1.20	U	1.2	2.40	5	1703266-36A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Arsenic	5.87		1.2	2.40	5	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Barium	235	JL	1.2	4.80	5	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Beryllium	<0.240	U	0.240	0.720	5	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Cadmium	0.315	J	0.240	0.720	5	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	11.8		1.2	4.80	5	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Lead	63.4		0.240	0.720	5	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Nickel	5.73		1.2	4.80	5	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Selenium	0.569	J	0.360	1.20	5	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Silver	<0.240	U	0.240	0.480	5	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 7471B	mg/kg	Mercury	0.0533	J	0.0382	0.0956	1	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	<0.0121	U	0.0121	0.0241	1	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0755	JH	0.0121	0.0241	1	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Anthracene	0.0715	JH	0.0121	0.0241	1	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.268	JH	0.0121	0.0241	1	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.425	JH	0.0121	0.0241	1	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.544	JH	0.0121	0.0241	1	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.347		0.0121	0.0241	1	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.261	JH	0.0121	0.0241	1	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Chrysene	0.397	JH	0.0121	0.0241	1	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0654	JH	0.0121	0.0241	1	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	0.394	JH	0.0121	0.0241	1	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluorene	<0.0121	U	0.0121	0.0241	1	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.417	JH	0.0121	0.0241	1	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	<0.0121	U	0.0121	0.0241	1	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	0.0719	JH	0.0121	0.0241	1	1703266-36A
HA-SB40-010	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Pyrene	0.338	JH	0.0121	0.0241	1	1703266-36A
HA-SB40-011	0	0.5	FD	3/30/2017	ASTM D2216	%	Percent moisture	50.0		NS	NS	1	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Antimony	<0.949	U	0.949	1.90	5	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Arsenic	6.94		0.949	1.90	5	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Barium	217	JL	0.949	3.79	5	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Beryllium	<0.190	U	0.190	0.569	5	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Cadmium	0.366	J	0.190	0.569	5	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	15.1		0.949	3.79	5	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Lead	56.1		0.190	0.569	5	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Nickel	5.36		0.949	3.79	5	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Selenium	0.565	J	0.285	0.949	5	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 6020A	mg/kg	Silver	<0.190	U	0.190	0.379	5	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 7471B	mg/kg	Mercury	0.0581	J	0.0313	0.0783	1	1703266-37A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	<0.00966	U	0.00966	0.0193	1	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0582	JH	0.00966	0.0193	1	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Anthracene	0.0615	JH	0.00966	0.0193	1	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.169	JH	0.00966	0.0193	1	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.267	JH	0.00966	0.0193	1	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.367	JH	0.00966	0.0193	1	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.214	JL	0.00966	0.0193	1	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.168	JH	0.00966	0.0193	1	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Chrysene	0.269	JH	0.00966	0.0193	1	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0367	JH	0.00966	0.0193	1	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	0.362	JH	0.00966	0.0193	1	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Fluorene	0.0109	JH	0.00966	0.0193	1	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.250	JH	0.00966	0.0193	1	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	<0.00966	U	0.00966	0.0193	1	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	0.0943	JH	0.00966	0.0193	1	1703266-37A
HA-SB40-011	0	0.5	FD	3/30/2017	SW-846 8270D	mg/kg	Pyrene	0.299	JH	0.00966	0.0193	1	1703266-37A
INC-SB71	0	0.5	N	3/30/2017	ASTM D2216	%	Percent moisture	7.58		NS	NS	1	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Antimony	<0.508	U	0.508	1.02	5	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Arsenic	3.96		0.508	1.02	5	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Barium	68.6		0.508	2.03	5	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Beryllium	0.269	J	0.102	0.305	5	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Cadmium	0.118	J	0.102	0.305	5	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Chromium, total	12.9		0.508	2.03	5	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Lead	22.9		0.102	0.305	5	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Nickel	9.48		0.508	2.03	5	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Selenium	0.975		0.152	0.508	5	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 6020A	mg/kg	Silver	<0.102	U	0.102	0.203	5	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 7471B	mg/kg	Mercury	0.0199	J	0.0164	0.0411	1	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthene	0.0136		0.00533	0.0107	1	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Acenaphthylene	0.0168		0.00533	0.0107	1	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Anthracene	0.0481		0.00533	0.0107	1	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)anthracene	0.131		0.00533	0.0107	1	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(a)pyrene	0.138		0.00533	0.0107	1	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(b)fluoranthene	0.144		0.00533	0.0107	1	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(g,h,i)perylene	0.105		0.00533	0.0107	1	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Benzo(k)fluoranthene	0.0785		0.00533	0.0107	1	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Chrysene	0.140		0.00533	0.0107	1	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Dibenz(a,h)anthracene	0.0169		0.00533	0.0107	1	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluoranthene	0.357	JH	0.00533	0.0107	1	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Fluorene	0.0116		0.00533	0.0107	1	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Indeno(1,2,3-cd)pyrene	0.118		0.00533	0.0107	1	1703267-01A

Sample Identification	Top Depth (feet)	Bottom Depth (feet)	Sample Type	Date Sampled	Analytical Method	Unit	Analyte	Result	Data Qualifier	Sample Detection Limit	Method Quantitation Limit	Dilution Factor	Lab Sample ID
INC-SB71	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Naphthalene	<0.00533	U	0.00533	0.0107	1	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Phenanthrene	0.178		0.00533	0.0107	1	1703267-01A
INC-SB71	0	0.5	N	3/30/2017	SW-846 8270D	mg/kg	Pyrene	0.267	JH	0.00533	0.0107	1	1703267-01A

< - Not detected above the stated sample detection limit.

% - Percent

ASTM - American Society for Testing and Materials.

FD - Field duplicate sample.

ID - Identification.

mg/kg - Milligrams per kilogram.

N - Normal field sample.

NS - Not specified.

SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Attachment B
TRRP-13 LRCs and ERs

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: GLO - Galveston	**Date:** 4/18/17
Reviewer Name: Carlos Castro	**Laboratory Work Order:** 1703266
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?		X			R5-04
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			R6-04
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?		X			R7-04
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: GLO - Galveston	**Date:** 4/18/17
Reviewer Name: Carlos Castro	**Laboratory Work Order:** 1703266

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?		X			**S2-02**
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			**S9-01**
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?		X			**S10-02**
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with NELAC Chapter 5,
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs).
R4 Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits.
R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits.
R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits
R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-6, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager		
Scott Schroeder – Technical Director	Signature	04/18/17 Date

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7471B - Mercury Analysis
Method SW8270D-LL - PAH Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 3/31/17. A total of 43 sample was received. On 4/10/17 PAH and Metals analyses were added on to samples HA-SB32-020 and HA-SB30-020. These were performed as requested. The samples arrived in good condition and were properly packaged.

Exception Report R5-04

For PAH analysis performed on 4/6/17 Acenaphthylene and Anthracene were detected below the reporting limit in the system blank (SB-170407). In addition, three other compounds were detected above the reporting limit in the system blank (SB-170407). All associated samples may be biased high for these compounds. No further corrective actions were taken.

For PAH analysis performed on 4/7/17 seven compounds were detected below the reporting limit in the system blank (SB-170407). In addition, Benzo[g,h,i]perylene was detected above the reporting limit in the system blank (SB-170407). All associated samples may be biased high for these compounds. No further corrective actions were taken.

Exception Report R6-04

For PAH analysis performed on 4/4/17 (batch 79790) the LCS and LCSD recoveries were slightly above control limits for Benzo[a]anthracene. These are flagged acccordingly in the QC summary report. No further corrective actions were taken.

Exception Report R7-03 & R7-04

For PAH analysis performed on 6/6/17, 4/12/17 and 4/13/17 (batches 79824, 79816, 79888 & 79942) the matrix spikes and matrix spike duplicate recoveries were out of control limits for a total of fifteen compounds. In addition, the matrix spike and matrix spike duplicate (batch 79816) had the RPD above control limits for three compounds. These are flagged accordingly in the QC summary report. The samples selected for the matrix spikes and matrix spike duplicates (batches 79824 & 79942) were not from this work order. The samples selected for the matrix spikes and matrix spike duplicates (batches

79816 & 79888) were from this work order. The LCSs were within control limits for these compounds. No further corrective actions were taken.

For Metals analysis performed on 4/5/17 and 4/12/17 (batches 79809, 79808 & 79943) the matrix spikes and matrix spike duplicate recoveries were out of control limits for a total of five analytes. In addition, the matrix spike and matrix spike duplicate (batch 79809) had the RPD slightly above control limits for three analytes. These are flagged accordingly. The samples selected for the matrix spikes and matrix spike duplicates (batches 79809 & 79808) were from this work order. The sample selected for the matrix spike and matrix spike duplicate (batch 79943) was not from this work order. The LCSs were within control limits for these analytes. No further corrective actions were taken.

For Mercury analysis performed on 4/10/17 (batch 79810) the matrix spike and matrix spike duplicate recoveries were out of control limits. These are flagged accordingly. The sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits. No further corrective actions were taken.

Exception Report R10-01

For PAH analysis (batches 79837 & 79790) MS/MSDs were not performed due to insufficient sample volume. LCS/LCSDs were performed instead.

For PAH analysis three samples were diluted prior to analysis due to the nature of the samples (color or concentration of target compounds).

Exception Report S2-02

For Metals analysis performed on 4/5/17 CCV3-170405 and CCV4-170405 were slightly above control limits for Beryllium. These are flagged accordingly in the QC summary report. The associated LCVLs were within control limits for this analyte. No further corrective actions were taken.

For PAH analysis performed on 4/6/17 the recovery of Benzo[g,h,i]perylene for the Initial Calibration Verification (ICV-170407 soil batch) was slightly below the method control limits specified in SW82670D (80-120% recovery). This is flagged accordingly. The number of target analytes outside of the method control limits for the ICV is less than 20% of the total number of compounds being reported; this is allowed in SW8270D specifications. The associated LCS was within control limits for this compound. No further corrective actions were taken.

Exception Report S9-01

For Metals analysis performed on 4/12/17 (batch 79943) the PDS recovery was slightly above control limits for Barium. This is flagged accordingly in the QC summary report. The serial dilution was within control limits for this analyte. No further corrective actions were taken.

For Metals analysis performed on 4/5/17 and 4/12/17 (batches 79808 & 79943) the RPDs for the serial dilutions were slightly above control limits for Selenium. These are flagged accordingly. The PDSs were within control limits for these analytes. No further corrective actions were taken.

Exception Report S10-02

For Metals analysis the recoveries of three analytes for the Detectability Check Standards (DCS1-79610 & DCS2-79610) were out of DHL Analytical's control limits, however, the recoveries were within TRRP specifications. These are flagged accordingly in the QC summary report. No further corrective actions were taken.

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: Galveston	**Date:** 4/13/17
Reviewer Name: Carlos Castro	**Laboratory Work Order:** 1703267
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?		X			R5-04
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: Galveston	**Date:** 4/13/17
Reviewer Name: Carlos Castro	**Laboratory Work Order:** 1703267

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?		X			S10-02
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with NELAC Chapter 5,
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs).
R4 Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits.
R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits.
R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits
R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-6, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager

Scott Schroeder – Technical Director

Signature

04/13/17
Date

DHL Analytical, Inc. **Date:** *13-Apr-17*

CLIENT: AECOM
Project: Galveston
Lab Order: 1703267

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7471B - Mercury Analysis
Method SW8270D-LL - PAH Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The sample was received and log-in performed on 3/31/17. A total of 1 sample was received. The sample arrived in good condition and was properly packaged.

Exception Report R5-04

For Metals analysis performed on 4/7/17 Lead was detected below the reporting limit in the method blank (MB-79878). The sample was detected greater than 10 times the amount in the blank for this analyte. No further corrective actions were taken.

Exception Report R7-03

For PAH analysis performed on 4/12/17 the matrix spike and matrix spike duplicate recoveries were above control limits for a total of three compounds. sixteen compounds. These are flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for these compounds. No further corrective actions were taken.

Exception Report S10-02

For Metals analysis the recoveries of Lead and Selenium for the Detectability Check Standard (DCS1-79610) were out of DHL Analytical's control limits, however, the recoveries were within TRRP specifications. These are flagged accordingly in the QC summary report. No further corrective actions were taken.

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: Galveston RAP Sampling Mar. 2017	**Date:** 4/17/2017
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1704005
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: Galveston RAP Sampling Mar. 2017	**Date:** 4/17/2017
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1704005

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			S9-01
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?		X			S10-02
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with NELAC Chapter 5,
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs).
R4 Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits.
R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits.
R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits
R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-5, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager		04/17/17
Scott Schroeder – Technical Director	Signature	Date

DHL Analytical, Inc. **Date:** *17-Apr-17*

CLIENT: AECOM
Project: Galveston RAP Sampling Mar. 2017
Lab Order: 1704005

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7470A/7471B - Mercury Analysis
Method SW8270D-LL - PAH Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 4/1/2017. A total of 10 samples were received and analyzed. The samples arrived in good condition and were properly packaged. Analysis was added to a total of four samples per the client's request on 4/10/2017.

Exception Report R7-03

For Metals Analysis, for soil Batches 79853 and 79943, the recoveries of up to three analytes for the Matrix Spike and Matrix Spike Duplicate(s) (1704005-08, -02 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Semivolatiles Analysis, for soil Batches 79824 and 79942, the recoveries of up to six compounds for the Matrix Spike and Matrix Spike Duplicate(s) (1704005-08, -02 MS/MSD) were outside of the method control limits. Additionally, for Batch 79824, the recovery of Phenanthrene for the Matrix Spike Duplicate (1704005-08 MSD) was above the method control limits. These are flagged accordingly in the QC Summary Report. These compounds were within method control limits in the associated LCS. No further corrective action was taken.

Exception Report S9-01

For Metals Analysis, for soil Batch 79943, the recovery of Barium for the Post Digestion Spike (1704005-02 PDS) was marginally above the method control limits. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Serial Dilution. No further corrective action was taken.

For Metals Analysis, for soil Batches 79853 and 79943, the RPD of Selenium for the Serial Dilution(s) (1704005-08, -02 SD) was above the method control limit. These are flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Post Digestion Spike(s). No further corrective action was taken.

For Mercury Analysis, for water Batch 79830, the recovery of the Post Digestion Spike (1703259-05 PDS) was slightly below the method control limits. This is flagged accordingly in the QC Summary Report. The associated Serial Dilution was within method control limits. No further corrective action was taken.

Exception Report S10-02

For Metals Analysis, for ICPMS_5, the recoveries of Lead and Selenium for the Detectability Check Standard (DCS1-79610) was outside of the DHL Analytical internal control limits; the recovery meets TRRP specifications. This is flagged accordingly in the QC Summary report. This analyte was within method control limits in the daily calibration. No further corrective action was taken.

For Metals Analysis, for ICPMS_4, the recovery of Nickel for the Detectability Check Standard (DCS279610) was above the DHL Analytical internal control limits; the recovery meets TRRP specifications. This is flagged accordingly in the QC Summary report. This analyte was within method control limits in the daily calibration. No further corrective action was taken.

DHL Analytical, Inc.
Laboratory Review Checklist: Reportable Data

Project Name: GLO - Galveston	**Date:** 4/18/17
Reviewer Name: Carlos Castro	**Laboratory Work Order:** 1703266
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				**R1-01**
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?		X			**R5-04**
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			**R6-04**
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			**R7-03**
		4) Were MS/MSD RPDs within laboratory QC limits?		X			**R7-04**
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				**R10-01**
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.
Laboratory Review Checklist (continued): Supporting Data

Project Name: GLO - Galveston | **Date:** 4/18/17

Reviewer Name: Carlos Castro | **Laboratory Work Order:** 1703266

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?		X			**S2-02**
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			**S9-01**
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?		X			**S10-02**
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
- a) Items consistent with NELAC Chapter 5,
- b) dilution factors,
- c) preparation methods,
- d) cleanup methods, and
- e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:
- a) Calculated recovery (%R), and
- b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
- a) LCS spiking amounts,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d) Calculated %Rs and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits

R8 Laboratory analytical duplicate (if applicable) recovery and precision:
- a) The amount of analyte measured in the duplicate,
- b) The calculated RPD, and
- c) The laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-6, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager

Scott Schroeder – Technical Director

Signature

04/18/17

Date

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7471B - Mercury Analysis
Method SW8270D-LL - PAH Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 3/31/17. A total of 43 sample was received. On 4/10/17 PAH and Metals analyses were added on to samples HA-SB32-020 and HA-SB30-020. These were performed as requested. The samples arrived in good condition and were properly packaged.

Exception Report R5-04

For PAH analysis performed on 4/6/17 Acenaphthylene and Anthracene were detected below the reporting limit in the system blank (SB-170407). In addition, three other compounds were detected above the reporting limit in the system blank (SB-170407). All associated samples may be biased high for these compounds. No further corrective actions were taken.

For PAH analysis performed on 4/7/17 seven compounds were detected below the reporting limit in the system blank (SB-170407). In addition, Benzo[g,h,i]perylene was detected above the reporting limit in the system blank (SB-170407). All associated samples may be biased high for these compounds. No further corrective actions were taken.

Exception Report R6-04

For PAH analysis performed on 4/4/17 (batch 79790) the LCS and LCSD recoveries were slightly above control limits for Benzo[a]anthracene. These are flagged acccordingly in the QC summary report. No further corrective actions were taken.

Exception Report R7-03 & R7-04

For PAH analysis performed on 6/6/17, 4/12/17 and 4/13/17 (batches 79824, 79816, 79888 & 79942) the matrix spikes and matrix spike duplicate recoveries were out of control limits for a total of fifteen compounds. In addition, the matrix spike and matrix spike duplicate (batch 79816) had the RPD above control limits for three compounds. These are flagged accordingly in the QC summary report. The samples selected for the matrix spikes and matrix spike duplicates (batches 79824 & 79942) were not from this work order. The samples selected for the matrix spikes and matrix spike duplicates (batches

79816 & 79888) were from this work order. The LCSs were within control limits for these compounds. No further corrective actions were taken.

For Metals analysis performed on 4/5/17 and 4/12/17 (batches 79809, 79808 & 79943) the matrix spikes and matrix spike duplicate recoveries were out of control limits for a total of five analytes. In addition, the matrix spike and matrix spike duplicate (batch 79809) had the RPD slightly above control limits for three analytes. These are flagged accordingly. The samples selected for the matrix spikes and matrix spike duplicates (batches 79809 & 79808) were from this work order. The sample selected for the matrix spike and matrix spike duplicate (batch 79943) was not from this work order. The LCSs were within control limits for these analytes. No further corrective actions were taken.

For Mercury analysis performed on 4/10/17 (batch 79810) the matrix spike and matrix spike duplicate recoveries were out of control limits. These are flagged accordingly. The sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits. No further corrective actions were taken.

Exception Report R10-01

For PAH analysis (batches 79837 & 79790) MS/MSDs were not performed due to insufficient sample volume. LCS/LCSDs were performed instead.

For PAH analysis three samples were diluted prior to analysis due to the nature of the samples (color or concentration of target compounds).

Exception Report S2-02

For Metals analysis performed on 4/5/17 CCV3-170405 and CCV4-170405 were slightly above control limits for Beryllium. These are flagged accordingly in the QC summary report. The associated LCVLs were within control limits for this analyte. No further corrective actions were taken.

For PAH analysis performed on 4/6/17 the recovery of Benzo[g,h,i]perylene for the Initial Calibration Verification (ICV-170407 soil batch) was slightly below the method control limits specified in SW82670D (80-120% recovery). This is flagged accordingly. The number of target analytes outside of the method control limits for the ICV is less than 20% of the total number of compounds being reported; this is allowed in SW8270D specifications. The associated LCS was within control limits for this compound. No further corrective actions were taken.

Exception Report S9-01

For Metals analysis performed on 4/12/17 (batch 79943) the PDS recovery was slightly above control limits for Barium. This is flagged accordingly in the QC summary report. The serial dilution was within control limits for this analyte. No further corrective actions were taken.

For Metals analysis performed on 4/5/17 and 4/12/17 (batches 79808 & 79943) the RPDs for the serial dilutions were slightly above control limits for Selenium. These are flagged accordingly. The PDSs were within control limits for these analytes. No further corrective actions were taken.

Exception Report S10-02

For Metals analysis the recoveries of three analytes for the Detectability Check Standards (DCS1-79610 & DCS2-79610) were out of DHL Analytical's control limits, however, the recoveries were within TRRP specifications. These are flagged accordingly in the QC summary report. No further corrective actions were taken.

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT: AECOM
Project: GLO - Galveston
Lab Order: 1703266

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1703266-01	HA-SB28-010		03/29/17 09:40 AM	3/31/2017
1703266-02	HA-SB27-010		03/29/17 09:55 AM	3/31/2017
1703266-03	HA-SB19-010		03/29/17 10:15 AM	3/31/2017
1703266-04	HA-SB18-010		03/29/17 10:20 AM	3/31/2017
1703266-05	HA-SB18-011		03/29/17 10:20 AM	3/31/2017
1703266-06	HA-SB26-010		03/29/17 10:30 AM	3/31/2017
1703266-07	HA-SB24-010		03/29/17 11:25 AM	3/31/2017
1703266-08	HA-SB16-010		03/29/17 11:30 AM	3/31/2017
1703266-09	HA-SB17-010		03/29/17 11:40 AM	3/31/2017
1703266-10	HA-SB12-010		03/29/17 11:45 AM	3/31/2017
1703266-11	HA-SB05-010		03/29/17 01:40 PM	3/31/2017
1703266-12	HA-SB06-010		03/29/17 01:50 PM	3/31/2017
1703266-13	HA-SB07-010		03/29/17 02:00 PM	3/31/2017
1703266-14	HA-SB10-010		03/29/17 02:15 PM	3/31/2017
1703266-15	HA-SB15-010		03/29/17 02:25 PM	3/31/2017
1703266-16	HA-SB08-010		03/29/17 02:45 PM	3/31/2017
1703266-17	HA-SB03-010		03/29/17 02:59 PM	3/31/2017
1703266-18	HA-SB11-010		03/29/17 03:15 PM	3/31/2017
1703266-19	HA-SB13-010		03/29/17 03:30 PM	3/31/2017
1703266-20	HA-SB04-013		03/29/17 03:45 PM	3/31/2017
1703266-21	HA-SB09-010		03/29/17 04:00 PM	3/31/2017
1703266-22	HA-SB09-011		03/29/17 04:00 PM	3/31/2017
1703266-23	HA-SB09-015		03/29/17 05:30 PM	3/31/2017
1703266-24	HA-SB14-010		03/29/17 06:00 PM	3/31/2017
1703266-25	HA-SB22-010		03/29/17 06:20 PM	3/31/2017
1703266-26	HA-SB21-010		03/29/17 06:35 PM	3/31/2017
1703266-27	HA-SB23-010		03/29/17 06:50 PM	3/31/2017
1703266-28	HA-SB29-010		03/30/17 09:15 AM	3/31/2017
1703266-29	HA-SB34-010		03/30/17 09:40 AM	3/31/2017
1703266-30	HA-SB32-010		03/30/17 10:00 AM	3/31/2017
1703266-31	HA-SB32-020		03/30/17 10:20 AM	3/31/2017
1703266-32	HA-SB31-010		03/30/17 10:45 AM	3/31/2017
1703266-33	HA-SB39-010		03/30/17 11:10 AM	3/31/2017
1703266-34	HA-SB38-010		03/30/17 11:30 AM	3/31/2017
1703266-35	HA-SB35-010		03/30/17 11:50 AM	3/31/2017
1703266-36	HA-SB40-010		03/30/17 01:40 PM	3/31/2017
1703266-37	HA-SB40-011		03/30/17 01:40 PM	3/31/2017
1703266-38	HA-SB33-010		03/30/17 02:00 PM	3/31/2017

CLIENT: AECOM
Project: GLO - Galveston
Lab Order: 1703266

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1703266-39	HA-SB37-013		03/30/17 02:25 PM	3/31/2017
1703266-40	HA-SB36-010		03/30/17 02:45 PM	3/31/2017
1703266-41	HA-SB30-010		03/30/17 03:35 PM	3/31/2017
1703266-42	HA-SB30-020		03/30/17 03:35 PM	3/31/2017
1703266-43	HA-SB25-010		03/30/17 05:00 PM	3/31/2017

DHL Analytical, Inc.

18-Apr-17

Lab Order: 1703266
Client: AECOM
Project: GLO - Galveston

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1703266-01A	HA-SB28-010	03/29/17 09:40 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB28-010	03/29/17 09:40 AM	Soil	D2216	Moisture Preparation	04/05/17 02:26 PM	79862
	HA-SB28-010	03/29/17 09:40 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB28-010	03/29/17 09:40 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
1703266-02A	HA-SB27-010	03/29/17 09:55 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB27-010	03/29/17 09:55 AM	Soil	D2216	Moisture Preparation	04/05/17 02:26 PM	79862
	HA-SB27-010	03/29/17 09:55 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB27-010	03/29/17 09:55 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
1703266-03A	HA-SB19-010	03/29/17 10:15 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB19-010	03/29/17 10:15 AM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB19-010	03/29/17 10:15 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB19-010	03/29/17 10:15 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
1703266-04A	HA-SB18-010	03/29/17 10:20 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB18-010	03/29/17 10:20 AM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB18-010	03/29/17 10:20 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB18-010	03/29/17 10:20 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
1703266-05A	HA-SB18-011	03/29/17 10:20 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB18-011	03/29/17 10:20 AM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB18-011	03/29/17 10:20 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB18-011	03/29/17 10:20 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
1703266-06A	HA-SB26-010	03/29/17 10:30 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB26-010	03/29/17 10:30 AM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB26-010	03/29/17 10:30 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB26-010	03/29/17 10:30 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
1703266-07A	HA-SB24-010	03/29/17 11:25 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB24-010	03/29/17 11:25 AM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB24-010	03/29/17 11:25 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB24-010	03/29/17 11:25 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808

Lab Order: 1703266
Client: AECOM
Project: GLO - Galveston

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1703266-08A	HA-SB16-010	03/29/17 11:30 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB16-010	03/29/17 11:30 AM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB16-010	03/29/17 11:30 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB16-010	03/29/17 11:30 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB16-010	03/29/17 11:30 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
1703266-09A	HA-SB17-010	03/29/17 11:40 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB17-010	03/29/17 11:40 AM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB17-010	03/29/17 11:40 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB17-010	03/29/17 11:40 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
1703266-10A	HA-SB12-010	03/29/17 11:45 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB12-010	03/29/17 11:45 AM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB12-010	03/29/17 11:45 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB12-010	03/29/17 11:45 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
1703266-11A	HA-SB05-010	03/29/17 01:40 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB05-010	03/29/17 01:40 PM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB05-010	03/29/17 01:40 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB05-010	03/29/17 01:40 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
1703266-12A	HA-SB06-010	03/29/17 01:50 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB06-010	03/29/17 01:50 PM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB06-010	03/29/17 01:50 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB06-010	03/29/17 01:50 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB06-010	03/29/17 01:50 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB06-010	03/29/17 01:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
1703266-13A	HA-SB07-010	03/29/17 02:00 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB07-010	03/29/17 02:00 PM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB07-010	03/29/17 02:00 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB07-010	03/29/17 02:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
1703266-14A	HA-SB10-010	03/29/17 02:15 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810

Lab Order: 1703266
Client: AECOM
Project: GLO - Galveston

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1703266-14A	HA-SB10-010	03/29/17 02:15 PM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB10-010	03/29/17 02:15 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB10-010	03/29/17 02:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
1703266-15A	HA-SB15-010	03/29/17 02:25 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB15-010	03/29/17 02:25 PM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB15-010	03/29/17 02:25 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB15-010	03/29/17 02:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
	HA-SB15-010	03/29/17 02:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
1703266-16A	HA-SB08-010	03/29/17 02:45 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB08-010	03/29/17 02:45 PM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB08-010	03/29/17 02:45 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB08-010	03/29/17 02:45 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
1703266-17A	HA-SB03-010	03/29/17 02:59 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB03-010	03/29/17 02:59 PM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB03-010	03/29/17 02:59 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/06/17 02:18 PM	79888
	HA-SB03-010	03/29/17 02:59 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
1703266-18A	HA-SB11-010	03/29/17 03:15 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB11-010	03/29/17 03:15 PM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB11-010	03/29/17 03:15 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/06/17 02:18 PM	79888
	HA-SB11-010	03/29/17 03:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
1703266-19A	HA-SB13-010	03/29/17 03:30 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB13-010	03/29/17 03:30 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB13-010	03/29/17 03:30 PM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB13-010	03/29/17 03:30 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/06/17 02:18 PM	79888
	HA-SB13-010	03/29/17 03:30 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
	HA-SB13-010	03/29/17 03:30 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
1703266-20A	HA-SB04-013	03/29/17 03:45 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810
	HA-SB04-013	03/29/17 03:45 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79810

Lab Order: 1703266
Client: AECOM
Project: GLO - Galveston

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1703266-20A	HA-SB04-013	03/29/17 03:45 PM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB04-013	03/29/17 03:45 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/06/17 02:18 PM	79888
	HA-SB04-013	03/29/17 03:45 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
	HA-SB04-013	03/29/17 03:45 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:10 AM	79808
1703266-21A	HA-SB09-010	03/29/17 04:00 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB09-010	03/29/17 04:00 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB09-010	03/29/17 04:00 PM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB09-010	03/29/17 04:00 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB09-010	03/29/17 04:00 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB09-010	03/29/17 04:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
1703266-22A	HA-SB09-011	03/29/17 04:00 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB09-011	03/29/17 04:00 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB09-011	03/29/17 04:00 PM	Soil	D2216	Moisture Preparation	04/07/17 11:46 AM	79902
	HA-SB09-011	03/29/17 04:00 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB09-011	03/29/17 04:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
1703266-23A	HA-SB09-015	03/29/17 05:30 PM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	04/05/17 08:00 AM	79827
	HA-SB09-015	03/29/17 05:30 PM	Equip Blank	SW7470A	Mercury Aq Prep, Total	04/03/17 11:11 AM	79822
1703266-23B	HA-SB09-015	03/29/17 05:30 PM	Equip Blank	SW3510C	Aq Prep Sep Funnel: PAH	03/31/17 08:37 AM	79790
	HA-SB09-015	03/29/17 05:30 PM	Equip Blank	SW3510C	Aq Prep Sep Funnel: PAH	04/04/17 10:29 AM	79837
1703266-24A	HA-SB14-010	03/29/17 06:00 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB14-010	03/29/17 06:00 PM	Soil	D2216	Moisture Preparation	04/07/17 11:49 AM	79903
	HA-SB14-010	03/29/17 06:00 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB14-010	03/29/17 06:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
	HA-SB14-010	03/29/17 06:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
1703266-25A	HA-SB22-010	03/29/17 06:20 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB22-010	03/29/17 06:20 PM	Soil	D2216	Moisture Preparation	04/07/17 11:49 AM	79903
	HA-SB22-010	03/29/17 06:20 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB22-010	03/29/17 06:20 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809

Lab Order: 1703266
Client: AECOM
Project: GLO - Galveston

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1703266-26A	HA-SB21-010	03/29/17 06:35 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB21-010	03/29/17 06:35 PM	Soil	D2216	Moisture Preparation	04/07/17 11:49 AM	79903
	HA-SB21-010	03/29/17 06:35 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB21-010	03/29/17 06:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
1703266-27A	HA-SB23-010	03/29/17 06:50 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB23-010	03/29/17 06:50 PM	Soil	D2216	Moisture Preparation	04/07/17 11:49 AM	79903
	HA-SB23-010	03/29/17 06:50 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB23-010	03/29/17 06:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
1703266-28A	HA-SB29-010	03/30/17 09:15 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB29-010	03/30/17 09:15 AM	Soil	D2216	Moisture Preparation	04/07/17 11:49 AM	79903
	HA-SB29-010	03/30/17 09:15 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB29-010	03/30/17 09:15 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB29-010	03/30/17 09:15 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
1703266-29A	HA-SB34-010	03/30/17 09:40 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB34-010	03/30/17 09:40 AM	Soil	D2216	Moisture Preparation	04/07/17 11:49 AM	79903
	HA-SB34-010	03/30/17 09:40 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB34-010	03/30/17 09:40 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB34-010	03/30/17 09:40 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
	HA-SB34-010	03/30/17 09:40 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
1703266-30A	HA-SB32-010	03/30/17 10:00 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB32-010	03/30/17 10:00 AM	Soil	D2216	Moisture Preparation	04/05/17 02:20 PM	79861
	HA-SB32-010	03/30/17 10:00 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB32-010	03/30/17 10:00 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB32-010	03/30/17 10:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
1703266-31A	HA-SB32-020	03/30/17 10:20 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/11/17 08:48 AM	79945
	HA-SB32-020	03/30/17 10:20 AM	Soil	D2216	Moisture Preparation	04/10/17 02:10 PM	79937
	HA-SB32-020	03/30/17 10:20 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/11/17 09:36 AM	79942
	HA-SB32-020	03/30/17 10:20 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/11/17 08:44 AM	79943

Lab Order: 1703266
Client: AECOM
Project: GLO - Galveston

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1703266-32A	HA-SB31-010	03/30/17 10:45 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB31-010	03/30/17 10:45 AM	Soil	D2216	Moisture Preparation	04/07/17 11:49 AM	79903
	HA-SB31-010	03/30/17 10:45 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB31-010	03/30/17 10:45 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB31-010	03/30/17 10:45 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
1703266-33A	HA-SB39-010	03/30/17 11:10 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB39-010	03/30/17 11:10 AM	Soil	D2216	Moisture Preparation	04/07/17 11:49 AM	79903
	HA-SB39-010	03/30/17 11:10 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB39-010	03/30/17 11:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
1703266-34A	HA-SB38-010	03/30/17 11:30 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB38-010	03/30/17 11:30 AM	Soil	D2216	Moisture Preparation	04/07/17 11:49 AM	79903
	HA-SB38-010	03/30/17 11:30 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB38-010	03/30/17 11:30 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
1703266-35A	HA-SB35-010	03/30/17 11:50 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB35-010	03/30/17 11:50 AM	Soil	D2216	Moisture Preparation	04/07/17 11:49 AM	79903
	HA-SB35-010	03/30/17 11:50 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB35-010	03/30/17 11:50 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB35-010	03/30/17 11:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
	HA-SB35-010	03/30/17 11:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
1703266-36A	HA-SB40-010	03/30/17 01:40 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB40-010	03/30/17 01:40 PM	Soil	D2216	Moisture Preparation	04/07/17 11:49 AM	79903
	HA-SB40-010	03/30/17 01:40 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB40-010	03/30/17 01:40 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
1703266-37A	HA-SB40-011	03/30/17 01:40 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB40-011	03/30/17 01:40 PM	Soil	D2216	Moisture Preparation	04/07/17 11:49 AM	79903
	HA-SB40-011	03/30/17 01:40 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB40-011	03/30/17 01:40 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
1703266-38A	HA-SB33-010	03/30/17 02:00 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811

Lab Order: 1703266
Client: AECOM
Project: GLO - Galveston

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1703266-38A	HA-SB33-010	03/30/17 02:00 PM	Soil	D2216	Moisture Preparation	04/07/17 11:49 AM	79903
	HA-SB33-010	03/30/17 02:00 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB33-010	03/30/17 02:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
1703266-39A	HA-SB37-013	03/30/17 02:25 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB37-013	03/30/17 02:25 PM	Soil	D2216	Moisture Preparation	04/07/17 11:49 AM	79903
	HA-SB37-013	03/30/17 02:25 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB37-013	03/30/17 02:25 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB37-013	03/30/17 02:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
1703266-40A	HA-SB36-010	03/30/17 02:45 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB36-010	03/30/17 02:45 PM	Soil	D2216	Moisture Preparation	04/07/17 11:49 AM	79903
	HA-SB36-010	03/30/17 02:45 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB36-010	03/30/17 02:45 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
1703266-41A	HA-SB30-010	03/30/17 03:35 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB30-010	03/30/17 03:35 PM	Soil	D2216	Moisture Preparation	04/05/17 02:20 PM	79861
	HA-SB30-010	03/30/17 03:35 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB30-010	03/30/17 03:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809
1703266-42A	HA-SB30-020	03/30/17 03:35 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/11/17 08:48 AM	79945
	HA-SB30-020	03/30/17 03:35 PM	Soil	D2216	Moisture Preparation	04/10/17 02:10 PM	79937
	HA-SB30-020	03/30/17 03:35 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/11/17 09:36 AM	79942
	HA-SB30-020	03/30/17 03:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/11/17 08:44 AM	79943
	HA-SB30-020	03/30/17 03:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/11/17 08:44 AM	79943
1703266-43A	HA-SB25-010	03/30/17 05:00 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/04/17 08:00 AM	79811
	HA-SB25-010	03/30/17 05:00 PM	Soil	D2216	Moisture Preparation	04/07/17 11:49 AM	79903
	HA-SB25-010	03/30/17 05:00 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 09:36 AM	79816
	HA-SB25-010	03/30/17 05:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/03/17 09:11 AM	79809

Lab Order: 1703266
Client: AECOM
Project: GLO - Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1703266-01A	HA-SB28-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	1	04/06/17 03:04 PM	GCMS6_170406A
	HA-SB28-010	Soil	D2216	Percent Moisture	79862	1	04/06/17 08:43 AM	PMOIST_170405B
	HA-SB28-010	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 11:40 AM	CETAC2_HG_170410A
	HA-SB28-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 04:34 PM	ICP-MS5_170405B
1703266-02A	HA-SB27-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	1	04/06/17 10:59 PM	GCMS6_170406A
	HA-SB27-010	Soil	D2216	Percent Moisture	79862	1	04/06/17 08:43 AM	PMOIST_170405B
	HA-SB27-010	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 11:42 AM	CETAC2_HG_170410A
	HA-SB27-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 04:35 PM	ICP-MS5_170405B
1703266-03A	HA-SB19-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	10	04/07/17 01:06 AM	GCMS6_170406A
	HA-SB19-010	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB19-010	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 11:45 AM	CETAC2_HG_170410A
	HA-SB19-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 04:37 PM	ICP-MS5_170405B
1703266-04A	HA-SB18-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	1	04/06/17 03:36 PM	GCMS6_170406A
	HA-SB18-010	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB18-010	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 11:47 AM	CETAC2_HG_170410A
	HA-SB18-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 04:39 PM	ICP-MS5_170405B
1703266-05A	HA-SB18-011	Soil	SW8270D-LL	PAHs: GC/MS	79824	1	04/06/17 04:08 PM	GCMS6_170406A
	HA-SB18-011	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB18-011	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 11:49 AM	CETAC2_HG_170410A
	HA-SB18-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 04:40 PM	ICP-MS5_170405B
1703266-06A	HA-SB26-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	1	04/06/17 04:39 PM	GCMS6_170406A
	HA-SB26-010	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB26-010	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 11:52 AM	CETAC2_HG_170410A
	HA-SB26-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 04:42 PM	ICP-MS5_170405B
1703266-07A	HA-SB24-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	1	04/07/17 12:34 AM	GCMS6_170406A

Lab Order: 1703266
Client: AECOM
Project: GLO - Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1703266-07A	HA-SB24-010	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB24-010	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 11:54 AM	CETAC2_HG_170410A
	HA-SB24-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 04:44 PM	ICP-MS5_170405B
1703266-08A	HA-SB16-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	1	04/07/17 12:03 AM	GCMS6_170406A
	HA-SB16-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	2	04/07/17 04:54 PM	GCMS6_170407A
	HA-SB16-010	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB16-010	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 11:56 AM	CETAC2_HG_170410A
	HA-SB16-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 04:46 PM	ICP-MS5_170405B
1703266-09A	HA-SB17-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	1	04/06/17 09:55 PM	GCMS6_170406A
	HA-SB17-010	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB17-010	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 11:58 AM	CETAC2_HG_170410A
	HA-SB17-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 04:47 PM	ICP-MS5_170405B
1703266-10A	HA-SB12-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	1	04/06/17 07:49 PM	GCMS6_170406A
	HA-SB12-010	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB12-010	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 12:01 PM	CETAC2_HG_170410A
	HA-SB12-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 05:02 PM	ICP-MS5_170405B
1703266-11A	HA-SB05-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	1	04/06/17 07:18 PM	GCMS6_170406A
	HA-SB05-010	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB05-010	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 12:08 PM	CETAC2_HG_170410A
	HA-SB05-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 05:04 PM	ICP-MS5_170405B
1703266-12A	HA-SB06-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	20	04/07/17 12:32 PM	GCMS6_170407A
	HA-SB06-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	2	04/07/17 02:10 AM	GCMS6_170406A
	HA-SB06-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	10	04/07/17 10:57 AM	GCMS6_170407A
	HA-SB06-010	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB06-010	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 12:10 PM	CETAC2_HG_170410A

Lab Order: 1703266
Client: AECOM
Project: GLO - Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1703266-12A	HA-SB06-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 05:06 PM	ICP-MS5_170405B
1703266-13A	HA-SB07-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	1	04/06/17 10:27 PM	GCMS6_170406A
	HA-SB07-010	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB07-010	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 12:12 PM	CETAC2_HG_170410A
	HA-SB07-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 05:07 PM	ICP-MS5_170405B
1703266-14A	HA-SB10-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	1	04/06/17 05:11 PM	GCMS6_170406A
	HA-SB10-010	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB10-010	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 12:14 PM	CETAC2_HG_170410A
	HA-SB10-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 05:09 PM	ICP-MS5_170405B
1703266-15A	HA-SB15-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	1	04/06/17 05:42 PM	GCMS6_170406A
	HA-SB15-010	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB15-010	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 12:17 PM	CETAC2_HG_170410A
	HA-SB15-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 05:11 PM	ICP-MS5_170405B
	HA-SB15-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	50	04/06/17 05:08 PM	ICP-MS5_170406B
1703266-16A	HA-SB08-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	1	04/06/17 11:31 PM	GCMS6_170406A
	HA-SB08-010	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB08-010	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 12:19 PM	CETAC2_HG_170410A
	HA-SB08-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 05:13 PM	ICP-MS5_170405B
1703266-17A	HA-SB03-010	Soil	SW8270D-LL	PAHs: GC/MS	79888	1	04/12/17 12:55 PM	GCMS8_170412A
	HA-SB03-010	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB03-010	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 12:21 PM	CETAC2_HG_170410A
	HA-SB03-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 05:14 PM	ICP-MS5_170405B
1703266-18A	HA-SB11-010	Soil	SW8270D-LL	PAHs: GC/MS	79888	1	04/12/17 11:56 AM	GCMS8_170412A
	HA-SB11-010	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB11-010	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 12:23 PM	CETAC2_HG_170410A

Lab Order: 1703266
Client: AECOM
Project: GLO - Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1703266-18A	HA-SB11-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 05:16 PM	ICP-MS5_170405B
1703266-19A	HA-SB13-010	Soil	SW8270D-LL	PAHs: GC/MS	79888	1	04/12/17 10:56 AM	GCMS8_170412A
	HA-SB13-010	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB13-010	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 12:26 PM	CETAC2_HG_170410A
	HA-SB13-010	Soil	SW7471B	Total Mercury: Soil/Solid	79810	10	04/10/17 01:46 PM	CETAC2_HG_170410A
	HA-SB13-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 05:18 PM	ICP-MS5_170405B
	HA-SB13-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	25	04/06/17 05:10 PM	ICP-MS5_170406B
1703266-20A	HA-SB04-013	Soil	SW8270D-LL	PAHs: GC/MS	79888	1	04/12/17 11:26 AM	GCMS8_170412A
	HA-SB04-013	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB04-013	Soil	SW7471B	Total Mercury: Soil/Solid	79810	1	04/10/17 12:28 PM	CETAC2_HG_170410A
	HA-SB04-013	Soil	SW7471B	Total Mercury: Soil/Solid	79810	20	04/10/17 01:48 PM	CETAC2_HG_170410A
	HA-SB04-013	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	5	04/05/17 04:30 PM	ICP-MS5_170405B
	HA-SB04-013	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79808	25	04/06/17 05:05 PM	ICP-MS5_170406B
1703266-21A	HA-SB09-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	1	04/05/17 02:34 PM	GCMS8_170405A
	HA-SB09-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	5	04/06/17 02:10 PM	GCMS8_170406A
	HA-SB09-010	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB09-010	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 02:45 PM	CETAC2_HG_170405C
	HA-SB09-010	Soil	SW7471B	Total Mercury: Soil/Solid	79811	10	04/05/17 03:55 PM	CETAC2_HG_170405C
	HA-SB09-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 11:58 AM	ICP-MS4_170405A
1703266-22A	HA-SB09-011	Soil	SW8270D-LL	PAHs: GC/MS	79816	1	04/05/17 03:04 PM	GCMS8_170405A
	HA-SB09-011	Soil	D2216	Percent Moisture	79902	1	04/10/17 08:42 AM	PMOIST_170407A
	HA-SB09-011	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 02:47 PM	CETAC2_HG_170405C
	HA-SB09-011	Soil	SW7471B	Total Mercury: Soil/Solid	79811	10	04/05/17 03:57 PM	CETAC2_HG_170405C
	HA-SB09-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 12:00 PM	ICP-MS4_170405A

Lab Order: 1703266
Client: AECOM
Project: GLO - Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1703266-23A	HA-SB09-015	Equip Blank	SW7470A	Mercury Total: Aqueous	79822	1	04/04/17 02:16 PM	CETAC2_HG_170404A
	HA-SB09-015	Equip Blank	SW6020A	Trace Metals: ICP-MS - Water	79827	1	04/06/17 01:12 PM	ICP-MS4_170406A
1703266-23B	HA-SB09-015	Equip Blank	SW8270D-LL	PAHs: GC/MS	79790	1	04/04/17 09:01 PM	GCMS6_170404A
	HA-SB09-015	Equip Blank	SW8270D-LL	PAHs: GC/MS	79837	1	04/06/17 11:07 AM	GCMS6_170404A
1703266-24A	HA-SB14-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	1	04/05/17 02:04 PM	GCMS8_170405A
	HA-SB14-010	Soil	D2216	Percent Moisture	79903	1	04/10/17 08:42 AM	PMOIST_170407B
	HA-SB14-010	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 02:49 PM	CETAC2_HG_170405C
	HA-SB14-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	250	04/05/17 01:25 PM	ICP-MS4_170405A
	HA-SB14-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 12:02 PM	ICP-MS4_170405A
1703266-25A	HA-SB22-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	1	04/05/17 01:34 PM	GCMS8_170405A
	HA-SB22-010	Soil	D2216	Percent Moisture	79903	1	04/10/17 08:42 AM	PMOIST_170407B
	HA-SB22-010	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 02:51 PM	CETAC2_HG_170405C
	HA-SB22-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 12:03 PM	ICP-MS4_170405A
1703266-26A	HA-SB21-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	1	04/05/17 03:34 PM	GCMS8_170405A
	HA-SB21-010	Soil	D2216	Percent Moisture	79903	1	04/10/17 08:42 AM	PMOIST_170407B
	HA-SB21-010	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 02:54 PM	CETAC2_HG_170405C
	HA-SB21-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 12:05 PM	ICP-MS4_170405A
1703266-27A	HA-SB23-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	1	04/05/17 04:04 PM	GCMS8_170405A
	HA-SB23-010	Soil	D2216	Percent Moisture	79903	1	04/10/17 08:42 AM	PMOIST_170407B
	HA-SB23-010	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 02:56 PM	CETAC2_HG_170405C
	HA-SB23-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 12:07 PM	ICP-MS4_170405A
1703266-28A	HA-SB29-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	2	04/06/17 04:09 PM	GCMS8_170406A
	HA-SB29-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	1	04/05/17 06:33 PM	GCMS8_170405A
	HA-SB29-010	Soil	D2216	Percent Moisture	79903	1	04/10/17 08:42 AM	PMOIST_170407B
	HA-SB29-010	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 02:58 PM	CETAC2_HG_170405C

Lab Order: 1703266
Client: AECOM
Project: GLO - Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1703266-28A	HA-SB29-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 12:09 PM	ICP-MS4_170405A
1703266-29A	HA-SB34-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	1	04/05/17 05:33 PM	GCMS8_170405A
	HA-SB34-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	2	04/06/17 04:39 PM	GCMS8_170406A
	HA-SB34-010	Soil	D2216	Percent Moisture	79903	1	04/10/17 08:42 AM	PMOIST_170407B
	HA-SB34-010	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 03:00 PM	CETAC2_HG_170405C
	HA-SB34-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 12:11 PM	ICP-MS4_170405A
	HA-SB34-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	25	04/05/17 01:27 PM	ICP-MS4_170405A
1703266-30A	HA-SB32-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	1	04/05/17 06:03 PM	GCMS8_170405A
	HA-SB32-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	2	04/06/17 05:08 PM	GCMS8_170406A
	HA-SB32-010	Soil	D2216	Percent Moisture	79861	1	04/06/17 08:43 AM	PMOIST_170405A
	HA-SB32-010	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 03:03 PM	CETAC2_HG_170405C
	HA-SB32-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 12:13 PM	ICP-MS4_170405A
1703266-31A	HA-SB32-020	Soil	SW8270D-LL	PAHs: GC/MS	79942	1	04/13/17 07:37 PM	GCMS6_170413B
	HA-SB32-020	Soil	D2216	Percent Moisture	79937	1	04/11/17 10:21 AM	PMOIST_170410C
	HA-SB32-020	Soil	SW7471B	Total Mercury: Soil/Solid	79945	1	04/12/17 08:57 AM	CETAC2_HG_170412A
	HA-SB32-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79943	5	04/12/17 01:05 PM	ICP-MS4_170412B
1703266-32A	HA-SB31-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	10	04/06/17 03:10 PM	GCMS8_170406A
	HA-SB31-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	20	04/07/17 11:56 AM	GCMS8_170406A
	HA-SB31-010	Soil	D2216	Percent Moisture	79903	1	04/10/17 08:42 AM	PMOIST_170407B
	HA-SB31-010	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 03:05 PM	CETAC2_HG_170405C
	HA-SB31-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 12:33 PM	ICP-MS4_170405A
1703266-33A	HA-SB39-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	1	04/06/17 05:38 PM	GCMS8_170406A
	HA-SB39-010	Soil	D2216	Percent Moisture	79903	1	04/10/17 08:42 AM	PMOIST_170407B
	HA-SB39-010	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 03:12 PM	CETAC2_HG_170405C
	HA-SB39-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 12:35 PM	ICP-MS4_170405A
1703266-34A	HA-SB38-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	1	04/06/17 06:07 PM	GCMS8_170406A

Lab Order: 1703266
Client: AECOM
Project: GLO - Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1703266-34A	HA-SB38-010	Soil	D2216	Percent Moisture	79903	1	04/10/17 08:42 AM	PMOIST_170407B
	HA-SB38-010	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 03:14 PM	CETAC2_HG_170405C
	HA-SB38-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 12:37 PM	ICP-MS4_170405A
1703266-35A	HA-SB35-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	1	04/05/17 05:03 PM	GCMS8_170405A
	HA-SB35-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	10	04/06/17 02:40 PM	GCMS8_170406A
	HA-SB35-010	Soil	D2216	Percent Moisture	79903	1	04/10/17 08:42 AM	PMOIST_170407B
	HA-SB35-010	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 03:16 PM	CETAC2_HG_170405C
	HA-SB35-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	100	04/05/17 01:29 PM	ICP-MS4_170405A
	HA-SB35-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 12:39 PM	ICP-MS4_170405A
1703266-36A	HA-SB40-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	1	04/05/17 08:02 PM	GCMS8_170405A
	HA-SB40-010	Soil	D2216	Percent Moisture	79903	1	04/10/17 08:42 AM	PMOIST_170407B
	HA-SB40-010	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 03:19 PM	CETAC2_HG_170405C
	HA-SB40-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 12:41 PM	ICP-MS4_170405A
1703266-37A	HA-SB40-011	Soil	SW8270D-LL	PAHs: GC/MS	79816	1	04/07/17 06:15 PM	GCMS8_170406A
	HA-SB40-011	Soil	D2216	Percent Moisture	79903	1	04/10/17 08:42 AM	PMOIST_170407B
	HA-SB40-011	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 03:21 PM	CETAC2_HG_170405C
	HA-SB40-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 12:43 PM	ICP-MS4_170405A
1703266-38A	HA-SB33-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	10	04/06/17 03:39 PM	GCMS8_170406A
	HA-SB33-010	Soil	D2216	Percent Moisture	79903	1	04/10/17 08:42 AM	PMOIST_170407B
	HA-SB33-010	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 03:23 PM	CETAC2_HG_170405C
	HA-SB33-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 12:45 PM	ICP-MS4_170405A
1703266-39A	HA-SB37-013	Soil	SW8270D-LL	PAHs: GC/MS	79816	10	04/05/17 08:31 PM	GCMS8_170405A
	HA-SB37-013	Soil	SW8270D-LL	PAHs: GC/MS	79816	1	04/06/17 06:37 PM	GCMS8_170406A
	HA-SB37-013	Soil	D2216	Percent Moisture	79903	1	04/10/17 08:42 AM	PMOIST_170407B
	HA-SB37-013	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 03:25 PM	CETAC2_HG_170405C

Lab Order: 1703266
Client: AECOM
Project: GLO - Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1703266-39A	HA-SB37-013	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 11:54 AM	ICP-MS4_170405A
1703266-40A	HA-SB36-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	1	04/05/17 07:02 PM	GCMS8_170405A
	HA-SB36-010	Soil	D2216	Percent Moisture	79903	1	04/10/17 08:42 AM	PMOIST_170407B
	HA-SB36-010	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 03:37 PM	CETAC2_HG_170405C
	HA-SB36-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 12:47 PM	ICP-MS4_170405A
1703266-41A	HA-SB30-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	1	04/05/17 07:32 PM	GCMS8_170405A
	HA-SB30-010	Soil	D2216	Percent Moisture	79861	1	04/06/17 08:43 AM	PMOIST_170405A
	HA-SB30-010	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 03:39 PM	CETAC2_HG_170405C
	HA-SB30-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 12:49 PM	ICP-MS4_170405A
1703266-42A	HA-SB30-020	Soil	SW8270D-LL	PAHs: GC/MS	79942	1	04/13/17 08:09 PM	GCMS6_170413B
	HA-SB30-020	Soil	D2216	Percent Moisture	79937	1	04/11/17 10:21 AM	PMOIST_170410C
	HA-SB30-020	Soil	SW7471B	Total Mercury: Soil/Solid	79945	1	04/12/17 08:59 AM	CETAC2_HG_170412A
	HA-SB30-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79943	5	04/12/17 01:07 PM	ICP-MS4_170412B
	HA-SB30-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79943	25	04/12/17 01:30 PM	ICP-MS4_170412B
1703266-43A	HA-SB25-010	Soil	SW8270D-LL	PAHs: GC/MS	79816	1	04/05/17 04:33 PM	GCMS8_170405A
	HA-SB25-010	Soil	D2216	Percent Moisture	79903	1	04/10/17 08:42 AM	PMOIST_170407B
	HA-SB25-010	Soil	SW7471B	Total Mercury: Soil/Solid	79811	1	04/05/17 03:41 PM	CETAC2_HG_170405C
	HA-SB25-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79809	5	04/05/17 12:51 PM	ICP-MS4_170405A

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB28-010
Project:	GLO - Galveston	**Lab ID:**	1703266-01
Project No:	60420789	**Collection Date:**	03/29/17 09:40 AM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	<0.499	0.499	0.997		mg/Kg-dry	5	04/05/17 04:34 PM
Arsenic	2.36	0.499	0.997		mg/Kg-dry	5	04/05/17 04:34 PM
Barium	108	0.499	1.99		mg/Kg-dry	5	04/05/17 04:34 PM
Beryllium	0.200	0.0997	0.299	J	mg/Kg-dry	5	04/05/17 04:34 PM
Cadmium	0.283	0.0997	0.299	J	mg/Kg-dry	5	04/05/17 04:34 PM
Chromium	6.18	0.499	1.99		mg/Kg-dry	5	04/05/17 04:34 PM
Lead	19.5	0.0997	0.299		mg/Kg-dry	5	04/05/17 04:34 PM
Nickel	4.50	0.499	1.99		mg/Kg-dry	5	04/05/17 04:34 PM
Selenium	0.805	0.150	0.499		mg/Kg-dry	5	04/05/17 04:34 PM
Silver	<0.0997	0.0997	0.199		mg/Kg-dry	5	04/05/17 04:34 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0194	0.0170	0.0425	J	mg/Kg-dry	1	04/10/17 11:40 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	<0.00533	0.00533	0.0107		mg/Kg-dry	1	04/06/17 03:04 PM
Acenaphthylene	0.00958	0.00533	0.0107	J	mg/Kg-dry	1	04/06/17 03:04 PM
Anthracene	0.0192	0.00533	0.0107		mg/Kg-dry	1	04/06/17 03:04 PM
Benzo[a]anthracene	0.0850	0.00533	0.0107		mg/Kg-dry	1	04/06/17 03:04 PM
Benzo[a]pyrene	0.109	0.00533	0.0107		mg/Kg-dry	1	04/06/17 03:04 PM
Benzo[b]fluoranthene	0.117	0.00533	0.0107		mg/Kg-dry	1	04/06/17 03:04 PM
Benzo[g,h,i]perylene	0.117	0.00533	0.0107		mg/Kg-dry	1	04/06/17 03:04 PM
Benzo[k]fluoranthene	0.0602	0.00533	0.0107		mg/Kg-dry	1	04/06/17 03:04 PM
Chrysene	0.110	0.00533	0.0107		mg/Kg-dry	1	04/06/17 03:04 PM
Dibenz[a,h]anthracene	0.0167	0.00533	0.0107		mg/Kg-dry	1	04/06/17 03:04 PM
Fluoranthene	0.193	0.00533	0.0107		mg/Kg-dry	1	04/06/17 03:04 PM
Fluorene	<0.00533	0.00533	0.0107		mg/Kg-dry	1	04/06/17 03:04 PM
Indeno[1,2,3-cd]pyrene	0.111	0.00533	0.0107		mg/Kg-dry	1	04/06/17 03:04 PM
Naphthalene	<0.00533	0.00533	0.0107		mg/Kg-dry	1	04/06/17 03:04 PM
Phenanthrene	0.0733	0.00533	0.0107		mg/Kg-dry	1	04/06/17 03:04 PM
Pyrene	0.170	0.00533	0.0107		mg/Kg-dry	1	04/06/17 03:04 PM
Surr: 2-Fluorobiphenyl	83.4	0	43-125		%REC	1	04/06/17 03:04 PM
Surr: 4-Terphenyl-d14	83.0	0	32-125		%REC	1	04/06/17 03:04 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	7.20	0	0		WT%	1	04/06/17 08:43 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB27-010
Project:	GLO - Galveston	**Lab ID:**	1703266-02
Project No:	60420789	**Collection Date:**	03/29/17 09:55 AM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	<0.668	0.668	1.34		mg/Kg-dry	5	04/05/17 04:35 PM
Arsenic	2.31	0.668	1.34		mg/Kg-dry	5	04/05/17 04:35 PM
Barium	209	0.668	2.67		mg/Kg-dry	5	04/05/17 04:35 PM
Beryllium	0.317	0.134	0.401	J	mg/Kg-dry	5	04/05/17 04:35 PM
Cadmium	0.617	0.134	0.401		mg/Kg-dry	5	04/05/17 04:35 PM
Chromium	10.7	0.668	2.67		mg/Kg-dry	5	04/05/17 04:35 PM
Lead	89.2	0.134	0.401		mg/Kg-dry	5	04/05/17 04:35 PM
Nickel	6.26	0.668	2.67		mg/Kg-dry	5	04/05/17 04:35 PM
Selenium	1.01	0.200	0.668		mg/Kg-dry	5	04/05/17 04:35 PM
Silver	0.158	0.134	0.267	J	mg/Kg-dry	5	04/05/17 04:35 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0744	0.0179	0.0448		mg/Kg-dry	1	04/10/17 11:42 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.187	0.00651	0.0130		mg/Kg-dry	1	04/06/17 10:59 PM
Acenaphthylene	0.105	0.00651	0.0130		mg/Kg-dry	1	04/06/17 10:59 PM
Anthracene	0.453	0.00651	0.0130		mg/Kg-dry	1	04/06/17 10:59 PM
Benzo[a]anthracene	1.13	0.00651	0.0130		mg/Kg-dry	1	04/06/17 10:59 PM
Benzo[a]pyrene	1.10	0.00651	0.0130		mg/Kg-dry	1	04/06/17 10:59 PM
Benzo[b]fluoranthene	1.07	0.00651	0.0130		mg/Kg-dry	1	04/06/17 10:59 PM
Benzo[g,h,i]perylene	0.815	0.00651	0.0130		mg/Kg-dry	1	04/06/17 10:59 PM
Benzo[k]fluoranthene	0.597	0.00651	0.0130		mg/Kg-dry	1	04/06/17 10:59 PM
Chrysene	1.19	0.00651	0.0130		mg/Kg-dry	1	04/06/17 10:59 PM
Dibenz[a,h]anthracene	0.168	0.00651	0.0130		mg/Kg-dry	1	04/06/17 10:59 PM
Fluoranthene	2.66	0.00651	0.0130		mg/Kg-dry	1	04/06/17 10:59 PM
Fluorene	0.188	0.00651	0.0130		mg/Kg-dry	1	04/06/17 10:59 PM
Indeno[1,2,3-cd]pyrene	0.868	0.00651	0.0130		mg/Kg-dry	1	04/06/17 10:59 PM
Naphthalene	0.0722	0.00651	0.0130		mg/Kg-dry	1	04/06/17 10:59 PM
Phenanthrene	2.25	0.00651	0.0130		mg/Kg-dry	1	04/06/17 10:59 PM
Pyrene	2.16	0.00651	0.0130		mg/Kg-dry	1	04/06/17 10:59 PM
Surr: 2-Fluorobiphenyl	89.6	0	43-125		%REC	1	04/06/17 10:59 PM
Surr: 4-Terphenyl-d14	95.5	0	32-125		%REC	1	04/06/17 10:59 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	29.1	0	0		WT%	1	04/06/17 08:43 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB19-010
Project:	GLO - Galveston	**Lab ID:**	1703266-03
Project No:	60420789	**Collection Date:**	03/29/17 10:15 AM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	<0.501	0.501	1.00		mg/Kg-dry	5	04/05/17 04:37 PM
Arsenic	2.76	0.501	1.00		mg/Kg-dry	5	04/05/17 04:37 PM
Barium	137	0.501	2.00		mg/Kg-dry	5	04/05/17 04:37 PM
Beryllium	0.208	0.100	0.301	J	mg/Kg-dry	5	04/05/17 04:37 PM
Cadmium	0.201	0.100	0.301	J	mg/Kg-dry	5	04/05/17 04:37 PM
Chromium	8.67	0.501	2.00		mg/Kg-dry	5	04/05/17 04:37 PM
Lead	38.9	0.100	0.301		mg/Kg-dry	5	04/05/17 04:37 PM
Nickel	6.06	0.501	2.00		mg/Kg-dry	5	04/05/17 04:37 PM
Selenium	0.648	0.150	0.501		mg/Kg-dry	5	04/05/17 04:37 PM
Silver	<0.100	0.100	0.200		mg/Kg-dry	5	04/05/17 04:37 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0548	0.0153	0.0383		mg/Kg-dry	1	04/10/17 11:45 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.111	0.0516	0.103		mg/Kg-dry	10	04/07/17 01:06 AM
Acenaphthylene	0.215	0.0516	0.103		mg/Kg-dry	10	04/07/17 01:06 AM
Anthracene	0.500	0.0516	0.103		mg/Kg-dry	10	04/07/17 01:06 AM
Benzo[a]anthracene	1.36	0.0516	0.103		mg/Kg-dry	10	04/07/17 01:06 AM
Benzo[a]pyrene	1.38	0.0516	0.103		mg/Kg-dry	10	04/07/17 01:06 AM
Benzo[b]fluoranthene	1.39	0.0516	0.103		mg/Kg-dry	10	04/07/17 01:06 AM
Benzo[g,h,i]perylene	0.966	0.0516	0.103		mg/Kg-dry	10	04/07/17 01:06 AM
Benzo[k]fluoranthene	0.750	0.0516	0.103		mg/Kg-dry	10	04/07/17 01:06 AM
Chrysene	1.32	0.0516	0.103		mg/Kg-dry	10	04/07/17 01:06 AM
Dibenz[a,h]anthracene	0.187	0.0516	0.103		mg/Kg-dry	10	04/07/17 01:06 AM
Fluoranthene	2.78	0.0516	0.103		mg/Kg-dry	10	04/07/17 01:06 AM
Fluorene	0.152	0.0516	0.103		mg/Kg-dry	10	04/07/17 01:06 AM
Indeno[1,2,3-cd]pyrene	0.946	0.0516	0.103		mg/Kg-dry	10	04/07/17 01:06 AM
Naphthalene	<0.0516	0.0516	0.103		mg/Kg-dry	10	04/07/17 01:06 AM
Phenanthrene	1.64	0.0516	0.103		mg/Kg-dry	10	04/07/17 01:06 AM
Pyrene	2.14	0.0516	0.103		mg/Kg-dry	10	04/07/17 01:06 AM
Surr: 2-Fluorobiphenyl	77.6	0	43-125		%REC	10	04/07/17 01:06 AM
Surr: 4-Terphenyl-d14	81.2	0	32-125		%REC	10	04/07/17 01:06 AM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	3.50	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB18-010
Project:	GLO - Galveston	**Lab ID:**	1703266-04
Project No:	60420789	**Collection Date:**	03/29/17 10:20 AM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	<0.542	0.542	1.08		mg/Kg-dry	5	04/05/17 04:39 PM
Arsenic	2.66	0.542	1.08		mg/Kg-dry	5	04/05/17 04:39 PM
Barium	59.8	0.542	2.17		mg/Kg-dry	5	04/05/17 04:39 PM
Beryllium	0.123	0.108	0.325	J	mg/Kg-dry	5	04/05/17 04:39 PM
Cadmium	0.317	0.108	0.325	J	mg/Kg-dry	5	04/05/17 04:39 PM
Chromium	4.95	0.542	2.17		mg/Kg-dry	5	04/05/17 04:39 PM
Lead	190	0.108	0.325		mg/Kg-dry	5	04/05/17 04:39 PM
Nickel	3.57	0.542	2.17		mg/Kg-dry	5	04/05/17 04:39 PM
Selenium	0.775	0.163	0.542		mg/Kg-dry	5	04/05/17 04:39 PM
Silver	<0.108	0.108	0.217		mg/Kg-dry	5	04/05/17 04:39 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.174	0.0151	0.0378		mg/Kg-dry	1	04/10/17 11:47 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	<0.00621	0.00621	0.0124		mg/Kg-dry	1	04/06/17 03:36 PM
Acenaphthylene	0.0224	0.00621	0.0124		mg/Kg-dry	1	04/06/17 03:36 PM
Anthracene	0.0123	0.00621	0.0124	J	mg/Kg-dry	1	04/06/17 03:36 PM
Benzo[a]anthracene	0.0535	0.00621	0.0124		mg/Kg-dry	1	04/06/17 03:36 PM
Benzo[a]pyrene	0.0720	0.00621	0.0124		mg/Kg-dry	1	04/06/17 03:36 PM
Benzo[b]fluoranthene	0.0603	0.00621	0.0124		mg/Kg-dry	1	04/06/17 03:36 PM
Benzo[g,h,i]perylene	0.0610	0.00621	0.0124		mg/Kg-dry	1	04/06/17 03:36 PM
Benzo[k]fluoranthene	0.0327	0.00621	0.0124		mg/Kg-dry	1	04/06/17 03:36 PM
Chrysene	0.0679	0.00621	0.0124		mg/Kg-dry	1	04/06/17 03:36 PM
Dibenz[a,h]anthracene	0.00952	0.00621	0.0124	J	mg/Kg-dry	1	04/06/17 03:36 PM
Fluoranthene	0.109	0.00621	0.0124		mg/Kg-dry	1	04/06/17 03:36 PM
Fluorene	<0.00621	0.00621	0.0124		mg/Kg-dry	1	04/06/17 03:36 PM
Indeno[1,2,3-cd]pyrene	0.0574	0.00621	0.0124		mg/Kg-dry	1	04/06/17 03:36 PM
Naphthalene	<0.00621	0.00621	0.0124		mg/Kg-dry	1	04/06/17 03:36 PM
Phenanthrene	0.0310	0.00621	0.0124		mg/Kg-dry	1	04/06/17 03:36 PM
Pyrene	0.103	0.00621	0.0124		mg/Kg-dry	1	04/06/17 03:36 PM
Surr: 2-Fluorobiphenyl	86.0	0	43-125		%REC	1	04/06/17 03:36 PM
Surr: 4-Terphenyl-d14	90.5	0	32-125		%REC	1	04/06/17 03:36 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	21.1	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB18-011
Project:	GLO - Galveston	**Lab ID:**	1703266-05
Project No:	60420789	**Collection Date:**	03/29/17 10:20 AM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	<0.571	0.571	1.14		mg/Kg-dry	5	04/05/17 04:40 PM
Arsenic	2.98	0.571	1.14		mg/Kg-dry	5	04/05/17 04:40 PM
Barium	71.3	0.571	2.28		mg/Kg-dry	5	04/05/17 04:40 PM
Beryllium	0.162	0.114	0.343	J	mg/Kg-dry	5	04/05/17 04:40 PM
Cadmium	0.382	0.114	0.343		mg/Kg-dry	5	04/05/17 04:40 PM
Chromium	5.52	0.571	2.28		mg/Kg-dry	5	04/05/17 04:40 PM
Lead	206	0.114	0.343		mg/Kg-dry	5	04/05/17 04:40 PM
Nickel	3.91	0.571	2.28		mg/Kg-dry	5	04/05/17 04:40 PM
Selenium	0.770	0.171	0.571		mg/Kg-dry	5	04/05/17 04:40 PM
Silver	<0.114	0.114	0.228		mg/Kg-dry	5	04/05/17 04:40 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.170	0.0132	0.0331		mg/Kg-dry	1	04/10/17 11:49 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	<0.00590	0.00590	0.0118		mg/Kg-dry	1	04/06/17 04:08 PM
Acenaphthylene	0.0267	0.00590	0.0118		mg/Kg-dry	1	04/06/17 04:08 PM
Anthracene	0.0141	0.00590	0.0118		mg/Kg-dry	1	04/06/17 04:08 PM
Benzo[a]anthracene	0.0694	0.00590	0.0118		mg/Kg-dry	1	04/06/17 04:08 PM
Benzo[a]pyrene	0.0865	0.00590	0.0118		mg/Kg-dry	1	04/06/17 04:08 PM
Benzo[b]fluoranthene	0.0810	0.00590	0.0118		mg/Kg-dry	1	04/06/17 04:08 PM
Benzo[g,h,i]perylene	0.0697	0.00590	0.0118		mg/Kg-dry	1	04/06/17 04:08 PM
Benzo[k]fluoranthene	0.0452	0.00590	0.0118		mg/Kg-dry	1	04/06/17 04:08 PM
Chrysene	0.0857	0.00590	0.0118		mg/Kg-dry	1	04/06/17 04:08 PM
Dibenz[a,h]anthracene	0.0112	0.00590	0.0118	J	mg/Kg-dry	1	04/06/17 04:08 PM
Fluoranthene	0.158	0.00590	0.0118		mg/Kg-dry	1	04/06/17 04:08 PM
Fluorene	<0.00590	0.00590	0.0118		mg/Kg-dry	1	04/06/17 04:08 PM
Indeno[1,2,3-cd]pyrene	0.0648	0.00590	0.0118		mg/Kg-dry	1	04/06/17 04:08 PM
Naphthalene	<0.00590	0.00590	0.0118		mg/Kg-dry	1	04/06/17 04:08 PM
Phenanthrene	0.0490	0.00590	0.0118		mg/Kg-dry	1	04/06/17 04:08 PM
Pyrene	0.161	0.00590	0.0118		mg/Kg-dry	1	04/06/17 04:08 PM
Surr: 2-Fluorobiphenyl	80.6	0	43-125		%REC	1	04/06/17 04:08 PM
Surr: 4-Terphenyl-d14	95.6	0	32-125		%REC	1	04/06/17 04:08 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	19.9	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB26-010
Project:	GLO - Galveston	**Lab ID:**	1703266-06
Project No:	60420789	**Collection Date:**	03/29/17 10:30 AM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	0.517	0.459	0.918	J	mg/Kg-dry	5	04/05/17 04:42 PM
Arsenic	3.45	0.459	0.918		mg/Kg-dry	5	04/05/17 04:42 PM
Barium	45.8	0.459	1.84		mg/Kg-dry	5	04/05/17 04:42 PM
Beryllium	0.133	0.0918	0.275	J	mg/Kg-dry	5	04/05/17 04:42 PM
Cadmium	0.745	0.0918	0.275		mg/Kg-dry	5	04/05/17 04:42 PM
Chromium	6.30	0.459	1.84		mg/Kg-dry	5	04/05/17 04:42 PM
Lead	60.1	0.0918	0.275		mg/Kg-dry	5	04/05/17 04:42 PM
Nickel	4.35	0.459	1.84		mg/Kg-dry	5	04/05/17 04:42 PM
Selenium	0.657	0.138	0.459		mg/Kg-dry	5	04/05/17 04:42 PM
Silver	0.0924	0.0918	0.184	J	mg/Kg-dry	5	04/05/17 04:42 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0295	0.0156	0.0391	J	mg/Kg-dry	1	04/10/17 11:52 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	<0.00533	0.00533	0.0107		mg/Kg-dry	1	04/06/17 04:39 PM
Acenaphthylene	0.0395	0.00533	0.0107		mg/Kg-dry	1	04/06/17 04:39 PM
Anthracene	0.0243	0.00533	0.0107		mg/Kg-dry	1	04/06/17 04:39 PM
Benzo[a]anthracene	0.101	0.00533	0.0107		mg/Kg-dry	1	04/06/17 04:39 PM
Benzo[a]pyrene	0.144	0.00533	0.0107		mg/Kg-dry	1	04/06/17 04:39 PM
Benzo[b]fluoranthene	0.143	0.00533	0.0107		mg/Kg-dry	1	04/06/17 04:39 PM
Benzo[g,h,i]perylene	0.126	0.00533	0.0107		mg/Kg-dry	1	04/06/17 04:39 PM
Benzo[k]fluoranthene	0.0795	0.00533	0.0107		mg/Kg-dry	1	04/06/17 04:39 PM
Chrysene	0.165	0.00533	0.0107		mg/Kg-dry	1	04/06/17 04:39 PM
Dibenz[a,h]anthracene	0.0174	0.00533	0.0107		mg/Kg-dry	1	04/06/17 04:39 PM
Fluoranthene	0.323	0.00533	0.0107		mg/Kg-dry	1	04/06/17 04:39 PM
Fluorene	<0.00533	0.00533	0.0107		mg/Kg-dry	1	04/06/17 04:39 PM
Indeno[1,2,3-cd]pyrene	0.114	0.00533	0.0107		mg/Kg-dry	1	04/06/17 04:39 PM
Naphthalene	<0.00533	0.00533	0.0107		mg/Kg-dry	1	04/06/17 04:39 PM
Phenanthrene	0.131	0.00533	0.0107		mg/Kg-dry	1	04/06/17 04:39 PM
Pyrene	0.273	0.00533	0.0107		mg/Kg-dry	1	04/06/17 04:39 PM
Surr: 2-Fluorobiphenyl	79.1	0	43-125		%REC	1	04/06/17 04:39 PM
Surr: 4-Terphenyl-d14	86.2	0	32-125		%REC	1	04/06/17 04:39 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	12.2	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB24-010
Project:	GLO - Galveston	**Lab ID:**	1703266-07
Project No:	60420789	**Collection Date:**	03/29/17 11:25 AM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	1.20	0.548	1.10		mg/Kg-dry	5	04/05/17 04:44 PM
Arsenic	3.97	0.548	1.10		mg/Kg-dry	5	04/05/17 04:44 PM
Barium	410	0.548	2.19		mg/Kg-dry	5	04/05/17 04:44 PM
Beryllium	0.291	0.110	0.329	J	mg/Kg-dry	5	04/05/17 04:44 PM
Cadmium	0.938	0.110	0.329		mg/Kg-dry	5	04/05/17 04:44 PM
Chromium	13.5	0.548	2.19		mg/Kg-dry	5	04/05/17 04:44 PM
Lead	358	0.110	0.329		mg/Kg-dry	5	04/05/17 04:44 PM
Nickel	9.03	0.548	2.19		mg/Kg-dry	5	04/05/17 04:44 PM
Selenium	0.791	0.164	0.548		mg/Kg-dry	5	04/05/17 04:44 PM
Silver	0.228	0.110	0.219		mg/Kg-dry	5	04/05/17 04:44 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.350	0.0164	0.0411		mg/Kg-dry	1	04/10/17 11:54 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0529	0.00563	0.0113		mg/Kg-dry	1	04/07/17 12:34 AM
Acenaphthylene	0.111	0.00563	0.0113		mg/Kg-dry	1	04/07/17 12:34 AM
Anthracene	0.209	0.00563	0.0113		mg/Kg-dry	1	04/07/17 12:34 AM
Benzo[a]anthracene	0.736	0.00563	0.0113		mg/Kg-dry	1	04/07/17 12:34 AM
Benzo[a]pyrene	0.777	0.00563	0.0113		mg/Kg-dry	1	04/07/17 12:34 AM
Benzo[b]fluoranthene	0.787	0.00563	0.0113		mg/Kg-dry	1	04/07/17 12:34 AM
Benzo[g,h,i]perylene	0.575	0.00563	0.0113		mg/Kg-dry	1	04/07/17 12:34 AM
Benzo[k]fluoranthene	0.402	0.00563	0.0113		mg/Kg-dry	1	04/07/17 12:34 AM
Chrysene	0.771	0.00563	0.0113		mg/Kg-dry	1	04/07/17 12:34 AM
Dibenz[a,h]anthracene	0.111	0.00563	0.0113		mg/Kg-dry	1	04/07/17 12:34 AM
Fluoranthene	1.56	0.00563	0.0113		mg/Kg-dry	1	04/07/17 12:34 AM
Fluorene	0.0451	0.00563	0.0113		mg/Kg-dry	1	04/07/17 12:34 AM
Indeno[1,2,3-cd]pyrene	0.589	0.00563	0.0113		mg/Kg-dry	1	04/07/17 12:34 AM
Naphthalene	0.0155	0.00563	0.0113		mg/Kg-dry	1	04/07/17 12:34 AM
Phenanthrene	0.812	0.00563	0.0113		mg/Kg-dry	1	04/07/17 12:34 AM
Pyrene	1.23	0.00563	0.0113		mg/Kg-dry	1	04/07/17 12:34 AM
Surr: 2-Fluorobiphenyl	79.2	0	43-125		%REC	1	04/07/17 12:34 AM
Surr: 4-Terphenyl-d14	85.9	0	32-125		%REC	1	04/07/17 12:34 AM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	17.8	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB16-010
Project:	GLO - Galveston	**Lab ID:**	1703266-08
Project No:	60420789	**Collection Date:**	03/29/17 11:30 AM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	0.526	0.512	1.02	J	mg/Kg-dry	5	04/05/17 04:46 PM
Arsenic	4.66	0.512	1.02		mg/Kg-dry	5	04/05/17 04:46 PM
Barium	267	0.512	2.05		mg/Kg-dry	5	04/05/17 04:46 PM
Beryllium	0.456	0.102	0.307		mg/Kg-dry	5	04/05/17 04:46 PM
Cadmium	0.650	0.102	0.307		mg/Kg-dry	5	04/05/17 04:46 PM
Chromium	14.6	0.512	2.05		mg/Kg-dry	5	04/05/17 04:46 PM
Lead	104	0.102	0.307		mg/Kg-dry	5	04/05/17 04:46 PM
Nickel	11.9	0.512	2.05		mg/Kg-dry	5	04/05/17 04:46 PM
Selenium	1.27	0.154	0.512		mg/Kg-dry	5	04/05/17 04:46 PM
Silver	0.134	0.102	0.205	J	mg/Kg-dry	5	04/05/17 04:46 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0773	0.0164	0.0409		mg/Kg-dry	1	04/10/17 11:56 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.557	0.00539	0.0108		mg/Kg-dry	1	04/07/17 12:03 AM
Acenaphthylene	0.206	0.00539	0.0108		mg/Kg-dry	1	04/07/17 12:03 AM
Anthracene	1.49	0.00539	0.0108		mg/Kg-dry	1	04/07/17 12:03 AM
Benzo[a]anthracene	3.45	0.00539	0.0108		mg/Kg-dry	1	04/07/17 12:03 AM
Benzo[a]pyrene	3.25	0.00539	0.0108		mg/Kg-dry	1	04/07/17 12:03 AM
Benzo[b]fluoranthene	2.94	0.00539	0.0108		mg/Kg-dry	1	04/07/17 12:03 AM
Benzo[g,h,i]perylene	2.18	0.00539	0.0108		mg/Kg-dry	1	04/07/17 12:03 AM
Benzo[k]fluoranthene	1.69	0.00539	0.0108		mg/Kg-dry	1	04/07/17 12:03 AM
Chrysene	3.35	0.00539	0.0108		mg/Kg-dry	1	04/07/17 12:03 AM
Dibenz[a,h]anthracene	0.513	0.00539	0.0108		mg/Kg-dry	1	04/07/17 12:03 AM
Fluoranthene	7.44	0.0108	0.0216		mg/Kg-dry	2	04/07/17 04:54 PM
Fluorene	0.448	0.00539	0.0108		mg/Kg-dry	1	04/07/17 12:03 AM
Indeno[1,2,3-cd]pyrene	2.45	0.00539	0.0108		mg/Kg-dry	1	04/07/17 12:03 AM
Naphthalene	0.339	0.00539	0.0108		mg/Kg-dry	1	04/07/17 12:03 AM
Phenanthrene	6.56	0.0108	0.0216		mg/Kg-dry	2	04/07/17 04:54 PM
Pyrene	5.78	0.0108	0.0216		mg/Kg-dry	2	04/07/17 04:54 PM
Surr: 2-Fluorobiphenyl	88.1	0	43-125		%REC	1	04/07/17 12:03 AM
Surr: 2-Fluorobiphenyl	83.3	0	43-125		%REC	2	04/07/17 04:54 PM
Surr: 4-Terphenyl-d14	86.8	0	32-125		%REC	1	04/07/17 12:03 AM
Surr: 4-Terphenyl-d14	83.8	0	32-125		%REC	2	04/07/17 04:54 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	7.89	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB17-010
Project:	GLO - Galveston	**Lab ID:**	1703266-09
Project No:	60420789	**Collection Date:**	03/29/17 11:40 AM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	<0.426	0.426	0.852		mg/Kg-dry	5	04/05/17 04:47 PM
Arsenic	5.56	0.426	0.852		mg/Kg-dry	5	04/05/17 04:47 PM
Barium	88.9	0.426	1.70		mg/Kg-dry	5	04/05/17 04:47 PM
Beryllium	0.230	0.0852	0.256	J	mg/Kg-dry	5	04/05/17 04:47 PM
Cadmium	0.185	0.0852	0.256	J	mg/Kg-dry	5	04/05/17 04:47 PM
Chromium	7.52	0.426	1.70		mg/Kg-dry	5	04/05/17 04:47 PM
Lead	42.3	0.0852	0.256		mg/Kg-dry	5	04/05/17 04:47 PM
Nickel	4.98	0.426	1.70		mg/Kg-dry	5	04/05/17 04:47 PM
Selenium	0.823	0.128	0.426		mg/Kg-dry	5	04/05/17 04:47 PM
Silver	<0.0852	0.0852	0.170		mg/Kg-dry	5	04/05/17 04:47 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0549	0.0166	0.0416		mg/Kg-dry	1	04/10/17 11:58 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0345	0.00500	0.0100		mg/Kg-dry	1	04/06/17 09:55 PM
Acenaphthylene	0.0960	0.00500	0.0100		mg/Kg-dry	1	04/06/17 09:55 PM
Anthracene	0.162	0.00500	0.0100		mg/Kg-dry	1	04/06/17 09:55 PM
Benzo[a]anthracene	0.561	0.00500	0.0100		mg/Kg-dry	1	04/06/17 09:55 PM
Benzo[a]pyrene	0.581	0.00500	0.0100		mg/Kg-dry	1	04/06/17 09:55 PM
Benzo[b]fluoranthene	0.590	0.00500	0.0100		mg/Kg-dry	1	04/06/17 09:55 PM
Benzo[g,h,i]perylene	0.481	0.00500	0.0100		mg/Kg-dry	1	04/06/17 09:55 PM
Benzo[k]fluoranthene	0.308	0.00500	0.0100		mg/Kg-dry	1	04/06/17 09:55 PM
Chrysene	0.606	0.00500	0.0100		mg/Kg-dry	1	04/06/17 09:55 PM
Dibenz[a,h]anthracene	0.0884	0.00500	0.0100		mg/Kg-dry	1	04/06/17 09:55 PM
Fluoranthene	1.25	0.00500	0.0100		mg/Kg-dry	1	04/06/17 09:55 PM
Fluorene	0.0374	0.00500	0.0100		mg/Kg-dry	1	04/06/17 09:55 PM
Indeno[1,2,3-cd]pyrene	0.492	0.00500	0.0100		mg/Kg-dry	1	04/06/17 09:55 PM
Naphthalene	0.00976	0.00500	0.0100	J	mg/Kg-dry	1	04/06/17 09:55 PM
Phenanthrene	0.592	0.00500	0.0100		mg/Kg-dry	1	04/06/17 09:55 PM
Pyrene	0.964	0.00500	0.0100		mg/Kg-dry	1	04/06/17 09:55 PM
Surr: 2-Fluorobiphenyl	92.5	0	43-125		%REC	1	04/06/17 09:55 PM
Surr: 4-Terphenyl-d14	98.0	0	32-125		%REC	1	04/06/17 09:55 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	5.08	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB12-010
Project:	GLO - Galveston	**Lab ID:**	1703266-10
Project No:	60420789	**Collection Date:**	03/29/17 11:45 AM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	<0.533	0.533	1.07		mg/Kg-dry	5	04/05/17 05:02 PM
Arsenic	3.76	0.533	1.07		mg/Kg-dry	5	04/05/17 05:02 PM
Barium	67.8	0.533	2.13		mg/Kg-dry	5	04/05/17 05:02 PM
Beryllium	0.217	0.107	0.320	J	mg/Kg-dry	5	04/05/17 05:02 PM
Cadmium	0.186	0.107	0.320	J	mg/Kg-dry	5	04/05/17 05:02 PM
Chromium	7.34	0.533	2.13		mg/Kg-dry	5	04/05/17 05:02 PM
Lead	33.5	0.107	0.320		mg/Kg-dry	5	04/05/17 05:02 PM
Nickel	4.51	0.533	2.13		mg/Kg-dry	5	04/05/17 05:02 PM
Selenium	0.822	0.160	0.533		mg/Kg-dry	5	04/05/17 05:02 PM
Silver	<0.107	0.107	0.213		mg/Kg-dry	5	04/05/17 05:02 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0434	0.0170	0.0425		mg/Kg-dry	1	04/10/17 12:01 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.220	0.00533	0.0107		mg/Kg-dry	1	04/06/17 07:49 PM
Acenaphthylene	0.0633	0.00533	0.0107		mg/Kg-dry	1	04/06/17 07:49 PM
Anthracene	0.533	0.00533	0.0107		mg/Kg-dry	1	04/06/17 07:49 PM
Benzo[a]anthracene	1.91	0.00533	0.0107		mg/Kg-dry	1	04/06/17 07:49 PM
Benzo[a]pyrene	1.96	0.00533	0.0107		mg/Kg-dry	1	04/06/17 07:49 PM
Benzo[b]fluoranthene	1.97	0.00533	0.0107		mg/Kg-dry	1	04/06/17 07:49 PM
Benzo[g,h,i]perylene	1.36	0.00533	0.0107		mg/Kg-dry	1	04/06/17 07:49 PM
Benzo[k]fluoranthene	1.04	0.00533	0.0107		mg/Kg-dry	1	04/06/17 07:49 PM
Chrysene	2.02	0.00533	0.0107		mg/Kg-dry	1	04/06/17 07:49 PM
Dibenz[a,h]anthracene	0.312	0.00533	0.0107		mg/Kg-dry	1	04/06/17 07:49 PM
Fluoranthene	3.86	0.00533	0.0107		mg/Kg-dry	1	04/06/17 07:49 PM
Fluorene	0.183	0.00533	0.0107		mg/Kg-dry	1	04/06/17 07:49 PM
Indeno[1,2,3-cd]pyrene	1.51	0.00533	0.0107		mg/Kg-dry	1	04/06/17 07:49 PM
Naphthalene	0.0465	0.00533	0.0107		mg/Kg-dry	1	04/06/17 07:49 PM
Phenanthrene	2.30	0.00533	0.0107		mg/Kg-dry	1	04/06/17 07:49 PM
Pyrene	2.87	0.00533	0.0107		mg/Kg-dry	1	04/06/17 07:49 PM
Surr: 2-Fluorobiphenyl	91.6	0	43-125		%REC	1	04/06/17 07:49 PM
Surr: 4-Terphenyl-d14	93.4	0	32-125		%REC	1	04/06/17 07:49 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	9.46	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB05-010
Project:	GLO - Galveston	**Lab ID:**	1703266-11
Project No:	60420789	**Collection Date:**	03/29/17 01:40 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	<0.462	0.462	0.924		mg/Kg-dry	5	04/05/17 05:04 PM
Arsenic	3.60	0.462	0.924		mg/Kg-dry	5	04/05/17 05:04 PM
Barium	127	0.462	1.85		mg/Kg-dry	5	04/05/17 05:04 PM
Beryllium	0.229	0.0924	0.277	J	mg/Kg-dry	5	04/05/17 05:04 PM
Cadmium	0.187	0.0924	0.277	J	mg/Kg-dry	5	04/05/17 05:04 PM
Chromium	11.3	0.462	1.85		mg/Kg-dry	5	04/05/17 05:04 PM
Lead	29.8	0.0924	0.277		mg/Kg-dry	5	04/05/17 05:04 PM
Nickel	6.73	0.462	1.85		mg/Kg-dry	5	04/05/17 05:04 PM
Selenium	0.883	0.139	0.462		mg/Kg-dry	5	04/05/17 05:04 PM
Silver	<0.0924	0.0924	0.185		mg/Kg-dry	5	04/05/17 05:04 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0690	0.0153	0.0382		mg/Kg-dry	1	04/10/17 12:08 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0159	0.00523	0.0105		mg/Kg-dry	1	04/06/17 07:18 PM
Acenaphthylene	0.0535	0.00523	0.0105		mg/Kg-dry	1	04/06/17 07:18 PM
Anthracene	0.0825	0.00523	0.0105		mg/Kg-dry	1	04/06/17 07:18 PM
Benzo[a]anthracene	0.258	0.00523	0.0105		mg/Kg-dry	1	04/06/17 07:18 PM
Benzo[a]pyrene	0.287	0.00523	0.0105		mg/Kg-dry	1	04/06/17 07:18 PM
Benzo[b]fluoranthene	0.357	0.00523	0.0105		mg/Kg-dry	1	04/06/17 07:18 PM
Benzo[g,h,i]perylene	0.261	0.00523	0.0105		mg/Kg-dry	1	04/06/17 07:18 PM
Benzo[k]fluoranthene	0.170	0.00523	0.0105		mg/Kg-dry	1	04/06/17 07:18 PM
Chrysene	0.338	0.00523	0.0105		mg/Kg-dry	1	04/06/17 07:18 PM
Dibenz[a,h]anthracene	0.0452	0.00523	0.0105		mg/Kg-dry	1	04/06/17 07:18 PM
Fluoranthene	0.605	0.00523	0.0105		mg/Kg-dry	1	04/06/17 07:18 PM
Fluorene	0.0157	0.00523	0.0105		mg/Kg-dry	1	04/06/17 07:18 PM
Indeno[1,2,3-cd]pyrene	0.253	0.00523	0.0105		mg/Kg-dry	1	04/06/17 07:18 PM
Naphthalene	<0.00523	0.00523	0.0105		mg/Kg-dry	1	04/06/17 07:18 PM
Phenanthrene	0.256	0.00523	0.0105		mg/Kg-dry	1	04/06/17 07:18 PM
Pyrene	0.476	0.00523	0.0105		mg/Kg-dry	1	04/06/17 07:18 PM
Surr: 2-Fluorobiphenyl	82.4	0	43-125		%REC	1	04/06/17 07:18 PM
Surr: 4-Terphenyl-d14	85.9	0	32-125		%REC	1	04/06/17 07:18 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	12.3	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB06-010
Project:	GLO - Galveston	**Lab ID:**	1703266-12
Project No:	60420789	**Collection Date:**	03/29/17 01:50 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	2.13	0.495	0.989		mg/Kg-dry	5	04/05/17 05:06 PM
Arsenic	6.70	0.495	0.989		mg/Kg-dry	5	04/05/17 05:06 PM
Barium	227	0.495	1.98		mg/Kg-dry	5	04/05/17 05:06 PM
Beryllium	0.271	0.0989	0.297	J	mg/Kg-dry	5	04/05/17 05:06 PM
Cadmium	1.19	0.0989	0.297		mg/Kg-dry	5	04/05/17 05:06 PM
Chromium	19.6	0.495	1.98		mg/Kg-dry	5	04/05/17 05:06 PM
Lead	151	0.0989	0.297		mg/Kg-dry	5	04/05/17 05:06 PM
Nickel	11.5	0.495	1.98		mg/Kg-dry	5	04/05/17 05:06 PM
Selenium	0.868	0.148	0.495		mg/Kg-dry	5	04/05/17 05:06 PM
Silver	0.183	0.0989	0.198	J	mg/Kg-dry	5	04/05/17 05:06 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.112	0.0167	0.0418		mg/Kg-dry	1	04/10/17 12:10 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	3.35	0.0101	0.0201		mg/Kg-dry	2	04/07/17 02:10 AM
Acenaphthylene	1.40	0.0101	0.0201		mg/Kg-dry	2	04/07/17 02:10 AM
Anthracene	9.57	0.0101	0.0201		mg/Kg-dry	2	04/07/17 02:10 AM
Benzo[a]anthracene	34.5	0.101	0.201		mg/Kg-dry	20	04/07/17 12:32 PM
Benzo[a]pyrene	34.7	0.101	0.201		mg/Kg-dry	20	04/07/17 12:32 PM
Benzo[b]fluoranthene	29.9	0.101	0.201		mg/Kg-dry	20	04/07/17 12:32 PM
Benzo[g,h,i]perylene	<0.101	0.101	0.201		mg/Kg-dry	20	04/07/17 12:32 PM
Benzo[k]fluoranthene	17.6	0.101	0.201		mg/Kg-dry	20	04/07/17 12:32 PM
Chrysene	32.8	0.101	0.201		mg/Kg-dry	20	04/07/17 12:32 PM
Dibenz[a,h]anthracene	4.12	0.0101	0.0201		mg/Kg-dry	2	04/07/17 02:10 AM
Fluoranthene	70.9	0.101	0.201		mg/Kg-dry	20	04/07/17 12:32 PM
Fluorene	2.49	0.0101	0.0201		mg/Kg-dry	2	04/07/17 02:10 AM
Indeno[1,2,3-cd]pyrene	20.6	0.101	0.201		mg/Kg-dry	20	04/07/17 12:32 PM
Naphthalene	1.24	0.0101	0.0201		mg/Kg-dry	2	04/07/17 02:10 AM
Phenanthrene	52.1	0.101	0.201		mg/Kg-dry	20	04/07/17 12:32 PM
Pyrene	58.2	0.101	0.201		mg/Kg-dry	20	04/07/17 12:32 PM
Surr: 2-Fluorobiphenyl	93.4	0	43-125		%REC	20	04/07/17 12:32 PM
Surr: 2-Fluorobiphenyl	81.9	0	43-125		%REC	2	04/07/17 02:10 AM
Surr: 4-Terphenyl-d14	75.2	0	32-125		%REC	20	04/07/17 12:32 PM
Surr: 4-Terphenyl-d14	79.7	0	32-125		%REC	2	04/07/17 02:10 AM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	6.56	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB07-010
Project:	GLO - Galveston	**Lab ID:**	1703266-13
Project No:	60420789	**Collection Date:**	03/29/17 02:00 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	1.60	0.521	1.04		mg/Kg-dry	5	04/05/17 05:07 PM
Arsenic	3.66	0.521	1.04		mg/Kg-dry	5	04/05/17 05:07 PM
Barium	226	0.521	2.08		mg/Kg-dry	5	04/05/17 05:07 PM
Beryllium	1.19	0.104	0.312		mg/Kg-dry	5	04/05/17 05:07 PM
Cadmium	1.33	0.104	0.312		mg/Kg-dry	5	04/05/17 05:07 PM
Chromium	61.1	0.521	2.08		mg/Kg-dry	5	04/05/17 05:07 PM
Lead	204	0.104	0.312		mg/Kg-dry	5	04/05/17 05:07 PM
Nickel	31.8	0.521	2.08		mg/Kg-dry	5	04/05/17 05:07 PM
Selenium	1.19	0.156	0.521		mg/Kg-dry	5	04/05/17 05:07 PM
Silver	0.529	0.104	0.208		mg/Kg-dry	5	04/05/17 05:07 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0330	0.0175	0.0438	J	mg/Kg-dry	1	04/10/17 12:12 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0122	0.00533	0.0107		mg/Kg-dry	1	04/06/17 10:27 PM
Acenaphthylene	0.0291	0.00533	0.0107		mg/Kg-dry	1	04/06/17 10:27 PM
Anthracene	0.0512	0.00533	0.0107		mg/Kg-dry	1	04/06/17 10:27 PM
Benzo[a]anthracene	0.219	0.00533	0.0107		mg/Kg-dry	1	04/06/17 10:27 PM
Benzo[a]pyrene	0.270	0.00533	0.0107		mg/Kg-dry	1	04/06/17 10:27 PM
Benzo[b]fluoranthene	0.280	0.00533	0.0107		mg/Kg-dry	1	04/06/17 10:27 PM
Benzo[g,h,i]perylene	0.229	0.00533	0.0107		mg/Kg-dry	1	04/06/17 10:27 PM
Benzo[k]fluoranthene	0.137	0.00533	0.0107		mg/Kg-dry	1	04/06/17 10:27 PM
Chrysene	0.265	0.00533	0.0107		mg/Kg-dry	1	04/06/17 10:27 PM
Dibenz[a,h]anthracene	0.0393	0.00533	0.0107		mg/Kg-dry	1	04/06/17 10:27 PM
Fluoranthene	0.484	0.00533	0.0107		mg/Kg-dry	1	04/06/17 10:27 PM
Fluorene	0.0120	0.00533	0.0107		mg/Kg-dry	1	04/06/17 10:27 PM
Indeno[1,2,3-cd]pyrene	0.223	0.00533	0.0107		mg/Kg-dry	1	04/06/17 10:27 PM
Naphthalene	0.00779	0.00533	0.0107	J	mg/Kg-dry	1	04/06/17 10:27 PM
Phenanthrene	0.219	0.00533	0.0107		mg/Kg-dry	1	04/06/17 10:27 PM
Pyrene	0.390	0.00533	0.0107		mg/Kg-dry	1	04/06/17 10:27 PM
Surr: 2-Fluorobiphenyl	82.2	0	43-125		%REC	1	04/06/17 10:27 PM
Surr: 4-Terphenyl-d14	83.2	0	32-125		%REC	1	04/06/17 10:27 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	9.92	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB10-010
Project:	GLO - Galveston	**Lab ID:**	1703266-14
Project No:	60420789	**Collection Date:**	03/29/17 02:15 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	2.92	0.498	0.995		mg/Kg-dry	5	04/05/17 05:09 PM
Arsenic	15.0	0.498	0.995		mg/Kg-dry	5	04/05/17 05:09 PM
Barium	400	0.498	1.99		mg/Kg-dry	5	04/05/17 05:09 PM
Beryllium	0.398	0.0995	0.299		mg/Kg-dry	5	04/05/17 05:09 PM
Cadmium	3.77	0.0995	0.299		mg/Kg-dry	5	04/05/17 05:09 PM
Chromium	21.8	0.498	1.99		mg/Kg-dry	5	04/05/17 05:09 PM
Lead	116	0.0995	0.299		mg/Kg-dry	5	04/05/17 05:09 PM
Nickel	36.1	0.498	1.99		mg/Kg-dry	5	04/05/17 05:09 PM
Selenium	0.710	0.149	0.498		mg/Kg-dry	5	04/05/17 05:09 PM
Silver	0.579	0.0995	0.199		mg/Kg-dry	5	04/05/17 05:09 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.276	0.0131	0.0326		mg/Kg-dry	1	04/10/17 12:14 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0138	0.00488	0.00976		mg/Kg-dry	1	04/06/17 05:11 PM
Acenaphthylene	0.0319	0.00488	0.00976		mg/Kg-dry	1	04/06/17 05:11 PM
Anthracene	0.0653	0.00488	0.00976		mg/Kg-dry	1	04/06/17 05:11 PM
Benzo[a]anthracene	0.228	0.00488	0.00976		mg/Kg-dry	1	04/06/17 05:11 PM
Benzo[a]pyrene	0.265	0.00488	0.00976		mg/Kg-dry	1	04/06/17 05:11 PM
Benzo[b]fluoranthene	0.271	0.00488	0.00976		mg/Kg-dry	1	04/06/17 05:11 PM
Benzo[g,h,i]perylene	0.235	0.00488	0.00976		mg/Kg-dry	1	04/06/17 05:11 PM
Benzo[k]fluoranthene	0.142	0.00488	0.00976		mg/Kg-dry	1	04/06/17 05:11 PM
Chrysene	0.274	0.00488	0.00976		mg/Kg-dry	1	04/06/17 05:11 PM
Dibenz[a,h]anthracene	0.0405	0.00488	0.00976		mg/Kg-dry	1	04/06/17 05:11 PM
Fluoranthene	0.514	0.00488	0.00976		mg/Kg-dry	1	04/06/17 05:11 PM
Fluorene	0.0118	0.00488	0.00976		mg/Kg-dry	1	04/06/17 05:11 PM
Indeno[1,2,3-cd]pyrene	0.231	0.00488	0.00976		mg/Kg-dry	1	04/06/17 05:11 PM
Naphthalene	0.00688	0.00488	0.00976	J	mg/Kg-dry	1	04/06/17 05:11 PM
Phenanthrene	0.251	0.00488	0.00976		mg/Kg-dry	1	04/06/17 05:11 PM
Pyrene	0.430	0.00488	0.00976		mg/Kg-dry	1	04/06/17 05:11 PM
Surr: 2-Fluorobiphenyl	82.1	0	43-125		%REC	1	04/06/17 05:11 PM
Surr: 4-Terphenyl-d14	84.9	0	32-125		%REC	1	04/06/17 05:11 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	5.31	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB15-010
Project:	GLO - Galveston	**Lab ID:**	1703266-15
Project No:	60420789	**Collection Date:**	03/29/17 02:25 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	5.18	0.426	0.852		mg/Kg-dry	5	04/05/17 05:11 PM
Arsenic	53.3	0.426	0.852		mg/Kg-dry	5	04/05/17 05:11 PM
Barium	3040	4.26	17.0		mg/Kg-dry	50	04/06/17 05:08 PM
Beryllium	3.78	0.0852	0.256		mg/Kg-dry	5	04/05/17 05:11 PM
Cadmium	1.63	0.0852	0.256		mg/Kg-dry	5	04/05/17 05:11 PM
Chromium	82.5	0.426	1.70		mg/Kg-dry	5	04/05/17 05:11 PM
Lead	112	0.0852	0.256		mg/Kg-dry	5	04/05/17 05:11 PM
Nickel	43.9	0.426	1.70		mg/Kg-dry	5	04/05/17 05:11 PM
Selenium	4.15	0.128	0.426		mg/Kg-dry	5	04/05/17 05:11 PM
Silver	0.177	0.0852	0.170		mg/Kg-dry	5	04/05/17 05:11 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	<0.0165	0.0165	0.0413		mg/Kg-dry	1	04/10/17 12:17 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0505	0.00507	0.0101		mg/Kg-dry	1	04/06/17 05:42 PM
Acenaphthylene	0.0385	0.00507	0.0101		mg/Kg-dry	1	04/06/17 05:42 PM
Anthracene	0.0939	0.00507	0.0101		mg/Kg-dry	1	04/06/17 05:42 PM
Benzo[a]anthracene	0.382	0.00507	0.0101		mg/Kg-dry	1	04/06/17 05:42 PM
Benzo[a]pyrene	0.425	0.00507	0.0101		mg/Kg-dry	1	04/06/17 05:42 PM
Benzo[b]fluoranthene	0.464	0.00507	0.0101		mg/Kg-dry	1	04/06/17 05:42 PM
Benzo[g,h,i]perylene	0.362	0.00507	0.0101		mg/Kg-dry	1	04/06/17 05:42 PM
Benzo[k]fluoranthene	0.218	0.00507	0.0101		mg/Kg-dry	1	04/06/17 05:42 PM
Chrysene	0.456	0.00507	0.0101		mg/Kg-dry	1	04/06/17 05:42 PM
Dibenz[a,h]anthracene	0.0632	0.00507	0.0101		mg/Kg-dry	1	04/06/17 05:42 PM
Fluoranthene	1.04	0.00507	0.0101		mg/Kg-dry	1	04/06/17 05:42 PM
Fluorene	0.0309	0.00507	0.0101		mg/Kg-dry	1	04/06/17 05:42 PM
Indeno[1,2,3-cd]pyrene	0.370	0.00507	0.0101		mg/Kg-dry	1	04/06/17 05:42 PM
Naphthalene	0.00647	0.00507	0.0101	J	mg/Kg-dry	1	04/06/17 05:42 PM
Phenanthrene	0.593	0.00507	0.0101		mg/Kg-dry	1	04/06/17 05:42 PM
Pyrene	0.802	0.00507	0.0101		mg/Kg-dry	1	04/06/17 05:42 PM
Surr: 2-Fluorobiphenyl	88.2	0	43-125		%REC	1	04/06/17 05:42 PM
Surr: 4-Terphenyl-d14	94.1	0	32-125		%REC	1	04/06/17 05:42 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	3.80	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB08-010
Project:	GLO - Galveston	**Lab ID:**	1703266-16
Project No:	60420789	**Collection Date:**	03/29/17 02:45 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	1.23	0.608	1.22		mg/Kg-dry	5	04/05/17 05:13 PM
Arsenic	7.71	0.608	1.22		mg/Kg-dry	5	04/05/17 05:13 PM
Barium	434	0.608	2.43		mg/Kg-dry	5	04/05/17 05:13 PM
Beryllium	0.394	0.122	0.365		mg/Kg-dry	5	04/05/17 05:13 PM
Cadmium	3.95	0.122	0.365		mg/Kg-dry	5	04/05/17 05:13 PM
Chromium	26.1	0.608	2.43		mg/Kg-dry	5	04/05/17 05:13 PM
Lead	219	0.122	0.365		mg/Kg-dry	5	04/05/17 05:13 PM
Nickel	16.9	0.608	2.43		mg/Kg-dry	5	04/05/17 05:13 PM
Selenium	1.25	0.182	0.608		mg/Kg-dry	5	04/05/17 05:13 PM
Silver	0.374	0.122	0.243		mg/Kg-dry	5	04/05/17 05:13 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.166	0.0162	0.0405		mg/Kg-dry	1	04/10/17 12:19 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.117	0.00591	0.0118		mg/Kg-dry	1	04/06/17 11:31 PM
Acenaphthylene	0.263	0.00591	0.0118		mg/Kg-dry	1	04/06/17 11:31 PM
Anthracene	0.490	0.00591	0.0118		mg/Kg-dry	1	04/06/17 11:31 PM
Benzo[a]anthracene	1.58	0.00591	0.0118		mg/Kg-dry	1	04/06/17 11:31 PM
Benzo[a]pyrene	1.67	0.00591	0.0118		mg/Kg-dry	1	04/06/17 11:31 PM
Benzo[b]fluoranthene	1.71	0.00591	0.0118		mg/Kg-dry	1	04/06/17 11:31 PM
Benzo[g,h,i]perylene	1.22	0.00591	0.0118		mg/Kg-dry	1	04/06/17 11:31 PM
Benzo[k]fluoranthene	0.881	0.00591	0.0118		mg/Kg-dry	1	04/06/17 11:31 PM
Chrysene	1.57	0.00591	0.0118		mg/Kg-dry	1	04/06/17 11:31 PM
Dibenz[a,h]anthracene	0.239	0.00591	0.0118		mg/Kg-dry	1	04/06/17 11:31 PM
Fluoranthene	3.23	0.00591	0.0118		mg/Kg-dry	1	04/06/17 11:31 PM
Fluorene	0.116	0.00591	0.0118		mg/Kg-dry	1	04/06/17 11:31 PM
Indeno[1,2,3-cd]pyrene	1.24	0.00591	0.0118		mg/Kg-dry	1	04/06/17 11:31 PM
Naphthalene	0.0421	0.00591	0.0118		mg/Kg-dry	1	04/06/17 11:31 PM
Phenanthrene	1.80	0.00591	0.0118		mg/Kg-dry	1	04/06/17 11:31 PM
Pyrene	2.62	0.00591	0.0118		mg/Kg-dry	1	04/06/17 11:31 PM
Surr: 2-Fluorobiphenyl	79.5	0	43-125		%REC	1	04/06/17 11:31 PM
Surr: 4-Terphenyl-d14	83.8	0	32-125		%REC	1	04/06/17 11:31 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	19.4	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB03-010
Project:	GLO - Galveston	**Lab ID:**	1703266-17
Project No:	60420789	**Collection Date:**	03/29/17 02:59 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	1.99	0.511	1.02		mg/Kg-dry	5	04/05/17 05:14 PM
Arsenic	21.1	0.511	1.02		mg/Kg-dry	5	04/05/17 05:14 PM
Barium	248	0.511	2.04		mg/Kg-dry	5	04/05/17 05:14 PM
Beryllium	0.372	0.102	0.307		mg/Kg-dry	5	04/05/17 05:14 PM
Cadmium	0.671	0.102	0.307		mg/Kg-dry	5	04/05/17 05:14 PM
Chromium	13.9	0.511	2.04		mg/Kg-dry	5	04/05/17 05:14 PM
Lead	229	0.102	0.307		mg/Kg-dry	5	04/05/17 05:14 PM
Nickel	8.90	0.511	2.04		mg/Kg-dry	5	04/05/17 05:14 PM
Selenium	1.22	0.153	0.511		mg/Kg-dry	5	04/05/17 05:14 PM
Silver	0.204	0.102	0.204	J	mg/Kg-dry	5	04/05/17 05:14 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.256	0.0146	0.0364		mg/Kg-dry	1	04/10/17 12:21 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0408	0.00561	0.0112		mg/Kg-dry	1	04/12/17 12:55 PM
Acenaphthylene	0.105	0.00561	0.0112		mg/Kg-dry	1	04/12/17 12:55 PM
Anthracene	0.177	0.00561	0.0112		mg/Kg-dry	1	04/12/17 12:55 PM
Benzo[a]anthracene	0.635	0.00561	0.0112		mg/Kg-dry	1	04/12/17 12:55 PM
Benzo[a]pyrene	0.802	0.00561	0.0112		mg/Kg-dry	1	04/12/17 12:55 PM
Benzo[b]fluoranthene	0.745	0.00561	0.0112		mg/Kg-dry	1	04/12/17 12:55 PM
Benzo[g,h,i]perylene	0.543	0.00561	0.0112		mg/Kg-dry	1	04/12/17 12:55 PM
Benzo[k]fluoranthene	0.404	0.00561	0.0112		mg/Kg-dry	1	04/12/17 12:55 PM
Chrysene	0.687	0.00561	0.0112		mg/Kg-dry	1	04/12/17 12:55 PM
Dibenz[a,h]anthracene	0.111	0.00561	0.0112		mg/Kg-dry	1	04/12/17 12:55 PM
Fluoranthene	1.36	0.00561	0.0112		mg/Kg-dry	1	04/12/17 12:55 PM
Fluorene	0.0417	0.00561	0.0112		mg/Kg-dry	1	04/12/17 12:55 PM
Indeno[1,2,3-cd]pyrene	0.625	0.00561	0.0112		mg/Kg-dry	1	04/12/17 12:55 PM
Naphthalene	0.0150	0.00561	0.0112		mg/Kg-dry	1	04/12/17 12:55 PM
Phenanthrene	0.614	0.00561	0.0112		mg/Kg-dry	1	04/12/17 12:55 PM
Pyrene	1.13	0.00561	0.0112		mg/Kg-dry	1	04/12/17 12:55 PM
Surr: 2-Fluorobiphenyl	102	0	43-125		%REC	1	04/12/17 12:55 PM
Surr: 4-Terphenyl-d14	114	0	32-125		%REC	1	04/12/17 12:55 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	12.2	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB11-010
Project:	GLO - Galveston	**Lab ID:**	1703266-18
Project No:	60420789	**Collection Date:**	03/29/17 03:15 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	2.69	0.507	1.01		mg/Kg-dry	5	04/05/17 05:16 PM
Arsenic	4.91	0.507	1.01		mg/Kg-dry	5	04/05/17 05:16 PM
Barium	157	0.507	2.03		mg/Kg-dry	5	04/05/17 05:16 PM
Beryllium	0.247	0.101	0.304	J	mg/Kg-dry	5	04/05/17 05:16 PM
Cadmium	0.323	0.101	0.304		mg/Kg-dry	5	04/05/17 05:16 PM
Chromium	9.02	0.507	2.03		mg/Kg-dry	5	04/05/17 05:16 PM
Lead	158	0.101	0.304		mg/Kg-dry	5	04/05/17 05:16 PM
Nickel	5.86	0.507	2.03		mg/Kg-dry	5	04/05/17 05:16 PM
Selenium	1.02	0.152	0.507		mg/Kg-dry	5	04/05/17 05:16 PM
Silver	0.140	0.101	0.203	J	mg/Kg-dry	5	04/05/17 05:16 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.334	0.0145	0.0363		mg/Kg-dry	1	04/10/17 12:23 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0591	0.00500	0.00999		mg/Kg-dry	1	04/12/17 11:56 AM
Acenaphthylene	0.108	0.00500	0.00999		mg/Kg-dry	1	04/12/17 11:56 AM
Anthracene	0.251	0.00500	0.00999		mg/Kg-dry	1	04/12/17 11:56 AM
Benzo[a]anthracene	0.887	0.00500	0.00999		mg/Kg-dry	1	04/12/17 11:56 AM
Benzo[a]pyrene	0.989	0.00500	0.00999		mg/Kg-dry	1	04/12/17 11:56 AM
Benzo[b]fluoranthene	0.965	0.00500	0.00999		mg/Kg-dry	1	04/12/17 11:56 AM
Benzo[g,h,i]perylene	0.694	0.00500	0.00999		mg/Kg-dry	1	04/12/17 11:56 AM
Benzo[k]fluoranthene	0.520	0.00500	0.00999		mg/Kg-dry	1	04/12/17 11:56 AM
Chrysene	0.972	0.00500	0.00999		mg/Kg-dry	1	04/12/17 11:56 AM
Dibenz[a,h]anthracene	0.143	0.00500	0.00999		mg/Kg-dry	1	04/12/17 11:56 AM
Fluoranthene	1.99	0.00500	0.00999		mg/Kg-dry	1	04/12/17 11:56 AM
Fluorene	0.0642	0.00500	0.00999		mg/Kg-dry	1	04/12/17 11:56 AM
Indeno[1,2,3-cd]pyrene	0.847	0.00500	0.00999		mg/Kg-dry	1	04/12/17 11:56 AM
Naphthalene	0.0165	0.00500	0.00999		mg/Kg-dry	1	04/12/17 11:56 AM
Phenanthrene	0.914	0.00500	0.00999		mg/Kg-dry	1	04/12/17 11:56 AM
Pyrene	1.67	0.00500	0.00999		mg/Kg-dry	1	04/12/17 11:56 AM
Surr: 2-Fluorobiphenyl	91.8	0	43-125		%REC	1	04/12/17 11:56 AM
Surr: 4-Terphenyl-d14	93.8	0	32-125		%REC	1	04/12/17 11:56 AM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	4.67	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB13-010
Project:	GLO - Galveston	**Lab ID:**	1703266-19
Project No:	60420789	**Collection Date:**	03/29/17 03:30 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	1.19	0.562	1.12		mg/Kg-dry	5	04/05/17 05:18 PM
Arsenic	7.09	0.562	1.12		mg/Kg-dry	5	04/05/17 05:18 PM
Barium	328	0.562	2.25		mg/Kg-dry	5	04/05/17 05:18 PM
Beryllium	0.284	0.112	0.337	J	mg/Kg-dry	5	04/05/17 05:18 PM
Cadmium	0.737	0.112	0.337		mg/Kg-dry	5	04/05/17 05:18 PM
Chromium	12.4	0.562	2.25		mg/Kg-dry	5	04/05/17 05:18 PM
Lead	664	0.562	1.69		mg/Kg-dry	25	04/06/17 05:10 PM
Nickel	6.87	0.562	2.25		mg/Kg-dry	5	04/05/17 05:18 PM
Selenium	1.12	0.169	0.562		mg/Kg-dry	5	04/05/17 05:18 PM
Silver	0.305	0.112	0.225		mg/Kg-dry	5	04/05/17 05:18 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.965	0.170	0.425		mg/Kg-dry	10	04/10/17 01:46 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	<0.00565	0.00565	0.0113		mg/Kg-dry	1	04/12/17 10:56 AM
Acenaphthylene	0.0321	0.00565	0.0113		mg/Kg-dry	1	04/12/17 10:56 AM
Anthracene	0.0396	0.00565	0.0113		mg/Kg-dry	1	04/12/17 10:56 AM
Benzo[a]anthracene	0.150	0.00565	0.0113		mg/Kg-dry	1	04/12/17 10:56 AM
Benzo[a]pyrene	0.164	0.00565	0.0113		mg/Kg-dry	1	04/12/17 10:56 AM
Benzo[b]fluoranthene	0.159	0.00565	0.0113		mg/Kg-dry	1	04/12/17 10:56 AM
Benzo[g,h,i]perylene	0.126	0.00565	0.0113		mg/Kg-dry	1	04/12/17 10:56 AM
Benzo[k]fluoranthene	0.0914	0.00565	0.0113		mg/Kg-dry	1	04/12/17 10:56 AM
Chrysene	0.169	0.00565	0.0113		mg/Kg-dry	1	04/12/17 10:56 AM
Dibenz[a,h]anthracene	0.0230	0.00565	0.0113		mg/Kg-dry	1	04/12/17 10:56 AM
Fluoranthene	0.345	0.00565	0.0113		mg/Kg-dry	1	04/12/17 10:56 AM
Fluorene	<0.00565	0.00565	0.0113		mg/Kg-dry	1	04/12/17 10:56 AM
Indeno[1,2,3-cd]pyrene	0.148	0.00565	0.0113		mg/Kg-dry	1	04/12/17 10:56 AM
Naphthalene	<0.00565	0.00565	0.0113		mg/Kg-dry	1	04/12/17 10:56 AM
Phenanthrene	0.120	0.00565	0.0113		mg/Kg-dry	1	04/12/17 10:56 AM
Pyrene	0.310	0.00565	0.0113		mg/Kg-dry	1	04/12/17 10:56 AM
Surr: 2-Fluorobiphenyl	96.2	0	43-125		%REC	1	04/12/17 10:56 AM
Surr: 4-Terphenyl-d14	98.9	0	32-125		%REC	1	04/12/17 10:56 AM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	15.3	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB04-013
Project:	GLO - Galveston	**Lab ID:**	1703266-20
Project No:	60420789	**Collection Date:**	03/29/17 03:45 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	1.07	0.464	0.928		mg/Kg-dry	5	04/05/17 04:30 PM
Arsenic	7.51	0.464	0.928		mg/Kg-dry	5	04/05/17 04:30 PM
Barium	251	0.464	1.86		mg/Kg-dry	5	04/05/17 04:30 PM
Beryllium	0.260	0.0928	0.278	J	mg/Kg-dry	5	04/05/17 04:30 PM
Cadmium	0.712	0.0928	0.278		mg/Kg-dry	5	04/05/17 04:30 PM
Chromium	11.0	0.464	1.86		mg/Kg-dry	5	04/05/17 04:30 PM
Lead	613	0.464	1.39		mg/Kg-dry	25	04/06/17 05:05 PM
Nickel	6.64	0.464	1.86		mg/Kg-dry	5	04/05/17 04:30 PM
Selenium	1.07	0.139	0.464		mg/Kg-dry	5	04/05/17 04:30 PM
Silver	0.302	0.0928	0.186		mg/Kg-dry	5	04/05/17 04:30 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	1.75	0.325	0.814		mg/Kg-dry	20	04/10/17 01:48 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0336	0.00543	0.0109		mg/Kg-dry	1	04/12/17 11:26 AM
Acenaphthylene	0.188	0.00543	0.0109		mg/Kg-dry	1	04/12/17 11:26 AM
Anthracene	0.223	0.00543	0.0109		mg/Kg-dry	1	04/12/17 11:26 AM
Benzo[a]anthracene	0.734	0.00543	0.0109		mg/Kg-dry	1	04/12/17 11:26 AM
Benzo[a]pyrene	0.907	0.00543	0.0109		mg/Kg-dry	1	04/12/17 11:26 AM
Benzo[b]fluoranthene	0.776	0.00543	0.0109		mg/Kg-dry	1	04/12/17 11:26 AM
Benzo[g,h,i]perylene	0.629	0.00543	0.0109		mg/Kg-dry	1	04/12/17 11:26 AM
Benzo[k]fluoranthene	0.436	0.00543	0.0109		mg/Kg-dry	1	04/12/17 11:26 AM
Chrysene	0.752	0.00543	0.0109		mg/Kg-dry	1	04/12/17 11:26 AM
Dibenz[a,h]anthracene	0.110	0.00543	0.0109		mg/Kg-dry	1	04/12/17 11:26 AM
Fluoranthene	1.72	0.00543	0.0109		mg/Kg-dry	1	04/12/17 11:26 AM
Fluorene	0.0482	0.00543	0.0109		mg/Kg-dry	1	04/12/17 11:26 AM
Indeno[1,2,3-cd]pyrene	0.755	0.00543	0.0109		mg/Kg-dry	1	04/12/17 11:26 AM
Naphthalene	0.0163	0.00543	0.0109		mg/Kg-dry	1	04/12/17 11:26 AM
Phenanthrene	0.716	0.00543	0.0109		mg/Kg-dry	1	04/12/17 11:26 AM
Pyrene	1.60	0.00543	0.0109		mg/Kg-dry	1	04/12/17 11:26 AM
Surr: 2-Fluorobiphenyl	96.0	0	43-125		%REC	1	04/12/17 11:26 AM
Surr: 4-Terphenyl-d14	97.2	0	32-125		%REC	1	04/12/17 11:26 AM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	10.7	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB09-010
Project:	GLO - Galveston	**Lab ID:**	1703266-21
Project No:	60420789	**Collection Date:**	03/29/17 04:00 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	0.729	0.594	1.19	J	mg/Kg-dry	5	04/05/17 11:58 AM
Arsenic	5.70	0.594	1.19		mg/Kg-dry	5	04/05/17 11:58 AM
Barium	198	0.594	2.38		mg/Kg-dry	5	04/05/17 11:58 AM
Beryllium	0.214	0.119	0.356	J	mg/Kg-dry	5	04/05/17 11:58 AM
Cadmium	0.557	0.119	0.356		mg/Kg-dry	5	04/05/17 11:58 AM
Chromium	10.1	0.594	2.38		mg/Kg-dry	5	04/05/17 11:58 AM
Lead	476	0.119	0.356		mg/Kg-dry	5	04/05/17 11:58 AM
Nickel	4.96	0.594	2.38		mg/Kg-dry	5	04/05/17 11:58 AM
Selenium	0.749	0.178	0.594		mg/Kg-dry	5	04/05/17 11:58 AM
Silver	0.241	0.119	0.238		mg/Kg-dry	5	04/05/17 11:58 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	1.47	0.140	0.351		mg/Kg-dry	10	04/05/17 03:55 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.143	0.00575	0.0115		mg/Kg-dry	1	04/05/17 02:34 PM
Acenaphthylene	0.651	0.00575	0.0115		mg/Kg-dry	1	04/05/17 02:34 PM
Anthracene	0.911	0.00575	0.0115		mg/Kg-dry	1	04/05/17 02:34 PM
Benzo[a]anthracene	3.64	0.00575	0.0115		mg/Kg-dry	1	04/05/17 02:34 PM
Benzo[a]pyrene	4.35	0.00575	0.0115		mg/Kg-dry	1	04/05/17 02:34 PM
Benzo[b]fluoranthene	3.53	0.00575	0.0115		mg/Kg-dry	1	04/05/17 02:34 PM
Benzo[g,h,i]perylene	2.61	0.00575	0.0115		mg/Kg-dry	1	04/05/17 02:34 PM
Benzo[k]fluoranthene	1.92	0.00575	0.0115		mg/Kg-dry	1	04/05/17 02:34 PM
Chrysene	3.50	0.00575	0.0115		mg/Kg-dry	1	04/05/17 02:34 PM
Dibenz[a,h]anthracene	0.472	0.00575	0.0115		mg/Kg-dry	1	04/05/17 02:34 PM
Fluoranthene	5.95	0.0287	0.0575		mg/Kg-dry	5	04/06/17 02:10 PM
Fluorene	0.236	0.00575	0.0115		mg/Kg-dry	1	04/05/17 02:34 PM
Indeno[1,2,3-cd]pyrene	3.25	0.00575	0.0115		mg/Kg-dry	1	04/05/17 02:34 PM
Naphthalene	0.0333	0.00575	0.0115		mg/Kg-dry	1	04/05/17 02:34 PM
Phenanthrene	2.60	0.00575	0.0115		mg/Kg-dry	1	04/05/17 02:34 PM
Pyrene	5.69	0.0287	0.0575		mg/Kg-dry	5	04/06/17 02:10 PM
Surr: 2-Fluorobiphenyl	71.1	0	43-125		%REC	5	04/06/17 02:10 PM
Surr: 2-Fluorobiphenyl	98.6	0	43-125		%REC	1	04/05/17 02:34 PM
Surr: 4-Terphenyl-d14	71.9	0	32-125		%REC	5	04/06/17 02:10 PM
Surr: 4-Terphenyl-d14	94.8	0	32-125		%REC	1	04/05/17 02:34 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	16.0	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB09-011
Project:	GLO - Galveston	**Lab ID:**	1703266-22
Project No:	60420789	**Collection Date:**	03/29/17 04:00 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	0.575	0.534	1.07	J	mg/Kg-dry	5	04/05/17 12:00 PM
Arsenic	5.01	0.534	1.07		mg/Kg-dry	5	04/05/17 12:00 PM
Barium	166	0.534	2.13		mg/Kg-dry	5	04/05/17 12:00 PM
Beryllium	0.239	0.107	0.320	J	mg/Kg-dry	5	04/05/17 12:00 PM
Cadmium	0.461	0.107	0.320		mg/Kg-dry	5	04/05/17 12:00 PM
Chromium	10.9	0.534	2.13		mg/Kg-dry	5	04/05/17 12:00 PM
Lead	438	0.107	0.320		mg/Kg-dry	5	04/05/17 12:00 PM
Nickel	4.99	0.534	2.13		mg/Kg-dry	5	04/05/17 12:00 PM
Selenium	0.745	0.160	0.534		mg/Kg-dry	5	04/05/17 12:00 PM
Silver	0.232	0.107	0.213		mg/Kg-dry	5	04/05/17 12:00 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	1.28	0.145	0.363		mg/Kg-dry	10	04/05/17 03:57 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0613	0.00505	0.0101		mg/Kg-dry	1	04/05/17 03:04 PM
Acenaphthylene	0.360	0.00505	0.0101		mg/Kg-dry	1	04/05/17 03:04 PM
Anthracene	0.384	0.00505	0.0101		mg/Kg-dry	1	04/05/17 03:04 PM
Benzo[a]anthracene	1.53	0.00505	0.0101		mg/Kg-dry	1	04/05/17 03:04 PM
Benzo[a]pyrene	1.95	0.00505	0.0101		mg/Kg-dry	1	04/05/17 03:04 PM
Benzo[b]fluoranthene	1.60	0.00505	0.0101		mg/Kg-dry	1	04/05/17 03:04 PM
Benzo[g,h,i]perylene	1.21	0.00505	0.0101		mg/Kg-dry	1	04/05/17 03:04 PM
Benzo[k]fluoranthene	0.867	0.00505	0.0101		mg/Kg-dry	1	04/05/17 03:04 PM
Chrysene	1.52	0.00505	0.0101		mg/Kg-dry	1	04/05/17 03:04 PM
Dibenz[a,h]anthracene	0.215	0.00505	0.0101		mg/Kg-dry	1	04/05/17 03:04 PM
Fluoranthene	3.35	0.00505	0.0101		mg/Kg-dry	1	04/05/17 03:04 PM
Fluorene	0.0839	0.00505	0.0101		mg/Kg-dry	1	04/05/17 03:04 PM
Indeno[1,2,3-cd]pyrene	1.49	0.00505	0.0101		mg/Kg-dry	1	04/05/17 03:04 PM
Naphthalene	0.0194	0.00505	0.0101		mg/Kg-dry	1	04/05/17 03:04 PM
Phenanthrene	1.17	0.00505	0.0101		mg/Kg-dry	1	04/05/17 03:04 PM
Pyrene	3.21	0.00505	0.0101		mg/Kg-dry	1	04/05/17 03:04 PM
Surr: 2-Fluorobiphenyl	81.4	0	43-125		%REC	1	04/05/17 03:04 PM
Surr: 4-Terphenyl-d14	82.8	0	32-125		%REC	1	04/05/17 03:04 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	9.21	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB09-015
Project:	GLO - Galveston	**Lab ID:**	1703266-23
Project No:	60420789	**Collection Date:**	03/29/17 05:30 PM
Lab Order:	1703266	**Matrix:**	EQUIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SP**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	04/06/17 01:12 PM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	04/06/17 01:12 PM
Barium	<0.00300	0.00300	0.0100		mg/L	1	04/06/17 01:12 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	04/06/17 01:12 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	04/06/17 01:12 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	04/06/17 01:12 PM
Lead	0.00120	0.000300	0.00100		mg/L	1	04/06/17 01:12 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	04/06/17 01:12 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	04/06/17 01:12 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	04/06/17 01:12 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **AH**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	04/04/17 02:16 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	<0.0000243	0.0000243	0.0000486		mg/L	1	04/06/17 11:07 AM
Acenaphthylene	<0.0000243	0.0000243	0.0000486		mg/L	1	04/06/17 11:07 AM
Anthracene	<0.0000243	0.0000243	0.0000486		mg/L	1	04/06/17 11:07 AM
Benzo[a]anthracene	<0.0000243	0.0000243	0.0000486		mg/L	1	04/06/17 11:07 AM
Benzo[a]pyrene	<0.0000243	0.0000243	0.0000486		mg/L	1	04/06/17 11:07 AM
Benzo[b]fluoranthene	<0.0000243	0.0000243	0.0000486		mg/L	1	04/06/17 11:07 AM
Benzo[g,h,i]perylene	<0.0000243	0.0000243	0.0000486		mg/L	1	04/06/17 11:07 AM
Benzo[k]fluoranthene	<0.0000243	0.0000243	0.0000486		mg/L	1	04/06/17 11:07 AM
Chrysene	<0.0000243	0.0000243	0.0000486		mg/L	1	04/06/17 11:07 AM
Dibenz[a,h]anthracene	<0.0000243	0.0000243	0.0000486		mg/L	1	04/06/17 11:07 AM
Fluoranthene	<0.0000243	0.0000243	0.0000486		mg/L	1	04/06/17 11:07 AM
Fluorene	<0.0000243	0.0000243	0.0000486		mg/L	1	04/06/17 11:07 AM
Indeno[1,2,3-cd]pyrene	<0.0000243	0.0000243	0.0000486		mg/L	1	04/06/17 11:07 AM
Naphthalene	<0.0000243	0.0000243	0.0000486		mg/L	1	04/06/17 11:07 AM
Phenanthrene	<0.0000243	0.0000243	0.0000486		mg/L	1	04/06/17 11:07 AM
Pyrene	<0.0000243	0.0000243	0.0000486		mg/L	1	04/06/17 11:07 AM
Surr: 2-Fluorobiphenyl	58.2	0	48-120		%REC	1	04/06/17 11:07 AM
Surr: 4-Terphenyl-d14	70.7	0	51-135		%REC	1	04/06/17 11:07 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB14-010
Project:	GLO - Galveston	**Lab ID:**	1703266-24
Project No:	60420789	**Collection Date:**	03/29/17 06:00 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	0.546	0.376	0.753	J	mg/Kg-dry	5	04/05/17 12:02 PM
Arsenic	4.24	0.376	0.753		mg/Kg-dry	5	04/05/17 12:02 PM
Barium	4500	18.8	75.3		mg/Kg-dry	250	04/05/17 01:25 PM
Beryllium	1.54	0.0753	0.226		mg/Kg-dry	5	04/05/17 12:02 PM
Cadmium	0.691	0.0753	0.226		mg/Kg-dry	5	04/05/17 12:02 PM
Chromium	35.0	0.376	1.51		mg/Kg-dry	5	04/05/17 12:02 PM
Lead	199	0.0753	0.226		mg/Kg-dry	5	04/05/17 12:02 PM
Nickel	22.7	0.376	1.51		mg/Kg-dry	5	04/05/17 12:02 PM
Selenium	1.46	0.113	0.376		mg/Kg-dry	5	04/05/17 12:02 PM
Silver	0.284	0.0753	0.151		mg/Kg-dry	5	04/05/17 12:02 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0387	0.00914	0.0229		mg/Kg-dry	1	04/05/17 02:49 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.00913	0.00580	0.0116	J	mg/Kg-dry	1	04/05/17 02:04 PM
Acenaphthylene	0.0252	0.00580	0.0116		mg/Kg-dry	1	04/05/17 02:04 PM
Anthracene	0.0381	0.00580	0.0116		mg/Kg-dry	1	04/05/17 02:04 PM
Benzo[a]anthracene	0.126	0.00580	0.0116		mg/Kg-dry	1	04/05/17 02:04 PM
Benzo[a]pyrene	0.146	0.00580	0.0116		mg/Kg-dry	1	04/05/17 02:04 PM
Benzo[b]fluoranthene	0.138	0.00580	0.0116		mg/Kg-dry	1	04/05/17 02:04 PM
Benzo[g,h,i]perylene	0.126	0.00580	0.0116		mg/Kg-dry	1	04/05/17 02:04 PM
Benzo[k]fluoranthene	0.0810	0.00580	0.0116		mg/Kg-dry	1	04/05/17 02:04 PM
Chrysene	0.139	0.00580	0.0116		mg/Kg-dry	1	04/05/17 02:04 PM
Dibenz[a,h]anthracene	0.0177	0.00580	0.0116		mg/Kg-dry	1	04/05/17 02:04 PM
Fluoranthene	0.311	0.00580	0.0116		mg/Kg-dry	1	04/05/17 02:04 PM
Fluorene	0.00776	0.00580	0.0116	J	mg/Kg-dry	1	04/05/17 02:04 PM
Indeno[1,2,3-cd]pyrene	0.128	0.00580	0.0116		mg/Kg-dry	1	04/05/17 02:04 PM
Naphthalene	<0.00580	0.00580	0.0116		mg/Kg-dry	1	04/05/17 02:04 PM
Phenanthrene	0.149	0.00580	0.0116		mg/Kg-dry	1	04/05/17 02:04 PM
Pyrene	0.253	0.00580	0.0116		mg/Kg-dry	1	04/05/17 02:04 PM
Surr: 2-Fluorobiphenyl	84.8	0	43-125		%REC	1	04/05/17 02:04 PM
Surr: 4-Terphenyl-d14	88.3	0	32-125		%REC	1	04/05/17 02:04 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	19.6	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB22-010
Project:	GLO - Galveston	**Lab ID:**	1703266-25
Project No:	60420789	**Collection Date:**	03/29/17 06:20 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	3.41	0.497	0.994		mg/Kg-dry	5	04/05/17 12:03 PM
Arsenic	10.7	0.497	0.994		mg/Kg-dry	5	04/05/17 12:03 PM
Barium	158	0.497	1.99		mg/Kg-dry	5	04/05/17 12:03 PM
Beryllium	0.236	0.0994	0.298	J	mg/Kg-dry	5	04/05/17 12:03 PM
Cadmium	1.25	0.0994	0.298		mg/Kg-dry	5	04/05/17 12:03 PM
Chromium	126	0.497	1.99		mg/Kg-dry	5	04/05/17 12:03 PM
Lead	50.4	0.0994	0.298		mg/Kg-dry	5	04/05/17 12:03 PM
Nickel	174	0.497	1.99		mg/Kg-dry	5	04/05/17 12:03 PM
Selenium	0.244	0.149	0.497	J	mg/Kg-dry	5	04/05/17 12:03 PM
Silver	0.127	0.0994	0.199	J	mg/Kg-dry	5	04/05/17 12:03 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0498	0.0119	0.0297		mg/Kg-dry	1	04/05/17 02:51 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	<0.00554	0.00554	0.0111		mg/Kg-dry	1	04/05/17 01:34 PM
Acenaphthylene	0.00766	0.00554	0.0111	J	mg/Kg-dry	1	04/05/17 01:34 PM
Anthracene	0.0205	0.00554	0.0111		mg/Kg-dry	1	04/05/17 01:34 PM
Benzo[a]anthracene	0.151	0.00554	0.0111		mg/Kg-dry	1	04/05/17 01:34 PM
Benzo[a]pyrene	0.175	0.00554	0.0111		mg/Kg-dry	1	04/05/17 01:34 PM
Benzo[b]fluoranthene	0.177	0.00554	0.0111		mg/Kg-dry	1	04/05/17 01:34 PM
Benzo[g,h,i]perylene	0.159	0.00554	0.0111		mg/Kg-dry	1	04/05/17 01:34 PM
Benzo[k]fluoranthene	0.0930	0.00554	0.0111		mg/Kg-dry	1	04/05/17 01:34 PM
Chrysene	0.169	0.00554	0.0111		mg/Kg-dry	1	04/05/17 01:34 PM
Dibenz[a,h]anthracene	0.0192	0.00554	0.0111		mg/Kg-dry	1	04/05/17 01:34 PM
Fluoranthene	0.254	0.00554	0.0111		mg/Kg-dry	1	04/05/17 01:34 PM
Fluorene	<0.00554	0.00554	0.0111		mg/Kg-dry	1	04/05/17 01:34 PM
Indeno[1,2,3-cd]pyrene	0.156	0.00554	0.0111		mg/Kg-dry	1	04/05/17 01:34 PM
Naphthalene	<0.00554	0.00554	0.0111		mg/Kg-dry	1	04/05/17 01:34 PM
Phenanthrene	0.0669	0.00554	0.0111		mg/Kg-dry	1	04/05/17 01:34 PM
Pyrene	0.231	0.00554	0.0111		mg/Kg-dry	1	04/05/17 01:34 PM
Surr: 2-Fluorobiphenyl	98.8	0	43-125		%REC	1	04/05/17 01:34 PM
Surr: 4-Terphenyl-d14	98.4	0	32-125		%REC	1	04/05/17 01:34 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	14.4	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB21-010
Project:	GLO - Galveston	**Lab ID:**	1703266-26
Project No:	60420789	**Collection Date:**	03/29/17 06:35 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	0.694	0.468	0.936	J	mg/Kg-dry	5	04/05/17 12:05 PM
Arsenic	4.40	0.468	0.936		mg/Kg-dry	5	04/05/17 12:05 PM
Barium	345	0.468	1.87		mg/Kg-dry	5	04/05/17 12:05 PM
Beryllium	0.185	0.0936	0.281	J	mg/Kg-dry	5	04/05/17 12:05 PM
Cadmium	1.61	0.0936	0.281		mg/Kg-dry	5	04/05/17 12:05 PM
Chromium	12.1	0.468	1.87		mg/Kg-dry	5	04/05/17 12:05 PM
Lead	89.8	0.0936	0.281		mg/Kg-dry	5	04/05/17 12:05 PM
Nickel	7.52	0.468	1.87		mg/Kg-dry	5	04/05/17 12:05 PM
Selenium	0.460	0.140	0.468	J	mg/Kg-dry	5	04/05/17 12:05 PM
Silver	<0.0936	0.0936	0.187		mg/Kg-dry	5	04/05/17 12:05 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.176	0.0149	0.0372		mg/Kg-dry	1	04/05/17 02:54 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.160	0.00514	0.0103		mg/Kg-dry	1	04/05/17 03:34 PM
Acenaphthylene	0.145	0.00514	0.0103		mg/Kg-dry	1	04/05/17 03:34 PM
Anthracene	0.495	0.00514	0.0103		mg/Kg-dry	1	04/05/17 03:34 PM
Benzo[a]anthracene	1.05	0.00514	0.0103		mg/Kg-dry	1	04/05/17 03:34 PM
Benzo[a]pyrene	1.06	0.00514	0.0103		mg/Kg-dry	1	04/05/17 03:34 PM
Benzo[b]fluoranthene	1.01	0.00514	0.0103		mg/Kg-dry	1	04/05/17 03:34 PM
Benzo[g,h,i]perylene	0.613	0.00514	0.0103		mg/Kg-dry	1	04/05/17 03:34 PM
Benzo[k]fluoranthene	0.579	0.00514	0.0103		mg/Kg-dry	1	04/05/17 03:34 PM
Chrysene	1.09	0.00514	0.0103		mg/Kg-dry	1	04/05/17 03:34 PM
Dibenz[a,h]anthracene	0.146	0.00514	0.0103		mg/Kg-dry	1	04/05/17 03:34 PM
Fluoranthene	2.59	0.00514	0.0103		mg/Kg-dry	1	04/05/17 03:34 PM
Fluorene	0.151	0.00514	0.0103		mg/Kg-dry	1	04/05/17 03:34 PM
Indeno[1,2,3-cd]pyrene	0.778	0.00514	0.0103		mg/Kg-dry	1	04/05/17 03:34 PM
Naphthalene	0.0752	0.00514	0.0103		mg/Kg-dry	1	04/05/17 03:34 PM
Phenanthrene	2.18	0.00514	0.0103		mg/Kg-dry	1	04/05/17 03:34 PM
Pyrene	2.15	0.00514	0.0103		mg/Kg-dry	1	04/05/17 03:34 PM
Surr: 2-Fluorobiphenyl	102	0	43-125		%REC	1	04/05/17 03:34 PM
Surr: 4-Terphenyl-d14	106	0	32-125		%REC	1	04/05/17 03:34 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	4.23	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB23-010
Project:	GLO - Galveston	**Lab ID:**	1703266-27
Project No:	60420789	**Collection Date:**	03/29/17 06:50 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	2.60	0.499	0.998		mg/Kg-dry	5	04/05/17 12:07 PM
Arsenic	5.54	0.499	0.998		mg/Kg-dry	5	04/05/17 12:07 PM
Barium	211	0.499	2.00		mg/Kg-dry	5	04/05/17 12:07 PM
Beryllium	0.334	0.0998	0.299		mg/Kg-dry	5	04/05/17 12:07 PM
Cadmium	1.41	0.0998	0.299		mg/Kg-dry	5	04/05/17 12:07 PM
Chromium	368	0.499	2.00		mg/Kg-dry	5	04/05/17 12:07 PM
Lead	319	0.0998	0.299		mg/Kg-dry	5	04/05/17 12:07 PM
Nickel	166	0.499	2.00		mg/Kg-dry	5	04/05/17 12:07 PM
Selenium	0.884	0.150	0.499		mg/Kg-dry	5	04/05/17 12:07 PM
Silver	0.286	0.0998	0.200		mg/Kg-dry	5	04/05/17 12:07 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0799	0.0163	0.0407		mg/Kg-dry	1	04/05/17 02:56 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	<0.00522	0.00522	0.0104		mg/Kg-dry	1	04/05/17 04:04 PM
Acenaphthylene	0.0376	0.00522	0.0104		mg/Kg-dry	1	04/05/17 04:04 PM
Anthracene	0.0382	0.00522	0.0104		mg/Kg-dry	1	04/05/17 04:04 PM
Benzo[a]anthracene	0.0634	0.00522	0.0104		mg/Kg-dry	1	04/05/17 04:04 PM
Benzo[a]pyrene	0.0742	0.00522	0.0104		mg/Kg-dry	1	04/05/17 04:04 PM
Benzo[b]fluoranthene	0.102	0.00522	0.0104		mg/Kg-dry	1	04/05/17 04:04 PM
Benzo[g,h,i]perylene	0.0926	0.00522	0.0104		mg/Kg-dry	1	04/05/17 04:04 PM
Benzo[k]fluoranthene	0.0522	0.00522	0.0104		mg/Kg-dry	1	04/05/17 04:04 PM
Chrysene	0.0873	0.00522	0.0104		mg/Kg-dry	1	04/05/17 04:04 PM
Dibenz[a,h]anthracene	0.0107	0.00522	0.0104		mg/Kg-dry	1	04/05/17 04:04 PM
Fluoranthene	0.162	0.00522	0.0104		mg/Kg-dry	1	04/05/17 04:04 PM
Fluorene	0.00616	0.00522	0.0104	J	mg/Kg-dry	1	04/05/17 04:04 PM
Indeno[1,2,3-cd]pyrene	0.0765	0.00522	0.0104		mg/Kg-dry	1	04/05/17 04:04 PM
Naphthalene	<0.00522	0.00522	0.0104		mg/Kg-dry	1	04/05/17 04:04 PM
Phenanthrene	0.0635	0.00522	0.0104		mg/Kg-dry	1	04/05/17 04:04 PM
Pyrene	0.147	0.00522	0.0104		mg/Kg-dry	1	04/05/17 04:04 PM
Surr: 2-Fluorobiphenyl	102	0	43-125		%REC	1	04/05/17 04:04 PM
Surr: 4-Terphenyl-d14	115	0	32-125		%REC	1	04/05/17 04:04 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	6.56	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB29-010
Project:	GLO - Galveston	**Lab ID:**	1703266-28
Project No:	60420789	**Collection Date:**	03/30/17 09:15 AM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	2.23	0.675	1.35		mg/Kg-dry	5	04/05/17 12:09 PM
Arsenic	6.83	0.675	1.35		mg/Kg-dry	5	04/05/17 12:09 PM
Barium	546	0.675	2.70		mg/Kg-dry	5	04/05/17 12:09 PM
Beryllium	0.326	0.135	0.405	J	mg/Kg-dry	5	04/05/17 12:09 PM
Cadmium	1.35	0.135	0.405		mg/Kg-dry	5	04/05/17 12:09 PM
Chromium	31.6	0.675	2.70		mg/Kg-dry	5	04/05/17 12:09 PM
Lead	307	0.135	0.405		mg/Kg-dry	5	04/05/17 12:09 PM
Nickel	16.8	0.675	2.70		mg/Kg-dry	5	04/05/17 12:09 PM
Selenium	0.968	0.203	0.675		mg/Kg-dry	5	04/05/17 12:09 PM
Silver	0.371	0.135	0.270		mg/Kg-dry	5	04/05/17 12:09 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.152	0.0219	0.0547		mg/Kg-dry	1	04/05/17 02:58 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.121	0.00701	0.0140		mg/Kg-dry	1	04/05/17 06:33 PM
Acenaphthylene	0.264	0.00701	0.0140		mg/Kg-dry	1	04/05/17 06:33 PM
Anthracene	0.645	0.00701	0.0140		mg/Kg-dry	1	04/05/17 06:33 PM
Benzo[a]anthracene	3.16	0.00701	0.0140		mg/Kg-dry	1	04/05/17 06:33 PM
Benzo[a]pyrene	4.25	0.00701	0.0140		mg/Kg-dry	1	04/05/17 06:33 PM
Benzo[b]fluoranthene	4.93	0.00701	0.0140		mg/Kg-dry	1	04/05/17 06:33 PM
Benzo[g,h,i]perylene	2.96	0.00701	0.0140		mg/Kg-dry	1	04/05/17 06:33 PM
Benzo[k]fluoranthene	2.52	0.00701	0.0140		mg/Kg-dry	1	04/05/17 06:33 PM
Chrysene	4.27	0.00701	0.0140		mg/Kg-dry	1	04/05/17 06:33 PM
Dibenz[a,h]anthracene	0.566	0.00701	0.0140		mg/Kg-dry	1	04/05/17 06:33 PM
Fluoranthene	7.15	0.0140	0.0281		mg/Kg-dry	2	04/06/17 04:09 PM
Fluorene	0.118	0.00701	0.0140		mg/Kg-dry	1	04/05/17 06:33 PM
Indeno[1,2,3-cd]pyrene	3.68	0.00701	0.0140		mg/Kg-dry	1	04/05/17 06:33 PM
Naphthalene	0.0283	0.00701	0.0140		mg/Kg-dry	1	04/05/17 06:33 PM
Phenanthrene	2.89	0.00701	0.0140		mg/Kg-dry	1	04/05/17 06:33 PM
Pyrene	6.10	0.0140	0.0281		mg/Kg-dry	2	04/06/17 04:09 PM
Surr: 2-Fluorobiphenyl	83.6	0	43-125		%REC	2	04/06/17 04:09 PM
Surr: 2-Fluorobiphenyl	96.1	0	43-125		%REC	1	04/05/17 06:33 PM
Surr: 4-Terphenyl-d14	81.0	0	32-125		%REC	2	04/06/17 04:09 PM
Surr: 4-Terphenyl-d14	95.6	0	32-125		%REC	1	04/05/17 06:33 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	30.6	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB34-010
Project:	GLO - Galveston	**Lab ID:**	1703266-29
Project No:	60420789	**Collection Date:**	03/30/17 09:40 AM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	9.36	1.03	2.05		mg/Kg-dry	5	04/05/17 12:11 PM
Arsenic	6.52	1.03	2.05		mg/Kg-dry	5	04/05/17 12:11 PM
Barium	446	1.03	4.11		mg/Kg-dry	5	04/05/17 12:11 PM
Beryllium	0.367	0.205	0.616	J	mg/Kg-dry	5	04/05/17 12:11 PM
Cadmium	1.79	0.205	0.616		mg/Kg-dry	5	04/05/17 12:11 PM
Chromium	29.3	1.03	4.11		mg/Kg-dry	5	04/05/17 12:11 PM
Lead	1920	1.03	3.08		mg/Kg-dry	25	04/05/17 01:27 PM
Nickel	22.3	1.03	4.11		mg/Kg-dry	5	04/05/17 12:11 PM
Selenium	1.08	0.308	1.03		mg/Kg-dry	5	04/05/17 12:11 PM
Silver	1.04	0.205	0.411		mg/Kg-dry	5	04/05/17 12:11 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.340	0.0254	0.0636		mg/Kg-dry	1	04/05/17 03:00 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.272	0.0103	0.0205		mg/Kg-dry	1	04/05/17 05:33 PM
Acenaphthylene	0.688	0.0103	0.0205		mg/Kg-dry	1	04/05/17 05:33 PM
Anthracene	1.31	0.0103	0.0205		mg/Kg-dry	1	04/05/17 05:33 PM
Benzo[a]anthracene	4.64	0.0103	0.0205		mg/Kg-dry	1	04/05/17 05:33 PM
Benzo[a]pyrene	5.63	0.0103	0.0205		mg/Kg-dry	1	04/05/17 05:33 PM
Benzo[b]fluoranthene	6.02	0.0103	0.0205		mg/Kg-dry	1	04/05/17 05:33 PM
Benzo[g,h,i]perylene	3.40	0.0103	0.0205		mg/Kg-dry	1	04/05/17 05:33 PM
Benzo[k]fluoranthene	3.05	0.0103	0.0205		mg/Kg-dry	1	04/05/17 05:33 PM
Chrysene	5.19	0.0103	0.0205		mg/Kg-dry	1	04/05/17 05:33 PM
Dibenz[a,h]anthracene	0.738	0.0103	0.0205		mg/Kg-dry	1	04/05/17 05:33 PM
Fluoranthene	9.44	0.0205	0.0410		mg/Kg-dry	2	04/06/17 04:39 PM
Fluorene	0.279	0.0103	0.0205		mg/Kg-dry	1	04/05/17 05:33 PM
Indeno[1,2,3-cd]pyrene	4.32	0.0103	0.0205		mg/Kg-dry	1	04/05/17 05:33 PM
Naphthalene	0.0566	0.0103	0.0205		mg/Kg-dry	1	04/05/17 05:33 PM
Phenanthrene	4.43	0.0103	0.0205		mg/Kg-dry	1	04/05/17 05:33 PM
Pyrene	8.59	0.0103	0.0205		mg/Kg-dry	1	04/05/17 05:33 PM
Surr: 2-Fluorobiphenyl	80.1	0	43-125		%REC	2	04/06/17 04:39 PM
Surr: 2-Fluorobiphenyl	92.0	0	43-125		%REC	1	04/05/17 05:33 PM
Surr: 4-Terphenyl-d14	82.2	0	32-125		%REC	2	04/06/17 04:39 PM
Surr: 4-Terphenyl-d14	94.4	0	32-125		%REC	1	04/05/17 05:33 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	53.9	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB32-010
Project:	GLO - Galveston	**Lab ID:**	1703266-30
Project No:	60420789	**Collection Date:**	03/30/17 10:00 AM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	<0.724	0.724	1.45		mg/Kg-dry	5	04/05/17 12:13 PM
Arsenic	4.21	0.724	1.45		mg/Kg-dry	5	04/05/17 12:13 PM
Barium	216	0.724	2.90		mg/Kg-dry	5	04/05/17 12:13 PM
Beryllium	0.269	0.145	0.434	J	mg/Kg-dry	5	04/05/17 12:13 PM
Cadmium	0.479	0.145	0.434		mg/Kg-dry	5	04/05/17 12:13 PM
Chromium	11.7	0.724	2.90		mg/Kg-dry	5	04/05/17 12:13 PM
Lead	96.0	0.145	0.434		mg/Kg-dry	5	04/05/17 12:13 PM
Nickel	8.59	0.724	2.90		mg/Kg-dry	5	04/05/17 12:13 PM
Selenium	0.789	0.217	0.724		mg/Kg-dry	5	04/05/17 12:13 PM
Silver	0.182	0.145	0.290	J	mg/Kg-dry	5	04/05/17 12:13 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0526	0.0247	0.0617	J	mg/Kg-dry	1	04/05/17 03:03 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.337	0.00726	0.0145		mg/Kg-dry	1	04/05/17 06:03 PM
Acenaphthylene	0.681	0.00726	0.0145		mg/Kg-dry	1	04/05/17 06:03 PM
Anthracene	1.58	0.00726	0.0145		mg/Kg-dry	1	04/05/17 06:03 PM
Benzo[a]anthracene	5.83	0.00726	0.0145		mg/Kg-dry	1	04/05/17 06:03 PM
Benzo[a]pyrene	6.55	0.00726	0.0145		mg/Kg-dry	1	04/05/17 06:03 PM
Benzo[b]fluoranthene	7.15	0.00726	0.0145		mg/Kg-dry	1	04/05/17 06:03 PM
Benzo[g,h,i]perylene	4.09	0.00726	0.0145		mg/Kg-dry	1	04/05/17 06:03 PM
Benzo[k]fluoranthene	3.88	0.00726	0.0145		mg/Kg-dry	1	04/05/17 06:03 PM
Chrysene	6.46	0.00726	0.0145		mg/Kg-dry	1	04/05/17 06:03 PM
Dibenz[a,h]anthracene	0.901	0.00726	0.0145		mg/Kg-dry	1	04/05/17 06:03 PM
Fluoranthene	11.4	0.0145	0.0290		mg/Kg-dry	2	04/06/17 05:08 PM
Fluorene	0.354	0.00726	0.0145		mg/Kg-dry	1	04/05/17 06:03 PM
Indeno[1,2,3-cd]pyrene	5.17	0.00726	0.0145		mg/Kg-dry	1	04/05/17 06:03 PM
Naphthalene	0.0511	0.00726	0.0145		mg/Kg-dry	1	04/05/17 06:03 PM
Phenanthrene	5.06	0.00726	0.0145		mg/Kg-dry	1	04/05/17 06:03 PM
Pyrene	9.14	0.0145	0.0290		mg/Kg-dry	2	04/06/17 05:08 PM
Surr: 2-Fluorobiphenyl	77.6	0	43-125		%REC	2	04/06/17 05:08 PM
Surr: 2-Fluorobiphenyl	85.3	0	43-125		%REC	1	04/05/17 06:03 PM
Surr: 4-Terphenyl-d14	78.4	0	32-125		%REC	2	04/06/17 05:08 PM
Surr: 4-Terphenyl-d14	87.3	0	32-125		%REC	1	04/05/17 06:03 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	35.4	0	0		WT%	1	04/06/17 08:43 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB32-020
Project:	GLO - Galveston	**Lab ID:**	1703266-31
Project No:	60420789	**Collection Date:**	03/30/17 10:20 AM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	<0.433	0.433	0.866		mg/Kg-dry	5	04/12/17 01:05 PM
Arsenic	1.49	0.433	0.866		mg/Kg-dry	5	04/12/17 01:05 PM
Barium	15.8	0.433	1.73		mg/Kg-dry	5	04/12/17 01:05 PM
Beryllium	<0.0866	0.0866	0.260		mg/Kg-dry	5	04/12/17 01:05 PM
Cadmium	<0.0866	0.0866	0.260		mg/Kg-dry	5	04/12/17 01:05 PM
Chromium	2.76	0.433	1.73		mg/Kg-dry	5	04/12/17 01:05 PM
Lead	11.5	0.0866	0.260		mg/Kg-dry	5	04/12/17 01:05 PM
Nickel	1.91	0.433	1.73		mg/Kg-dry	5	04/12/17 01:05 PM
Selenium	0.467	0.130	0.433		mg/Kg-dry	5	04/12/17 01:05 PM
Silver	<0.0866	0.0866	0.173		mg/Kg-dry	5	04/12/17 01:05 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	<0.0126	0.0126	0.0315		mg/Kg-dry	1	04/12/17 08:57 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	<0.00610	0.00610	0.0122		mg/Kg-dry	1	04/13/17 07:37 PM
Acenaphthylene	<0.00610	0.00610	0.0122		mg/Kg-dry	1	04/13/17 07:37 PM
Anthracene	0.0152	0.00610	0.0122		mg/Kg-dry	1	04/13/17 07:37 PM
Benzo[a]anthracene	0.0556	0.00610	0.0122		mg/Kg-dry	1	04/13/17 07:37 PM
Benzo[a]pyrene	0.0541	0.00610	0.0122		mg/Kg-dry	1	04/13/17 07:37 PM
Benzo[b]fluoranthene	0.0505	0.00610	0.0122		mg/Kg-dry	1	04/13/17 07:37 PM
Benzo[g,h,i]perylene	0.0401	0.00610	0.0122		mg/Kg-dry	1	04/13/17 07:37 PM
Benzo[k]fluoranthene	0.0290	0.00610	0.0122		mg/Kg-dry	1	04/13/17 07:37 PM
Chrysene	0.0514	0.00610	0.0122		mg/Kg-dry	1	04/13/17 07:37 PM
Dibenz[a,h]anthracene	0.00655	0.00610	0.0122	J	mg/Kg-dry	1	04/13/17 07:37 PM
Fluoranthene	0.127	0.00610	0.0122		mg/Kg-dry	1	04/13/17 07:37 PM
Fluorene	<0.00610	0.00610	0.0122		mg/Kg-dry	1	04/13/17 07:37 PM
Indeno[1,2,3-cd]pyrene	0.0387	0.00610	0.0122		mg/Kg-dry	1	04/13/17 07:37 PM
Naphthalene	<0.00610	0.00610	0.0122		mg/Kg-dry	1	04/13/17 07:37 PM
Phenanthrene	0.0546	0.00610	0.0122		mg/Kg-dry	1	04/13/17 07:37 PM
Pyrene	0.0975	0.00610	0.0122		mg/Kg-dry	1	04/13/17 07:37 PM
Surr: 2-Fluorobiphenyl	73.7	0	43-125		%REC	1	04/13/17 07:37 PM
Surr: 4-Terphenyl-d14	88.4	0	32-125		%REC	1	04/13/17 07:37 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	20.8	0	0		WT%	1	04/11/17 10:21 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB31-010
Project:	GLO - Galveston	**Lab ID:**	1703266-32
Project No:	60420789	**Collection Date:**	03/30/17 10:45 AM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	5.12	0.914	1.83		mg/Kg-dry	5	04/05/17 12:33 PM
Arsenic	16.4	0.914	1.83		mg/Kg-dry	5	04/05/17 12:33 PM
Barium	551	0.914	3.66		mg/Kg-dry	5	04/05/17 12:33 PM
Beryllium	0.289	0.183	0.548	J	mg/Kg-dry	5	04/05/17 12:33 PM
Cadmium	2.37	0.183	0.548		mg/Kg-dry	5	04/05/17 12:33 PM
Chromium	33.1	0.914	3.66		mg/Kg-dry	5	04/05/17 12:33 PM
Lead	520	0.183	0.548		mg/Kg-dry	5	04/05/17 12:33 PM
Nickel	18.6	0.914	3.66		mg/Kg-dry	5	04/05/17 12:33 PM
Selenium	0.963	0.274	0.914		mg/Kg-dry	5	04/05/17 12:33 PM
Silver	1.10	0.183	0.366		mg/Kg-dry	5	04/05/17 12:33 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.199	0.0274	0.0686		mg/Kg-dry	1	04/05/17 03:05 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	3.05	0.0898	0.180		mg/Kg-dry	10	04/06/17 03:10 PM
Acenaphthylene	5.18	0.0898	0.180		mg/Kg-dry	10	04/06/17 03:10 PM
Anthracene	13.1	0.0898	0.180		mg/Kg-dry	10	04/06/17 03:10 PM
Benzo[a]anthracene	42.5	0.0898	0.180		mg/Kg-dry	10	04/06/17 03:10 PM
Benzo[a]pyrene	45.4	0.0898	0.180		mg/Kg-dry	10	04/06/17 03:10 PM
Benzo[b]fluoranthene	47.0	0.0898	0.180		mg/Kg-dry	10	04/06/17 03:10 PM
Benzo[g,h,i]perylene	33.1	0.0898	0.180		mg/Kg-dry	10	04/06/17 03:10 PM
Benzo[k]fluoranthene	26.3	0.0898	0.180		mg/Kg-dry	10	04/06/17 03:10 PM
Chrysene	44.8	0.0898	0.180		mg/Kg-dry	10	04/06/17 03:10 PM
Dibenz[a,h]anthracene	7.01	0.0898	0.180		mg/Kg-dry	10	04/06/17 03:10 PM
Fluoranthene	105	0.180	0.359		mg/Kg-dry	20	04/07/17 11:56 AM
Fluorene	2.87	0.0898	0.180		mg/Kg-dry	10	04/06/17 03:10 PM
Indeno[1,2,3-cd]pyrene	40.7	0.0898	0.180		mg/Kg-dry	10	04/06/17 03:10 PM
Naphthalene	0.770	0.0898	0.180		mg/Kg-dry	10	04/06/17 03:10 PM
Phenanthrene	43.6	0.0898	0.180		mg/Kg-dry	10	04/06/17 03:10 PM
Pyrene	72.1	0.0898	0.180		mg/Kg-dry	10	04/06/17 03:10 PM
Surr: 2-Fluorobiphenyl	73.8	0	43-125		%REC	10	04/06/17 03:10 PM
Surr: 2-Fluorobiphenyl	79.9	0	43-125		%REC	20	04/07/17 11:56 AM
Surr: 4-Terphenyl-d14	73.7	0	32-125		%REC	10	04/06/17 03:10 PM
Surr: 4-Terphenyl-d14	79.5	0	32-125		%REC	20	04/07/17 11:56 AM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	48.8	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB39-010
Project:	GLO - Galveston	**Lab ID:**	1703266-33
Project No:	60420789	**Collection Date:**	03/30/17 11:10 AM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	0.511	0.412	0.825	J	mg/Kg-dry	5	04/05/17 12:35 PM
Arsenic	4.46	0.412	0.825		mg/Kg-dry	5	04/05/17 12:35 PM
Barium	236	0.412	1.65		mg/Kg-dry	5	04/05/17 12:35 PM
Beryllium	0.689	0.0825	0.247		mg/Kg-dry	5	04/05/17 12:35 PM
Cadmium	0.419	0.0825	0.247		mg/Kg-dry	5	04/05/17 12:35 PM
Chromium	19.6	0.412	1.65		mg/Kg-dry	5	04/05/17 12:35 PM
Lead	115	0.0825	0.247		mg/Kg-dry	5	04/05/17 12:35 PM
Nickel	10.8	0.412	1.65		mg/Kg-dry	5	04/05/17 12:35 PM
Selenium	1.17	0.124	0.412		mg/Kg-dry	5	04/05/17 12:35 PM
Silver	0.201	0.0825	0.165		mg/Kg-dry	5	04/05/17 12:35 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.108	0.0193	0.0483		mg/Kg-dry	1	04/05/17 03:12 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0244	0.00624	0.0125		mg/Kg-dry	1	04/06/17 05:38 PM
Acenaphthylene	0.178	0.00624	0.0125		mg/Kg-dry	1	04/06/17 05:38 PM
Anthracene	0.185	0.00624	0.0125		mg/Kg-dry	1	04/06/17 05:38 PM
Benzo[a]anthracene	0.446	0.00624	0.0125		mg/Kg-dry	1	04/06/17 05:38 PM
Benzo[a]pyrene	0.596	0.00624	0.0125		mg/Kg-dry	1	04/06/17 05:38 PM
Benzo[b]fluoranthene	0.525	0.00624	0.0125		mg/Kg-dry	1	04/06/17 05:38 PM
Benzo[g,h,i]perylene	0.648	0.00624	0.0125		mg/Kg-dry	1	04/06/17 05:38 PM
Benzo[k]fluoranthene	0.283	0.00624	0.0125		mg/Kg-dry	1	04/06/17 05:38 PM
Chrysene	0.488	0.00624	0.0125		mg/Kg-dry	1	04/06/17 05:38 PM
Dibenz[a,h]anthracene	0.0843	0.00624	0.0125		mg/Kg-dry	1	04/06/17 05:38 PM
Fluoranthene	0.803	0.00624	0.0125		mg/Kg-dry	1	04/06/17 05:38 PM
Fluorene	0.0278	0.00624	0.0125		mg/Kg-dry	1	04/06/17 05:38 PM
Indeno[1,2,3-cd]pyrene	0.529	0.00624	0.0125		mg/Kg-dry	1	04/06/17 05:38 PM
Naphthalene	0.0237	0.00624	0.0125		mg/Kg-dry	1	04/06/17 05:38 PM
Phenanthrene	0.239	0.00624	0.0125		mg/Kg-dry	1	04/06/17 05:38 PM
Pyrene	0.734	0.00624	0.0125		mg/Kg-dry	1	04/06/17 05:38 PM
Surr: 2-Fluorobiphenyl	85.3	0	43-125		%REC	1	04/06/17 05:38 PM
Surr: 4-Terphenyl-d14	88.7	0	32-125		%REC	1	04/06/17 05:38 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	20.0	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB38-010
Project:	GLO - Galveston	**Lab ID:**	1703266-34
Project No:	60420789	**Collection Date:**	03/30/17 11:30 AM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	0.695	0.493	0.986	J	mg/Kg-dry	5	04/05/17 12:37 PM
Arsenic	3.97	0.493	0.986		mg/Kg-dry	5	04/05/17 12:37 PM
Barium	251	0.493	1.97		mg/Kg-dry	5	04/05/17 12:37 PM
Beryllium	0.199	0.0986	0.296	J	mg/Kg-dry	5	04/05/17 12:37 PM
Cadmium	0.448	0.0986	0.296		mg/Kg-dry	5	04/05/17 12:37 PM
Chromium	7.54	0.493	1.97		mg/Kg-dry	5	04/05/17 12:37 PM
Lead	92.1	0.0986	0.296		mg/Kg-dry	5	04/05/17 12:37 PM
Nickel	6.93	0.493	1.97		mg/Kg-dry	5	04/05/17 12:37 PM
Selenium	0.603	0.148	0.493		mg/Kg-dry	5	04/05/17 12:37 PM
Silver	0.136	0.0986	0.197	J	mg/Kg-dry	5	04/05/17 12:37 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0623	0.0156	0.0391		mg/Kg-dry	1	04/05/17 03:14 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0122	0.00502	0.0100		mg/Kg-dry	1	04/06/17 06:07 PM
Acenaphthylene	0.0575	0.00502	0.0100		mg/Kg-dry	1	04/06/17 06:07 PM
Anthracene	0.0840	0.00502	0.0100		mg/Kg-dry	1	04/06/17 06:07 PM
Benzo[a]anthracene	0.295	0.00502	0.0100		mg/Kg-dry	1	04/06/17 06:07 PM
Benzo[a]pyrene	0.365	0.00502	0.0100		mg/Kg-dry	1	04/06/17 06:07 PM
Benzo[b]fluoranthene	0.342	0.00502	0.0100		mg/Kg-dry	1	04/06/17 06:07 PM
Benzo[g,h,i]perylene	0.323	0.00502	0.0100		mg/Kg-dry	1	04/06/17 06:07 PM
Benzo[k]fluoranthene	0.186	0.00502	0.0100		mg/Kg-dry	1	04/06/17 06:07 PM
Chrysene	0.319	0.00502	0.0100		mg/Kg-dry	1	04/06/17 06:07 PM
Dibenz[a,h]anthracene	0.0528	0.00502	0.0100		mg/Kg-dry	1	04/06/17 06:07 PM
Fluoranthene	0.505	0.00502	0.0100		mg/Kg-dry	1	04/06/17 06:07 PM
Fluorene	0.0149	0.00502	0.0100		mg/Kg-dry	1	04/06/17 06:07 PM
Indeno[1,2,3-cd]pyrene	0.306	0.00502	0.0100		mg/Kg-dry	1	04/06/17 06:07 PM
Naphthalene	<0.00502	0.00502	0.0100		mg/Kg-dry	1	04/06/17 06:07 PM
Phenanthrene	0.177	0.00502	0.0100		mg/Kg-dry	1	04/06/17 06:07 PM
Pyrene	0.418	0.00502	0.0100		mg/Kg-dry	1	04/06/17 06:07 PM
Surr: 2-Fluorobiphenyl	94.7	0	43-125		%REC	1	04/06/17 06:07 PM
Surr: 4-Terphenyl-d14	94.9	0	32-125		%REC	1	04/06/17 06:07 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	2.66	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB35-010
Project:	GLO - Galveston	**Lab ID:**	1703266-35
Project No:	60420789	**Collection Date:**	03/30/17 11:50 AM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	12.3	0.566	1.13		mg/Kg-dry	5	04/05/17 12:39 PM
Arsenic	111	0.566	1.13		mg/Kg-dry	5	04/05/17 12:39 PM
Barium	1640	11.3	45.3		mg/Kg-dry	100	04/05/17 01:29 PM
Beryllium	0.433	0.113	0.339		mg/Kg-dry	5	04/05/17 12:39 PM
Cadmium	15.9	0.113	0.339		mg/Kg-dry	5	04/05/17 12:39 PM
Chromium	47.4	0.566	2.26		mg/Kg-dry	5	04/05/17 12:39 PM
Lead	4370	2.26	6.79		mg/Kg-dry	100	04/05/17 01:29 PM
Nickel	30.5	0.566	2.26		mg/Kg-dry	5	04/05/17 12:39 PM
Selenium	2.01	0.170	0.566		mg/Kg-dry	5	04/05/17 12:39 PM
Silver	3.02	0.113	0.226		mg/Kg-dry	5	04/05/17 12:39 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.313	0.0185	0.0462		mg/Kg-dry	1	04/05/17 03:16 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.491	0.00567	0.0113		mg/Kg-dry	1	04/05/17 05:03 PM
Acenaphthylene	0.104	0.00567	0.0113		mg/Kg-dry	1	04/05/17 05:03 PM
Anthracene	2.44	0.00567	0.0113		mg/Kg-dry	1	04/05/17 05:03 PM
Benzo[a]anthracene	5.93	0.0567	0.113		mg/Kg-dry	10	04/06/17 02:40 PM
Benzo[a]pyrene	5.52	0.00567	0.0113		mg/Kg-dry	1	04/05/17 05:03 PM
Benzo[b]fluoranthene	5.65	0.00567	0.0113		mg/Kg-dry	1	04/05/17 05:03 PM
Benzo[g,h,i]perylene	2.90	0.00567	0.0113		mg/Kg-dry	1	04/05/17 05:03 PM
Benzo[k]fluoranthene	2.97	0.00567	0.0113		mg/Kg-dry	1	04/05/17 05:03 PM
Chrysene	6.11	0.0567	0.113		mg/Kg-dry	10	04/06/17 02:40 PM
Dibenz[a,h]anthracene	0.804	0.00567	0.0113		mg/Kg-dry	1	04/05/17 05:03 PM
Fluoranthene	12.2	0.0567	0.113		mg/Kg-dry	10	04/06/17 02:40 PM
Fluorene	0.482	0.00567	0.0113		mg/Kg-dry	1	04/05/17 05:03 PM
Indeno[1,2,3-cd]pyrene	3.68	0.00567	0.0113		mg/Kg-dry	1	04/05/17 05:03 PM
Naphthalene	0.228	0.00567	0.0113		mg/Kg-dry	1	04/05/17 05:03 PM
Phenanthrene	9.04	0.0567	0.113		mg/Kg-dry	10	04/06/17 02:40 PM
Pyrene	9.99	0.0567	0.113		mg/Kg-dry	10	04/06/17 02:40 PM
Surr: 2-Fluorobiphenyl	97.9	0	43-125		%REC	10	04/06/17 02:40 PM
Surr: 2-Fluorobiphenyl	103	0	43-125		%REC	1	04/05/17 05:03 PM
Surr: 4-Terphenyl-d14	98.2	0	32-125		%REC	10	04/06/17 02:40 PM
Surr: 4-Terphenyl-d14	99.4	0	32-125		%REC	1	04/05/17 05:03 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	14.1	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB40-010
Project:	GLO - Galveston	**Lab ID:**	1703266-36
Project No:	60420789	**Collection Date:**	03/30/17 01:40 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	<1.20	1.20	2.40		mg/Kg-dry	5	04/05/17 12:41 PM
Arsenic	5.87	1.20	2.40		mg/Kg-dry	5	04/05/17 12:41 PM
Barium	235	1.20	4.80		mg/Kg-dry	5	04/05/17 12:41 PM
Beryllium	<0.240	0.240	0.720		mg/Kg-dry	5	04/05/17 12:41 PM
Cadmium	0.315	0.240	0.720	J	mg/Kg-dry	5	04/05/17 12:41 PM
Chromium	11.8	1.20	4.80		mg/Kg-dry	5	04/05/17 12:41 PM
Lead	63.4	0.240	0.720		mg/Kg-dry	5	04/05/17 12:41 PM
Nickel	5.73	1.20	4.80		mg/Kg-dry	5	04/05/17 12:41 PM
Selenium	0.569	0.360	1.20	J	mg/Kg-dry	5	04/05/17 12:41 PM
Silver	<0.240	0.240	0.480		mg/Kg-dry	5	04/05/17 12:41 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0533	0.0382	0.0956	J	mg/Kg-dry	1	04/05/17 03:19 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	<0.0121	0.0121	0.0241		mg/Kg-dry	1	04/05/17 08:02 PM
Acenaphthylene	0.0755	0.0121	0.0241		mg/Kg-dry	1	04/05/17 08:02 PM
Anthracene	0.0715	0.0121	0.0241		mg/Kg-dry	1	04/05/17 08:02 PM
Benzo[a]anthracene	0.268	0.0121	0.0241		mg/Kg-dry	1	04/05/17 08:02 PM
Benzo[a]pyrene	0.425	0.0121	0.0241		mg/Kg-dry	1	04/05/17 08:02 PM
Benzo[b]fluoranthene	0.544	0.0121	0.0241		mg/Kg-dry	1	04/05/17 08:02 PM
Benzo[g,h,i]perylene	0.347	0.0121	0.0241		mg/Kg-dry	1	04/05/17 08:02 PM
Benzo[k]fluoranthene	0.261	0.0121	0.0241		mg/Kg-dry	1	04/05/17 08:02 PM
Chrysene	0.397	0.0121	0.0241		mg/Kg-dry	1	04/05/17 08:02 PM
Dibenz[a,h]anthracene	0.0654	0.0121	0.0241		mg/Kg-dry	1	04/05/17 08:02 PM
Fluoranthene	0.394	0.0121	0.0241		mg/Kg-dry	1	04/05/17 08:02 PM
Fluorene	<0.0121	0.0121	0.0241		mg/Kg-dry	1	04/05/17 08:02 PM
Indeno[1,2,3-cd]pyrene	0.417	0.0121	0.0241		mg/Kg-dry	1	04/05/17 08:02 PM
Naphthalene	<0.0121	0.0121	0.0241		mg/Kg-dry	1	04/05/17 08:02 PM
Phenanthrene	0.0719	0.0121	0.0241		mg/Kg-dry	1	04/05/17 08:02 PM
Pyrene	0.338	0.0121	0.0241		mg/Kg-dry	1	04/05/17 08:02 PM
Surr: 2-Fluorobiphenyl	85.1	0	43-125		%REC	1	04/05/17 08:02 PM
Surr: 4-Terphenyl-d14	88.9	0	32-125		%REC	1	04/05/17 08:02 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	60.8	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB40-011
Project:	GLO - Galveston	**Lab ID:**	1703266-37
Project No:	60420789	**Collection Date:**	03/30/17 01:40 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	<0.949	0.949	1.90		mg/Kg-dry	5	04/05/17 12:43 PM
Arsenic	6.94	0.949	1.90		mg/Kg-dry	5	04/05/17 12:43 PM
Barium	217	0.949	3.79		mg/Kg-dry	5	04/05/17 12:43 PM
Beryllium	<0.190	0.190	0.569		mg/Kg-dry	5	04/05/17 12:43 PM
Cadmium	0.366	0.190	0.569	J	mg/Kg-dry	5	04/05/17 12:43 PM
Chromium	15.1	0.949	3.79		mg/Kg-dry	5	04/05/17 12:43 PM
Lead	56.1	0.190	0.569		mg/Kg-dry	5	04/05/17 12:43 PM
Nickel	5.36	0.949	3.79		mg/Kg-dry	5	04/05/17 12:43 PM
Selenium	0.565	0.285	0.949	J	mg/Kg-dry	5	04/05/17 12:43 PM
Silver	<0.190	0.190	0.379		mg/Kg-dry	5	04/05/17 12:43 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0581	0.0313	0.0783	J	mg/Kg-dry	1	04/05/17 03:21 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	<0.00966	0.00966	0.0193		mg/Kg-dry	1	04/07/17 06:15 PM
Acenaphthylene	0.0582	0.00966	0.0193		mg/Kg-dry	1	04/07/17 06:15 PM
Anthracene	0.0615	0.00966	0.0193		mg/Kg-dry	1	04/07/17 06:15 PM
Benzo[a]anthracene	0.169	0.00966	0.0193		mg/Kg-dry	1	04/07/17 06:15 PM
Benzo[a]pyrene	0.267	0.00966	0.0193		mg/Kg-dry	1	04/07/17 06:15 PM
Benzo[b]fluoranthene	0.367	0.00966	0.0193		mg/Kg-dry	1	04/07/17 06:15 PM
Benzo[g,h,i]perylene	0.214	0.00966	0.0193		mg/Kg-dry	1	04/07/17 06:15 PM
Benzo[k]fluoranthene	0.168	0.00966	0.0193		mg/Kg-dry	1	04/07/17 06:15 PM
Chrysene	0.269	0.00966	0.0193		mg/Kg-dry	1	04/07/17 06:15 PM
Dibenz[a,h]anthracene	0.0367	0.00966	0.0193		mg/Kg-dry	1	04/07/17 06:15 PM
Fluoranthene	0.362	0.00966	0.0193		mg/Kg-dry	1	04/07/17 06:15 PM
Fluorene	0.0109	0.00966	0.0193	J	mg/Kg-dry	1	04/07/17 06:15 PM
Indeno[1,2,3-cd]pyrene	0.250	0.00966	0.0193		mg/Kg-dry	1	04/07/17 06:15 PM
Naphthalene	<0.00966	0.00966	0.0193		mg/Kg-dry	1	04/07/17 06:15 PM
Phenanthrene	0.0943	0.00966	0.0193		mg/Kg-dry	1	04/07/17 06:15 PM
Pyrene	0.299	0.00966	0.0193		mg/Kg-dry	1	04/07/17 06:15 PM
Surr: 2-Fluorobiphenyl	72.7	0	43-125		%REC	1	04/07/17 06:15 PM
Surr: 4-Terphenyl-d14	79.5	0	32-125		%REC	1	04/07/17 06:15 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	50.0	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB33-010
Project:	GLO - Galveston	**Lab ID:**	1703266-38
Project No:	60420789	**Collection Date:**	03/30/17 02:00 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	0.618	0.565	1.13	J	mg/Kg-dry	5	04/05/17 12:45 PM
Arsenic	3.29	0.565	1.13		mg/Kg-dry	5	04/05/17 12:45 PM
Barium	149	0.565	2.26		mg/Kg-dry	5	04/05/17 12:45 PM
Beryllium	0.135	0.113	0.339	J	mg/Kg-dry	5	04/05/17 12:45 PM
Cadmium	0.281	0.113	0.339	J	mg/Kg-dry	5	04/05/17 12:45 PM
Chromium	7.15	0.565	2.26		mg/Kg-dry	5	04/05/17 12:45 PM
Lead	76.3	0.113	0.339		mg/Kg-dry	5	04/05/17 12:45 PM
Nickel	6.90	0.565	2.26		mg/Kg-dry	5	04/05/17 12:45 PM
Selenium	0.443	0.169	0.565	J	mg/Kg-dry	5	04/05/17 12:45 PM
Silver	0.119	0.113	0.226	J	mg/Kg-dry	5	04/05/17 12:45 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0648	0.0171	0.0428		mg/Kg-dry	1	04/05/17 03:23 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	<0.0531	0.0531	0.106		mg/Kg-dry	10	04/06/17 03:39 PM
Acenaphthylene	0.181	0.0531	0.106		mg/Kg-dry	10	04/06/17 03:39 PM
Anthracene	0.182	0.0531	0.106		mg/Kg-dry	10	04/06/17 03:39 PM
Benzo[a]anthracene	0.444	0.0531	0.106		mg/Kg-dry	10	04/06/17 03:39 PM
Benzo[a]pyrene	0.576	0.0531	0.106		mg/Kg-dry	10	04/06/17 03:39 PM
Benzo[b]fluoranthene	0.591	0.0531	0.106		mg/Kg-dry	10	04/06/17 03:39 PM
Benzo[g,h,i]perylene	0.546	0.0531	0.106		mg/Kg-dry	10	04/06/17 03:39 PM
Benzo[k]fluoranthene	0.281	0.0531	0.106		mg/Kg-dry	10	04/06/17 03:39 PM
Chrysene	0.627	0.0531	0.106		mg/Kg-dry	10	04/06/17 03:39 PM
Dibenz[a,h]anthracene	0.0871	0.0531	0.106	J	mg/Kg-dry	10	04/06/17 03:39 PM
Fluoranthene	0.893	0.0531	0.106		mg/Kg-dry	10	04/06/17 03:39 PM
Fluorene	<0.0531	0.0531	0.106		mg/Kg-dry	10	04/06/17 03:39 PM
Indeno[1,2,3-cd]pyrene	0.526	0.0531	0.106		mg/Kg-dry	10	04/06/17 03:39 PM
Naphthalene	<0.0531	0.0531	0.106		mg/Kg-dry	10	04/06/17 03:39 PM
Phenanthrene	0.372	0.0531	0.106		mg/Kg-dry	10	04/06/17 03:39 PM
Pyrene	1.01	0.0531	0.106		mg/Kg-dry	10	04/06/17 03:39 PM
Surr: 2-Fluorobiphenyl	90.8	0	43-125		%REC	10	04/06/17 03:39 PM
Surr: 4-Terphenyl-d14	95.0	0	32-125		%REC	10	04/06/17 03:39 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	11.5	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB37-013
Project:	GLO - Galveston	**Lab ID:**	1703266-39
Project No:	60420789	**Collection Date:**	03/30/17 02:25 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	<0.576	0.576	1.15		mg/Kg-dry	5	04/05/17 11:54 AM
Arsenic	2.60	0.576	1.15		mg/Kg-dry	5	04/05/17 11:54 AM
Barium	153	0.576	2.30		mg/Kg-dry	5	04/05/17 11:54 AM
Beryllium	<0.115	0.115	0.346		mg/Kg-dry	5	04/05/17 11:54 AM
Cadmium	0.219	0.115	0.346	J	mg/Kg-dry	5	04/05/17 11:54 AM
Chromium	7.30	0.576	2.30		mg/Kg-dry	5	04/05/17 11:54 AM
Lead	37.5	0.115	0.346		mg/Kg-dry	5	04/05/17 11:54 AM
Nickel	5.65	0.576	2.30		mg/Kg-dry	5	04/05/17 11:54 AM
Selenium	0.396	0.173	0.576	J	mg/Kg-dry	5	04/05/17 11:54 AM
Silver	<0.115	0.115	0.230		mg/Kg-dry	5	04/05/17 11:54 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0348	0.0183	0.0458	J	mg/Kg-dry	1	04/05/17 03:25 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	<0.00660	0.00660	0.0132		mg/Kg-dry	1	04/06/17 06:37 PM
Acenaphthylene	0.0393	0.00660	0.0132		mg/Kg-dry	1	04/06/17 06:37 PM
Anthracene	0.0391	0.00660	0.0132		mg/Kg-dry	1	04/06/17 06:37 PM
Benzo[a]anthracene	0.104	0.00660	0.0132		mg/Kg-dry	1	04/06/17 06:37 PM
Benzo[a]pyrene	0.163	0.00660	0.0132		mg/Kg-dry	1	04/06/17 06:37 PM
Benzo[b]fluoranthene	0.192	0.00660	0.0132		mg/Kg-dry	1	04/06/17 06:37 PM
Benzo[g,h,i]perylene	0.197	0.00660	0.0132		mg/Kg-dry	1	04/06/17 06:37 PM
Benzo[k]fluoranthene	0.0980	0.00660	0.0132		mg/Kg-dry	1	04/06/17 06:37 PM
Chrysene	0.147	0.00660	0.0132		mg/Kg-dry	1	04/06/17 06:37 PM
Dibenz[a,h]anthracene	0.0251	0.00660	0.0132		mg/Kg-dry	1	04/06/17 06:37 PM
Fluoranthene	0.205	0.00660	0.0132		mg/Kg-dry	1	04/06/17 06:37 PM
Fluorene	0.00714	0.00660	0.0132	J	mg/Kg-dry	1	04/06/17 06:37 PM
Indeno[1,2,3-cd]pyrene	0.176	0.00660	0.0132		mg/Kg-dry	1	04/06/17 06:37 PM
Naphthalene	<0.00660	0.00660	0.0132		mg/Kg-dry	1	04/06/17 06:37 PM
Phenanthrene	0.0434	0.00660	0.0132		mg/Kg-dry	1	04/06/17 06:37 PM
Pyrene	0.191	0.00660	0.0132		mg/Kg-dry	1	04/06/17 06:37 PM
Surr: 2-Fluorobiphenyl	88.5	0	43-125		%REC	1	04/06/17 06:37 PM
Surr: 4-Terphenyl-d14	90.1	0	32-125		%REC	1	04/06/17 06:37 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	26.3	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB36-010
Project:	GLO - Galveston	**Lab ID:**	1703266-40
Project No:	60420789	**Collection Date:**	03/30/17 02:45 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	<0.466	0.466	0.932		mg/Kg-dry	5	04/05/17 12:47 PM
Arsenic	1.87	0.466	0.932		mg/Kg-dry	5	04/05/17 12:47 PM
Barium	238	0.466	1.86		mg/Kg-dry	5	04/05/17 12:47 PM
Beryllium	0.121	0.0932	0.280	J	mg/Kg-dry	5	04/05/17 12:47 PM
Cadmium	0.203	0.0932	0.280	J	mg/Kg-dry	5	04/05/17 12:47 PM
Chromium	13.6	0.466	1.86		mg/Kg-dry	5	04/05/17 12:47 PM
Lead	52.1	0.0932	0.280		mg/Kg-dry	5	04/05/17 12:47 PM
Nickel	7.32	0.466	1.86		mg/Kg-dry	5	04/05/17 12:47 PM
Selenium	0.429	0.140	0.466	J	mg/Kg-dry	5	04/05/17 12:47 PM
Silver	<0.0932	0.0932	0.186		mg/Kg-dry	5	04/05/17 12:47 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0359	0.0167	0.0418	J	mg/Kg-dry	1	04/05/17 03:37 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0115	0.00518	0.0104		mg/Kg-dry	1	04/05/17 07:02 PM
Acenaphthylene	0.0569	0.00518	0.0104		mg/Kg-dry	1	04/05/17 07:02 PM
Anthracene	0.0882	0.00518	0.0104		mg/Kg-dry	1	04/05/17 07:02 PM
Benzo[a]anthracene	0.397	0.00518	0.0104		mg/Kg-dry	1	04/05/17 07:02 PM
Benzo[a]pyrene	0.606	0.00518	0.0104		mg/Kg-dry	1	04/05/17 07:02 PM
Benzo[b]fluoranthene	0.805	0.00518	0.0104		mg/Kg-dry	1	04/05/17 07:02 PM
Benzo[g,h,i]perylene	0.474	0.00518	0.0104		mg/Kg-dry	1	04/05/17 07:02 PM
Benzo[k]fluoranthene	0.412	0.00518	0.0104		mg/Kg-dry	1	04/05/17 07:02 PM
Chrysene	0.753	0.00518	0.0104		mg/Kg-dry	1	04/05/17 07:02 PM
Dibenz[a,h]anthracene	0.0780	0.00518	0.0104		mg/Kg-dry	1	04/05/17 07:02 PM
Fluoranthene	1.13	0.00518	0.0104		mg/Kg-dry	1	04/05/17 07:02 PM
Fluorene	0.0149	0.00518	0.0104		mg/Kg-dry	1	04/05/17 07:02 PM
Indeno[1,2,3-cd]pyrene	0.576	0.00518	0.0104		mg/Kg-dry	1	04/05/17 07:02 PM
Naphthalene	<0.00518	0.00518	0.0104		mg/Kg-dry	1	04/05/17 07:02 PM
Phenanthrene	0.276	0.00518	0.0104		mg/Kg-dry	1	04/05/17 07:02 PM
Pyrene	0.939	0.00518	0.0104		mg/Kg-dry	1	04/05/17 07:02 PM
Surr: 2-Fluorobiphenyl	90.0	0	43-125		%REC	1	04/05/17 07:02 PM
Surr: 4-Terphenyl-d14	92.0	0	32-125		%REC	1	04/05/17 07:02 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	8.42	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB30-010
Project:	GLO - Galveston	**Lab ID:**	1703266-41
Project No:	60420789	**Collection Date:**	03/30/17 03:35 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	2.09	0.710	1.42		mg/Kg-dry	5	04/05/17 12:49 PM
Arsenic	8.97	0.710	1.42		mg/Kg-dry	5	04/05/17 12:49 PM
Barium	617	0.710	2.84		mg/Kg-dry	5	04/05/17 12:49 PM
Beryllium	0.798	0.142	0.426		mg/Kg-dry	5	04/05/17 12:49 PM
Cadmium	1.97	0.142	0.426		mg/Kg-dry	5	04/05/17 12:49 PM
Chromium	40.8	0.710	2.84		mg/Kg-dry	5	04/05/17 12:49 PM
Lead	410	0.142	0.426		mg/Kg-dry	5	04/05/17 12:49 PM
Nickel	26.8	0.710	2.84		mg/Kg-dry	5	04/05/17 12:49 PM
Selenium	1.40	0.213	0.710		mg/Kg-dry	5	04/05/17 12:49 PM
Silver	0.716	0.142	0.284		mg/Kg-dry	5	04/05/17 12:49 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.232	0.0210	0.0525		mg/Kg-dry	1	04/05/17 03:39 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0964	0.00714	0.0143		mg/Kg-dry	1	04/05/17 07:32 PM
Acenaphthylene	0.134	0.00714	0.0143		mg/Kg-dry	1	04/05/17 07:32 PM
Anthracene	0.438	0.00714	0.0143		mg/Kg-dry	1	04/05/17 07:32 PM
Benzo[a]anthracene	1.21	0.00714	0.0143		mg/Kg-dry	1	04/05/17 07:32 PM
Benzo[a]pyrene	1.34	0.00714	0.0143		mg/Kg-dry	1	04/05/17 07:32 PM
Benzo[b]fluoranthene	1.45	0.00714	0.0143		mg/Kg-dry	1	04/05/17 07:32 PM
Benzo[g,h,i]perylene	0.756	0.00714	0.0143		mg/Kg-dry	1	04/05/17 07:32 PM
Benzo[k]fluoranthene	0.765	0.00714	0.0143		mg/Kg-dry	1	04/05/17 07:32 PM
Chrysene	1.35	0.00714	0.0143		mg/Kg-dry	1	04/05/17 07:32 PM
Dibenz[a,h]anthracene	0.152	0.00714	0.0143		mg/Kg-dry	1	04/05/17 07:32 PM
Fluoranthene	3.09	0.00714	0.0143		mg/Kg-dry	1	04/05/17 07:32 PM
Fluorene	0.0905	0.00714	0.0143		mg/Kg-dry	1	04/05/17 07:32 PM
Indeno[1,2,3-cd]pyrene	0.974	0.00714	0.0143		mg/Kg-dry	1	04/05/17 07:32 PM
Naphthalene	0.0219	0.00714	0.0143		mg/Kg-dry	1	04/05/17 07:32 PM
Phenanthrene	1.33	0.00714	0.0143		mg/Kg-dry	1	04/05/17 07:32 PM
Pyrene	2.53	0.00714	0.0143		mg/Kg-dry	1	04/05/17 07:32 PM
Surr: 2-Fluorobiphenyl	105	0	43-125		%REC	1	04/05/17 07:32 PM
Surr: 4-Terphenyl-d14	109	0	32-125		%REC	1	04/05/17 07:32 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	35.1	0	0		WT%	1	04/06/17 08:43 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB30-020
Project:	GLO - Galveston	**Lab ID:**	1703266-42
Project No:	60420789	**Collection Date:**	03/30/17 03:35 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	2.89	0.529	1.06		mg/Kg-dry	5	04/12/17 01:07 PM
Arsenic	10.8	0.529	1.06		mg/Kg-dry	5	04/12/17 01:07 PM
Barium	619	2.64	10.6		mg/Kg-dry	25	04/12/17 01:30 PM
Beryllium	0.571	0.106	0.317		mg/Kg-dry	5	04/12/17 01:07 PM
Cadmium	2.55	0.106	0.317		mg/Kg-dry	5	04/12/17 01:07 PM
Chromium	43.8	0.529	2.12		mg/Kg-dry	5	04/12/17 01:07 PM
Lead	564	0.529	1.59		mg/Kg-dry	25	04/12/17 01:30 PM
Nickel	30.6	0.529	2.12		mg/Kg-dry	5	04/12/17 01:07 PM
Selenium	1.18	0.159	0.529		mg/Kg-dry	5	04/12/17 01:07 PM
Silver	0.473	0.106	0.212		mg/Kg-dry	5	04/12/17 01:07 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.289	0.0158	0.0396		mg/Kg-dry	1	04/12/17 08:59 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0239	0.00747	0.0149		mg/Kg-dry	1	04/13/17 08:09 PM
Acenaphthylene	0.0467	0.00747	0.0149		mg/Kg-dry	1	04/13/17 08:09 PM
Anthracene	0.108	0.00747	0.0149		mg/Kg-dry	1	04/13/17 08:09 PM
Benzo[a]anthracene	0.330	0.00747	0.0149		mg/Kg-dry	1	04/13/17 08:09 PM
Benzo[a]pyrene	0.376	0.00747	0.0149		mg/Kg-dry	1	04/13/17 08:09 PM
Benzo[b]fluoranthene	0.386	0.00747	0.0149		mg/Kg-dry	1	04/13/17 08:09 PM
Benzo[g,h,i]perylene	0.332	0.00747	0.0149		mg/Kg-dry	1	04/13/17 08:09 PM
Benzo[k]fluoranthene	0.199	0.00747	0.0149		mg/Kg-dry	1	04/13/17 08:09 PM
Chrysene	0.397	0.00747	0.0149		mg/Kg-dry	1	04/13/17 08:09 PM
Dibenz[a,h]anthracene	0.0524	0.00747	0.0149		mg/Kg-dry	1	04/13/17 08:09 PM
Fluoranthene	0.784	0.00747	0.0149		mg/Kg-dry	1	04/13/17 08:09 PM
Fluorene	0.0237	0.00747	0.0149		mg/Kg-dry	1	04/13/17 08:09 PM
Indeno[1,2,3-cd]pyrene	0.322	0.00747	0.0149		mg/Kg-dry	1	04/13/17 08:09 PM
Naphthalene	<0.00747	0.00747	0.0149		mg/Kg-dry	1	04/13/17 08:09 PM
Phenanthrene	0.336	0.00747	0.0149		mg/Kg-dry	1	04/13/17 08:09 PM
Pyrene	0.615	0.00747	0.0149		mg/Kg-dry	1	04/13/17 08:09 PM
Surr: 2-Fluorobiphenyl	75.0	0	43-125		%REC	1	04/13/17 08:09 PM
Surr: 4-Terphenyl-d14	81.7	0	32-125		%REC	1	04/13/17 08:09 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	37.2	0	0		WT%	1	04/11/17 10:21 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB25-010
Project:	GLO - Galveston	**Lab ID:**	1703266-43
Project No:	60420789	**Collection Date:**	03/30/17 05:00 PM
Lab Order:	1703266	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	0.628	0.490	0.980	J	mg/Kg-dry	5	04/05/17 12:51 PM
Arsenic	3.21	0.490	0.980		mg/Kg-dry	5	04/05/17 12:51 PM
Barium	208	0.490	1.96		mg/Kg-dry	5	04/05/17 12:51 PM
Beryllium	0.276	0.0980	0.294	J	mg/Kg-dry	5	04/05/17 12:51 PM
Cadmium	1.08	0.0980	0.294		mg/Kg-dry	5	04/05/17 12:51 PM
Chromium	17.1	0.490	1.96		mg/Kg-dry	5	04/05/17 12:51 PM
Lead	394	0.0980	0.294		mg/Kg-dry	5	04/05/17 12:51 PM
Nickel	5.41	0.490	1.96		mg/Kg-dry	5	04/05/17 12:51 PM
Selenium	0.829	0.147	0.490		mg/Kg-dry	5	04/05/17 12:51 PM
Silver	0.374	0.0980	0.196		mg/Kg-dry	5	04/05/17 12:51 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.126	0.0179	0.0447		mg/Kg-dry	1	04/05/17 03:41 PM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0429	0.00567	0.0113		mg/Kg-dry	1	04/05/17 04:33 PM
Acenaphthylene	0.119	0.00567	0.0113		mg/Kg-dry	1	04/05/17 04:33 PM
Anthracene	0.186	0.00567	0.0113		mg/Kg-dry	1	04/05/17 04:33 PM
Benzo[a]anthracene	0.565	0.00567	0.0113		mg/Kg-dry	1	04/05/17 04:33 PM
Benzo[a]pyrene	0.630	0.00567	0.0113		mg/Kg-dry	1	04/05/17 04:33 PM
Benzo[b]fluoranthene	0.599	0.00567	0.0113		mg/Kg-dry	1	04/05/17 04:33 PM
Benzo[g,h,i]perylene	0.369	0.00567	0.0113		mg/Kg-dry	1	04/05/17 04:33 PM
Benzo[k]fluoranthene	0.330	0.00567	0.0113		mg/Kg-dry	1	04/05/17 04:33 PM
Chrysene	0.701	0.00567	0.0113		mg/Kg-dry	1	04/05/17 04:33 PM
Dibenz[a,h]anthracene	0.0772	0.00567	0.0113		mg/Kg-dry	1	04/05/17 04:33 PM
Fluoranthene	1.29	0.00567	0.0113		mg/Kg-dry	1	04/05/17 04:33 PM
Fluorene	0.0521	0.00567	0.0113		mg/Kg-dry	1	04/05/17 04:33 PM
Indeno[1,2,3-cd]pyrene	0.444	0.00567	0.0113		mg/Kg-dry	1	04/05/17 04:33 PM
Naphthalene	0.0158	0.00567	0.0113		mg/Kg-dry	1	04/05/17 04:33 PM
Phenanthrene	0.771	0.00567	0.0113		mg/Kg-dry	1	04/05/17 04:33 PM
Pyrene	1.18	0.00567	0.0113		mg/Kg-dry	1	04/05/17 04:33 PM
Surr: 2-Fluorobiphenyl	102	0	43-125		%REC	1	04/05/17 04:33 PM
Surr: 4-Terphenyl-d14	100	0	32-125		%REC	1	04/05/17 04:33 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	13.2	0	0		WT%	1	04/10/17 08:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170119A**

Sample ID	**DCS-78789**	Batch ID:	**78789**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**CETAC2_HG_170119A**	Analysis Date:	**1/19/2017 11:50:30 AM**	Prep Date:	**1/18/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.000191	0.000200	0.000200	0	95.5	82	119	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170324A

Sample ID	**DCS-79594**	Batch ID:	**79594**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**CETAC2_HG_170324A**	Analysis Date:	**3/24/2017 1:12:32 PM**	Prep Date:	**3/20/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0426	0.0400	0.04000	0	106	80	124	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170404A**

The QC data in batch 79822 applies to the following samples: 1703266-23A

Sample ID	**MB-79822**	Batch ID:	**79822**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**CETAC2_HG_170404A**	Analysis Date:	**4/4/2017 1:12:48 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0000800	0.000200								

Sample ID	**LCS-79822**	Batch ID:	**79822**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**CETAC2_HG_170404A**	Analysis Date:	**4/4/2017 1:15:05 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00201	0.000200	0.00200	0	101	85	115			

Sample ID	**LCSD-79822**	Batch ID:	**79822**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**CETAC2_HG_170404A**	Analysis Date:	**4/4/2017 1:17:21 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00198	0.000200	0.00200	0	99.0	85	115	1.50	15	

Sample ID	**1703251-02D SD**	Batch ID:	**79822**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**SD**	Run ID:	**CETAC2_HG_170404A**	Analysis Date:	**4/4/2017 1:21:54 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.000400	0.00100	0	0				0	10	

Sample ID	**1703251-02D PDS**	Batch ID:	**79822**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**PDS**	Run ID:	**CETAC2_HG_170404A**	Analysis Date:	**4/4/2017 1:24:11 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00220	0.000200	0.00250	0	88.0	85	115			

Sample ID	**1703251-02D MS**	Batch ID:	**79822**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**CETAC2_HG_170404A**	Analysis Date:	**4/4/2017 1:26:28 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00175	0.000200	0.00200	0	87.5	80	120			

Sample ID	**1703251-02D MSD**	Batch ID:	**79822**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**CETAC2_HG_170404A**	Analysis Date:	**4/4/2017 1:28:45 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00181	0.000200	0.00200	0	90.5	80	120	3.37	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170404A**

Sample ID	**ICV-170404**	Batch ID:	**R91241**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**CETAC2_HG_170404A**	Analysis Date:	**4/4/2017 12:04:37 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00379	0.000200	0.00400	0	94.8	90	110			

Sample ID	**CCV2-170404**	Batch ID:	**R91241**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170404A**	Analysis Date:	**4/4/2017 1:08:13 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00196	0.000200	0.00200	0	98.0	90	110			

Sample ID	**CCV3-170404**	Batch ID:	**R91241**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170404A**	Analysis Date:	**4/4/2017 1:51:36 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00199	0.000200	0.00200	0	99.5	90	110			

Sample ID	**CCV4-170404**	Batch ID:	**R91241**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170404A**	Analysis Date:	**4/4/2017 2:19:08 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00191	0.000200	0.00200	0	95.5	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170405C**

The QC data in batch 79811 applies to the following samples: 1703266-21A, 1703266-22A, 1703266-24A, 1703266-25A, 1703266-26A, 1703266-27A, 1703266-28A, 1703266-29A, 1703266-30A, 1703266-32A, 1703266-33A, 1703266-34A, 1703266-35A, 1703266-36A, 1703266-37A, 1703266-38A, 1703266-39A, 1703266-40A, 1703266-41A, 1703266-43A

Sample ID **MB-79811** Batch ID: **79811** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **MBLK** Run ID: **CETAC2_HG_170405** Analysis Date: **4/5/2017 2:38:11 PM** Prep Date: **4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0160	0.0400								

Sample ID **LCS-79811** Batch ID: **79811** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCS** Run ID: **CETAC2_HG_170405** Analysis Date: **4/5/2017 2:40:27 PM** Prep Date: **4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.216	0.0400	0.2000	0	108	85	115			

Sample ID **LCSD-79811** Batch ID: **79811** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCSD** Run ID: **CETAC2_HG_170405** Analysis Date: **4/5/2017 2:42:44 PM** Prep Date: **4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.220	0.0400	0.2000	0	110	85	115	1.83	25	

Sample ID **1703266-39A SD** Batch ID: **79811** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **CETAC2_HG_170405** Analysis Date: **4/5/2017 3:28:07 PM** Prep Date: **4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0916	0.229	0	0.03481				0	10	

Sample ID **1703266-39A PDS** Batch ID: **79811** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **CETAC2_HG_170405** Analysis Date: **4/5/2017 3:30:24 PM** Prep Date: **4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.324	0.0458	0.2863	0.03481	101	85	115			

Sample ID **1703266-39A MS** Batch ID: **79811** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **CETAC2_HG_170405** Analysis Date: **4/5/2017 3:32:40 PM** Prep Date: **4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.253	0.0440	0.2199	0.03481	99.2	80	120			

Sample ID **1703266-39A MSD** Batch ID: **79811** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **CETAC2_HG_170405** Analysis Date: **4/5/2017 3:34:57 PM** Prep Date: **4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.218	0.0373	0.1867	0.03481	97.9	80	120	15.0	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170405C**

Sample ID	**ICV-170405**	Batch ID:	**R91275**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**CETAC2_HG_170405**	Analysis Date:	**4/5/2017 2:33:37 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00402	0.0400	0.004000	0	101	90	110			

Sample ID	**CCV1-170405**	Batch ID:	**R91275**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170405**	Analysis Date:	**4/5/2017 3:07:40 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00203	0.0400	0.002000	0	102	90	110			

Sample ID	**CCV2-170405**	Batch ID:	**R91275**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170405**	Analysis Date:	**4/5/2017 3:44:04 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00201	0.0400	0.002000	0	101	90	110			

Sample ID	**CCV3-170405**	Batch ID:	**R91275**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170405**	Analysis Date:	**4/5/2017 3:59:46 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00204	0.0400	0.002000	0	102	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170410A**

The QC data in batch 79810 applies to the following samples: 1703266-01A, 1703266-02A, 1703266-03A, 1703266-04A, 1703266-05A, 1703266-06A, 1703266-07A, 1703266-08A, 1703266-09A, 1703266-10A, 1703266-11A, 1703266-12A, 1703266-13A, 1703266-14A, 1703266-15A, 1703266-16A, 1703266-17A, 1703266-18A, 1703266-19A, 1703266-20A

Sample ID **MB-79810** Batch ID: **79810** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **MBLK** Run ID: **CETAC2_HG_170410A** Analysis Date: **4/10/2017 11:33:56 AM** Prep Date: **4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0160	0.0400								

Sample ID **LCS-79810** Batch ID: **79810** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCS** Run ID: **CETAC2_HG_170410A** Analysis Date: **4/10/2017 11:36:11 AM** Prep Date: **4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.217	0.0400	0.2000	0	108	85	115			

Sample ID **LCSD-79810** Batch ID: **79810** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCSD** Run ID: **CETAC2_HG_170410A** Analysis Date: **4/10/2017 11:38:27 AM** Prep Date: **4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.219	0.0400	0.2000	0	110	85	115	0.917	25	

Sample ID **1703266-20A SD** Batch ID: **79810** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **CETAC2_HG_170410A** Analysis Date: **4/10/2017 1:51:02 PM** Prep Date: **4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	1.84	4.07	0	1.747				5.22	10	

Sample ID **1703266-20A PDS** Batch ID: **79810** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **CETAC2_HG_170410A** Analysis Date: **4/10/2017 1:53:19 PM** Prep Date: **4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	6.63	0.814	5.086	1.747	96.0	85	115			

Sample ID **1703266-20A MS** Batch ID: **79810** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **CETAC2_HG_170410A** Analysis Date: **4/10/2017 1:55:35 PM** Prep Date: **4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	1.82	0.860	0.2151	1.747	34.5	80	120			S

Sample ID **1703266-20A MSD** Batch ID: **79810** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **CETAC2_HG_170410A** Analysis Date: **4/10/2017 1:57:50 PM** Prep Date: **4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	1.64	0.758	0.1894	1.747	-56.5	80	120	10.5	25	S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170410A**

Sample ID	**ICV-170410**	Batch ID:	**R91350**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**CETAC2_HG_170410A**	Analysis Date:	**4/10/2017 10:34:40 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00398	0.0400	0.004000	0	99.5	90	110			

Sample ID	**CCV1-170410**	Batch ID:	**R91350**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170410A**	Analysis Date:	**4/10/2017 11:29:22 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00205	0.0400	0.002000	0	103	90	110			

Sample ID	**CCV2-170410**	Batch ID:	**R91350**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170410A**	Analysis Date:	**4/10/2017 12:03:27 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00203	0.0400	0.002000	0	102	90	110			

Sample ID	**CCV3-170410**	Batch ID:	**R91350**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170410A**	Analysis Date:	**4/10/2017 12:39:57 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00205	0.0400	0.002000	0	103	90	110			

Sample ID	**CCV4-170410**	Batch ID:	**R91350**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170410A**	Analysis Date:	**4/10/2017 2:00:08 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00205	0.0400	0.002000	0	103	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170412A**

The QC data in batch 79945 applies to the following samples: 1703266-31A, 1703266-42A

Sample ID	**MB-79945**	Batch ID:	**79945**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**CETAC2_HG_170412A**	Analysis Date:	**4/12/2017 8:50:14 AM**	Prep Date:	**4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0160	0.0400								

Sample ID	**LCS-79945**	Batch ID:	**79945**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**CETAC2_HG_170412A**	Analysis Date:	**4/12/2017 8:52:30 AM**	Prep Date:	**4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.214	0.0400	0.2000	0	107	85	115			

Sample ID	**LCSD-79945**	Batch ID:	**79945**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**LCSD**	Run ID:	**CETAC2_HG_170412A**	Analysis Date:	**4/12/2017 8:54:46 AM**	Prep Date:	**4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.216	0.0400	0.2000	0	108	85	115	0.930	25	

Sample ID	**1704005-02A SD**	Batch ID:	**79945**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**SD**	Run ID:	**CETAC2_HG_170412A**	Analysis Date:	**4/12/2017 9:03:49 AM**	Prep Date:	**4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.141	0.203	0	0.1387				1.45	10	

Sample ID	**1704005-02A PDS**	Batch ID:	**79945**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**PDS**	Run ID:	**CETAC2_HG_170412A**	Analysis Date:	**4/12/2017 9:06:05 AM**	Prep Date:	**4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.397	0.0405	0.2532	0.1387	102	85	115			

Sample ID	**1704005-02A MS**	Batch ID:	**79945**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**CETAC2_HG_170412A**	Analysis Date:	**4/12/2017 9:08:21 AM**	Prep Date:	**4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.316	0.0409	0.2045	0.1387	86.6	80	120			

Sample ID	**1704005-02A MSD**	Batch ID:	**79945**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**CETAC2_HG_170412A**	Analysis Date:	**4/12/2017 9:10:37 AM**	Prep Date:	**4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.308	0.0388	0.1940	0.1387	87.5	80	120	2.39	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170412A

Sample ID	**ICV-170412**	Batch ID:	**R91397**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**CETAC2_HG_170412A**	Analysis Date:	**4/12/2017 8:45:40 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00396	0.0400	0.004000	0	99.0	90	110			

Sample ID	**CCV1-170412**	Batch ID:	**R91397**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170412A**	Analysis Date:	**4/12/2017 9:24:15 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00200	0.0400	0.002000	0	100	90	110			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170202B**

Sample ID	**DCS1-78981**	Batch ID:	**78981**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**ICP-MS4_170202B**	Analysis Date:	**2/2/2017 10:23:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.000987	0.00250	0.00100	0	98.7	80	120	0	0	
Beryllium	0.000445	0.00100	0.000500	0	89.0	80	120	0	0	
Cadmium	0.000531	0.00100	0.000500	0	106	80	120	0	0	
Lead	0.000526	0.00100	0.000500	0	105	80	120	0	0	

Sample ID	**DCS2-78981**	Batch ID:	**78981**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**DCS2**	Run ID:	**ICP-MS4_170202B**	Analysis Date:	**2/2/2017 10:25:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.00224	0.00500	0.00200	0	112	80	120	0	0	
Nickel	0.00221	0.0100	0.00200	0	111	80	120	0	0	
Silver	0.00204	0.00200	0.00200	0	102	80	120	0	0	

Sample ID	**DCS3-78981**	Batch ID:	**78981**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**DCS3**	Run ID:	**ICP-MS4_170202B**	Analysis Date:	**2/2/2017 10:27:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00519	0.00500	0.00500	0	104	80	120	0	0	
Barium	0.00532	0.0100	0.00500	0	106	80	120	0	0	
Selenium	0.00511	0.00500	0.00500	0	102	80	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170322B**

Sample ID	**DCS1-79610**	Batch ID:	**79610**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**ICP-MS4_170322B**	Analysis Date:	**3/22/2017 11:28:00 AM**	Prep Date:	**3/21/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.262	0.300	0.2500	0	105	80	120	0	0	
Cadmium	0.256	0.300	0.2500	0	103	80	120	0	0	
Selenium	0.292	0.500	0.2500	0	117	80	120	0	0	
Silver	0.257	0.200	0.2500	0	103	80	120	0	0	

Sample ID	**DCS2-79610**	Batch ID:	**79610**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS2**	Run ID:	**ICP-MS4_170322B**	Analysis Date:	**3/22/2017 11:30:00 AM**	Prep Date:	**3/21/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	1.21	1.00	1.250	0	97.2	80	120	0	0	
Arsenic	1.26	1.00	1.250	0	101	80	120	0	0	
Barium	1.34	2.00	1.250	0	107	80	120	0	0	
Chromium	1.39	2.00	1.250	0	111	80	120	0	0	
Lead	1.30	0.300	1.250	0	104	80	120	0	0	
Nickel	1.51	2.00	1.250	0	121	80	120	0	0	S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170405A**

The QC data in batch 79809 applies to the following samples: 1703266-21A, 1703266-22A, 1703266-24A, 1703266-25A, 1703266-26A, 1703266-27A, 1703266-28A, 1703266-29A, 1703266-30A, 1703266-32A, 1703266-33A, 1703266-34A, 1703266-35A, 1703266-36A, 1703266-37A, 1703266-38A, 1703266-39A, 1703266-40A, 1703266-41A, 1703266-43A

Sample ID **MB-79809** Batch ID: **79809** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS4_170405A** Analysis Date: **4/5/2017 11:46:00 AM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.500	1.00								
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Beryllium	<0.100	0.300								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Lead	<0.100	0.300								
Nickel	<0.500	2.00								
Selenium	<0.150	0.500								
Silver	<0.100	0.200								

Sample ID **LCS-79809** Batch ID: **79809** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS4_170405A** Analysis Date: **4/5/2017 11:48:00 AM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	49.3	1.00	50.00	0	98.6	80	120			
Arsenic	50.1	1.00	50.00	0	100	80	120			
Barium	51.2	2.00	50.00	0	102	80	120			
Beryllium	53.1	0.300	50.00	0	106	80	120			
Cadmium	51.3	0.300	50.00	0	103	80	120			
Chromium	53.9	2.00	50.00	0	108	80	120			
Lead	51.4	0.300	50.00	0	103	80	120			
Nickel	53.9	2.00	50.00	0	108	80	120			
Selenium	48.5	0.500	50.00	0	96.9	80	120			
Silver	52.1	0.200	50.00	0	104	80	120			

Sample ID **LCSD-79809** Batch ID: **79809** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS4_170405A** Analysis Date: **4/5/2017 11:50:00 AM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	49.1	1.00	50.00	0	98.3	80	120	0.334	25	
Arsenic	49.9	1.00	50.00	0	99.9	80	120	0.327	25	
Barium	51.1	2.00	50.00	0	102	80	120	0.083	25	
Beryllium	53.4	0.300	50.00	0	107	80	120	0.407	25	
Cadmium	51.1	0.300	50.00	0	102	80	120	0.437	25	
Chromium	53.8	2.00	50.00	0	108	80	120	0.143	25	
Lead	51.1	0.300	50.00	0	102	80	120	0.598	25	
Nickel	53.7	2.00	50.00	0	107	80	120	0.259	25	
Selenium	49.4	0.500	50.00	0	98.8	80	120	1.88	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170405A**

Sample ID	**LCSD-79809**	Batch ID:	**79809**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**LCSD**	Run ID:	**ICP-MS4_170405A**	Analysis Date:	**4/5/2017 11:50:00 AM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	51.8	0.200	50.00	0	104	80	120	0.625	25	

Sample ID	**1703266-39A SD**	Batch ID:	**79809**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**SD**	Run ID:	**ICP-MS4_170405A**	Analysis Date:	**4/5/2017 11:56:00 AM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<2.88	5.76	0	0				0	10	
Arsenic	<2.88	5.76	0	2.597				0	10	
Barium	153	11.5	0	153.3				0.426	10	
Beryllium	<0.576	1.73	0	0				0	10	
Cadmium	<0.576	1.73	0	0.2186				0	10	
Chromium	7.59	11.5	0	7.302				3.81	10	
Lead	36.9	1.73	0	37.53				1.70	10	
Nickel	5.92	11.5	0	5.653				4.53	10	
Selenium	<0.864	2.88	0	0.3960				0	10	
Silver	<0.576	1.15	0	0				0	10	

Sample ID	**1703266-39A PDS**	Batch ID:	**79809**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**PDS**	Run ID:	**ICP-MS4_170405A**	Analysis Date:	**4/5/2017 12:15:00 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	53.8	1.15	57.60	0	93.4	80	120			
Arsenic	60.2	1.15	57.60	2.597	99.9	80	120			
Barium	209	2.30	57.60	153.3	96.9	80	120			
Beryllium	56.5	0.346	57.60	0	98.1	80	120			
Cadmium	55.3	0.346	57.60	0.2186	95.6	80	120			
Chromium	67.1	2.30	57.60	7.302	104	80	120			
Lead	95.3	0.346	57.60	37.53	100	80	120			
Nickel	63.5	2.30	57.60	5.653	100	80	120			
Selenium	54.5	0.576	57.60	0.3960	94.0	80	120			
Silver	56.3	0.230	57.60	0	97.7	80	120			

Sample ID	**1703266-39A MS**	Batch ID:	**79809**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**ICP-MS4_170405A**	Analysis Date:	**4/5/2017 12:17:00 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	56.0	1.15	57.63	0	97.2	80	120			
Arsenic	61.3	1.15	57.63	2.597	102	80	120			
Barium	162	2.31	57.63	153.3	15.6	80	120			S
Beryllium	59.3	0.346	57.63	0	103	80	120			
Cadmium	58.0	0.346	57.63	0.2186	100	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170405A**

Sample ID	**1703266-39A MS**	Batch ID:	**79809**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**ICP-MS4_170405A**	Analysis Date:	**4/5/2017 12:17:00 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	73.8	2.31	57.63	7.302	115	80	120			
Lead	104	0.346	57.63	37.53	116	80	120			
Nickel	65.4	2.31	57.63	5.653	104	80	120			
Selenium	56.0	0.576	57.63	0.3960	96.5	80	120			
Silver	57.4	0.231	57.63	0	99.7	80	120			

Sample ID	**1703266-39A MSD**	Batch ID:	**79809**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**ICP-MS4_170405A**	Analysis Date:	**4/5/2017 12:19:00 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	43.1	0.914	45.68	0	94.4	80	120	25.9	25	R
Arsenic	48.7	0.914	45.68	2.597	101	80	120	22.9	25	
Barium	130	1.83	45.68	153.3	-50.5	80	120	21.9	25	S
Beryllium	46.6	0.274	45.68	0	102	80	120	24.0	25	
Cadmium	44.9	0.274	45.68	0.2186	97.8	80	120	25.4	25	
Chromium	57.2	1.83	45.68	7.302	109	80	120	25.4	25	
Lead	79.6	0.274	45.68	37.53	92.2	80	120	26.7	25	R
Nickel	51.9	1.83	45.68	5.653	101	80	120	23.1	25	
Selenium	44.8	0.457	45.68	0.3960	97.2	80	120	22.3	25	
Silver	44.3	0.183	45.68	0	97.0	80	120	25.8	25	R

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170405A**

Sample ID	**ICV-170405**	Batch ID:	**R91265**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**ICP-MS4_170405A**	Analysis Date:	**4/5/2017 10:12:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.102	0.00250	0.100	0	102	90	110			
Arsenic	0.102	0.00500	0.100	0	102	90	110			
Barium	0.103	0.0100	0.100	0	103	90	110			
Beryllium	0.106	0.00100	0.100	0	106	90	110			
Cadmium	0.105	0.00100	0.100	0	105	90	110			
Chromium	0.109	0.00500	0.100	0	109	90	110			
Lead	0.103	0.00100	0.100	0	103	90	110			
Nickel	0.107	0.0100	0.100	0	107	90	110			
Selenium	0.102	0.00500	0.100	0	102	90	110			
Silver	0.108	0.00200	0.100	0	108	90	110			

Sample ID	**LCVL-170405**	Batch ID:	**R91265**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170405A**	Analysis Date:	**4/5/2017 10:16:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00203	0.00250	0.00200	0	101	70	130			
Arsenic	0.00508	0.00500	0.00500	0	102	70	130			
Barium	0.00510	0.0100	0.00500	0	102	70	130			
Beryllium	0.00112	0.00100	0.00100	0	112	70	130			
Cadmium	0.00106	0.00100	0.00100	0	106	70	130			
Chromium	0.00525	0.00500	0.00500	0	105	70	130			
Lead	0.00105	0.00100	0.00100	0	105	70	130			
Nickel	0.00551	0.0100	0.00500	0	110	70	130			
Selenium	0.00540	0.00500	0.00500	0	108	70	130			
Silver	0.00211	0.00200	0.00200	0	106	70	130			

Sample ID	**CCV2-170405**	Batch ID:	**R91265**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_170405A**	Analysis Date:	**4/5/2017 11:35:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.197	0.00250	0.200	0	98.5	90	110			
Arsenic	0.201	0.00500	0.200	0	101	90	110			
Barium	0.206	0.0100	0.200	0	103	90	110			
Beryllium	0.215	0.00100	0.200	0	107	90	110			
Cadmium	0.208	0.00100	0.200	0	104	90	110			
Chromium	0.213	0.00500	0.200	0	106	90	110			
Lead	0.203	0.00100	0.200	0	101	90	110			
Nickel	0.213	0.0100	0.200	0	106	90	110			
Selenium	0.202	0.00500	0.200	0	101	90	110			
Silver	0.207	0.00200	0.200	0	103	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170405A**

Sample ID **LCVL2-170405** Batch ID: **R91265** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170405A** Analysis Date: **4/5/2017 11:41:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00205	0.00250	0.00200	0	102	70	130			
Arsenic	0.00500	0.00500	0.00500	0	99.9	70	130			
Barium	0.00502	0.0100	0.00500	0	100	70	130			
Beryllium	0.00104	0.00100	0.00100	0	104	70	130			
Cadmium	0.00109	0.00100	0.00100	0	109	70	130			
Chromium	0.00530	0.00500	0.00500	0	106	70	130			
Lead	0.00102	0.00100	0.00100	0	102	70	130			
Nickel	0.00526	0.0100	0.00500	0	105	70	130			
Selenium	0.00514	0.00500	0.00500	0	103	70	130			
Silver	0.00211	0.00200	0.00200	0	106	70	130			

Sample ID **CCV3-170405** Batch ID: **R91265** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_170405A** Analysis Date: **4/5/2017 12:25:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.200	0.00250	0.200	0	100	90	110			
Arsenic	0.201	0.00500	0.200	0	100	90	110			
Barium	0.206	0.0100	0.200	0	103	90	110			
Beryllium	0.223	0.00100	0.200	0	111	90	110			S
Cadmium	0.209	0.00100	0.200	0	105	90	110			
Chromium	0.217	0.00500	0.200	0	109	90	110			
Lead	0.204	0.00100	0.200	0	102	90	110			
Nickel	0.215	0.0100	0.200	0	107	90	110			
Selenium	0.201	0.00500	0.200	0	100	90	110			
Silver	0.212	0.00200	0.200	0	106	90	110			

Sample ID **LCVL3-170405** Batch ID: **R91265** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170405A** Analysis Date: **4/5/2017 12:29:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00214	0.00250	0.00200	0	107	70	130			
Arsenic	0.00497	0.00500	0.00500	0	99.3	70	130			
Barium	0.00509	0.0100	0.00500	0	102	70	130			
Beryllium	0.000968	0.00100	0.00100	0	96.8	70	130			
Cadmium	0.00107	0.00100	0.00100	0	107	70	130			
Chromium	0.00533	0.00500	0.00500	0	107	70	130			
Lead	0.00106	0.00100	0.00100	0	106	70	130			
Nickel	0.00546	0.0100	0.00500	0	109	70	130			
Selenium	0.00536	0.00500	0.00500	0	107	70	130			
Silver	0.00217	0.00200	0.00200	0	108	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170405A**

Sample ID	**CCV4-170405**	Batch ID:	**R91265**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_170405A**	Analysis Date:	**4/5/2017 12:53:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.197	0.00250	0.200	0	98.7	90	110			
Arsenic	0.203	0.00500	0.200	0	102	90	110			
Barium	0.206	0.0100	0.200	0	103	90	110			
Beryllium	0.222	0.00100	0.200	0	111	90	110			S
Cadmium	0.207	0.00100	0.200	0	104	90	110			
Chromium	0.217	0.00500	0.200	0	109	90	110			
Lead	0.205	0.00100	0.200	0	103	90	110			
Nickel	0.217	0.0100	0.200	0	109	90	110			
Selenium	0.203	0.00500	0.200	0	102	90	110			
Silver	0.211	0.00200	0.200	0	106	90	110			

Sample ID	**LCVL4-170405**	Batch ID:	**R91265**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170405A**	Analysis Date:	**4/5/2017 12:57:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00201	0.00250	0.00200	0	101	70	130			
Arsenic	0.00505	0.00500	0.00500	0	101	70	130			
Barium	0.00510	0.0100	0.00500	0	102	70	130			
Beryllium	0.00101	0.00100	0.00100	0	101	70	130			
Cadmium	0.00108	0.00100	0.00100	0	108	70	130			
Chromium	0.00533	0.00500	0.00500	0	107	70	130			
Lead	0.00119	0.00100	0.00100	0	119	70	130			
Nickel	0.00547	0.0100	0.00500	0	109	70	130			
Selenium	0.00534	0.00500	0.00500	0	107	70	130			
Silver	0.00216	0.00200	0.00200	0	108	70	130			

Sample ID	**CCV5-170405**	Batch ID:	**R91265**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_170405A**	Analysis Date:	**4/5/2017 1:31:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.208	0.0100	0.200	0	104	90	110			
Lead	0.202	0.00100	0.200	0	101	90	110			

Sample ID	**LCVL5-170405**	Batch ID:	**R91265**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170405A**	Analysis Date:	**4/5/2017 1:37:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00506	0.0100	0.00500	0	101	70	130			
Lead	0.00105	0.00100	0.00100	0	105	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170406A**

The QC data in batch 79827 applies to the following samples: 1703266-23A

Sample ID	**MB-79827**	Batch ID:	**79827**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**ICP-MS4_170406A**	Analysis Date:	**4/6/2017 12:15:00 PM**	Prep Date:	**4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.000800	0.00250								
Arsenic	<0.00200	0.00500								
Barium	<0.00300	0.0100								
Beryllium	<0.000300	0.00100								
Cadmium	<0.000300	0.00100								
Chromium	<0.00200	0.00500								
Lead	<0.000300	0.00100								
Nickel	<0.00300	0.0100								
Selenium	<0.00200	0.00500								
Silver	<0.00100	0.00200								

Sample ID	**LCS-79827**	Batch ID:	**79827**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCS**	Run ID:	**ICP-MS4_170406A**	Analysis Date:	**4/6/2017 12:17:00 PM**	Prep Date:	**4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.193	0.00250	0.200	0	96.4	80	120			
Arsenic	0.197	0.00500	0.200	0	98.7	80	120			
Barium	0.202	0.0100	0.200	0	101	80	120			
Beryllium	0.207	0.00100	0.200	0	103	80	120			
Cadmium	0.204	0.00100	0.200	0	102	80	120			
Chromium	0.209	0.00500	0.200	0	105	80	120			
Lead	0.199	0.00100	0.200	0	99.6	80	120			
Nickel	0.212	0.0100	0.200	0	106	80	120			
Selenium	0.196	0.00500	0.200	0	98.1	80	120			
Silver	0.203	0.00200	0.200	0	101	80	120			

Sample ID	**LCSD-79827**	Batch ID:	**79827**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**ICP-MS4_170406A**	Analysis Date:	**4/6/2017 12:19:00 PM**	Prep Date:	**4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.192	0.00250	0.200	0	96.0	80	120	0.360	15	
Arsenic	0.197	0.00500	0.200	0	98.6	80	120	0.085	15	
Barium	0.201	0.0100	0.200	0	100	80	120	0.703	15	
Beryllium	0.206	0.00100	0.200	0	103	80	120	0.372	15	
Cadmium	0.204	0.00100	0.200	0	102	80	120	0.164	15	
Chromium	0.210	0.00500	0.200	0	105	80	120	0.246	15	
Lead	0.202	0.00100	0.200	0	101	80	120	1.55	15	
Nickel	0.212	0.0100	0.200	0	106	80	120	0.041	15	
Selenium	0.197	0.00500	0.200	0	98.4	80	120	0.372	15	
Silver	0.203	0.00200	0.200	0	101	80	120	0.055	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170406A**

Sample ID	**1703256-09B SD**	Batch ID:	**79827**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**SD**	Run ID:	**ICP-MS4_170406A**	Analysis Date:	**4/6/2017 12:25:00 PM**	Prep Date:	**4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.00400	0.0125	0	0				0	10	
Arsenic	<0.0100	0.0250	0	0				0	10	
Barium	<0.0150	0.0500	0	0.00459				0	10	
Beryllium	<0.00150	0.00500	0	0				0	10	
Cadmium	0.00196	0.00500	0	0.00199				1.57	10	
Chromium	<0.0100	0.0250	0	0.00496				0	10	
Lead	<0.00150	0.00500	0	0.00123				0	10	
Nickel	0.256	0.0500	0	0.256				0.262	10	
Selenium	<0.0100	0.0250	0	0				0	10	
Silver	<0.00500	0.0100	0	0				0	10	

Sample ID	**1703256-09B PDS**	Batch ID:	**79827**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**PDS**	Run ID:	**ICP-MS4_170406A**	Analysis Date:	**4/6/2017 12:45:00 PM**	Prep Date:	**4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.194	0.00250	0.200	0	96.8	80	120			
Arsenic	0.202	0.00500	0.200	0	101	80	120			
Barium	0.212	0.0100	0.200	0.00459	104	80	120			
Beryllium	0.181	0.00100	0.200	0	90.4	80	120			
Cadmium	0.198	0.00100	0.200	0.00199	98.1	80	120			
Chromium	0.208	0.00500	0.200	0.00496	102	80	120			
Lead	0.205	0.00100	0.200	0.00123	102	80	120			
Nickel	0.437	0.0100	0.200	0.256	90.6	80	120			
Selenium	0.198	0.00500	0.200	0	99.1	80	120			
Silver	0.191	0.00200	0.200	0	95.4	80	120			

Sample ID	**1703256-09B MS**	Batch ID:	**79827**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**ICP-MS4_170406A**	Analysis Date:	**4/6/2017 12:46:00 PM**	Prep Date:	**4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.196	0.00250	0.200	0	97.8	80	120			
Arsenic	0.202	0.00500	0.200	0	101	80	120			
Barium	0.210	0.0100	0.200	0.00459	103	80	120			
Beryllium	0.177	0.00100	0.200	0	88.3	80	120			
Cadmium	0.196	0.00100	0.200	0.00199	96.9	80	120			
Chromium	0.202	0.00500	0.200	0.00496	98.6	80	120			
Lead	0.206	0.00100	0.200	0.00123	103	80	120			
Nickel	0.442	0.0100	0.200	0.256	93.4	80	120			
Selenium	0.202	0.00500	0.200	0	101	80	120			
Silver	0.180	0.00200	0.200	0	90.1	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170406A**

Sample ID	**1703256-09B MSD**	Batch ID:	**79827**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**ICP-MS4_170406A**	Analysis Date:	**4/6/2017 12:48:00 PM**	Prep Date:	**4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.194	0.00250	0.200	0	97.0	80	120	0.804	15	
Arsenic	0.200	0.00500	0.200	0	100	80	120	0.783	15	
Barium	0.211	0.0100	0.200	0.00459	103	80	120	0.076	15	
Beryllium	0.175	0.00100	0.200	0	87.6	80	120	0.795	15	
Cadmium	0.195	0.00100	0.200	0.00199	96.3	80	120	0.617	15	
Chromium	0.202	0.00500	0.200	0.00496	98.6	80	120	0.049	15	
Lead	0.207	0.00100	0.200	0.00123	103	80	120	0.154	15	
Nickel	0.437	0.0100	0.200	0.256	90.8	80	120	1.17	15	
Selenium	0.198	0.00500	0.200	0	98.8	80	120	2.04	15	
Silver	0.181	0.00200	0.200	0	90.7	80	120	0.719	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170406A**

Sample ID	**ICV-170406**	Batch ID:	**R91302**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**ICP-MS4_170406A**	Analysis Date:	**4/6/2017 10:20:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.101	0.00250	0.100	0	101	90	110			
Arsenic	0.101	0.00500	0.100	0	101	90	110			
Barium	0.104	0.0100	0.100	0	104	90	110			
Beryllium	0.103	0.00100	0.100	0	103	90	110			
Cadmium	0.105	0.00100	0.100	0	105	90	110			
Chromium	0.110	0.00500	0.100	0	110	90	110			
Lead	0.104	0.00100	0.100	0	104	90	110			
Nickel	0.108	0.0100	0.100	0	108	90	110			
Selenium	0.101	0.00500	0.100	0	101	90	110			
Silver	0.107	0.00200	0.100	0	107	90	110			

Sample ID	**LCVL-170406**	Batch ID:	**R91302**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170406A**	Analysis Date:	**4/6/2017 10:24:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00201	0.00250	0.00200	0	100	70	130			
Arsenic	0.00503	0.00500	0.00500	0	101	70	130			
Barium	0.00518	0.0100	0.00500	0	104	70	130			
Beryllium	0.000960	0.00100	0.00100	0	96.0	70	130			
Cadmium	0.00110	0.00100	0.00100	0	110	70	130			
Chromium	0.00536	0.00500	0.00500	0	107	70	130			
Lead	0.00106	0.00100	0.00100	0	106	70	130			
Nickel	0.00538	0.0100	0.00500	0	108	70	130			
Selenium	0.00513	0.00500	0.00500	0	103	70	130			
Silver	0.00212	0.00200	0.00200	0	106	70	130			

Sample ID	**CCV3-170406**	Batch ID:	**R91302**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_170406A**	Analysis Date:	**4/6/2017 12:04:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.200	0.00250	0.200	0	99.9	90	110			
Arsenic	0.202	0.00500	0.200	0	101	90	110			
Barium	0.208	0.0100	0.200	0	104	90	110			
Beryllium	0.207	0.00100	0.200	0	103	90	110			
Cadmium	0.209	0.00100	0.200	0	104	90	110			
Chromium	0.214	0.00500	0.200	0	107	90	110			
Lead	0.205	0.00100	0.200	0	103	90	110			
Nickel	0.216	0.0100	0.200	0	108	90	110			
Selenium	0.201	0.00500	0.200	0	101	90	110			
Silver	0.206	0.00200	0.200	0	103	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170406A**

Sample ID **LCVL3-170406** Batch ID: **R91302** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 12:10:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00221	0.00250	0.00200	0	111	70	130			
Arsenic	0.00505	0.00500	0.00500	0	101	70	130			
Barium	0.00514	0.0100	0.00500	0	103	70	130			
Beryllium	0.00104	0.00100	0.00100	0	104	70	130			
Cadmium	0.00107	0.00100	0.00100	0	107	70	130			
Chromium	0.00530	0.00500	0.00500	0	106	70	130			
Lead	0.00108	0.00100	0.00100	0	108	70	130			
Nickel	0.00541	0.0100	0.00500	0	108	70	130			
Selenium	0.00530	0.00500	0.00500	0	106	70	130			
Silver	0.00214	0.00200	0.00200	0	107	70	130			

Sample ID **CCV4-170406** Batch ID: **R91302** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 12:50:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.196	0.00250	0.200	0	97.9	90	110			
Arsenic	0.200	0.00500	0.200	0	100	90	110			
Barium	0.208	0.0100	0.200	0	104	90	110			
Beryllium	0.190	0.00100	0.200	0	94.8	90	110			
Cadmium	0.203	0.00100	0.200	0	102	90	110			
Chromium	0.210	0.00500	0.200	0	105	90	110			
Lead	0.205	0.00100	0.200	0	102	90	110			
Nickel	0.208	0.0100	0.200	0	104	90	110			
Selenium	0.204	0.00500	0.200	0	102	90	110			
Silver	0.199	0.00200	0.200	0	99.5	90	110			

Sample ID **LCVL4-170406** Batch ID: **R91302** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 12:54:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00215	0.00250	0.00200	0	107	70	130			
Arsenic	0.00503	0.00500	0.00500	0	101	70	130			
Barium	0.00515	0.0100	0.00500	0	103	70	130			
Beryllium	0.000850	0.00100	0.00100	0	85.0	70	130			
Cadmium	0.00106	0.00100	0.00100	0	106	70	130			
Chromium	0.00525	0.00500	0.00500	0	105	70	130			
Lead	0.00107	0.00100	0.00100	0	107	70	130			
Nickel	0.00525	0.0100	0.00500	0	105	70	130			
Selenium	0.00573	0.00500	0.00500	0	115	70	130			
Silver	0.00206	0.00200	0.00200	0	103	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170406A**

Sample ID	**CCV5-170406**	Batch ID:	**R91302**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_170406A**	Analysis Date:	**4/6/2017 1:18:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.193	0.00250	0.200	0	96.6	90	110			
Arsenic	0.200	0.00500	0.200	0	99.9	90	110			
Barium	0.206	0.0100	0.200	0	103	90	110			
Beryllium	0.191	0.00100	0.200	0	95.7	90	110			
Cadmium	0.202	0.00100	0.200	0	101	90	110			
Chromium	0.212	0.00500	0.200	0	106	90	110			
Lead	0.205	0.00100	0.200	0	102	90	110			
Nickel	0.209	0.0100	0.200	0	104	90	110			
Selenium	0.204	0.00500	0.200	0	102	90	110			
Silver	0.198	0.00200	0.200	0	99.2	90	110			

Sample ID	**LCVL5-170406**	Batch ID:	**R91302**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170406A**	Analysis Date:	**4/6/2017 1:22:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00201	0.00250	0.00200	0	101	70	130			
Arsenic	0.00501	0.00500	0.00500	0	100	70	130			
Barium	0.00514	0.0100	0.00500	0	103	70	130			
Beryllium	0.000973	0.00100	0.00100	0	97.3	70	130			
Cadmium	0.00106	0.00100	0.00100	0	106	70	130			
Chromium	0.00529	0.00500	0.00500	0	106	70	130			
Lead	0.00106	0.00100	0.00100	0	106	70	130			
Nickel	0.00540	0.0100	0.00500	0	108	70	130			
Selenium	0.00550	0.00500	0.00500	0	110	70	130			
Silver	0.00208	0.00200	0.00200	0	104	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170412B**

The QC data in batch 79943 applies to the following samples: 1703266-31A, 1703266-42A

Sample ID **MB-79943** Batch ID: **79943** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 12:51:00 PM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.500	1.00								
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Beryllium	<0.100	0.300								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Lead	<0.100	0.300								
Nickel	<0.500	2.00								
Selenium	<0.150	0.500								
Silver	<0.100	0.200								

Sample ID **LCS-79943** Batch ID: **79943** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 12:53:00 PM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	51.0	1.00	50.00	0	102	80	120			
Arsenic	50.5	1.00	50.00	0	101	80	120			
Barium	51.8	2.00	50.00	0	104	80	120			
Beryllium	51.5	0.300	50.00	0	103	80	120			
Cadmium	51.1	0.300	50.00	0	102	80	120			
Chromium	53.1	2.00	50.00	0	106	80	120			
Lead	51.3	0.300	50.00	0	103	80	120			
Nickel	53.2	2.00	50.00	0	106	80	120			
Selenium	49.4	0.500	50.00	0	98.9	80	120			
Silver	52.0	0.200	50.00	0	104	80	120			

Sample ID **LCSD-79943** Batch ID: **79943** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 12:55:00 PM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	50.9	1.00	50.00	0	102	80	120	0.197	25	
Arsenic	49.5	1.00	50.00	0	99.0	80	120	2.09	25	
Barium	51.7	2.00	50.00	0	103	80	120	0.231	25	
Beryllium	51.8	0.300	50.00	0	104	80	120	0.455	25	
Cadmium	50.9	0.300	50.00	0	102	80	120	0.321	25	
Chromium	52.3	2.00	50.00	0	105	80	120	1.45	25	
Lead	51.3	0.300	50.00	0	103	80	120	0.046	25	
Nickel	52.5	2.00	50.00	0	105	80	120	1.39	25	
Selenium	48.7	0.500	50.00	0	97.3	80	120	1.57	25	
Silver	51.8	0.200	50.00	0	104	80	120	0.287	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170412B**

Sample ID **1704005-02A SD** Batch ID: **79943** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 1:01:00 PM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<2.45	4.90	0	1.574				0	10	
Arsenic	12.1	4.90	0	11.61				3.83	10	
Barium	283	9.80	0	284.1				0.534	10	
Beryllium	<0.490	1.47	0	0.4039				0	10	
Cadmium	0.872	1.47	0	0.8619				1.22	10	
Chromium	28.5	9.80	0	27.73				2.72	10	
Lead	290	1.47	0	289.7				0.119	10	
Nickel	10.3	9.80	0	10.12				1.47	10	
Selenium	1.04	2.45	0	0.9307				10.8	10	R
Silver	<0.490	0.980	0	0.2085				0	10	

Sample ID **1704005-02A PDS** Batch ID: **79943** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 1:17:00 PM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	50.7	0.980	49.01	1.574	100	80	120			
Arsenic	62.6	0.980	49.01	11.61	104	80	120			
Barium	343	1.96	49.01	284.1	121	80	120			S
Beryllium	50.2	0.294	49.01	0.4039	102	80	120			
Cadmium	51.2	0.294	49.01	0.8619	103	80	120			
Chromium	82.5	1.96	49.01	27.73	112	80	120			
Lead	348	0.294	49.01	289.7	118	80	120			
Nickel	62.4	1.96	49.01	10.12	107	80	120			
Selenium	48.8	0.490	49.01	0.9307	97.8	80	120			
Silver	50.6	0.196	49.01	0.2085	103	80	120			

Sample ID **1704005-02A MS** Batch ID: **79943** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 1:19:00 PM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	48.4	1.03	51.66	1.574	90.7	80	120			
Arsenic	59.5	1.03	51.66	11.61	92.7	80	120			
Barium	250	2.07	51.66	284.1	-66.3	80	120			S
Beryllium	51.1	0.310	51.66	0.4039	98.2	80	120			
Cadmium	50.7	0.310	51.66	0.8619	96.5	80	120			
Chromium	68.5	2.07	51.66	27.73	79.0	80	120			S
Lead	219	0.310	51.66	289.7	-138	80	120			S
Nickel	61.3	2.07	51.66	10.12	99.1	80	120			
Selenium	49.4	0.517	51.66	0.9307	93.9	80	120			
Silver	50.5	0.207	51.66	0.2085	97.3	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170412B**

Sample ID	**1704005-02A MSD**	Batch ID:	**79943**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**ICP-MS4_170412B**	Analysis Date:	**4/12/2017 1:20:00 PM**	Prep Date:	**4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	50.4	1.06	53.01	1.574	92.0	80	120	3.88	25	
Arsenic	64.1	1.06	53.01	11.61	99.0	80	120	7.40	25	
Barium	317	2.12	53.01	284.1	62.6	80	120	23.8	25	S
Beryllium	53.5	0.318	53.01	0.4039	100	80	120	4.48	25	
Cadmium	53.9	0.318	53.01	0.8619	100	80	120	6.12	25	
Chromium	74.2	2.12	53.01	27.73	87.6	80	120	7.90	25	
Lead	216	0.318	53.01	289.7	-139	80	120	1.25	25	S
Nickel	65.0	2.12	53.01	10.12	104	80	120	5.89	25	
Selenium	52.3	0.530	53.01	0.9307	96.9	80	120	5.63	25	
Silver	54.0	0.212	53.01	0.2085	101	80	120	6.64	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170412B**

Sample ID	**ICV-170412**	Batch ID:	**R91412**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**ICP-MS4_170412B**	Analysis Date:	**4/12/2017 10:59:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.105	0.00250	0.100	0	105	90	110			
Arsenic	0.101	0.00500	0.100	0	101	90	110			
Barium	0.104	0.0100	0.100	0	104	90	110			
Beryllium	0.105	0.00100	0.100	0	105	90	110			
Cadmium	0.106	0.00100	0.100	0	106	90	110			
Chromium	0.109	0.00500	0.100	0	109	90	110			
Lead	0.103	0.00100	0.100	0	103	90	110			
Nickel	0.107	0.0100	0.100	0	107	90	110			
Selenium	0.102	0.00500	0.100	0	102	90	110			
Silver	0.108	0.00200	0.100	0	108	90	110			

Sample ID	**LCVL-170412**	Batch ID:	**R91412**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170412B**	Analysis Date:	**4/12/2017 11:06:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00202	0.00250	0.00200	0	101	70	130			
Arsenic	0.00503	0.00500	0.00500	0	101	70	130			
Barium	0.00499	0.0100	0.00500	0	99.8	70	130			
Beryllium	0.000937	0.00100	0.00100	0	93.7	70	130			
Cadmium	0.00108	0.00100	0.00100	0	108	70	130			
Chromium	0.00520	0.00500	0.00500	0	104	70	130			
Lead	0.00103	0.00100	0.00100	0	103	70	130			
Nickel	0.00524	0.0100	0.00500	0	105	70	130			
Selenium	0.00528	0.00500	0.00500	0	106	70	130			
Silver	0.00205	0.00200	0.00200	0	103	70	130			

Sample ID	**CCV3-170412**	Batch ID:	**R91412**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_170412B**	Analysis Date:	**4/12/2017 12:43:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.200	0.00250	0.200	0	100	90	110			
Arsenic	0.199	0.00500	0.200	0	99.4	90	110			
Barium	0.202	0.0100	0.200	0	101	90	110			
Beryllium	0.197	0.00100	0.200	0	98.5	90	110			
Cadmium	0.200	0.00100	0.200	0	99.9	90	110			
Chromium	0.202	0.00500	0.200	0	101	90	110			
Lead	0.199	0.00100	0.200	0	99.7	90	110			
Nickel	0.204	0.0100	0.200	0	102	90	110			
Selenium	0.200	0.00500	0.200	0	99.9	90	110			
Silver	0.200	0.00200	0.200	0	99.9	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170412B**

Sample ID **LCVL3-170412** Batch ID: **R91412** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 12:47:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00216	0.00250	0.00200	0	108	70	130			
Arsenic	0.00506	0.00500	0.00500	0	101	70	130			
Barium	0.00504	0.0100	0.00500	0	101	70	130			
Beryllium	0.00118	0.00100	0.00100	0	118	70	130			
Cadmium	0.00104	0.00100	0.00100	0	104	70	130			
Chromium	0.00518	0.00500	0.00500	0	104	70	130			
Lead	0.00104	0.00100	0.00100	0	104	70	130			
Nickel	0.00518	0.0100	0.00500	0	104	70	130			
Selenium	0.00554	0.00500	0.00500	0	111	70	130			
Silver	0.00203	0.00200	0.00200	0	102	70	130			

Sample ID **CCV4-170412** Batch ID: **R91412** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 1:22:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.199	0.00250	0.200	0	99.3	90	110			
Arsenic	0.199	0.00500	0.200	0	99.7	90	110			
Barium	0.200	0.0100	0.200	0	100	90	110			
Beryllium	0.206	0.00100	0.200	0	103	90	110			
Cadmium	0.201	0.00100	0.200	0	101	90	110			
Chromium	0.208	0.00500	0.200	0	104	90	110			
Lead	0.200	0.00100	0.200	0	100	90	110			
Nickel	0.207	0.0100	0.200	0	104	90	110			
Selenium	0.199	0.00500	0.200	0	99.4	90	110			
Silver	0.203	0.00200	0.200	0	101	90	110			

Sample ID **LCVL4-170412** Batch ID: **R91412** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 1:26:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00210	0.00250	0.00200	0	105	70	130			
Arsenic	0.00507	0.00500	0.00500	0	101	70	130			
Barium	0.00509	0.0100	0.00500	0	102	70	130			
Beryllium	0.00103	0.00100	0.00100	0	103	70	130			
Cadmium	0.00104	0.00100	0.00100	0	104	70	130			
Chromium	0.00522	0.00500	0.00500	0	104	70	130			
Lead	0.00113	0.00100	0.00100	0	113	70	130			
Nickel	0.00522	0.0100	0.00500	0	104	70	130			
Selenium	0.00560	0.00500	0.00500	0	112	70	130			
Silver	0.00202	0.00200	0.00200	0	101	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170412B**

Sample ID	**CCV5-170412**	Batch ID:	**R91412**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_170412B**	Analysis Date:	**4/12/2017 1:36:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.201	0.0100	0.200	0	100	90	110			
Lead	0.201	0.00100	0.200	0	100	90	110			

Sample ID	**LCVL5-170412**	Batch ID:	**R91412**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170412B**	Analysis Date:	**4/12/2017 1:40:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00508	0.0100	0.00500	0	102	70	130			
Lead	0.00110	0.00100	0.00100	0	110	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170323D**

Sample ID	**DCS1-79610**	Batch ID:	**79610**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**ICP-MS5_170323D**	Analysis Date:	**3/23/2017 10:14:00 AM**	Prep Date:	**3/20/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.259	0.300	0.2500	0	104	80	120	0	0	
Cadmium	0.246	0.300	0.2500	0	98.5	80	120	0	0	
Lead	0.403	0.300	0.2500	0	161	80	120	0	0	S
Selenium	0.172	0.500	0.2500	0	68.6	80	120	0	0	S
Silver	0.239	0.200	0.2500	0	95.6	80	120	0	0	

Sample ID	**DCS2-79610**	Batch ID:	**79610**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS2**	Run ID:	**ICP-MS5_170323D**	Analysis Date:	**3/23/2017 10:16:00 AM**	Prep Date:	**3/20/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	1.22	1.00	1.250	0	97.9	80	120	0	0	
Arsenic	1.30	1.00	1.250	0	104	80	120	0	0	
Barium	1.27	2.00	1.250	0	102	80	120	0	0	
Chromium	1.41	2.00	1.250	0	113	80	120	0	0	
Nickel	1.49	2.00	1.250	0	119	80	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170405B**

The QC data in batch 79808 applies to the following samples: 1703266-01A, 1703266-02A, 1703266-03A, 1703266-04A, 1703266-05A, 1703266-06A, 1703266-07A, 1703266-08A, 1703266-09A, 1703266-10A, 1703266-11A, 1703266-12A, 1703266-13A, 1703266-14A, 1703266-15A, 1703266-16A, 1703266-17A, 1703266-18A, 1703266-19A, 1703266-20A

Sample ID **MB-79808** Batch ID: **79808** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS5_170405B** Analysis Date: **4/5/2017 4:20:00 PM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.500	1.00								
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Beryllium	<0.100	0.300								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Lead	<0.100	0.300								
Nickel	<0.500	2.00								
Selenium	<0.150	0.500								
Silver	<0.100	0.200								

Sample ID **LCS-79808** Batch ID: **79808** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS5_170405B** Analysis Date: **4/5/2017 4:27:00 PM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	51.2	1.00	50.00	0	102	80	120			
Arsenic	52.2	1.00	50.00	0	104	80	120			
Barium	49.7	2.00	50.00	0	99.5	80	120			
Beryllium	49.7	0.300	50.00	0	99.4	80	120			
Cadmium	49.5	0.300	50.00	0	99.0	80	120			
Chromium	52.1	2.00	50.00	0	104	80	120			
Lead	52.1	0.300	50.00	0	104	80	120			
Nickel	51.4	2.00	50.00	0	103	80	120			
Selenium	52.2	0.500	50.00	0	104	80	120			
Silver	51.4	0.200	50.00	0	103	80	120			

Sample ID **LCSD-79808** Batch ID: **79808** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS5_170405B** Analysis Date: **4/5/2017 4:28:00 PM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	50.9	1.00	50.00	0	102	80	120	0.572	25	
Arsenic	52.7	1.00	50.00	0	105	80	120	0.941	25	
Barium	49.5	2.00	50.00	0	99.0	80	120	0.502	25	
Beryllium	50.2	0.300	50.00	0	100	80	120	0.977	25	
Cadmium	49.1	0.300	50.00	0	98.3	80	120	0.780	25	
Chromium	52.3	2.00	50.00	0	105	80	120	0.329	25	
Lead	52.0	0.300	50.00	0	104	80	120	0.125	25	
Nickel	52.4	2.00	50.00	0	105	80	120	1.81	25	
Selenium	54.0	0.500	50.00	0	108	80	120	3.30	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170405B**

Sample ID	**LCSD-79808**	Batch ID:	**79808**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**LCSD**	Run ID:	**ICP-MS5_170405B**	Analysis Date:	**4/5/2017 4:28:00 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	51.5	0.200	50.00	0	103	80	120	0.261	25	

Sample ID	**1703266-20A SD**	Batch ID:	**79808**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**SD**	Run ID:	**ICP-MS5_170405B**	Analysis Date:	**4/5/2017 4:32:00 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<2.32	4.64	0	1.067				0	10	
Arsenic	7.60	4.64	0	7.511				1.12	10	
Barium	249	9.28	0	250.6				0.536	10	
Beryllium	<0.464	1.39	0	0.2604				0	10	
Cadmium	0.738	1.39	0	0.7122				3.55	10	
Chromium	11.1	9.28	0	10.97				1.28	10	
Nickel	6.68	9.28	0	6.637				0.648	10	
Selenium	1.30	2.32	0	1.074				18.8	10	R
Silver	<0.464	0.928	0	0.3022				0	10	

Sample ID	**1703266-20A PDS**	Batch ID:	**79808**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**PDS**	Run ID:	**ICP-MS5_170405B**	Analysis Date:	**4/5/2017 4:49:00 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	47.4	0.928	46.41	1.067	99.8	80	120			
Arsenic	54.0	0.928	46.41	7.511	100	80	120			
Barium	295	1.86	46.41	250.6	94.9	80	120			
Beryllium	46.3	0.278	46.41	0.2604	99.3	80	120			
Cadmium	44.3	0.278	46.41	0.7122	93.9	80	120			
Chromium	58.6	1.86	46.41	10.97	103	80	120			
Nickel	52.3	1.86	46.41	6.637	98.3	80	120			
Selenium	47.2	0.464	46.41	1.074	99.3	80	120			
Silver	47.5	0.186	46.41	0.3022	102	80	120			

Sample ID	**1703266-20A MS**	Batch ID:	**79808**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**ICP-MS5_170405B**	Analysis Date:	**4/5/2017 4:51:00 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	47.4	1.00	50.11	1.067	92.4	80	120			
Arsenic	57.2	1.00	50.11	7.511	99.3	80	120			
Barium	297	2.00	50.11	250.6	93.7	80	120			
Beryllium	51.3	0.301	50.11	0.2604	102	80	120			
Cadmium	48.9	0.301	50.11	0.7122	96.1	80	120			
Chromium	62.8	2.00	50.11	10.97	103	80	120			
Nickel	56.7	2.00	50.11	6.637	99.9	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170405B**

Sample ID	**1703266-20A MS**	Batch ID:	**79808**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**ICP-MS5_170405B**	Analysis Date:	**4/5/2017 4:51:00 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	52.6	0.501	50.11	1.074	103	80	120			
Silver	50.7	0.200	50.11	0.3022	101	80	120			

Sample ID	**1703266-20A MSD**	Batch ID:	**79808**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**ICP-MS5_170405B**	Analysis Date:	**4/5/2017 4:53:00 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	48.8	1.02	50.91	1.067	93.7	80	120	2.95	25	
Arsenic	57.9	1.02	50.91	7.511	99.0	80	120	1.14	25	
Barium	323	2.04	50.91	250.6	142	80	120	8.22	25	S
Beryllium	51.6	0.305	50.91	0.2604	101	80	120	0.568	25	
Cadmium	50.7	0.305	50.91	0.7122	98.1	80	120	3.56	25	
Chromium	64.5	2.04	50.91	10.97	105	80	120	2.76	25	
Nickel	57.4	2.04	50.91	6.637	99.6	80	120	1.20	25	
Selenium	52.5	0.509	50.91	1.074	101	80	120	0.201	25	
Silver	51.9	0.204	50.91	0.3022	101	80	120	2.35	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170405B**

Sample ID **ICV-170405** Batch ID: **R91280** TestNo: **SW6020A** Units: **mg/L**
SampType: **ICV** Run ID: **ICP-MS5_170405B** Analysis Date: **4/5/2017 10:25:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.102	0.00250	0.100	0	102	90	110			
Arsenic	0.102	0.00500	0.100	0	102	90	110			
Barium	0.0975	0.0100	0.100	0	97.5	90	110			
Beryllium	0.102	0.00100	0.100	0	102	90	110			
Cadmium	0.0980	0.00100	0.100	0	98.0	90	110			
Chromium	0.105	0.00500	0.100	0	105	90	110			
Lead	0.100	0.00100	0.100	0	100	90	110			
Nickel	0.104	0.0100	0.100	0	104	90	110			
Selenium	0.103	0.00500	0.100	0	103	90	110			
Silver	0.101	0.00200	0.100	0	101	90	110			

Sample ID **LCVL-170405** Batch ID: **R91280** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS5_170405B** Analysis Date: **4/5/2017 10:29:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00202	0.00250	0.00200	0	101	70	130			
Arsenic	0.00509	0.00500	0.00500	0	102	70	130			
Barium	0.00471	0.0100	0.00500	0	94.3	70	130			
Beryllium	0.00101	0.00100	0.00100	0	101	70	130			
Cadmium	0.000972	0.00100	0.00100	0	97.2	70	130			
Chromium	0.00517	0.00500	0.00500	0	103	70	130			
Lead	0.00103	0.00100	0.00100	0	103	70	130			
Nickel	0.00525	0.0100	0.00500	0	105	70	130			
Selenium	0.00521	0.00500	0.00500	0	104	70	130			
Silver	0.00198	0.00200	0.00200	0	99.0	70	130			

Sample ID **CCV7-170405** Batch ID: **R91280** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS5_170405B** Analysis Date: **4/5/2017 4:10:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.205	0.00250	0.200	0	102	90	110			
Arsenic	0.215	0.00500	0.200	0	108	90	110			
Barium	0.201	0.0100	0.200	0	101	90	110			
Beryllium	0.201	0.00100	0.200	0	101	90	110			
Cadmium	0.200	0.00100	0.200	0	99.9	90	110			
Chromium	0.211	0.00500	0.200	0	105	90	110			
Lead	0.213	0.00100	0.200	0	107	90	110			
Nickel	0.214	0.0100	0.200	0	107	90	110			
Selenium	0.217	0.00500	0.200	0	108	90	110			
Silver	0.207	0.00200	0.200	0	103	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170405B**

Sample ID **LCVL7-170405** Batch ID: **R91280** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS5_170405B** Analysis Date: **4/5/2017 4:14:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00206	0.00250	0.00200	0	103	70	130			
Arsenic	0.00521	0.00500	0.00500	0	104	70	130			
Barium	0.00489	0.0100	0.00500	0	97.7	70	130			
Beryllium	0.000974	0.00100	0.00100	0	97.4	70	130			
Cadmium	0.000947	0.00100	0.00100	0	94.7	70	130			
Chromium	0.00513	0.00500	0.00500	0	103	70	130			
Lead	0.00100	0.00100	0.00100	0	100	70	130			
Nickel	0.00513	0.0100	0.00500	0	103	70	130			
Selenium	0.00577	0.00500	0.00500	0	115	70	130			
Silver	0.00199	0.00200	0.00200	0	99.3	70	130			

Sample ID **CCV8-170405** Batch ID: **R91280** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS5_170405B** Analysis Date: **4/5/2017 4:54:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.204	0.00250	0.200	0	102	90	110			
Arsenic	0.215	0.00500	0.200	0	108	90	110			
Barium	0.200	0.0100	0.200	0	100	90	110			
Beryllium	0.211	0.00100	0.200	0	106	90	110			
Cadmium	0.200	0.00100	0.200	0	100	90	110			
Chromium	0.214	0.00500	0.200	0	107	90	110			
Lead	0.212	0.00100	0.200	0	106	90	110			
Nickel	0.217	0.0100	0.200	0	108	90	110			
Selenium	0.214	0.00500	0.200	0	107	90	110			
Silver	0.210	0.00200	0.200	0	105	90	110			

Sample ID **LCVL8-170405** Batch ID: **R91280** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS5_170405B** Analysis Date: **4/5/2017 4:59:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00208	0.00250	0.00200	0	104	70	130			
Arsenic	0.00497	0.00500	0.00500	0	99.3	70	130			
Barium	0.00499	0.0100	0.00500	0	99.9	70	130			
Beryllium	0.00108	0.00100	0.00100	0	108	70	130			
Cadmium	0.000976	0.00100	0.00100	0	97.6	70	130			
Chromium	0.00527	0.00500	0.00500	0	105	70	130			
Lead	0.00124	0.00100	0.00100	0	124	70	130			
Nickel	0.00526	0.0100	0.00500	0	105	70	130			
Selenium	0.00516	0.00500	0.00500	0	103	70	130			
Silver	0.00199	0.00200	0.00200	0	99.4	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170405B**

Sample ID	**CCV9-170405**	Batch ID:	**R91280**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS5_170405B**	Analysis Date:	**4/5/2017 5:19:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.204	0.00250	0.200	0	102	90	110			
Arsenic	0.215	0.00500	0.200	0	107	90	110			
Barium	0.201	0.0100	0.200	0	100	90	110			
Beryllium	0.213	0.00100	0.200	0	106	90	110			
Cadmium	0.201	0.00100	0.200	0	101	90	110			
Chromium	0.216	0.00500	0.200	0	108	90	110			
Lead	0.211	0.00100	0.200	0	105	90	110			
Nickel	0.216	0.0100	0.200	0	108	90	110			
Selenium	0.217	0.00500	0.200	0	109	90	110			
Silver	0.211	0.00200	0.200	0	106	90	110			

Sample ID	**LCVL9-170405**	Batch ID:	**R91280**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS5_170405B**	Analysis Date:	**4/5/2017 5:23:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00206	0.00250	0.00200	0	103	70	130			
Arsenic	0.00521	0.00500	0.00500	0	104	70	130			
Barium	0.00491	0.0100	0.00500	0	98.2	70	130			
Beryllium	0.00105	0.00100	0.00100	0	105	70	130			
Cadmium	0.00102	0.00100	0.00100	0	102	70	130			
Chromium	0.00530	0.00500	0.00500	0	106	70	130			
Lead	0.00127	0.00100	0.00100	0	127	70	130			
Nickel	0.00536	0.0100	0.00500	0	107	70	130			
Selenium	0.00576	0.00500	0.00500	0	115	70	130			
Silver	0.00201	0.00200	0.00200	0	101	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170406B

The QC data in batch 79808 applies to the following samples: 1703266-01A, 1703266-02A, 1703266-03A, 1703266-04A, 1703266-05A, 1703266-06A, 1703266-07A, 1703266-08A, 1703266-09A, 1703266-10A, 1703266-11A, 1703266-12A, 1703266-13A, 1703266-14A, 1703266-15A, 1703266-16A, 1703266-17A, 1703266-18A, 1703266-19A, 1703266-20A

Sample ID **1703266-20A SD** Batch ID: **79808** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS5_170406B** Analysis Date: **4/6/2017 5:06:00 PM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	588	6.96	0	613.2				4.13	10	

Sample ID **1703266-20A PDS** Batch ID: **79808** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **ICP-MS5_170406B** Analysis Date: **4/6/2017 5:22:00 PM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	884	1.39	232.1	613.2	117	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170406B**

Sample ID **ICV-170406** Batch ID: **R91318** TestNo: **SW6020A** Units: **mg/L**
SampType: **ICV** Run ID: **ICP-MS5_170406B** Analysis Date: **4/6/2017 11:02:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0955	0.0100	0.100	0	95.5	90	110			
Lead	0.0996	0.00100	0.100	0	99.6	90	110			

Sample ID **LCVL-170406** Batch ID: **R91318** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS5_170406B** Analysis Date: **4/6/2017 11:08:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00470	0.0100	0.00500	0	93.9	70	130			
Lead	0.00104	0.00100	0.00100	0	104	70	130			

Sample ID **CCV8-170406** Batch ID: **R91318** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS5_170406B** Analysis Date: **4/6/2017 4:58:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.189	0.0100	0.200	0	94.6	90	110			
Lead	0.202	0.00100	0.200	0	101	90	110			

Sample ID **LCVL8-170406** Batch ID: **R91318** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS5_170406B** Analysis Date: **4/6/2017 5:01:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00456	0.0100	0.00500	0	91.1	70	130			
Lead	0.000994	0.00100	0.00100	0	99.4	70	130			

Sample ID **CCV9-170406** Batch ID: **R91318** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS5_170406B** Analysis Date: **4/6/2017 5:24:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.191	0.0100	0.200	0	95.3	90	110			
Lead	0.204	0.00100	0.200	0	102	90	110			

Sample ID **LCVL9-170406** Batch ID: **R91318** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS5_170406B** Analysis Date: **4/6/2017 5:28:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00473	0.0100	0.00500	0	94.6	70	130			
Lead	0.00102	0.00100	0.00100	0	102	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170104A**

Sample ID	**DCS-78416**	Batch ID:	**78416**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**GCMS6_170104A**	Analysis Date:	**1/4/2017 2:16:00 PM**	Prep Date:	**12/21/2016**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0105	0.0100	0.01000	0	105	20	200	0	0	
Acenaphthylene	0.0106	0.0100	0.01000	0	106	20	200	0	0	
Anthracene	0.0103	0.0100	0.01000	0	103	20	200	0	0	
Benzo[a]anthracene	0.0118	0.0100	0.01000	0	118	20	200	0	0	
Benzo[a]pyrene	0.0109	0.0100	0.01000	0	109	20	200	0	0	
Benzo[b]fluoranthene	0.0116	0.0100	0.01000	0	116	20	200	0	0	
Benzo[g,h,i]perylene	0.0124	0.0100	0.01000	0	124	20	200	0	0	
Benzo[k]fluoranthene	0.0126	0.0100	0.01000	0	127	20	200	0	0	
Chrysene	0.0124	0.0100	0.01000	0	124	20	200	0	0	
Dibenz[a,h]anthracene	0.0120	0.0100	0.01000	0	120	20	200	0	0	
Fluoranthene	0.0117	0.0100	0.01000	0	117	20	200	0	0	
Fluorene	0.0108	0.0100	0.01000	0	108	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.0122	0.0100	0.01000	0	122	20	200	0	0	
Naphthalene	0.0108	0.0100	0.01000	0	108	20	200	0	0	
Phenanthrene	0.0118	0.0100	0.01000	0	118	20	200	0	0	
Pyrene	0.0115	0.0100	0.01000	0	115	20	200	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170404A**

The QC data in batch 79790 applies to the following samples: 1703266-23B

Sample ID **LCS-79790** Batch ID: **79790** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS6_170404A** Analysis Date: **4/4/2017 3:42:00 PM** Prep Date: **3/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00327	0.0000500	0.00400	0	81.7	47	120			
Acenaphthylene	0.00333	0.0000500	0.00400	0	83.2	50	120			
Anthracene	0.00363	0.0000500	0.00400	0	90.9	54	120			
Benzo[a]anthracene	0.00425	0.0000500	0.00400	0	106	56	100			S
Benzo[a]pyrene	0.00433	0.0000500	0.00400	0	108	53	120			
Benzo[b]fluoranthene	0.00442	0.0000500	0.00400	0	111	45	124			
Benzo[g,h,i]perylene	0.00429	0.0000500	0.00400	0	107	38	123			
Benzo[k]fluoranthene	0.00432	0.0000500	0.00400	0	108	45	124			
Chrysene	0.00402	0.0000500	0.00400	0	101	55	120			
Dibenz[a,h]anthracene	0.00446	0.0000500	0.00400	0	112	42	127			
Fluoranthene	0.00428	0.0000500	0.00400	0	107	54	120			
Fluorene	0.00354	0.0000500	0.00400	0	88.5	50	120			
Indeno[1,2,3-cd]pyrene	0.00439	0.0000500	0.00400	0	110	43	125			
Naphthalene	0.00258	0.0000500	0.00400	0	64.5	39	120			
Phenanthrene	0.00401	0.0000500	0.00400	0	100	51	120			
Pyrene	0.00414	0.0000500	0.00400	0	104	49	128			
Surr: 2-Fluorobiphenyl	8.49		8.000		106	48	120			
Surr: 4-Terphenyl-d14	8.39		8.000		105	51	135			

Sample ID **LCSD-79790** Batch ID: **79790** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **LCSD** Run ID: **GCMS6_170404A** Analysis Date: **4/4/2017 4:14:00 PM** Prep Date: **3/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00334	0.0000500	0.00400	0	83.4	47	120	2.04	20	
Acenaphthylene	0.00324	0.0000500	0.00400	0	81.0	50	120	2.76	20	
Anthracene	0.00360	0.0000500	0.00400	0	90.1	54	120	0.901	20	
Benzo[a]anthracene	0.00405	0.0000500	0.00400	0	101	56	100	4.82	20	S
Benzo[a]pyrene	0.00409	0.0000500	0.00400	0	102	53	120	5.60	20	
Benzo[b]fluoranthene	0.00417	0.0000500	0.00400	0	104	45	124	5.83	20	
Benzo[g,h,i]perylene	0.00407	0.0000500	0.00400	0	102	38	123	5.08	20	
Benzo[k]fluoranthene	0.00401	0.0000500	0.00400	0	100	45	124	7.52	20	
Chrysene	0.00385	0.0000500	0.00400	0	96.2	55	120	4.49	20	
Dibenz[a,h]anthracene	0.00424	0.0000500	0.00400	0	106	42	127	5.21	20	
Fluoranthene	0.00380	0.0000500	0.00400	0	95.1	54	120	11.7	20	
Fluorene	0.00353	0.0000500	0.00400	0	88.2	50	120	0.420	20	
Indeno[1,2,3-cd]pyrene	0.00419	0.0000500	0.00400	0	105	43	125	4.56	20	
Naphthalene	0.00271	0.0000500	0.00400	0	67.8	39	120	5.11	20	
Phenanthrene	0.00379	0.0000500	0.00400	0	94.6	51	120	5.78	20	
Pyrene	0.00370	0.0000500	0.00400	0	92.4	49	128	11.3	20	
Surr: 2-Fluorobiphenyl	4.85		8.000		60.7	48	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170404A**

Sample ID	**LCSD-79790**	Batch ID:	**79790**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**GCMS6_170404A**	Analysis Date:	**4/4/2017 4:14:00 PM**	Prep Date:	**3/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	4.94		8.000		61.7	51	135	0	0	

Sample ID	**DCS-79790**	Batch ID:	**79790**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**GCMS6_170404A**	Analysis Date:	**4/4/2017 6:21:00 PM**	Prep Date:	**3/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0000386	0.0000500	0.0000400	0	96.4	20	200			
Acenaphthylene	0.0000360	0.0000500	0.0000400	0	90.0	20	200			
Anthracene	0.0000338	0.0000500	0.0000400	0	84.6	20	200			
Benzo[a]anthracene	0.0000423	0.0000500	0.0000400	0	106	20	200			
Benzo[a]pyrene	0.0000388	0.0000500	0.0000400	0	97.0	20	200			
Benzo[b]fluoranthene	0.0000418	0.0000500	0.0000400	0	104	20	200			
Benzo[g,h,i]perylene	0.0000396	0.0000500	0.0000400	0	99.0	20	200			
Benzo[k]fluoranthene	0.0000393	0.0000500	0.0000400	0	98.2	20	200			
Chrysene	0.0000371	0.0000500	0.0000400	0	92.7	20	200			
Dibenz[a,h]anthracene	0.0000398	0.0000500	0.0000400	0	99.4	20	200			
Fluoranthene	0.0000406	0.0000500	0.0000400	0	101	20	200			
Fluorene	0.0000366	0.0000500	0.0000400	0	91.5	20	200			
Indeno[1,2,3-cd]pyrene	0.0000373	0.0000500	0.0000400	0	93.2	20	200			
Naphthalene	0.0000409	0.0000500	0.0000400	0	102	20	200			
Phenanthrene	0.0000395	0.0000500	0.0000400	0	98.8	20	200			
Pyrene	0.0000389	0.0000500	0.0000400	0	97.3	20	200			

Sample ID	**MB-79790**	Batch ID:	**79790**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**GCMS6_170404A**	Analysis Date:	**4/4/2017 6:54:00 PM**	Prep Date:	**3/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.0000250	0.0000500								
Acenaphthylene	<0.0000250	0.0000500								
Anthracene	<0.0000250	0.0000500								
Benzo[a]anthracene	<0.0000250	0.0000500								
Benzo[a]pyrene	<0.0000250	0.0000500								
Benzo[b]fluoranthene	<0.0000250	0.0000500								
Benzo[g,h,i]perylene	<0.0000250	0.0000500								
Benzo[k]fluoranthene	<0.0000250	0.0000500								
Chrysene	<0.0000250	0.0000500								
Dibenz[a,h]anthracene	<0.0000250	0.0000500								
Fluoranthene	<0.0000250	0.0000500								
Fluorene	<0.0000250	0.0000500								
Indeno[1,2,3-cd]pyrene	<0.0000250	0.0000500								
Naphthalene	<0.0000250	0.0000500								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170404A**

Sample ID	**MB-79790**	Batch ID:	**79790**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**GCMS6_170404A**	Analysis Date:	**4/4/2017 6:54:00 PM**	Prep Date:	**3/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenanthrene	<0.0000250	0.0000500								
Pyrene	<0.0000250	0.0000500								
Surr: 2-Fluorobiphenyl	4.70		8.000		58.7	48	120			
Surr: 4-Terphenyl-d14	5.09		8.000		63.6	51	135			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170404A**

The QC data in batch 79837 applies to the following samples: 1703266-23B

Sample ID **LCS-79837** Batch ID: **79837** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS6_170404A** Analysis Date: **4/4/2017 4:46:00 PM** Prep Date: **4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00239	0.0000500	0.00400	0	59.7	47	120			
Acenaphthylene	0.00218	0.0000500	0.00400	0	54.5	50	120			
Anthracene	0.00260	0.0000500	0.00400	0	65.0	54	120			
Benzo[a]anthracene	0.00294	0.0000500	0.00400	0	73.4	56	100			
Benzo[a]pyrene	0.00304	0.0000500	0.00400	0	75.9	53	120			
Benzo[b]fluoranthene	0.00314	0.0000500	0.00400	0	78.6	45	124			
Benzo[g,h,i]perylene	0.00316	0.0000500	0.00400	0	78.9	38	123			
Benzo[k]fluoranthene	0.00280	0.0000500	0.00400	0	70.0	45	124			
Chrysene	0.00278	0.0000500	0.00400	0	69.5	55	120			
Dibenz[a,h]anthracene	0.00324	0.0000500	0.00400	0	81.1	42	127			
Fluoranthene	0.00285	0.0000500	0.00400	0	71.2	54	120			
Fluorene	0.00247	0.0000500	0.00400	0	61.7	50	120			
Indeno[1,2,3-cd]pyrene	0.00322	0.0000500	0.00400	0	80.6	43	125			
Naphthalene	0.00215	0.0000500	0.00400	0	53.8	39	120			
Phenanthrene	0.00269	0.0000500	0.00400	0	67.3	51	120			
Pyrene	0.00254	0.0000500	0.00400	0	63.5	49	128			
Surr: 2-Fluorobiphenyl	4.76		8.000		59.5	48	120			
Surr: 4-Terphenyl-d14	5.65		8.000		70.7	51	135			

Sample ID **LCSD-79837** Batch ID: **79837** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **LCSD** Run ID: **GCMS6_170404A** Analysis Date: **4/4/2017 5:18:00 PM** Prep Date: **4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00240	0.0000500	0.00400	0	60.0	47	120	0.497	20	
Acenaphthylene	0.00218	0.0000500	0.00400	0	54.4	50	120	0.154	20	
Anthracene	0.00254	0.0000500	0.00400	0	63.6	54	120	2.31	20	
Benzo[a]anthracene	0.00301	0.0000500	0.00400	0	75.2	56	100	2.41	20	
Benzo[a]pyrene	0.00309	0.0000500	0.00400	0	77.2	53	120	1.65	20	
Benzo[b]fluoranthene	0.00301	0.0000500	0.00400	0	75.3	45	124	4.23	20	
Benzo[g,h,i]perylene	0.00322	0.0000500	0.00400	0	80.4	38	123	1.84	20	
Benzo[k]fluoranthene	0.00284	0.0000500	0.00400	0	70.9	45	124	1.29	20	
Chrysene	0.00284	0.0000500	0.00400	0	70.9	55	120	2.04	20	
Dibenz[a,h]anthracene	0.00328	0.0000500	0.00400	0	82.0	42	127	1.14	20	
Fluoranthene	0.00286	0.0000500	0.00400	0	71.5	54	120	0.462	20	
Fluorene	0.00237	0.0000500	0.00400	0	59.2	50	120	4.25	20	
Indeno[1,2,3-cd]pyrene	0.00329	0.0000500	0.00400	0	82.3	43	125	2.09	20	
Naphthalene	0.00222	0.0000500	0.00400	0	55.4	39	120	2.96	20	
Phenanthrene	0.00275	0.0000500	0.00400	0	68.7	51	120	2.05	20	
Pyrene	0.00276	0.0000500	0.00400	0	69.0	49	128	8.41	20	
Surr: 2-Fluorobiphenyl	4.82		8.000		60.2	48	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170404A**

Sample ID	**LCSD-79837**	Batch ID:	**79837**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**GCMS6_170404A**	Analysis Date:	**4/4/2017 5:18:00 PM**	Prep Date:	**4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	5.96		8.000		74.5	51	135	0	0	

Sample ID	**MB-79837**	Batch ID:	**79837**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**GCMS6_170404A**	Analysis Date:	**4/4/2017 7:25:00 PM**	Prep Date:	**4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.0000250	0.0000500								
Acenaphthylene	<0.0000250	0.0000500								
Anthracene	<0.0000250	0.0000500								
Benzo[a]anthracene	<0.0000250	0.0000500								
Benzo[a]pyrene	<0.0000250	0.0000500								
Benzo[b]fluoranthene	<0.0000250	0.0000500								
Benzo[g,h,i]perylene	<0.0000250	0.0000500								
Benzo[k]fluoranthene	<0.0000250	0.0000500								
Chrysene	<0.0000250	0.0000500								
Dibenz[a,h]anthracene	<0.0000250	0.0000500								
Fluoranthene	<0.0000250	0.0000500								
Fluorene	<0.0000250	0.0000500								
Indeno[1,2,3-cd]pyrene	<0.0000250	0.0000500								
Naphthalene	<0.0000250	0.0000500								
Phenanthrene	<0.0000250	0.0000500								
Pyrene	<0.0000250	0.0000500								
Surr: 2-Fluorobiphenyl	8.98		16.00		56.1	48	120			
Surr: 4-Terphenyl-d14	11.4		16.00		71.5	51	135			

Sample ID	**SB-170406**	Batch ID:	**79837**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**SBLK**	Run ID:	**GCMS6_170404A**	Analysis Date:	**4/6/2017 10:35:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.0000250	0.0000500	0							
Acenaphthylene	<0.0000250	0.0000500	0							
Anthracene	<0.0000250	0.0000500	0							
Benzo[a]anthracene	<0.0000250	0.0000500	0							
Benzo[a]pyrene	<0.0000250	0.0000500	0							
Benzo[b]fluoranthene	<0.0000250	0.0000500	0							
Benzo[g,h,i]perylene	<0.0000250	0.0000500	0							
Benzo[k]fluoranthene	<0.0000250	0.0000500	0							
Chrysene	<0.0000250	0.0000500	0							
Dibenz[a,h]anthracene	<0.0000250	0.0000500	0							
Fluoranthene	<0.0000250	0.0000500	0							
Fluorene	<0.0000250	0.0000500	0							

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170404A**

Sample ID	**SB-170406**	Batch ID:	**79837**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**SBLK**	Run ID:	**GCMS6_170404A**	Analysis Date:	**4/6/2017 10:35:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Indeno[1,2,3-cd]pyrene	<0.0000250	0.0000500	0							
Naphthalene	<0.0000250	0.0000500	0							
Phenanthrene	<0.0000250	0.0000500	0							
Pyrene	<0.0000250	0.0000500	0							

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170404A**

Sample ID **ICV-170404**	Batch ID: **R91274**	TestNo: **SW8270D-LL**	Units: **mg/L**
SampType: **ICV**	Run ID: **GCMS6_170404A**	Analysis Date: **4/4/2017 12:17:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.88	0.0000500	2.00	0	93.9	80	120			
Acenaphthylene	1.86	0.0000500	2.00	0	93.1	80	120			
Anthracene	1.72	0.0000500	2.00	0	85.9	80	120			
Benzo[a]anthracene	1.93	0.0000500	2.00	0	96.3	80	120			
Benzo[a]pyrene	1.98	0.0000500	2.00	0	99.2	80	120			
Benzo[b]fluoranthene	1.98	0.0000500	2.00	0	99.0	80	120			
Benzo[g,h,i]perylene	1.95	0.0000500	2.00	0	97.3	80	120			
Benzo[k]fluoranthene	1.95	0.0000500	2.00	0	97.3	80	120			
Chrysene	1.81	0.0000500	2.00	0	90.7	80	120			
Dibenz[a,h]anthracene	2.02	0.0000500	2.00	0	101	80	120			
Fluoranthene	1.83	0.0000500	2.00	0	91.3	80	120			
Fluorene	1.86	0.0000500	2.00	0	93.1	80	120			
Indeno[1,2,3-cd]pyrene	2.00	0.0000500	2.00	0	99.9	80	120			
Naphthalene	1.88	0.0000500	2.00	0	94.2	80	120			
Phenanthrene	1.88	0.0000500	2.00	0	93.9	80	120			
Pyrene	1.77	0.0000500	2.00	0	88.5	80	120			
Surr: 2-Fluorobiphenyl	1940		2000		97.1	65	120			
Surr: 4-Terphenyl-d14	1910		2000		95.6	65	120			

Sample ID **ICV-170406**	Batch ID: **R91274**	TestNo: **SW8270D-LL**	Units: **mg/L**
SampType: **ICV**	Run ID: **GCMS6_170404A**	Analysis Date: **4/6/2017 10:03:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.92	0.0000500	2.00	0	96.2	80	120			
Acenaphthylene	1.88	0.0000500	2.00	0	94.0	80	120			
Anthracene	1.65	0.0000500	2.00	0	82.7	80	120			
Benzo[a]anthracene	1.89	0.0000500	2.00	0	94.6	80	120			
Benzo[a]pyrene	1.92	0.0000500	2.00	0	96.1	80	120			
Benzo[b]fluoranthene	2.13	0.0000500	2.00	0	107	80	120			
Benzo[g,h,i]perylene	2.14	0.0000500	2.00	0	107	80	120			
Benzo[k]fluoranthene	2.05	0.0000500	2.00	0	103	80	120			
Chrysene	1.79	0.0000500	2.00	0	89.3	80	120			
Dibenz[a,h]anthracene	2.20	0.0000500	2.00	0	110	80	120			
Fluoranthene	2.02	0.0000500	2.00	0	101	80	120			
Fluorene	1.89	0.0000500	2.00	0	94.6	80	120			
Indeno[1,2,3-cd]pyrene	2.20	0.0000500	2.00	0	110	80	120			
Naphthalene	1.85	0.0000500	2.00	0	92.3	80	120			
Phenanthrene	1.89	0.0000500	2.00	0	94.4	80	120			
Pyrene	1.98	0.0000500	2.00	0	99.1	80	120			
Surr: 2-Fluorobiphenyl	1890		2000		94.5	65	120			
Surr: 4-Terphenyl-d14	2160		2000		108	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_170406A

The QC data in batch 79824 applies to the following samples: 1703266-01A, 1703266-02A, 1703266-03A, 1703266-04A, 1703266-05A, 1703266-06A, 1703266-07A, 1703266-08A, 1703266-09A, 1703266-10A, 1703266-11A, 1703266-12A, 1703266-13A, 1703266-14A, 1703266-15A, 1703266-16A

Sample ID **LCS-79824** Batch ID: **79824** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS6_170406A** Analysis Date: **4/6/2017 12:58:00 PM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.819	0.0100	1.000	0	81.9	46	125			
Acenaphthylene	0.819	0.0100	1.000	0	81.9	44	125			
Anthracene	0.839	0.0100	1.000	0	83.9	53	125			
Benzo[a]anthracene	0.872	0.0100	1.000	0	87.2	52	125			
Benzo[a]pyrene	0.883	0.0100	1.000	0	88.3	50	125			
Benzo[b]fluoranthene	0.934	0.0100	1.000	0	93.4	45	125			
Benzo[g,h,i]perylene	0.899	0.0100	1.000	0	89.9	38	126			
Benzo[k]fluoranthene	0.886	0.0100	1.000	0	88.6	45	125			
Chrysene	0.856	0.0100	1.000	0	85.6	53	125			
Dibenz[a,h]anthracene	0.919	0.0100	1.000	0	91.9	41	125			
Fluoranthene	0.860	0.0100	1.000	0	86.0	54	125			
Fluorene	0.909	0.0100	1.000	0	90.9	49	125			
Indeno[1,2,3-cd]pyrene	0.926	0.0100	1.000	0	92.6	38	125			
Naphthalene	0.790	0.0100	1.000	0	79.0	40	125			
Phenanthrene	0.879	0.0100	1.000	0	87.9	50	125			
Pyrene	0.885	0.0100	1.000	0	88.5	46	125			
Surr: 2-Fluorobiphenyl	0.845		1.000		84.5	43	125			
Surr: 4-Terphenyl-d14	0.920		1.000		92.0	32	125			

Sample ID **MB-79824** Batch ID: **79824** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS6_170406A** Analysis Date: **4/6/2017 1:29:00 PM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100								
Acenaphthylene	<0.00500	0.0100								
Anthracene	<0.00500	0.0100								
Benzo[a]anthracene	<0.00500	0.0100								
Benzo[a]pyrene	<0.00500	0.0100								
Benzo[b]fluoranthene	<0.00500	0.0100								
Benzo[g,h,i]perylene	<0.00500	0.0100								
Benzo[k]fluoranthene	<0.00500	0.0100								
Chrysene	<0.00500	0.0100								
Dibenz[a,h]anthracene	<0.00500	0.0100								
Fluoranthene	<0.00500	0.0100								
Fluorene	<0.00500	0.0100								
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100								
Naphthalene	<0.00500	0.0100								
Phenanthrene	<0.00500	0.0100								
Pyrene	<0.00500	0.0100								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170406A**

Sample ID **MB-79824**	Batch ID: **79824**	TestNo: **SW8270D-LL**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GCMS6_170406A**	Analysis Date: **4/6/2017 1:29:00 PM**	Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	0.757		1.000		75.7	43	125			
Surr: 4-Terphenyl-d14	0.935		1.000		93.5	32	125			

Sample ID **SB-170406**	Batch ID: **79824**	TestNo: **SW8270D-LL**	Units: **mg/Kg**
SampType: **SBLK**	Run ID: **GCMS6_170406A**	Analysis Date: **4/6/2017 9:23:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100	0							
Acenaphthylene	<0.00500	0.0100	0							
Anthracene	<0.00500	0.0100	0							
Benzo[a]anthracene	<0.00500	0.0100	0							
Benzo[a]pyrene	<0.00500	0.0100	0							
Benzo[b]fluoranthene	<0.00500	0.0100	0							
Benzo[g,h,i]perylene	<0.00500	0.0100	0							
Benzo[k]fluoranthene	<0.00500	0.0100	0							
Chrysene	<0.00500	0.0100	0							
Dibenz[a,h]anthracene	<0.00500	0.0100	0							
Fluoranthene	<0.00500	0.0100	0							
Fluorene	<0.00500	0.0100	0							
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100	0							
Naphthalene	<0.00500	0.0100	0							
Phenanthrene	<0.00500	0.0100	0							
Pyrene	<0.00500	0.0100	0							
Surr: 2-Fluorobiphenyl	0.000280		0							
Surr: 4-Terphenyl-d14	0		0							

Sample ID **1704005-08AMS**	Batch ID: **79824**	TestNo: **SW8270D-LL**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GCMS6_170406A**	Analysis Date: **4/7/2017 3:13:00 AM**	Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.49	0.0120	1.198	0.2655	102	46	125			
Acenaphthylene	1.70	0.0120	1.198	0.5411	96.7	44	125			
Anthracene	2.12	0.0120	1.198	1.063	88.6	53	125			
Benzo[a]anthracene	4.25	0.0120	1.198	3.880	31.2	52	125			S
Benzo[a]pyrene	4.57	0.0120	1.198	4.077	41.5	50	125			S
Benzo[b]fluoranthene	4.90	0.0120	1.198	3.979	76.9	45	125			
Benzo[g,h,i]perylene	3.30	0.0120	1.198	2.649	54.3	38	126			
Benzo[k]fluoranthene	3.17	0.0120	1.198	2.130	86.6	45	125			
Chrysene	4.24	0.0120	1.198	3.737	42.0	53	125			S
Dibenz[a,h]anthracene	1.73	0.0120	1.198	0.6086	93.2	41	125			
Fluoranthene	7.33	0.0120	1.198	6.937	33.0	54	125			S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170406A**

Sample ID **1704005-08AMS**	Batch ID: **79824**	TestNo: **SW8270D-LL**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GCMS6_170406A**	Analysis Date: **4/7/2017 3:13:00 AM**	Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	1.60	0.0120	1.198	0.3176	107	49	125			
Indeno[1,2,3-cd]pyrene	3.68	0.0120	1.198	2.947	61.1	38	125			
Naphthalene	1.31	0.0120	1.198	0.06698	103	40	125			
Phenanthrene	5.06	0.0120	1.198	4.376	57.0	50	125			
Pyrene	5.83	0.0120	1.198	5.924	-8.16	46	125			S
Surr: 2-Fluorobiphenyl	0.870		1.198		72.6	43	125			
Surr: 4-Terphenyl-d14	0.919		1.198		76.7	32	125			

Sample ID **1704005-08AMSD**	Batch ID: **79824**	TestNo: **SW8270D-LL**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GCMS6_170406A**	Analysis Date: **4/7/2017 3:45:00 AM**	Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.77	0.0122	1.217	0.2655	124	46	125	17.6	30	
Acenaphthylene	1.89	0.0122	1.217	0.5411	111	44	125	10.8	30	
Anthracene	2.50	0.0122	1.217	1.063	118	53	125	16.3	30	
Benzo[a]anthracene	4.68	0.0122	1.217	3.880	65.9	52	125	9.60	30	
Benzo[a]pyrene	4.95	0.0122	1.217	4.077	72.0	50	125	7.94	30	
Benzo[b]fluoranthene	4.62	0.0122	1.217	3.979	52.4	45	125	5.96	30	
Benzo[g,h,i]perylene	3.28	0.0122	1.217	2.649	51.6	38	126	0.677	30	
Benzo[k]fluoranthene	3.01	0.0122	1.217	2.130	72.2	45	125	5.18	30	
Chrysene	4.65	0.0122	1.217	3.737	75.3	53	125	9.29	30	
Dibenz[a,h]anthracene	1.72	0.0122	1.217	0.6086	91.2	41	125	0.469	30	
Fluoranthene	7.78	0.0122	1.217	6.937	69.7	54	125	5.98	30	
Fluorene	1.84	0.0122	1.217	0.3176	125	49	125	14.1	30	
Indeno[1,2,3-cd]pyrene	3.63	0.0122	1.217	2.947	56.5	38	125	1.22	30	
Naphthalene	1.51	0.0122	1.217	0.06698	119	40	125	14.7	30	
Phenanthrene	6.44	0.0122	1.217	4.376	170	50	125	24.1	30	S
Pyrene	6.51	0.0122	1.217	5.924	48.3	46	125	11.1	30	
Surr: 2-Fluorobiphenyl	0.924		1.217		75.9	43	125	0	0	
Surr: 4-Terphenyl-d14	0.950		1.217		78.1	32	125	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170406A**

Sample ID **ICV-170406**	Batch ID: **R91310**	TestNo: **SW8270D-LL**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GCMS6_170406A**	Analysis Date: **4/6/2017 10:03:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.92	0.0100	2.000	0	96.2	80	120			
Acenaphthylene	1.88	0.0100	2.000	0	94.0	80	120			
Anthracene	1.65	0.0100	2.000	0	82.7	80	120			
Benzo[a]anthracene	1.89	0.0100	2.000	0	94.6	80	120			
Benzo[a]pyrene	1.92	0.0100	2.000	0	96.1	80	120			
Benzo[b]fluoranthene	2.13	0.0100	2.000	0	107	80	120			
Benzo[g,h,i]perylene	2.14	0.0100	2.000	0	107	80	120			
Benzo[k]fluoranthene	2.05	0.0100	2.000	0	103	80	120			
Chrysene	1.79	0.0100	2.000	0	89.3	80	120			
Dibenz[a,h]anthracene	2.20	0.0100	2.000	0	110	80	120			
Fluoranthene	2.02	0.0100	2.000	0	101	80	120			
Fluorene	1.89	0.0100	2.000	0	94.6	80	120			
Indeno[1,2,3-cd]pyrene	2.20	0.0100	2.000	0	110	80	120			
Naphthalene	1.85	0.0100	2.000	0	92.3	80	120			
Phenanthrene	1.89	0.0100	2.000	0	94.4	80	120			
Pyrene	1.98	0.0100	2.000	0	99.1	80	120			
Surr: 2-Fluorobiphenyl	1.89		2.000		94.5	65	120			
Surr: 4-Terphenyl-d14	2.16		2.000		108	65	120			

Sample ID **ICV2-170406**	Batch ID: **R91310**	TestNo: **SW8270D-LL**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GCMS6_170406A**	Analysis Date: **4/6/2017 8:52:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.97	0.0100	2.000	0	98.4	80	120			
Acenaphthylene	1.94	0.0100	2.000	0	97.1	80	120			
Anthracene	1.78	0.0100	2.000	0	89.2	80	120			
Benzo[a]anthracene	1.95	0.0100	2.000	0	97.5	80	120			
Benzo[a]pyrene	2.08	0.0100	2.000	0	104	80	120			
Benzo[b]fluoranthene	2.06	0.0100	2.000	0	103	80	120			
Benzo[g,h,i]perylene	2.12	0.0100	2.000	0	106	80	120			
Benzo[k]fluoranthene	2.01	0.0100	2.000	0	100	80	120			
Chrysene	1.85	0.0100	2.000	0	92.4	80	120			
Dibenz[a,h]anthracene	2.07	0.0100	2.000	0	103	80	120			
Fluoranthene	1.91	0.0100	2.000	0	95.5	80	120			
Fluorene	1.93	0.0100	2.000	0	96.5	80	120			
Indeno[1,2,3-cd]pyrene	2.08	0.0100	2.000	0	104	80	120			
Naphthalene	1.95	0.0100	2.000	0	97.7	80	120			
Phenanthrene	1.96	0.0100	2.000	0	98.0	80	120			
Pyrene	1.82	0.0100	2.000	0	90.8	80	120			
Surr: 2-Fluorobiphenyl	1.96		2.000		98.2	65	120			
Surr: 4-Terphenyl-d14	1.96		2.000		97.8	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_170407A

The QC data in batch 79816 applies to the following samples: 1703266-21A, 1703266-22A, 1703266-24A, 1703266-25A, 1703266-26A, 1703266-27A, 1703266-28A, 1703266-29A, 1703266-30A, 1703266-32A, 1703266-33A, 1703266-34A, 1703266-35A, 1703266-36A, 1703266-37A, 1703266-38A, 1703266-39A, 1703266-40A, 1703266-41A, 1703266-43A

Sample ID	**DCS-79816**	Batch ID:	**79816**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**GCMS6_170407A**	Analysis Date:	**4/7/2017 3:14:00 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0124	0.0100	0.01000	0	124	20	200			
Acenaphthylene	0.0114	0.0100	0.01000	0	114	20	200			
Anthracene	0.0115	0.0100	0.01000	0	115	20	200			
Benzo[a]anthracene	0.0125	0.0100	0.01000	0	125	20	200			
Benzo[a]pyrene	0.0109	0.0100	0.01000	0	109	20	200			
Benzo[b]fluoranthene	0.0119	0.0100	0.01000	0	119	20	200			
Benzo[g,h,i]perylene	0.0122	0.0100	0.01000	0	123	20	200			
Benzo[k]fluoranthene	0.0121	0.0100	0.01000	0	121	20	200			
Chrysene	0.0132	0.0100	0.01000	0	132	20	200			
Dibenz[a,h]anthracene	0.0125	0.0100	0.01000	0	125	20	200			
Fluoranthene	0.0129	0.0100	0.01000	0	129	20	200			
Fluorene	0.0119	0.0100	0.01000	0	119	20	200			
Indeno[1,2,3-cd]pyrene	0.0109	0.0100	0.01000	0	109	20	200			
Naphthalene	0.0123	0.0100	0.01000	0	123	20	200			
Phenanthrene	0.0126	0.0100	0.01000	0	126	20	200			
Pyrene	0.0128	0.0100	0.01000	0	128	20	200			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170407A**

The QC data in batch 79824 applies to the following samples: 1703266-01A, 1703266-02A, 1703266-03A, 1703266-04A, 1703266-05A, 1703266-06A, 1703266-07A, 1703266-08A, 1703266-09A, 1703266-10A, 1703266-11A, 1703266-12A, 1703266-13A, 1703266-14A, 1703266-15A, 1703266-16A

Sample ID	**SB-170407**	Batch ID:	**79824**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**SBLK**	Run ID:	**GCMS6_170407A**	Analysis Date:	**4/7/2017 10:25:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo[a]anthracene	0.00531	0.0100	0							
Benzo[a]pyrene	0.00561	0.0100	0							
Benzo[b]fluoranthene	0.00532	0.0100	0							
Benzo[g,h,i]perylene	0.0122	0.0100	0							
Benzo[k]fluoranthene	<0.00500	0.0100	0							
Chrysene	<0.00500	0.0100	0							
Fluoranthene	0.00538	0.0100	0							
Indeno[1,2,3-cd]pyrene	0.00784	0.0100	0							
Phenanthrene	0.00504	0.0100	0							
Pyrene	0.00524	0.0100	0							
Surr: 2-Fluorobiphenyl	0.00337		0							
Surr: 4-Terphenyl-d14	0.00366		0							

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170407A**

Sample ID	**ICV-170407**	Batch ID:	**R91323**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS6_170407A**	Analysis Date:	**4/7/2017 9:53:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo[a]anthracene	1.95	0.0100	2.000	0	97.7	80	120			
Benzo[a]pyrene	2.02	0.0100	2.000	0	101	80	120			
Benzo[b]fluoranthene	2.03	0.0100	2.000	0	102	80	120			
Benzo[g,h,i]perylene	1.80	0.0100	2.000	0	89.8	80	120			
Benzo[k]fluoranthene	1.91	0.0100	2.000	0	95.7	80	120			
Chrysene	1.79	0.0100	2.000	0	89.6	80	120			
Fluoranthene	1.87	0.0100	2.000	0	93.5	80	120			
Indeno[1,2,3-cd]pyrene	1.95	0.0100	2.000	0	97.4	80	120			
Phenanthrene	1.99	0.0100	2.000	0	99.4	80	120			
Pyrene	1.87	0.0100	2.000	0	93.4	80	120			
Surr: 2-Fluorobiphenyl	1.98		2.000		98.9	65	120			
Surr: 4-Terphenyl-d14	2.04		2.000		102	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170413B**

The QC data in batch 79942 applies to the following samples: 1703266-31A, 1703266-42A

Sample ID **LCS-79942** Batch ID: **79942** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS6_170413B** Analysis Date: **4/13/2017 6:33:00 PM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.682	0.0100	1.000	0	68.2	46	125			
Acenaphthylene	0.640	0.0100	1.000	0	64.0	44	125			
Anthracene	0.679	0.0100	1.000	0	67.9	53	125			
Benzo[a]anthracene	0.704	0.0100	1.000	0	70.4	52	125			
Benzo[a]pyrene	0.667	0.0100	1.000	0	66.7	50	125			
Benzo[b]fluoranthene	0.711	0.0100	1.000	0	71.1	45	125			
Benzo[g,h,i]perylene	0.714	0.0100	1.000	0	71.4	38	126			
Benzo[k]fluoranthene	0.689	0.0100	1.000	0	68.9	45	125			
Chrysene	0.670	0.0100	1.000	0	67.0	53	125			
Dibenz[a,h]anthracene	0.717	0.0100	1.000	0	71.7	41	125			
Fluoranthene	0.730	0.0100	1.000	0	73.0	54	125			
Fluorene	0.706	0.0100	1.000	0	70.6	49	125			
Indeno[1,2,3-cd]pyrene	0.711	0.0100	1.000	0	71.1	38	125			
Naphthalene	0.614	0.0100	1.000	0	61.4	40	125			
Phenanthrene	0.689	0.0100	1.000	0	68.9	50	125			
Pyrene	0.708	0.0100	1.000	0	70.8	46	125			
Surr: 2-Fluorobiphenyl	0.670		1.000		67.0	43	125			
Surr: 4-Terphenyl-d14	0.759		1.000		75.9	32	125			

Sample ID **MB-79942** Batch ID: **79942** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS6_170413B** Analysis Date: **4/13/2017 7:05:00 PM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100								
Acenaphthylene	<0.00500	0.0100								
Anthracene	<0.00500	0.0100								
Benzo[a]anthracene	<0.00500	0.0100								
Benzo[a]pyrene	<0.00500	0.0100								
Benzo[b]fluoranthene	<0.00500	0.0100								
Benzo[g,h,i]perylene	<0.00500	0.0100								
Benzo[k]fluoranthene	<0.00500	0.0100								
Chrysene	<0.00500	0.0100								
Dibenz[a,h]anthracene	<0.00500	0.0100								
Fluoranthene	<0.00500	0.0100								
Fluorene	<0.00500	0.0100								
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100								
Naphthalene	<0.00500	0.0100								
Phenanthrene	<0.00500	0.0100								
Pyrene	<0.00500	0.0100								
Surr: 2-Fluorobiphenyl	0.719		1.000		71.9	43	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170413B**

Sample ID **MB-79942**	Batch ID: **79942**	TestNo: **SW8270D-LL**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GCMS6_170413B**	Analysis Date: **4/13/2017 7:05:00 PM**	Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	0.833		1.000		83.3	32	125			

Sample ID **1704005-02AMS**	Batch ID: **79942**	TestNo: **SW8270D-LL**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GCMS6_170413B**	Analysis Date: **4/13/2017 10:47:00 PM**	Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.23	0.0111	1.107	0.2440	88.9	46	125			
Acenaphthylene	1.52	0.0111	1.107	0.3942	102	44	125			
Anthracene	1.97	0.0111	1.107	0.9890	89.0	53	125			
Benzo[a]anthracene	4.60	0.0111	1.107	3.271	120	52	125			
Benzo[a]pyrene	4.72	0.0111	1.107	3.187	139	50	125			S
Benzo[b]fluoranthene	4.57	0.0111	1.107	3.106	132	45	125			S
Benzo[g,h,i]perylene	3.84	0.0111	1.107	2.368	133	38	126			S
Benzo[k]fluoranthene	2.73	0.0111	1.107	1.572	104	45	125			
Chrysene	4.60	0.0111	1.107	3.219	125	53	125			
Dibenz[a,h]anthracene	1.43	0.0111	1.107	0.4314	89.8	41	125			
Fluoranthene	9.50	0.0111	1.107	7.576	174	54	125			S
Fluorene	1.22	0.0111	1.107	0.2807	85.2	49	125			
Indeno[1,2,3-cd]pyrene	3.91	0.0111	1.107	2.433	134	38	125			S
Naphthalene	0.945	0.0111	1.107	0.03664	82.0	40	125			
Phenanthrene	5.29	0.0111	1.107	4.035	113	50	125			
Pyrene	7.84	0.0111	1.107	6.014	165	46	125			S
Surr: 2-Fluorobiphenyl	0.953		1.107		86.1	43	125			
Surr: 4-Terphenyl-d14	1.01		1.107		91.4	32	125			

Sample ID **1704005-02AMSD**	Batch ID: **79942**	TestNo: **SW8270D-LL**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GCMS6_170413B**	Analysis Date: **4/13/2017 11:19:00 PM**	Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.08	0.0107	1.070	0.2440	77.7	46	125	13.2	30	
Acenaphthylene	1.25	0.0107	1.070	0.3942	80.2	44	125	19.3	30	
Anthracene	1.75	0.0107	1.070	0.9890	71.3	53	125	11.9	30	
Benzo[a]anthracene	3.96	0.0107	1.070	3.271	64.7	52	125	14.8	30	
Benzo[a]pyrene	3.97	0.0107	1.070	3.187	73.3	50	125	17.3	30	
Benzo[b]fluoranthene	3.87	0.0107	1.070	3.106	71.5	45	125	16.6	30	
Benzo[g,h,i]perylene	3.27	0.0107	1.070	2.368	84.2	38	126	16.1	30	
Benzo[k]fluoranthene	2.33	0.0107	1.070	1.572	70.9	45	125	15.7	30	
Chrysene	3.88	0.0107	1.070	3.219	61.4	53	125	17.1	30	
Dibenz[a,h]anthracene	1.23	0.0107	1.070	0.4314	75.0	41	125	14.4	30	
Fluoranthene	8.23	0.0107	1.070	7.576	61.4	54	125	14.3	30	
Fluorene	1.09	0.0107	1.070	0.2807	76.0	49	125	11.2	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_170413B

Sample ID	**1704005-02AMSD**	Batch ID:	**79942**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**GCMS6_170413B**	Analysis Date:	**4/13/2017 11:19:00 PM**	Prep Date:	**4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Indeno[1,2,3-cd]pyrene	3.35	0.0107	1.070	2.433	85.9	38	125	15.5	30	
Naphthalene	0.840	0.0107	1.070	0.03664	75.1	40	125	11.7	30	
Phenanthrene	5.25	0.0107	1.070	4.035	113	50	125	0.805	30	
Pyrene	6.78	0.0107	1.070	6.014	71.9	46	125	14.5	30	
Surr: 2-Fluorobiphenyl	0.814		1.070		76.0	43	125	0	0	
Surr: 4-Terphenyl-d14	0.872		1.070		81.4	32	125	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170413B**

Sample ID	**ICV2-170413**	Batch ID:	**R91451**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS6_170413B**	Analysis Date:	**4/13/2017 6:01:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.92	0.0100	2.000	0	95.9	80	120			
Acenaphthylene	1.82	0.0100	2.000	0	90.8	80	120			
Anthracene	1.72	0.0100	2.000	0	85.8	80	120			
Benzo[a]anthracene	1.84	0.0100	2.000	0	92.0	80	120			
Benzo[a]pyrene	1.83	0.0100	2.000	0	91.6	80	120			
Benzo[b]fluoranthene	1.88	0.0100	2.000	0	94.1	80	120			
Benzo[g,h,i]perylene	1.86	0.0100	2.000	0	93.1	80	120			
Benzo[k]fluoranthene	1.76	0.0100	2.000	0	88.2	80	120			
Chrysene	1.76	0.0100	2.000	0	88.1	80	120			
Dibenz[a,h]anthracene	1.91	0.0100	2.000	0	95.6	80	120			
Fluoranthene	1.84	0.0100	2.000	0	92.1	80	120			
Fluorene	1.87	0.0100	2.000	0	93.7	80	120			
Indeno[1,2,3-cd]pyrene	1.90	0.0100	2.000	0	95.2	80	120			
Naphthalene	1.93	0.0100	2.000	0	96.3	80	120			
Phenanthrene	1.82	0.0100	2.000	0	90.9	80	120			
Pyrene	1.80	0.0100	2.000	0	89.8	80	120			
Surr: 2-Fluorobiphenyl	1.84		2.000		92.0	65	120			
Surr: 4-Terphenyl-d14	1.95		2.000		97.3	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_170405A

The QC data in batch 79816 applies to the following samples: 1703266-21A, 1703266-22A, 1703266-24A, 1703266-25A, 1703266-26A, 1703266-27A, 1703266-28A, 1703266-29A, 1703266-30A, 1703266-32A, 1703266-33A, 1703266-34A, 1703266-35A, 1703266-36A, 1703266-37A, 1703266-38A, 1703266-39A, 1703266-40A, 1703266-41A, 1703266-43A

Sample ID **LCS-79816** Batch ID: **79816** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS8_170405A** Analysis Date: **4/5/2017 11:35:00 AM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.989	0.0100	1.000	0	98.9	46	125			
Acenaphthylene	1.00	0.0100	1.000	0	100	44	125			
Anthracene	1.04	0.0100	1.000	0	104	53	125			
Benzo[a]anthracene	0.979	0.0100	1.000	0	97.9	52	125			
Benzo[a]pyrene	0.987	0.0100	1.000	0	98.7	50	125			
Benzo[b]fluoranthene	1.05	0.0100	1.000	0	105	45	125			
Benzo[g,h,i]perylene	1.01	0.0100	1.000	0	101	38	126			
Benzo[k]fluoranthene	1.05	0.0100	1.000	0	105	45	125			
Chrysene	0.991	0.0100	1.000	0	99.1	53	125			
Dibenz[a,h]anthracene	1.10	0.0100	1.000	0	110	41	125			
Fluoranthene	1.03	0.0100	1.000	0	103	54	125			
Fluorene	1.03	0.0100	1.000	0	103	49	125			
Indeno[1,2,3-cd]pyrene	1.11	0.0100	1.000	0	111	38	125			
Naphthalene	0.888	0.0100	1.000	0	88.8	40	125			
Phenanthrene	0.995	0.0100	1.000	0	99.5	50	125			
Pyrene	1.01	0.0100	1.000	0	101	46	125			
Surr: 2-Fluorobiphenyl	0.994		1.000		99.4	43	125			
Surr: 4-Terphenyl-d14	1.01		1.000		101	32	125			

Sample ID **MB-79816** Batch ID: **79816** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS8_170405A** Analysis Date: **4/5/2017 12:05:00 PM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100								
Acenaphthylene	<0.00500	0.0100								
Anthracene	<0.00500	0.0100								
Benzo[a]anthracene	<0.00500	0.0100								
Benzo[a]pyrene	<0.00500	0.0100								
Benzo[b]fluoranthene	<0.00500	0.0100								
Benzo[g,h,i]perylene	<0.00500	0.0100								
Benzo[k]fluoranthene	<0.00500	0.0100								
Chrysene	<0.00500	0.0100								
Dibenz[a,h]anthracene	<0.00500	0.0100								
Fluoranthene	<0.00500	0.0100								
Fluorene	<0.00500	0.0100								
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100								
Naphthalene	<0.00500	0.0100								
Phenanthrene	<0.00500	0.0100								
Pyrene	<0.00500	0.0100								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS8_170405A**

Sample ID	**MB-79816**	Batch ID:	**79816**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**GCMS8_170405A**	Analysis Date:	**4/5/2017 12:05:00 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	0.809		1.000		80.9	43	125			
Surr: 4-Terphenyl-d14	0.848		1.000		84.8	32	125			

Sample ID	**DCS-79816**	Batch ID:	**79816**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**GCMS8_170405A**	Analysis Date:	**4/5/2017 1:05:00 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0118	0.0100	0.01000	0	118	20	200			
Acenaphthylene	0.0120	0.0100	0.01000	0	120	20	200			
Anthracene	0.0130	0.0100	0.01000	0	130	20	200			
Benzo[a]anthracene	0.0123	0.0100	0.01000	0	123	20	200			
Benzo[a]pyrene	0.00979	0.0100	0.01000	0	97.9	20	200			
Benzo[b]fluoranthene	0.0116	0.0100	0.01000	0	116	20	200			
Benzo[g,h,i]perylene	0.0116	0.0100	0.01000	0	116	20	200			
Benzo[k]fluoranthene	0.0125	0.0100	0.01000	0	125	20	200			
Chrysene	0.0124	0.0100	0.01000	0	124	20	200			
Dibenz[a,h]anthracene	0.0120	0.0100	0.01000	0	120	20	200			
Fluoranthene	0.0125	0.0100	0.01000	0	125	20	200			
Fluorene	0.0119	0.0100	0.01000	0	119	20	200			
Indeno[1,2,3-cd]pyrene	0.0113	0.0100	0.01000	0	113	20	200			
Naphthalene	0.0128	0.0100	0.01000	0	128	20	200			
Phenanthrene	0.0125	0.0100	0.01000	0	125	20	200			
Pyrene	0.0130	0.0100	0.01000	0	130	20	200			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS8_170405A**

Sample ID	**ICV-170405**	Batch ID:	**R91283**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS8_170405A**	Analysis Date:	**4/5/2017 11:05:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.97	0.0100	2.000	0	98.6	80	120			
Acenaphthylene	2.02	0.0100	2.000	0	101	80	120			
Anthracene	1.95	0.0100	2.000	0	97.5	80	120			
Benzo[a]anthracene	1.84	0.0100	2.000	0	91.9	80	120			
Benzo[a]pyrene	1.94	0.0100	2.000	0	96.9	80	120			
Benzo[b]fluoranthene	2.03	0.0100	2.000	0	102	80	120			
Benzo[g,h,i]perylene	1.88	0.0100	2.000	0	94.1	80	120			
Benzo[k]fluoranthene	1.96	0.0100	2.000	0	97.8	80	120			
Chrysene	1.84	0.0100	2.000	0	92.2	80	120			
Dibenz[a,h]anthracene	2.11	0.0100	2.000	0	105	80	120			
Fluoranthene	1.89	0.0100	2.000	0	94.4	80	120			
Fluorene	1.96	0.0100	2.000	0	98.1	80	120			
Indeno[1,2,3-cd]pyrene	2.13	0.0100	2.000	0	106	80	120			
Naphthalene	1.84	0.0100	2.000	0	92.2	80	120			
Phenanthrene	1.87	0.0100	2.000	0	93.5	80	120			
Pyrene	1.86	0.0100	2.000	0	92.8	80	120			
Surr: 2-Fluorobiphenyl	1.98		2.000		98.8	65	120			
Surr: 4-Terphenyl-d14	1.84		2.000		92.0	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_170406A

The QC data in batch 79816 applies to the following samples: 1703266-21A, 1703266-22A, 1703266-24A, 1703266-25A, 1703266-26A, 1703266-27A, 1703266-28A, 1703266-29A, 1703266-30A, 1703266-32A, 1703266-33A, 1703266-34A, 1703266-35A, 1703266-36A, 1703266-37A, 1703266-38A, 1703266-39A, 1703266-40A, 1703266-41A, 1703266-43A

Sample ID **SB-170406** Batch ID: **79816** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **SBLK** Run ID: **GCMS8_170406A** Analysis Date: **4/6/2017 1:41:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100	0							
Acenaphthylene	<0.00500	0.0100	0							
Anthracene	<0.00500	0.0100	0							
Benzo[a]anthracene	<0.00500	0.0100	0							
Benzo[a]pyrene	<0.00500	0.0100	0							
Benzo[b]fluoranthene	<0.00500	0.0100	0							
Benzo[g,h,i]perylene	<0.00500	0.0100	0							
Benzo[k]fluoranthene	<0.00500	0.0100	0							
Chrysene	<0.00500	0.0100	0							
Dibenz[a,h]anthracene	<0.00500	0.0100	0							
Fluoranthene	<0.00500	0.0100	0							
Fluorene	<0.00500	0.0100	0							
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100	0							
Naphthalene	<0.00500	0.0100	0							
Phenanthrene	<0.00500	0.0100	0							
Pyrene	<0.00500	0.0100	0							

Sample ID **1703266-39AMS** Batch ID: **79816** TestNo: **SW8270D-LL** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GCMS8_170406A** Analysis Date: **4/6/2017 7:06:00 PM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.86	0.0132	1.322	0	141	46	125			S
Acenaphthylene	1.89	0.0132	1.322	0.03931	140	44	125			S
Anthracene	1.91	0.0132	1.322	0.03906	142	53	125			S
Benzo[a]anthracene	1.83	0.0132	1.322	0.1040	131	52	125			S
Benzo[a]pyrene	2.01	0.0132	1.322	0.1626	140	50	125			S
Benzo[b]fluoranthene	2.15	0.0132	1.322	0.1921	148	45	125			S
Benzo[g,h,i]perylene	1.53	0.0132	1.322	0.1974	101	38	126			
Benzo[k]fluoranthene	2.04	0.0132	1.322	0.09801	147	45	125			S
Chrysene	1.82	0.0132	1.322	0.1470	126	53	125			S
Dibenz[a,h]anthracene	1.78	0.0132	1.322	0.02507	133	41	125			S
Fluoranthene	2.05	0.0132	1.322	0.2050	140	54	125			S
Fluorene	1.89	0.0132	1.322	0.007143	142	49	125			S
Indeno[1,2,3-cd]pyrene	1.89	0.0132	1.322	0.1761	129	38	125			S
Naphthalene	1.54	0.0132	1.322	0	117	40	125			
Phenanthrene	1.90	0.0132	1.322	0.04339	140	50	125			S
Pyrene	2.04	0.0132	1.322	0.1913	140	46	125			S
Surr: 2-Fluorobiphenyl	1.18		1.322		89.5	43	125			
Surr: 4-Terphenyl-d14	1.25		1.322		94.8	32	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS8_170406A**

Sample ID **1703266-39AMSD**	Batch ID: **79816**	TestNo: **SW8270D-LL**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GCMS8_170406A**	Analysis Date: **4/6/2017 7:36:00 PM**	Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.83	0.0127	1.273	0	144	46	125	1.26	30	S
Acenaphthylene	1.82	0.0127	1.273	0.03931	140	44	125	3.43	30	S
Anthracene	2.07	0.0127	1.273	0.03906	160	53	125	7.88	30	S
Benzo[a]anthracene	2.39	0.0127	1.273	0.1040	179	52	125	26.5	30	S
Benzo[a]pyrene	2.54	0.0127	1.273	0.1626	187	50	125	23.1	30	S
Benzo[b]fluoranthene	2.75	0.0127	1.273	0.1921	201	45	125	24.6	30	S
Benzo[g,h,i]perylene	1.71	0.0127	1.273	0.1974	119	38	126	11.1	30	
Benzo[k]fluoranthene	2.30	0.0127	1.273	0.09801	173	45	125	11.8	30	S
Chrysene	2.40	0.0127	1.273	0.1470	177	53	125	27.5	30	S
Dibenz[a,h]anthracene	1.69	0.0127	1.273	0.02507	131	41	125	5.04	30	S
Fluoranthene	3.52	0.0127	1.273	0.2050	261	54	125	52.7	30	SR
Fluorene	1.90	0.0127	1.273	0.007143	149	49	125	0.902	30	S
Indeno[1,2,3-cd]pyrene	2.14	0.0127	1.273	0.1761	154	38	125	12.6	30	S
Naphthalene	1.46	0.0127	1.273	0	115	40	125	5.17	30	
Phenanthrene	2.83	0.0127	1.273	0.04339	219	50	125	39.3	30	SR
Pyrene	3.02	0.0127	1.273	0.1913	222	46	125	38.7	30	SR
Surr: 2-Fluorobiphenyl	1.12		1.273		88.2	43	125	0	0	
Surr: 4-Terphenyl-d14	1.19		1.273		93.2	32	125	0	0	

Sample ID **SB-170407**	Batch ID: **79816**	TestNo: **SW8270D-LL**	Units: **mg/Kg**
SampType: **SBLK**	Run ID: **GCMS8_170406A**	Analysis Date: **4/7/2017 10:47:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100	0							
Acenaphthylene	0.00820	0.0100	0							
Anthracene	0.00615	0.0100	0							
Benzo[a]anthracene	<0.00500	0.0100	0							
Benzo[a]pyrene	<0.00500	0.0100	0							
Benzo[b]fluoranthene	<0.00500	0.0100	0							
Benzo[g,h,i]perylene	0.0308	0.0100	0							
Benzo[k]fluoranthene	<0.00500	0.0100	0							
Chrysene	<0.00500	0.0100	0							
Dibenz[a,h]anthracene	0.0209	0.0100	0							
Fluoranthene	<0.00500	0.0100	0							
Fluorene	<0.00500	0.0100	0							
Indeno[1,2,3-cd]pyrene	0.0224	0.0100	0							
Naphthalene	<0.00500	0.0100	0							
Phenanthrene	<0.00500	0.0100	0							
Pyrene	<0.00500	0.0100	0							
Surr: 2-Fluorobiphenyl	0.00267		0							
Surr: 4-Terphenyl-d14	0.00744		0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS8_170406A**

Sample ID **ICV-170406** Batch ID: **R91313** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS8_170406A** Analysis Date: **4/6/2017 1:11:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	2.02	0.0100	2.000	0	101	80	120			
Acenaphthylene	2.04	0.0100	2.000	0	102	80	120			
Anthracene	1.92	0.0100	2.000	0	96.1	80	120			
Benzo[a]anthracene	1.83	0.0100	2.000	0	91.5	80	120			
Benzo[a]pyrene	1.94	0.0100	2.000	0	97.0	80	120			
Benzo[b]fluoranthene	2.10	0.0100	2.000	0	105	80	120			
Benzo[g,h,i]perylene	1.91	0.0100	2.000	0	95.3	80	120			
Benzo[k]fluoranthene	2.04	0.0100	2.000	0	102	80	120			
Chrysene	1.85	0.0100	2.000	0	92.3	80	120			
Dibenz[a,h]anthracene	2.14	0.0100	2.000	0	107	80	120			
Fluoranthene	1.87	0.0100	2.000	0	93.7	80	120			
Fluorene	2.00	0.0100	2.000	0	100	80	120			
Indeno[1,2,3-cd]pyrene	2.22	0.0100	2.000	0	111	80	120			
Naphthalene	1.85	0.0100	2.000	0	92.6	80	120			
Phenanthrene	1.88	0.0100	2.000	0	94.2	80	120			
Pyrene	1.84	0.0100	2.000	0	92.2	80	120			
Surr: 2-Fluorobiphenyl	1.97		2.000		98.6	65	120			
Surr: 4-Terphenyl-d14	1.86		2.000		93.2	65	120			

Sample ID **ICV-170407** Batch ID: **R91313** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS8_170406A** Analysis Date: **4/7/2017 10:17:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	2.11	0.0100	2.000	0	105	80	120			
Acenaphthylene	2.16	0.0100	2.000	0	108	80	120			
Anthracene	2.07	0.0100	2.000	0	103	80	120			
Benzo[a]anthracene	1.97	0.0100	2.000	0	98.6	80	120			
Benzo[a]pyrene	2.04	0.0100	2.000	0	102	80	120			
Benzo[b]fluoranthene	2.32	0.0100	2.000	0	116	80	120			
Benzo[g,h,i]perylene	1.50	0.0100	2.000	0	74.8	80	120			S
Benzo[k]fluoranthene	2.24	0.0100	2.000	0	112	80	120			
Chrysene	1.98	0.0100	2.000	0	98.9	80	120			
Dibenz[a,h]anthracene	1.90	0.0100	2.000	0	95.2	80	120			
Fluoranthene	2.00	0.0100	2.000	0	99.9	80	120			
Fluorene	2.11	0.0100	2.000	0	105	80	120			
Indeno[1,2,3-cd]pyrene	1.85	0.0100	2.000	0	92.4	80	120			
Naphthalene	1.96	0.0100	2.000	0	97.8	80	120			
Phenanthrene	2.04	0.0100	2.000	0	102	80	120			
Pyrene	1.96	0.0100	2.000	0	98.1	80	120			
Surr: 2-Fluorobiphenyl	2.05		2.000		102	65	120			
Surr: 4-Terphenyl-d14	1.95		2.000		97.6	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_170412A

The QC data in batch 79888 applies to the following samples: 1703266-17A, 1703266-18A, 1703266-19A, 1703266-20A

Sample ID **LCS-79888** Batch ID: **79888** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS8_170412A** Analysis Date: **4/12/2017 9:57:00 AM** Prep Date: **4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.922	0.0100	1.000	0	92.2	46	125			
Acenaphthylene	0.949	0.0100	1.000	0	94.9	44	125			
Anthracene	0.965	0.0100	1.000	0	96.5	53	125			
Benzo[a]anthracene	0.870	0.0100	1.000	0	87.0	52	125			
Benzo[a]pyrene	0.881	0.0100	1.000	0	88.1	50	125			
Benzo[b]fluoranthene	1.01	0.0100	1.000	0	101	45	125			
Benzo[g,h,i]perylene	0.926	0.0100	1.000	0	92.6	38	126			
Benzo[k]fluoranthene	0.979	0.0100	1.000	0	97.9	45	125			
Chrysene	0.881	0.0100	1.000	0	88.1	53	125			
Dibenz[a,h]anthracene	1.02	0.0100	1.000	0	102	41	125			
Fluoranthene	0.934	0.0100	1.000	0	93.4	54	125			
Fluorene	0.920	0.0100	1.000	0	92.0	49	125			
Indeno[1,2,3-cd]pyrene	1.05	0.0100	1.000	0	105	38	125			
Naphthalene	0.834	0.0100	1.000	0	83.4	40	125			
Phenanthrene	0.903	0.0100	1.000	0	90.3	50	125			
Pyrene	0.921	0.0100	1.000	0	92.1	46	125			
Surr: 2-Fluorobiphenyl	0.946		1.000		94.6	43	125			
Surr: 4-Terphenyl-d14	0.931		1.000		93.1	32	125			

Sample ID **MB-79888** Batch ID: **79888** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS8_170412A** Analysis Date: **4/12/2017 10:27:00 AM** Prep Date: **4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100								
Acenaphthylene	<0.00500	0.0100								
Anthracene	<0.00500	0.0100								
Benzo[a]anthracene	<0.00500	0.0100								
Benzo[a]pyrene	<0.00500	0.0100								
Benzo[b]fluoranthene	<0.00500	0.0100								
Benzo[g,h,i]perylene	<0.00500	0.0100								
Benzo[k]fluoranthene	<0.00500	0.0100								
Chrysene	<0.00500	0.0100								
Dibenz[a,h]anthracene	<0.00500	0.0100								
Fluoranthene	<0.00500	0.0100								
Fluorene	<0.00500	0.0100								
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100								
Naphthalene	<0.00500	0.0100								
Phenanthrene	<0.00500	0.0100								
Pyrene	<0.00500	0.0100								
Surr: 2-Fluorobiphenyl	0.918		1.000		91.8	43	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS8_170412A**

Sample ID	**MB-79888**	Batch ID:	**79888**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**GCMS8_170412A**	Analysis Date:	**4/12/2017 10:27:00 AM**	Prep Date:	**4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	0.911		1.000		91.1	32	125			

Sample ID	**1703266-20AMS**	Batch ID:	**79888**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**GCMS8_170412A**	Analysis Date:	**4/12/2017 1:25:00 PM**	Prep Date:	**4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.18	0.0108	1.081	0.03355	106	46	125			
Acenaphthylene	1.43	0.0108	1.081	0.1884	114	44	125			
Anthracene	1.39	0.0108	1.081	0.2228	108	53	125			
Benzo[a]anthracene	1.96	0.0108	1.081	0.7338	114	52	125			
Benzo[a]pyrene	2.04	0.0108	1.081	0.9074	105	50	125			
Benzo[b]fluoranthene	2.04	0.0108	1.081	0.7756	117	45	125			
Benzo[g,h,i]perylene	1.57	0.0108	1.081	0.6289	87.1	38	126			
Benzo[k]fluoranthene	1.63	0.0108	1.081	0.4364	110	45	125			
Chrysene	1.91	0.0108	1.081	0.7516	108	53	125			
Dibenz[a,h]anthracene	1.25	0.0108	1.081	0.1097	105	41	125			
Fluoranthene	3.13	0.0108	1.081	1.720	131	54	125			S
Fluorene	1.36	0.0108	1.081	0.04823	122	49	125			
Indeno[1,2,3-cd]pyrene	1.92	0.0108	1.081	0.7546	108	38	125			
Naphthalene	1.05	0.0108	1.081	0.01630	95.7	40	125			
Phenanthrene	1.94	0.0108	1.081	0.7156	113	50	125			
Pyrene	2.93	0.0108	1.081	1.601	123	46	125			
Surr: 2-Fluorobiphenyl	1.14		1.081		105	43	125			
Surr: 4-Terphenyl-d14	1.12		1.081		103	32	125			

Sample ID	**1703266-20AMSD**	Batch ID:	**79888**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**GCMS8_170412A**	Analysis Date:	**4/12/2017 1:55:00 PM**	Prep Date:	**4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.10	0.0107	1.072	0.03355	99.9	46	125	6.58	30	
Acenaphthylene	1.32	0.0107	1.072	0.1884	106	44	125	7.43	30	
Anthracene	1.36	0.0107	1.072	0.2228	106	53	125	1.91	30	
Benzo[a]anthracene	1.93	0.0107	1.072	0.7338	112	52	125	1.59	30	
Benzo[a]pyrene	2.09	0.0107	1.072	0.9074	111	50	125	2.65	30	
Benzo[b]fluoranthene	2.07	0.0107	1.072	0.7756	121	45	125	1.66	30	
Benzo[g,h,i]perylene	1.54	0.0107	1.072	0.6289	84.6	38	126	2.29	30	
Benzo[k]fluoranthene	1.58	0.0107	1.072	0.4364	107	45	125	2.86	30	
Chrysene	1.88	0.0107	1.072	0.7516	105	53	125	1.94	30	
Dibenz[a,h]anthracene	1.15	0.0107	1.072	0.1097	97.4	41	125	7.72	30	
Fluoranthene	3.60	0.0107	1.072	1.720	175	54	125	13.8	30	S
Fluorene	1.21	0.0107	1.072	0.04823	108	49	125	12.1	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_170412A

Sample ID	**1703266-20AMSD**	Batch ID:	**79888**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**GCMS8_170412A**	Analysis Date:	**4/12/2017 1:55:00 PM**	Prep Date:	**4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Indeno[1,2,3-cd]pyrene	1.82	0.0107	1.072	0.7546	99.0	38	125	5.42	30	
Naphthalene	0.987	0.0107	1.072	0.01630	90.6	40	125	6.17	30	
Phenanthrene	2.10	0.0107	1.072	0.7156	129	50	125	8.15	30	S
Pyrene	3.33	0.0107	1.072	1.601	161	46	125	12.6	30	S
Surr: 2-Fluorobiphenyl	1.05		1.072		98.2	43	125	0	0	
Surr: 4-Terphenyl-d14	1.15		1.072		107	32	125	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS8_170412A**

Sample ID	**ICV-170412**	Batch ID:	**R91415**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS8_170412A**	Analysis Date:	**4/12/2017 9:28:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	2.07	0.0100	2.000	0	103	80	120			
Acenaphthylene	2.14	0.0100	2.000	0	107	80	120			
Anthracene	1.99	0.0100	2.000	0	99.6	80	120			
Benzo[a]anthracene	1.90	0.0100	2.000	0	95.1	80	120			
Benzo[a]pyrene	2.03	0.0100	2.000	0	102	80	120			
Benzo[b]fluoranthene	2.24	0.0100	2.000	0	112	80	120			
Benzo[g,h,i]perylene	2.02	0.0100	2.000	0	101	80	120			
Benzo[k]fluoranthene	2.15	0.0100	2.000	0	107	80	120			
Chrysene	1.91	0.0100	2.000	0	95.7	80	120			
Dibenz[a,h]anthracene	2.26	0.0100	2.000	0	113	80	120			
Fluoranthene	1.98	0.0100	2.000	0	98.8	80	120			
Fluorene	2.10	0.0100	2.000	0	105	80	120			
Indeno[1,2,3-cd]pyrene	2.28	0.0100	2.000	0	114	80	120			
Naphthalene	1.91	0.0100	2.000	0	95.6	80	120			
Phenanthrene	1.98	0.0100	2.000	0	98.9	80	120			
Pyrene	1.94	0.0100	2.000	0	97.1	80	120			
Surr: 2-Fluorobiphenyl	2.07		2.000		104	65	120			
Surr: 4-Terphenyl-d14	1.93		2.000		96.6	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_170405A**

The QC data in batch 79861 applies to the following samples: 1703266-30A, 1703266-41A

Sample ID	**1703224-03D DUP**	Batch ID:	**79861**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_170405A**	Analysis Date:	**4/6/2017 8:43:00 AM**	Prep Date:	**4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	20.0	0	0	20.08				0.294	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_170405B**

The QC data in batch 79862 applies to the following samples: 1703266-01A, 1703266-02A

Sample ID	**1703266-02A DUP**	Batch ID:	**79862**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_170405B**	Analysis Date:	**4/6/2017 8:43:00 AM**	Prep Date:	**4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	28.7	0	0	29.11				1.44	30	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_170407A

The QC data in batch 79902 applies to the following samples: 1703266-03A, 1703266-04A, 1703266-05A, 1703266-06A, 1703266-07A, 1703266-08A, 1703266-09A, 1703266-10A, 1703266-11A, 1703266-12A, 1703266-13A, 1703266-14A, 1703266-15A, 1703266-16A, 1703266-17A, 1703266-18A, 1703266-19A, 1703266-20A, 1703266-21A, 1703266-22A

Sample ID	**1703266-04A DUP**	Batch ID:	**79902**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_170407A**	Analysis Date:	**4/10/2017 8:42:00 AM**	Prep Date:	**4/7/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	20.0	0	0	21.11				5.25	30	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_170407B

The QC data in batch 79903 applies to the following samples: 1703266-24A, 1703266-25A, 1703266-26A, 1703266-27A, 1703266-28A, 1703266-29A, 1703266-32A, 1703266-33A, 1703266-34A, 1703266-35A, 1703266-36A, 1703266-37A, 1703266-38A, 1703266-39A, 1703266-40A, 1703266-43A

Sample ID	**1703266-38A DUP**	Batch ID:	**79903**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_170407B**	Analysis Date:	**4/10/2017 8:42:00 AM**	Prep Date:	**4/7/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	11.8	0	0	11.54				1.80	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_170410C**

The QC data in batch 79937 applies to the following samples: 1703266-31A, 1703266-42A

Sample ID	**1703266-42A DUP**	Batch ID:	**79937**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_170410C**	Analysis Date:	**4/11/2017 10:21:00 AM**	Prep Date:	**4/10/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	35.6	0	0	37.23				4.55	30	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

DHL Analytical, Inc.

Date: *18-Apr-17*

CLIENT: AECOM
Work Order: 1703266
Project: GLO - Galveston

MQL SUMMARY REPORT

TestNo: SW6020A	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Antimony	0.500	1.00
Arsenic	0.500	1.00
Barium	0.500	2.00
Beryllium	0.100	0.300
Cadmium	0.100	0.300
Chromium	0.500	2.00
Lead	0.100	0.300
Nickel	0.500	2.00
Selenium	0.150	0.500
Silver	0.100	0.200

TestNo: SW6020A	MDL	MQL
Analyte	**mg/L**	**mg/L**
Antimony	0.000800	0.00250
Arsenic	0.00200	0.00500
Barium	0.00300	0.0100
Beryllium	0.000300	0.00100
Cadmium	0.000300	0.00100
Chromium	0.00200	0.00500
Lead	0.000300	0.00100
Nickel	0.00300	0.0100
Selenium	0.00200	0.00500
Silver	0.00100	0.00200

TestNo: SW7471B	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Mercury	0.0160	0.0400

TestNo: SW7470A	MDL	MQL
Analyte	**mg/L**	**mg/L**
Mercury	0.0000800	0.000200

TestNo: SW8270D-LL	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Acenaphthene	0.00500	0.0100
Acenaphthylene	0.00500	0.0100
Anthracene	0.00500	0.0100
Benzo[a]anthracene	0.00500	0.0100
Benzo[a]pyrene	0.00500	0.0100
Benzo[b]fluoranthene	0.00500	0.0100
Benzo[g,h,i]perylene	0.00500	0.0100
Benzo[k]fluoranthene	0.00500	0.0100
Chrysene	0.00500	0.0100
Dibenz[a,h]anthracene	0.00500	0.0100
Fluoranthene	0.00500	0.0100
Fluorene	0.00500	0.0100
Indeno[1,2,3-cd]pyrene	0.00500	0.0100
Naphthalene	0.00500	0.0100
Phenanthrene	0.00500	0.0100
Pyrene	0.00500	0.0100

TestNo: SW8270D-LL	MDL	MQL
Analyte	**mg/L**	**mg/L**
Acenaphthene	0.0000250	0.0000500
Acenaphthylene	0.0000250	0.0000500
Anthracene	0.0000250	0.0000500
Benzo[a]anthracene	0.0000250	0.0000500
Benzo[a]pyrene	0.0000250	0.0000500
Benzo[b]fluoranthene	0.0000250	0.0000500
Benzo[g,h,i]perylene	0.0000250	0.0000500
Benzo[k]fluoranthene	0.0000250	0.0000500
Chrysene	0.0000250	0.0000500
Dibenz[a,h]anthracene	0.0000250	0.0000500
Fluoranthene	0.0000250	0.0000500
Fluorene	0.0000250	0.0000500
Indeno[1,2,3-cd]pyrene	0.0000250	0.0000500
Naphthalene	0.0000250	0.0000500
Phenanthrene	0.0000250	0.0000500
Pyrene	0.0000250	0.0000500

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

DHL Analytical, Inc.
Laboratory Review Checklist: Reportable Data

Project Name: Galveston	**Date:** 4/13/17
Reviewer Name: Carlos Castro	**Laboratory Work Order:** 1703267
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				**R1-01**
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?		X			**R5-04**
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			**R7-03**
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.
Laboratory Review Checklist (continued): Supporting Data

Project Name: Galveston | **Date:** 4/13/17

Reviewer Name: Carlos Castro | **Laboratory Work Order:** 1703267

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?		X			**S10-02**
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
- a) Items consistent with NELAC Chapter 5,
- b) dilution factors,
- c) preparation methods,
- d) cleanup methods, and
- e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:
- a) Calculated recovery (%R), and
- b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
- a) LCS spiking amounts,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d) Calculated %Rs and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits

R8 Laboratory analytical duplicate (if applicable) recovery and precision:
- a) The amount of analyte measured in the duplicate,
- b) The calculated RPD, and
- c) The laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-6, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager		04/13/17
Scott Schroeder – Technical Director	Signature	Date

DHL Analytical, Inc. **Date:** *13-Apr-17*

CLIENT: AECOM
Project: Galveston
Lab Order: 1703267

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7471B - Mercury Analysis
Method SW8270D-LL - PAH Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The sample was received and log-in performed on 3/31/17. A total of 1 sample was received. The sample arrived in good condition and was properly packaged.

Exception Report R5-04

For Metals analysis performed on 4/7/17 Lead was detected below the reporting limit in the method blank (MB-79878). The sample was detected greater than 10 times the amount in the blank for this analyte. No further corrective actions were taken.

Exception Report R7-03

For PAH analysis performed on 4/12/17 the matrix spike and matrix spike duplicate recoveries were above control limits for a total of three compounds. sixteen compounds. These are flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for these compounds. No further corrective actions were taken.

Exception Report S10-02

For Metals analysis the recoveries of Lead and Selenium for the Detectability Check Standard (DCS1-79610) were out of DHL Analytical's control limits, however, the recoveries were within TRRP specifications. These are flagged accordingly in the QC summary report. No further corrective actions were taken.

DHL Analytical, Inc.

Date: *13-Apr-17*

CLIENT: AECOM
Project: Galveston
Lab Order: 1703267

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1703267-01	INC-SB71		03/30/17 04:20 PM	3/31/2017

DHL Analytical, Inc.

13-Apr-17

Lab Order: 1703267
Client: AECOM
Project: Galveston

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1703267-01A	INC-SB71	03/30/17 04:20 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/05/17 10:26 AM	79854
	INC-SB71	03/30/17 04:20 PM	Soil	D2216	Moisture Preparation	04/10/17 01:59 PM	79935
	INC-SB71	03/30/17 04:20 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/06/17 02:18 PM	79888
	INC-SB71	03/30/17 04:20 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/06/17 09:47 AM	79878

DHL Analytical, Inc.

13-Apr-17

Lab Order: 1703267
Client: AECOM
Project: Galveston

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1703267-01A	INC-SB71	Soil	SW8270D-LL	PAHs: GC/MS	79888	1	04/12/17 12:25 PM	GCMS8_170412A
	INC-SB71	Soil	D2216	Percent Moisture	79935	1	04/11/17 10:21 AM	PMOIST_170410B
	INC-SB71	Soil	SW7471B	Total Mercury: Soil/Solid	79854	1	04/06/17 10:28 AM	CETAC2_HG_170406A
	INC-SB71	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79878	5	04/07/17 11:49 AM	ICP-MS5_170407A

DHL Analytical, Inc.

Date: *13-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-SB71
Project:	Galveston	**Lab ID:**	1703267-01
Project No:	60420789	**Collection Date:**	03/30/17 04:20 PM
Lab Order:	1703267	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **CVD**
Antimony	<0.508	0.508	1.02		mg/Kg-dry	5	04/07/17 11:49 AM
Arsenic	3.96	0.508	1.02		mg/Kg-dry	5	04/07/17 11:49 AM
Barium	68.6	0.508	2.03		mg/Kg-dry	5	04/07/17 11:49 AM
Beryllium	0.269	0.102	0.305	J	mg/Kg-dry	5	04/07/17 11:49 AM
Cadmium	0.118	0.102	0.305	J	mg/Kg-dry	5	04/07/17 11:49 AM
Chromium	12.9	0.508	2.03		mg/Kg-dry	5	04/07/17 11:49 AM
Lead	22.9	0.102	0.305		mg/Kg-dry	5	04/07/17 11:49 AM
Nickel	9.48	0.508	2.03		mg/Kg-dry	5	04/07/17 11:49 AM
Selenium	0.975	0.152	0.508		mg/Kg-dry	5	04/07/17 11:49 AM
Silver	<0.102	0.102	0.203		mg/Kg-dry	5	04/07/17 11:49 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0199	0.0164	0.0411	J	mg/Kg-dry	1	04/06/17 10:28 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0136	0.00533	0.0107		mg/Kg-dry	1	04/12/17 12:25 PM
Acenaphthylene	0.0168	0.00533	0.0107		mg/Kg-dry	1	04/12/17 12:25 PM
Anthracene	0.0481	0.00533	0.0107		mg/Kg-dry	1	04/12/17 12:25 PM
Benzo[a]anthracene	0.131	0.00533	0.0107		mg/Kg-dry	1	04/12/17 12:25 PM
Benzo[a]pyrene	0.138	0.00533	0.0107		mg/Kg-dry	1	04/12/17 12:25 PM
Benzo[b]fluoranthene	0.144	0.00533	0.0107		mg/Kg-dry	1	04/12/17 12:25 PM
Benzo[g,h,i]perylene	0.105	0.00533	0.0107		mg/Kg-dry	1	04/12/17 12:25 PM
Benzo[k]fluoranthene	0.0785	0.00533	0.0107		mg/Kg-dry	1	04/12/17 12:25 PM
Chrysene	0.140	0.00533	0.0107		mg/Kg-dry	1	04/12/17 12:25 PM
Dibenz[a,h]anthracene	0.0169	0.00533	0.0107		mg/Kg-dry	1	04/12/17 12:25 PM
Fluoranthene	0.357	0.00533	0.0107		mg/Kg-dry	1	04/12/17 12:25 PM
Fluorene	0.0116	0.00533	0.0107		mg/Kg-dry	1	04/12/17 12:25 PM
Indeno[1,2,3-cd]pyrene	0.118	0.00533	0.0107		mg/Kg-dry	1	04/12/17 12:25 PM
Naphthalene	<0.00533	0.00533	0.0107		mg/Kg-dry	1	04/12/17 12:25 PM
Phenanthrene	0.178	0.00533	0.0107		mg/Kg-dry	1	04/12/17 12:25 PM
Pyrene	0.267	0.00533	0.0107		mg/Kg-dry	1	04/12/17 12:25 PM
Surr: 2-Fluorobiphenyl	101	0	43-125		%REC	1	04/12/17 12:25 PM
Surr: 4-Terphenyl-d14	101	0	32-125		%REC	1	04/12/17 12:25 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	7.58	0	0		WT%	1	04/11/17 10:21 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *13-Apr-17*

CLIENT: AECOM
Work Order: 1703267
Project: Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170324A

Sample ID	**DCS-79594**	Batch ID:	**79594**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**CETAC2_HG_170324A**	Analysis Date:	**3/24/2017 1:12:32 PM**	Prep Date:	**3/20/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0426	0.0400	0.04000	0	106	80	124	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703267
Project: Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170406A**

The QC data in batch 79854 applies to the following samples: 1703267-01A

Sample ID	**MB-79854**	Batch ID:	**79854**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**CETAC2_HG_170406A**	Analysis Date:	**4/6/2017 10:21:25 AM**	Prep Date:	**4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0160	0.0400								

Sample ID	**LCS-79854**	Batch ID:	**79854**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**LCS**	Run ID:	**CETAC2_HG_170406A**	Analysis Date:	**4/6/2017 10:23:40 AM**	Prep Date:	**4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.220	0.0400	0.2000	0	110	85	115			

Sample ID	**LCSD-79854**	Batch ID:	**79854**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**LCSD**	Run ID:	**CETAC2_HG_170406A**	Analysis Date:	**4/6/2017 10:25:56 AM**	Prep Date:	**4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.221	0.0400	0.2000	0	110	85	115	0.454	25	

Sample ID	**1704005-08A SD**	Batch ID:	**79854**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**SD**	Run ID:	**CETAC2_HG_170406A**	Analysis Date:	**4/6/2017 11:12:59 AM**	Prep Date:	**4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.516	1.27	0	0.4698				9.38	10	

Sample ID	**1704005-08A PDS**	Batch ID:	**79854**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**PDS**	Run ID:	**CETAC2_HG_170406A**	Analysis Date:	**4/6/2017 11:15:15 AM**	Prep Date:	**4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	2.05	0.253	1.583	0.4698	99.5	85	115			

Sample ID	**1704005-08A MS**	Batch ID:	**79854**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**CETAC2_HG_170406A**	Analysis Date:	**4/6/2017 11:17:32 AM**	Prep Date:	**4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.669	0.214	0.2142	0.4698	93.2	80	120			

Sample ID	**1704005-08A MSD**	Batch ID:	**79854**	TestNo:	**SW7471B**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**CETAC2_HG_170406A**	Analysis Date:	**4/6/2017 11:19:48 AM**	Prep Date:	**4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.737	0.246	0.2457	0.4698	109	80	120	9.62	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703267
Project: Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170406A

Sample ID	**ICV-170406**	Batch ID:	**R91288**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**CETAC2_HG_170406A**	Analysis Date:	**4/6/2017 10:16:51 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00406	0.0400	0.004000	0	102	90	110			

Sample ID	**CCV1-170406**	Batch ID:	**R91288**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170406A**	Analysis Date:	**4/6/2017 10:57:42 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00202	0.0400	0.002000	0	101	90	110			

Sample ID	**CCV2-170406**	Batch ID:	**R91288**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170406A**	Analysis Date:	**4/6/2017 11:22:06 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00200	0.0400	0.002000	0	100	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703267
Project: Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170323D**

Sample ID	**DCS1-79610**	Batch ID:	**79610**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**ICP-MS5_170323D**	Analysis Date:	**3/23/2017 10:14:00 AM**	Prep Date:	**3/20/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.259	0.300	0.2500	0	104	80	120	0	0	
Cadmium	0.246	0.300	0.2500	0	98.5	80	120	0	0	
Lead	0.403	0.300	0.2500	0	161	80	120	0	0	S
Selenium	0.172	0.500	0.2500	0	68.6	80	120	0	0	S
Silver	0.239	0.200	0.2500	0	95.6	80	120	0	0	

Sample ID	**DCS2-79610**	Batch ID:	**79610**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS2**	Run ID:	**ICP-MS5_170323D**	Analysis Date:	**3/23/2017 10:16:00 AM**	Prep Date:	**3/20/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	1.22	1.00	1.250	0	97.9	80	120	0	0	
Arsenic	1.30	1.00	1.250	0	104	80	120	0	0	
Barium	1.27	2.00	1.250	0	102	80	120	0	0	
Chromium	1.41	2.00	1.250	0	113	80	120	0	0	
Nickel	1.49	2.00	1.250	0	119	80	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703267
Project: Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170407A**

The QC data in batch 79878 applies to the following samples: 1703267-01A

Sample ID **MB-79878** Batch ID: **79878** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS5_170407A** Analysis Date: **4/7/2017 11:42:00 AM** Prep Date: **4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.500	1.00								
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Beryllium	<0.100	0.300								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Lead	0.104	0.300								
Nickel	<0.500	2.00								
Selenium	<0.150	0.500								
Silver	<0.100	0.200								

Sample ID **LCS-79878** Batch ID: **79878** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS5_170407A** Analysis Date: **4/7/2017 11:44:00 AM** Prep Date: **4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	51.1	1.00	50.00	0	102	80	120			
Arsenic	50.7	1.00	50.00	0	101	80	120			
Barium	48.4	2.00	50.00	0	96.8	80	120			
Beryllium	50.2	0.300	50.00	0	100	80	120			
Cadmium	48.4	0.300	50.00	0	96.7	80	120			
Chromium	51.7	2.00	50.00	0	103	80	120			
Lead	51.5	0.300	50.00	0	103	80	120			
Nickel	52.2	2.00	50.00	0	104	80	120			
Selenium	51.0	0.500	50.00	0	102	80	120			
Silver	52.7	0.200	50.00	0	105	80	120			

Sample ID **LCSD-79878** Batch ID: **79878** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS5_170407A** Analysis Date: **4/7/2017 11:46:00 AM** Prep Date: **4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	52.0	1.00	50.00	0	104	80	120	1.65	25	
Arsenic	51.6	1.00	50.00	0	103	80	120	1.76	25	
Barium	48.8	2.00	50.00	0	97.6	80	120	0.784	25	
Beryllium	51.4	0.300	50.00	0	103	80	120	2.42	25	
Cadmium	49.3	0.300	50.00	0	98.7	80	120	1.97	25	
Chromium	52.4	2.00	50.00	0	105	80	120	1.23	25	
Lead	52.3	0.300	50.00	0	105	80	120	1.57	25	
Nickel	53.2	2.00	50.00	0	106	80	120	2.04	25	
Selenium	51.7	0.500	50.00	0	103	80	120	1.30	25	
Silver	53.3	0.200	50.00	0	107	80	120	1.15	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703267
Project: Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170407A**

Sample ID	**1703267-01A SD**	Batch ID:	**79878**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**SD**	Run ID:	**ICP-MS5_170407A**	Analysis Date:	**4/7/2017 11:51:00 AM**	Prep Date:	**4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<2.54	5.08	0	0				0	10	
Arsenic	4.33	5.08	0	3.958				9.01	10	
Barium	70.0	10.2	0	68.64				1.94	10	
Beryllium	<0.508	1.52	0	0.2693				0	10	
Cadmium	<0.508	1.52	0	0.1180				0	10	
Chromium	13.4	10.2	0	12.87				4.37	10	
Lead	23.2	1.52	0	22.89				1.45	10	
Nickel	10.1	10.2	0	9.480				6.58	10	
Selenium	1.03	2.54	0	0.9753				5.25	10	
Silver	<0.508	1.02	0	0				0	10	

Sample ID	**1703267-01A PDS**	Batch ID:	**79878**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**PDS**	Run ID:	**ICP-MS5_170407A**	Analysis Date:	**4/7/2017 12:00:00 PM**	Prep Date:	**4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	54.7	1.02	50.76	0	108	80	120			
Arsenic	57.2	1.02	50.76	3.958	105	80	120			
Barium	126	2.03	50.76	68.64	112	80	120			
Beryllium	55.1	0.305	50.76	0.2693	108	80	120			
Cadmium	51.9	0.305	50.76	0.1180	102	80	120			
Chromium	69.7	2.03	50.76	12.87	112	80	120			
Lead	79.4	0.305	50.76	22.89	111	80	120			
Nickel	64.5	2.03	50.76	9.480	108	80	120			
Selenium	53.7	0.508	50.76	0.9753	104	80	120			
Silver	56.6	0.203	50.76	0	112	80	120			

Sample ID	**1703267-01A MS**	Batch ID:	**79878**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**ICP-MS5_170407A**	Analysis Date:	**4/7/2017 12:01:00 PM**	Prep Date:	**4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	43.4	1.01	50.27	0	86.3	80	120			
Arsenic	54.0	1.01	50.27	3.958	99.6	80	120			
Barium	114	2.01	50.27	68.64	90.6	80	120			
Beryllium	51.5	0.302	50.27	0.2693	102	80	120			
Cadmium	48.0	0.302	50.27	0.1180	95.3	80	120			
Chromium	62.4	2.01	50.27	12.87	98.6	80	120			
Lead	81.1	0.302	50.27	22.89	116	80	120			
Nickel	58.8	2.01	50.27	9.480	98.1	80	120			
Selenium	50.3	0.503	50.27	0.9753	98.2	80	120			
Silver	52.5	0.201	50.27	0	104	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703267
Project: Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170407A**

Sample ID	**1703267-01A MSD**	Batch ID:	**79878**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**ICP-MS5_170407A**	Analysis Date:	**4/7/2017 12:03:00 PM**	Prep Date:	**4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	41.0	0.974	48.69	0	84.1	80	120	5.68	25	
Arsenic	51.9	0.974	48.69	3.958	98.4	80	120	4.09	25	
Barium	111	1.95	48.69	68.64	86.7	80	120	2.97	25	
Beryllium	49.7	0.292	48.69	0.2693	102	80	120	3.54	25	
Cadmium	45.8	0.292	48.69	0.1180	93.8	80	120	4.71	25	
Chromium	59.8	1.95	48.69	12.87	96.5	80	120	4.19	25	
Lead	80.5	0.292	48.69	22.89	118	80	120	0.733	25	
Nickel	56.2	1.95	48.69	9.480	95.9	80	120	4.52	25	
Selenium	49.1	0.487	48.69	0.9753	98.8	80	120	2.54	25	
Silver	50.2	0.195	48.69	0	103	80	120	4.47	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703267
Project: Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170407A**

Sample ID	**ICV-170407**	Batch ID:	**R91316**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**ICP-MS5_170407A**	Analysis Date:	**4/7/2017 11:25:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.103	0.00250	0.100	0	103	90	110			
Arsenic	0.103	0.00500	0.100	0	103	90	110			
Barium	0.0967	0.0100	0.100	0	96.7	90	110			
Beryllium	0.102	0.00100	0.100	0	102	90	110			
Cadmium	0.0981	0.00100	0.100	0	98.1	90	110			
Chromium	0.107	0.00500	0.100	0	107	90	110			
Lead	0.102	0.00100	0.100	0	102	90	110			
Nickel	0.106	0.0100	0.100	0	106	90	110			
Selenium	0.102	0.00500	0.100	0	102	90	110			
Silver	0.103	0.00200	0.100	0	103	90	110			

Sample ID	**LCVL-170407**	Batch ID:	**R91316**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS5_170407A**	Analysis Date:	**4/7/2017 11:34:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00200	0.00250	0.00200	0	99.8	70	130			
Arsenic	0.00491	0.00500	0.00500	0	98.3	70	130			
Barium	0.00464	0.0100	0.00500	0	92.7	70	130			
Beryllium	0.00121	0.00100	0.00100	0	121	70	130			
Cadmium	0.000961	0.00100	0.00100	0	96.1	70	130			
Chromium	0.00519	0.00500	0.00500	0	104	70	130			
Lead	0.000981	0.00100	0.00100	0	98.1	70	130			
Nickel	0.00528	0.0100	0.00500	0	106	70	130			
Selenium	0.00544	0.00500	0.00500	0	109	70	130			
Silver	0.00203	0.00200	0.00200	0	101	70	130			

Sample ID	**CCV1-170407**	Batch ID:	**R91316**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS5_170407A**	Analysis Date:	**4/7/2017 12:16:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.195	0.00250	0.200	0	97.7	90	110			
Arsenic	0.203	0.00500	0.200	0	101	90	110			
Barium	0.190	0.0100	0.200	0	95.1	90	110			
Beryllium	0.205	0.00100	0.200	0	102	90	110			
Cadmium	0.192	0.00100	0.200	0	95.9	90	110			
Chromium	0.203	0.00500	0.200	0	101	90	110			
Lead	0.203	0.00100	0.200	0	102	90	110			
Nickel	0.209	0.0100	0.200	0	104	90	110			
Selenium	0.205	0.00500	0.200	0	103	90	110			
Silver	0.199	0.00200	0.200	0	99.3	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703267
Project: Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170407A**

Sample ID	**LCVL1-170407**	Batch ID:	**R91316**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS5_170407A**	Analysis Date:	**4/7/2017 12:19:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00208	0.00250	0.00200	0	104	70	130			
Arsenic	0.00509	0.00500	0.00500	0	102	70	130			
Barium	0.00495	0.0100	0.00500	0	99.0	70	130			
Beryllium	0.00129	0.00100	0.00100	0	129	70	130			
Cadmium	0.00102	0.00100	0.00100	0	102	70	130			
Chromium	0.00526	0.00500	0.00500	0	105	70	130			
Lead	0.00101	0.00100	0.00100	0	101	70	130			
Nickel	0.00548	0.0100	0.00500	0	110	70	130			
Selenium	0.00502	0.00500	0.00500	0	100	70	130			
Silver	0.00206	0.00200	0.00200	0	103	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703267
Project: Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS8_170405A**

Sample ID	**DCS-79816**	Batch ID:	**79816**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**GCMS8_170405A**	Analysis Date:	**4/5/2017 1:05:00 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0118	0.0100	0.01000	0	118	20	200	0	0	
Acenaphthylene	0.0120	0.0100	0.01000	0	120	20	200	0	0	
Anthracene	0.0130	0.0100	0.01000	0	130	20	200	0	0	
Benzo[a]anthracene	0.0123	0.0100	0.01000	0	123	20	200	0	0	
Benzo[a]pyrene	0.00979	0.0100	0.01000	0	97.9	20	200	0	0	
Benzo[b]fluoranthene	0.0116	0.0100	0.01000	0	116	20	200	0	0	
Benzo[g,h,i]perylene	0.0116	0.0100	0.01000	0	116	20	200	0	0	
Benzo[k]fluoranthene	0.0125	0.0100	0.01000	0	125	20	200	0	0	
Chrysene	0.0124	0.0100	0.01000	0	124	20	200	0	0	
Dibenz[a,h]anthracene	0.0120	0.0100	0.01000	0	120	20	200	0	0	
Fluoranthene	0.0125	0.0100	0.01000	0	125	20	200	0	0	
Fluorene	0.0119	0.0100	0.01000	0	119	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.0113	0.0100	0.01000	0	113	20	200	0	0	
Naphthalene	0.0128	0.0100	0.01000	0	128	20	200	0	0	
Phenanthrene	0.0125	0.0100	0.01000	0	125	20	200	0	0	
Pyrene	0.0130	0.0100	0.01000	0	130	20	200	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703267
Project: Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS8_170412A**

The QC data in batch 79888 applies to the following samples: 1703267-01A

Sample ID **LCS-79888** Batch ID: **79888** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS8_170412A** Analysis Date: **4/12/2017 9:57:00 AM** Prep Date: **4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.922	0.0100	1.000	0	92.2	46	125			
Acenaphthylene	0.949	0.0100	1.000	0	94.9	44	125			
Anthracene	0.965	0.0100	1.000	0	96.5	53	125			
Benzo[a]anthracene	0.870	0.0100	1.000	0	87.0	52	125			
Benzo[a]pyrene	0.881	0.0100	1.000	0	88.1	50	125			
Benzo[b]fluoranthene	1.01	0.0100	1.000	0	101	45	125			
Benzo[g,h,i]perylene	0.926	0.0100	1.000	0	92.6	38	126			
Benzo[k]fluoranthene	0.979	0.0100	1.000	0	97.9	45	125			
Chrysene	0.881	0.0100	1.000	0	88.1	53	125			
Dibenz[a,h]anthracene	1.02	0.0100	1.000	0	102	41	125			
Fluoranthene	0.934	0.0100	1.000	0	93.4	54	125			
Fluorene	0.920	0.0100	1.000	0	92.0	49	125			
Indeno[1,2,3-cd]pyrene	1.05	0.0100	1.000	0	105	38	125			
Naphthalene	0.834	0.0100	1.000	0	83.4	40	125			
Phenanthrene	0.903	0.0100	1.000	0	90.3	50	125			
Pyrene	0.921	0.0100	1.000	0	92.1	46	125			
Surr: 2-Fluorobiphenyl	0.946		1.000		94.6	43	125			
Surr: 4-Terphenyl-d14	0.931		1.000		93.1	32	125			

Sample ID **MB-79888** Batch ID: **79888** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS8_170412A** Analysis Date: **4/12/2017 10:27:00 AM** Prep Date: **4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100								
Acenaphthylene	<0.00500	0.0100								
Anthracene	<0.00500	0.0100								
Benzo[a]anthracene	<0.00500	0.0100								
Benzo[a]pyrene	<0.00500	0.0100								
Benzo[b]fluoranthene	<0.00500	0.0100								
Benzo[g,h,i]perylene	<0.00500	0.0100								
Benzo[k]fluoranthene	<0.00500	0.0100								
Chrysene	<0.00500	0.0100								
Dibenz[a,h]anthracene	<0.00500	0.0100								
Fluoranthene	<0.00500	0.0100								
Fluorene	<0.00500	0.0100								
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100								
Naphthalene	<0.00500	0.0100								
Phenanthrene	<0.00500	0.0100								
Pyrene	<0.00500	0.0100								
Surr: 2-Fluorobiphenyl	0.918		1.000		91.8	43	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703267
Project: Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_170412A

Sample ID **MB-79888**	Batch ID: **79888**	TestNo: **SW8270D-LL**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GCMS8_170412A**	Analysis Date: **4/12/2017 10:27:00 AM**	Prep Date: **4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	0.911		1.000		91.1	32	125			

Sample ID **1703266-20AMS**	Batch ID: **79888**	TestNo: **SW8270D-LL**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GCMS8_170412A**	Analysis Date: **4/12/2017 1:25:00 PM**	Prep Date: **4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.18	0.0108	1.081	0.03355	106	46	125			
Acenaphthylene	1.43	0.0108	1.081	0.1884	114	44	125			
Anthracene	1.39	0.0108	1.081	0.2228	108	53	125			
Benzo[a]anthracene	1.96	0.0108	1.081	0.7338	114	52	125			
Benzo[a]pyrene	2.04	0.0108	1.081	0.9074	105	50	125			
Benzo[b]fluoranthene	2.04	0.0108	1.081	0.7756	117	45	125			
Benzo[g,h,i]perylene	1.57	0.0108	1.081	0.6289	87.1	38	126			
Benzo[k]fluoranthene	1.63	0.0108	1.081	0.4364	110	45	125			
Chrysene	1.91	0.0108	1.081	0.7516	108	53	125			
Dibenz[a,h]anthracene	1.25	0.0108	1.081	0.1097	105	41	125			
Fluoranthene	3.13	0.0108	1.081	1.720	131	54	125			S
Fluorene	1.36	0.0108	1.081	0.04823	122	49	125			
Indeno[1,2,3-cd]pyrene	1.92	0.0108	1.081	0.7546	108	38	125			
Naphthalene	1.05	0.0108	1.081	0.01630	95.7	40	125			
Phenanthrene	1.94	0.0108	1.081	0.7156	113	50	125			
Pyrene	2.93	0.0108	1.081	1.601	123	46	125			
Surr: 2-Fluorobiphenyl	1.14		1.081		105	43	125			
Surr: 4-Terphenyl-d14	1.12		1.081		103	32	125			

Sample ID **1703266-20AMSD**	Batch ID: **79888**	TestNo: **SW8270D-LL**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GCMS8_170412A**	Analysis Date: **4/12/2017 1:55:00 PM**	Prep Date: **4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.10	0.0107	1.072	0.03355	99.9	46	125	6.58	30	
Acenaphthylene	1.32	0.0107	1.072	0.1884	106	44	125	7.43	30	
Anthracene	1.36	0.0107	1.072	0.2228	106	53	125	1.91	30	
Benzo[a]anthracene	1.93	0.0107	1.072	0.7338	112	52	125	1.59	30	
Benzo[a]pyrene	2.09	0.0107	1.072	0.9074	111	50	125	2.65	30	
Benzo[b]fluoranthene	2.07	0.0107	1.072	0.7756	121	45	125	1.66	30	
Benzo[g,h,i]perylene	1.54	0.0107	1.072	0.6289	84.6	38	126	2.29	30	
Benzo[k]fluoranthene	1.58	0.0107	1.072	0.4364	107	45	125	2.86	30	
Chrysene	1.88	0.0107	1.072	0.7516	105	53	125	1.94	30	
Dibenz[a,h]anthracene	1.15	0.0107	1.072	0.1097	97.4	41	125	7.72	30	
Fluoranthene	3.60	0.0107	1.072	1.720	175	54	125	13.8	30	S
Fluorene	1.21	0.0107	1.072	0.04823	108	49	125	12.1	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703267
Project: Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_170412A

Sample ID	**1703266-20AMSD**	Batch ID:	**79888**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**GCMS8_170412A**	Analysis Date:	**4/12/2017 1:55:00 PM**	Prep Date:	**4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Indeno[1,2,3-cd]pyrene	1.82	0.0107	1.072	0.7546	99.0	38	125	5.42	30	
Naphthalene	0.987	0.0107	1.072	0.01630	90.6	40	125	6.17	30	
Phenanthrene	2.10	0.0107	1.072	0.7156	129	50	125	8.15	30	S
Pyrene	3.33	0.0107	1.072	1.601	161	46	125	12.6	30	S
Surr: 2-Fluorobiphenyl	1.05		1.072		98.2	43	125	0	0	
Surr: 4-Terphenyl-d14	1.15		1.072		107	32	125	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703267
Project: Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS8_170412A**

Sample ID	**ICV-170412**	Batch ID:	**R91415**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS8_170412A**	Analysis Date:	**4/12/2017 9:28:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	2.07	0.0100	2.000	0	103	80	120			
Acenaphthylene	2.14	0.0100	2.000	0	107	80	120			
Anthracene	1.99	0.0100	2.000	0	99.6	80	120			
Benzo[a]anthracene	1.90	0.0100	2.000	0	95.1	80	120			
Benzo[a]pyrene	2.03	0.0100	2.000	0	102	80	120			
Benzo[b]fluoranthene	2.24	0.0100	2.000	0	112	80	120			
Benzo[g,h,i]perylene	2.02	0.0100	2.000	0	101	80	120			
Benzo[k]fluoranthene	2.15	0.0100	2.000	0	107	80	120			
Chrysene	1.91	0.0100	2.000	0	95.7	80	120			
Dibenz[a,h]anthracene	2.26	0.0100	2.000	0	113	80	120			
Fluoranthene	1.98	0.0100	2.000	0	98.8	80	120			
Fluorene	2.10	0.0100	2.000	0	105	80	120			
Indeno[1,2,3-cd]pyrene	2.28	0.0100	2.000	0	114	80	120			
Naphthalene	1.91	0.0100	2.000	0	95.6	80	120			
Phenanthrene	1.98	0.0100	2.000	0	98.9	80	120			
Pyrene	1.94	0.0100	2.000	0	97.1	80	120			
Surr: 2-Fluorobiphenyl	2.07		2.000		104	65	120			
Surr: 4-Terphenyl-d14	1.93		2.000		96.6	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1703267
Project: Galveston

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_170410B

The QC data in batch 79935 applies to the following samples: 1703267-01A

Sample ID	**1703267-01A DUP**	Batch ID:	**79935**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_170410B**	Analysis Date:	**4/11/2017 10:21:00 AM**	Prep Date:	**4/10/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	6.62	0	0	7.583				13.6	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

DHL Analytical, Inc.

Date: *13-Apr-17*

CLIENT: AECOM
Work Order: 1703267
Project: Galveston

MQL SUMMARY REPORT

TestNo: SW6020A	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Antimony	0.500	1.00
Arsenic	0.500	1.00
Barium	0.500	2.00
Beryllium	0.100	0.300
Cadmium	0.100	0.300
Chromium	0.500	2.00
Lead	0.100	0.300
Nickel	0.500	2.00
Selenium	0.150	0.500
Silver	0.100	0.200

TestNo: SW7471B	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Mercury	0.0160	0.0400

TestNo: SW8270D-LL	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Acenaphthene	0.00500	0.0100
Acenaphthylene	0.00500	0.0100
Anthracene	0.00500	0.0100
Benzo[a]anthracene	0.00500	0.0100
Benzo[a]pyrene	0.00500	0.0100
Benzo[b]fluoranthene	0.00500	0.0100
Benzo[g,h,i]perylene	0.00500	0.0100
Benzo[k]fluoranthene	0.00500	0.0100
Chrysene	0.00500	0.0100
Dibenz[a,h]anthracene	0.00500	0.0100
Fluoranthene	0.00500	0.0100
Fluorene	0.00500	0.0100
Indeno[1,2,3-cd]pyrene	0.00500	0.0100
Naphthalene	0.00500	0.0100
Phenanthrene	0.00500	0.0100
Pyrene	0.00500	0.0100

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

DHL Analytical, Inc.
Laboratory Review Checklist: Reportable Data

Project Name: Galveston RAP Sampling Mar. 2017	**Date:** 4/17/2017
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1704005
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.
Laboratory Review Checklist (continued): Supporting Data

Project Name: Galveston RAP Sampling Mar. 2017 | **Date:** 4/17/2017

Reviewer Name: Angie O'Donnell | **Laboratory Work Order:** 1704005

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			**S9-01**
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?		X			**S10-02**
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
- a) Items consistent with NELAC Chapter 5,
- b) dilution factors,
- c) preparation methods,
- d) cleanup methods, and
- e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:
- a) Calculated recovery (%R), and
- b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
- a) LCS spiking amounts,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d) Calculated %Rs and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits

R8 Laboratory analytical duplicate (if applicable) recovery and precision:
- a) The amount of analyte measured in the duplicate,
- b) The calculated RPD, and
- c) The laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on June 1-5, 2015. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager

Scott Schroeder – Technical Director

Signature

04/17/17

Date

CLIENT: AECOM
Project: Galveston RAP Sampling Mar. 2017
Lab Order: 1704005

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7470A/7471B - Mercury Analysis
Method SW8270D-LL - PAH Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 4/1/2017. A total of 10 samples were received and analyzed. The samples arrived in good condition and were properly packaged. Analysis was added to a total of four samples per the client's request on 4/10/2017.

Exception Report R7-03

For Metals Analysis, for soil Batches 79853 and 79943, the recoveries of up to three analytes for the Matrix Spike and Matrix Spike Duplicate(s) (1704005-08, -02 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Semivolatiles Analysis, for soil Batches 79824 and 79942, the recoveries of up to six compounds for the Matrix Spike and Matrix Spike Duplicate(s) (1704005-08, -02 MS/MSD) were outside of the method control limits. Additionally, for Batch 79824, the recovery of Phenanthrene for the Matrix Spike Duplicate (1704005-08 MSD) was above the method control limits. These are flagged accordingly in the QC Summary Report. These compounds were within method control limits in the associated LCS. No further corrective action was taken.

Exception Report S9-01

For Metals Analysis, for soil Batch 79943, the recovery of Barium for the Post Digestion Spike (1704005-02 PDS) was marginally above the method control limits. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Serial Dilution. No further corrective action was taken.

For Metals Analysis, for soil Batches 79853 and 79943, the RPD of Selenium for the Serial Dilution(s) (1704005-08, -02 SD) was above the method control limit. These are flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Post Digestion Spike(s). No further corrective action was taken.

For Mercury Analysis, for water Batch 79830, the recovery of the Post Digestion Spike (1703259-05 PDS) was slightly below the method control limits. This is flagged accordingly in the QC Summary Report. The associated Serial Dilution was within method control limits. No further corrective action was taken.

Exception Report S10-02

For Metals Analysis, for ICPMS_5, the recoveries of Lead and Selenium for the Detectability Check Standard (DCS1-79610) was outside of the DHL Analytical internal control limits; the recovery meets TRRP specifications. This is flagged accordingly in the QC Summary report. This analyte was within method control limits in the daily calibration. No further corrective action was taken.

For Metals Analysis, for ICPMS_4, the recovery of Nickel for the Detectability Check Standard (DCS279610) was above the DHL Analytical internal control limits; the recovery meets TRRP specifications. This is flagged accordingly in the QC Summary report. This analyte was within method control limits in the daily calibration. No further corrective action was taken.

DHL Analytical, Inc.

Date: *17-Apr-17*

CLIENT: AECOM
Project: Galveston RAP Sampling Mar. 2017
Lab Order: 1704005

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1704005-01	HA-SB02-010		03/30/17 07:00 PM	4/1/2017
1704005-02	HA-SB02-020		03/30/17 07:15 PM	4/1/2017
1704005-03	HA-SB02-011		03/30/17 07:00 PM	4/1/2017
1704005-04	HA-SB02-015		03/30/17 07:15 PM	4/1/2017
1704005-05	HA-SB01-010		03/31/17 11:15 AM	4/1/2017
1704005-06	HA-SB12-020		03/31/17 11:40 AM	4/1/2017
1704005-07	HA-SB20-015		03/31/17 12:10 PM	4/1/2017
1704005-08	HA-SB20-013		03/31/17 12:10 PM	4/1/2017
1704005-09	HA-SB20-020		03/31/17 12:20 PM	4/1/2017
1704005-10	HA-SB20-021		03/31/17 12:20 PM	4/1/2017

DHL Analytical, Inc.

17-Apr-17

Lab Order: 1704005
Client: AECOM
Project: Galveston RAP Sampling Mar. 20

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1704005-01A	HA-SB02-010	03/30/17 07:00 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/05/17 10:26 AM	79854
	HA-SB02-010	03/30/17 07:00 PM	Soil	D2216	Moisture Preparation	04/05/17 02:20 PM	79861
	HA-SB02-010	03/30/17 07:00 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB02-010	03/30/17 07:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/05/17 10:24 AM	79853
	HA-SB02-010	03/30/17 07:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/05/17 10:24 AM	79853
1704005-02A	HA-SB02-020	03/30/17 07:15 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/11/17 08:48 AM	79945
	HA-SB02-020	03/30/17 07:15 PM	Soil	D2216	Moisture Preparation	04/12/17 09:23 AM	79974
	HA-SB02-020	03/30/17 07:15 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/11/17 09:36 AM	79942
	HA-SB02-020	03/30/17 07:15 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/11/17 09:36 AM	79942
	HA-SB02-020	03/30/17 07:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/11/17 08:44 AM	79943
1704005-03A	HA-SB02-011	03/30/17 07:00 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/05/17 10:26 AM	79854
	HA-SB02-011	03/30/17 07:00 PM	Soil	D2216	Moisture Preparation	04/05/17 02:20 PM	79861
	HA-SB02-011	03/30/17 07:00 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB02-011	03/30/17 07:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/05/17 10:24 AM	79853
	HA-SB02-011	03/30/17 07:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/05/17 10:24 AM	79853
1704005-04A	HA-SB02-015	03/30/17 07:15 PM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	04/06/17 09:45 AM	79877
	HA-SB02-015	03/30/17 07:15 PM	Equip Blank	SW7470A	Mercury Aq Prep, Total	04/03/17 04:48 PM	79830
1704005-04B	HA-SB02-015	03/30/17 07:15 PM	Equip Blank	SW3510C	Aq Prep Sep Funnel: PAH	04/04/17 10:29 AM	79837
1704005-05A	HA-SB01-010	03/31/17 11:15 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/05/17 10:26 AM	79854
	HA-SB01-010	03/31/17 11:15 AM	Soil	D2216	Moisture Preparation	04/05/17 02:20 PM	79861
	HA-SB01-010	03/31/17 11:15 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB01-010	03/31/17 11:15 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/05/17 10:24 AM	79853
1704005-06A	HA-SB12-020	03/31/17 11:40 AM	Soil	SW7471B	Mercury Soil Prep, Total	04/11/17 08:48 AM	79945
	HA-SB12-020	03/31/17 11:40 AM	Soil	D2216	Moisture Preparation	04/12/17 09:23 AM	79974
	HA-SB12-020	03/31/17 11:40 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/11/17 09:36 AM	79942
	HA-SB12-020	03/31/17 11:40 AM	Soil	SW3550C	Soil Prep Sonication: PAH	04/11/17 09:36 AM	79942
	HA-SB12-020	03/31/17 11:40 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/11/17 08:44 AM	79943
1704005-07A	HA-SB20-015	03/31/17 12:10 PM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	04/06/17 09:45 AM	79877

Lab Order: 1704005
Client: AECOM
Project: Galveston RAP Sampling Mar. 20

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1704005-07A	HA-SB20-015	03/31/17 12:10 PM	Equip Blank	SW7470A	Mercury Aq Prep, Total	04/03/17 04:48 PM	79830
1704005-07B	HA-SB20-015	03/31/17 12:10 PM	Equip Blank	SW3510C	Aq Prep Sep Funnel: PAH	04/04/17 10:29 AM	79837
1704005-08A	HA-SB20-013	03/31/17 12:10 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/05/17 10:26 AM	79854
	HA-SB20-013	03/31/17 12:10 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/05/17 10:26 AM	79854
	HA-SB20-013	03/31/17 12:10 PM	Soil	D2216	Moisture Preparation	04/05/17 02:20 PM	79861
	HA-SB20-013	03/31/17 12:10 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB20-013	03/31/17 12:10 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/03/17 01:30 PM	79824
	HA-SB20-013	03/31/17 12:10 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/05/17 10:24 AM	79853
	HA-SB20-013	03/31/17 12:10 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/05/17 10:24 AM	79853
1704005-09A	HA-SB20-020	03/31/17 12:20 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/11/17 08:48 AM	79945
	HA-SB20-020	03/31/17 12:20 PM	Soil	D2216	Moisture Preparation	04/12/17 09:23 AM	79974
	HA-SB20-020	03/31/17 12:20 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/11/17 09:36 AM	79942
	HA-SB20-020	03/31/17 12:20 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/11/17 09:36 AM	79942
	HA-SB20-020	03/31/17 12:20 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/11/17 08:44 AM	79943
	HA-SB20-020	03/31/17 12:20 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/11/17 08:44 AM	79943
1704005-10A	HA-SB20-021	03/31/17 12:20 PM	Soil	SW7471B	Mercury Soil Prep, Total	04/11/17 08:48 AM	79945
	HA-SB20-021	03/31/17 12:20 PM	Soil	D2216	Moisture Preparation	04/12/17 09:23 AM	79974
	HA-SB20-021	03/31/17 12:20 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/11/17 09:36 AM	79942
	HA-SB20-021	03/31/17 12:20 PM	Soil	SW3550C	Soil Prep Sonication: PAH	04/11/17 09:36 AM	79942
	HA-SB20-021	03/31/17 12:20 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/11/17 08:44 AM	79943
	HA-SB20-021	03/31/17 12:20 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/11/17 08:44 AM	79943

Lab Order: 1704005
Client: AECOM
Project: Galveston RAP Sampling Mar. 20

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1704005-01A	HA-SB02-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	1	04/06/17 06:14 PM	GCMS6_170406A
	HA-SB02-010	Soil	D2216	Percent Moisture	79861	1	04/06/17 08:43 AM	PMOIST_170405A
	HA-SB02-010	Soil	SW7471B	Total Mercury: Soil/Solid	79854	1	04/06/17 10:37 AM	CETAC2_HG_170406A
	HA-SB02-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79853	5	04/06/17 10:42 AM	ICP-MS4_170406A
	HA-SB02-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79853	50	04/06/17 11:56 AM	ICP-MS4_170406A
1704005-02A	HA-SB02-020	Soil	SW8270D-LL	PAHs: GC/MS	79942	1	04/13/17 08:40 PM	GCMS6_170413B
	HA-SB02-020	Soil	SW8270D-LL	PAHs: GC/MS	79942	2	04/14/17 11:57 AM	GCMS6_170414B
	HA-SB02-020	Soil	D2216	Percent Moisture	79974	1	04/13/17 07:36 AM	PMOIST_170412B
	HA-SB02-020	Soil	SW7471B	Total Mercury: Soil/Solid	79945	1	04/12/17 09:01 AM	CETAC2_HG_170412A
	HA-SB02-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79943	5	04/12/17 12:59 PM	ICP-MS4_170412B
1704005-03A	HA-SB02-011	Soil	SW8270D-LL	PAHs: GC/MS	79824	1	04/06/17 06:46 PM	GCMS6_170406A
	HA-SB02-011	Soil	D2216	Percent Moisture	79861	1	04/06/17 08:43 AM	PMOIST_170405A
	HA-SB02-011	Soil	SW7471B	Total Mercury: Soil/Solid	79854	1	04/06/17 10:39 AM	CETAC2_HG_170406A
	HA-SB02-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79853	50	04/06/17 11:58 AM	ICP-MS4_170406A
	HA-SB02-011	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79853	5	04/06/17 10:44 AM	ICP-MS4_170406A
1704005-04A	HA-SB02-015	Equip Blank	SW7470A	Mercury Total: Aqueous	79830	1	04/05/17 11:04 AM	CETAC2_HG_170405A
	HA-SB02-015	Equip Blank	SW6020A	Trace Metals: ICP-MS - Water	79877	1	04/07/17 12:33 PM	ICP-MS5_170407A
1704005-04B	HA-SB02-015	Equip Blank	SW8270D-LL	PAHs: GC/MS	79837	1	04/04/17 07:57 PM	GCMS6_170404A
1704005-05A	HA-SB01-010	Soil	SW8270D-LL	PAHs: GC/MS	79824	1	04/07/17 01:38 AM	GCMS6_170406A
	HA-SB01-010	Soil	D2216	Percent Moisture	79861	1	04/06/17 08:43 AM	PMOIST_170405A
	HA-SB01-010	Soil	SW7471B	Total Mercury: Soil/Solid	79854	1	04/06/17 10:41 AM	CETAC2_HG_170406A
	HA-SB01-010	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79853	5	04/06/17 10:46 AM	ICP-MS4_170406A
1704005-06A	HA-SB12-020	Soil	SW8270D-LL	PAHs: GC/MS	79942	10	04/14/17 01:01 PM	GCMS6_170414B
	HA-SB12-020	Soil	SW8270D-LL	PAHs: GC/MS	79942	1	04/13/17 09:44 PM	GCMS6_170413B
	HA-SB12-020	Soil	D2216	Percent Moisture	79974	1	04/13/17 07:36 AM	PMOIST_170412B

Lab Order: 1704005
Client: AECOM
Project: Galveston RAP Sampling Mar. 20

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1704005-06A	HA-SB12-020	Soil	SW7471B	Total Mercury: Soil/Solid	79945	1	04/12/17 09:12 AM	CETAC2_HG_170412A
	HA-SB12-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79943	5	04/12/17 01:09 PM	ICP-MS4_170412B
1704005-07A	HA-SB20-015	Equip Blank	SW7470A	Mercury Total: Aqueous	79830	1	04/05/17 11:06 AM	CETAC2_HG_170405A
	HA-SB20-015	Equip Blank	SW6020A	Trace Metals: ICP-MS - Water	79877	1	04/07/17 12:35 PM	ICP-MS5_170407A
1704005-07B	HA-SB20-015	Equip Blank	SW8270D-LL	PAHs: GC/MS	79837	1	04/04/17 08:29 PM	GCMS6_170404A
1704005-08A	HA-SB20-013	Soil	SW8270D-LL	PAHs: GC/MS	79824	1	04/07/17 02:41 AM	GCMS6_170406A
	HA-SB20-013	Soil	SW8270D-LL	PAHs: GC/MS	79824	2	04/07/17 12:00 PM	GCMS6_170407A
	HA-SB20-013	Soil	D2216	Percent Moisture	79861	1	04/06/17 08:43 AM	PMOIST_170405A
	HA-SB20-013	Soil	SW7471B	Total Mercury: Soil/Solid	79854	1	04/06/17 10:44 AM	CETAC2_HG_170406A
	HA-SB20-013	Soil	SW7471B	Total Mercury: Soil/Solid	79854	5	04/06/17 11:10 AM	CETAC2_HG_170406A
	HA-SB20-013	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79853	5	04/06/17 10:38 AM	ICP-MS4_170406A
	HA-SB20-013	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79853	50	04/06/17 11:52 AM	ICP-MS4_170406A
1704005-09A	HA-SB20-020	Soil	SW8270D-LL	PAHs: GC/MS	79942	10	04/14/17 12:29 PM	GCMS6_170414B
	HA-SB20-020	Soil	SW8270D-LL	PAHs: GC/MS	79942	1	04/13/17 10:16 PM	GCMS6_170413B
	HA-SB20-020	Soil	D2216	Percent Moisture	79974	1	04/13/17 07:36 AM	PMOIST_170412B
	HA-SB20-020	Soil	SW7471B	Total Mercury: Soil/Solid	79945	20	04/12/17 09:15 AM	CETAC2_HG_170412A
	HA-SB20-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79943	5	04/12/17 01:11 PM	ICP-MS4_170412B
	HA-SB20-020	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79943	50	04/12/17 01:32 PM	ICP-MS4_170412B
1704005-10A	HA-SB20-021	Soil	SW8270D-LL	PAHs: GC/MS	79942	1	04/13/17 09:12 PM	GCMS6_170413B
	HA-SB20-021	Soil	SW8270D-LL	PAHs: GC/MS	79942	2	04/14/17 11:25 AM	GCMS6_170414B
	HA-SB20-021	Soil	D2216	Percent Moisture	79974	1	04/13/17 07:36 AM	PMOIST_170412B
	HA-SB20-021	Soil	SW7471B	Total Mercury: Soil/Solid	79945	20	04/12/17 09:17 AM	CETAC2_HG_170412A
	HA-SB20-021	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79943	50	04/12/17 01:34 PM	ICP-MS4_170412B
	HA-SB20-021	Soil	SW6020A	Trace Metals: ICP-MS - Solid	79943	5	04/12/17 01:13 PM	ICP-MS4_170412B

DHL Analytical, Inc.

Date: *17-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB02-010
Project:	Galveston RAP Sampling Mar. 2017	**Lab ID:**	1704005-01
Project No:	60420789	**Collection Date:**	03/30/17 07:00 PM
Lab Order:	1704005	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	9.19	0.657	1.31		mg/Kg-dry	5	04/06/17 10:42 AM
Arsenic	76.4	0.657	1.31		mg/Kg-dry	5	04/06/17 10:42 AM
Barium	1700	6.57	26.3		mg/Kg-dry	50	04/06/17 11:56 AM
Beryllium	2.41	0.131	0.394		mg/Kg-dry	5	04/06/17 10:42 AM
Cadmium	2.95	0.131	0.394		mg/Kg-dry	5	04/06/17 10:42 AM
Chromium	99.5	0.657	2.63		mg/Kg-dry	5	04/06/17 10:42 AM
Lead	229	0.131	0.394		mg/Kg-dry	5	04/06/17 10:42 AM
Nickel	89.5	0.657	2.63		mg/Kg-dry	5	04/06/17 10:42 AM
Selenium	2.15	0.197	0.657		mg/Kg-dry	5	04/06/17 10:42 AM
Silver	0.457	0.131	0.263		mg/Kg-dry	5	04/06/17 10:42 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0561	0.0176	0.0440		mg/Kg-dry	1	04/06/17 10:37 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0323	0.00615	0.0123		mg/Kg-dry	1	04/06/17 06:14 PM
Acenaphthylene	0.0581	0.00615	0.0123		mg/Kg-dry	1	04/06/17 06:14 PM
Anthracene	0.119	0.00615	0.0123		mg/Kg-dry	1	04/06/17 06:14 PM
Benzo[a]anthracene	0.341	0.00615	0.0123		mg/Kg-dry	1	04/06/17 06:14 PM
Benzo[a]pyrene	0.397	0.00615	0.0123		mg/Kg-dry	1	04/06/17 06:14 PM
Benzo[b]fluoranthene	0.458	0.00615	0.0123		mg/Kg-dry	1	04/06/17 06:14 PM
Benzo[g,h,i]perylene	0.320	0.00615	0.0123		mg/Kg-dry	1	04/06/17 06:14 PM
Benzo[k]fluoranthene	0.226	0.00615	0.0123		mg/Kg-dry	1	04/06/17 06:14 PM
Chrysene	0.440	0.00615	0.0123		mg/Kg-dry	1	04/06/17 06:14 PM
Dibenz[a,h]anthracene	0.0558	0.00615	0.0123		mg/Kg-dry	1	04/06/17 06:14 PM
Fluoranthene	0.871	0.00615	0.0123		mg/Kg-dry	1	04/06/17 06:14 PM
Fluorene	0.0253	0.00615	0.0123		mg/Kg-dry	1	04/06/17 06:14 PM
Indeno[1,2,3-cd]pyrene	0.325	0.00615	0.0123		mg/Kg-dry	1	04/06/17 06:14 PM
Naphthalene	0.0139	0.00615	0.0123		mg/Kg-dry	1	04/06/17 06:14 PM
Phenanthrene	0.428	0.00615	0.0123		mg/Kg-dry	1	04/06/17 06:14 PM
Pyrene	0.686	0.00615	0.0123		mg/Kg-dry	1	04/06/17 06:14 PM
Surr: 2-Fluorobiphenyl	77.0	0	43-125		%REC	1	04/06/17 06:14 PM
Surr: 4-Terphenyl-d14	79.7	0	32-125		%REC	1	04/06/17 06:14 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	25.0	0	0		WT%	1	04/06/17 08:43 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *17-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB02-020
Project:	Galveston RAP Sampling Mar. 2017	**Lab ID:**	1704005-02
Project No:	60420789	**Collection Date:**	03/30/17 07:15 PM
Lab Order:	1704005	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	1.57	0.490	0.980		mg/Kg-dry	5	04/12/17 12:59 PM
Arsenic	11.6	0.490	0.980		mg/Kg-dry	5	04/12/17 12:59 PM
Barium	284	0.490	1.96		mg/Kg-dry	5	04/12/17 12:59 PM
Beryllium	0.404	0.0980	0.294		mg/Kg-dry	5	04/12/17 12:59 PM
Cadmium	0.862	0.0980	0.294		mg/Kg-dry	5	04/12/17 12:59 PM
Chromium	27.7	0.490	1.96		mg/Kg-dry	5	04/12/17 12:59 PM
Lead	290	0.0980	0.294		mg/Kg-dry	5	04/12/17 12:59 PM
Nickel	10.1	0.490	1.96		mg/Kg-dry	5	04/12/17 12:59 PM
Selenium	0.931	0.147	0.490		mg/Kg-dry	5	04/12/17 12:59 PM
Silver	0.209	0.0980	0.196		mg/Kg-dry	5	04/12/17 12:59 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.139	0.0162	0.0405		mg/Kg-dry	1	04/12/17 09:01 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.244	0.00565	0.0113		mg/Kg-dry	1	04/13/17 08:40 PM
Acenaphthylene	0.394	0.00565	0.0113		mg/Kg-dry	1	04/13/17 08:40 PM
Anthracene	0.989	0.00565	0.0113		mg/Kg-dry	1	04/13/17 08:40 PM
Benzo[a]anthracene	3.27	0.00565	0.0113		mg/Kg-dry	1	04/13/17 08:40 PM
Benzo[a]pyrene	3.19	0.00565	0.0113		mg/Kg-dry	1	04/13/17 08:40 PM
Benzo[b]fluoranthene	3.11	0.00565	0.0113		mg/Kg-dry	1	04/13/17 08:40 PM
Benzo[g,h,i]perylene	2.37	0.00565	0.0113		mg/Kg-dry	1	04/13/17 08:40 PM
Benzo[k]fluoranthene	1.57	0.00565	0.0113		mg/Kg-dry	1	04/13/17 08:40 PM
Chrysene	3.22	0.00565	0.0113		mg/Kg-dry	1	04/13/17 08:40 PM
Dibenz[a,h]anthracene	0.431	0.00565	0.0113		mg/Kg-dry	1	04/13/17 08:40 PM
Fluoranthene	8.11	0.0113	0.0226		mg/Kg-dry	2	04/14/17 11:57 AM
Fluorene	0.281	0.00565	0.0113		mg/Kg-dry	1	04/13/17 08:40 PM
Indeno[1,2,3-cd]pyrene	2.43	0.00565	0.0113		mg/Kg-dry	1	04/13/17 08:40 PM
Naphthalene	0.0366	0.00565	0.0113		mg/Kg-dry	1	04/13/17 08:40 PM
Phenanthrene	4.04	0.00565	0.0113		mg/Kg-dry	1	04/13/17 08:40 PM
Pyrene	6.36	0.0113	0.0226		mg/Kg-dry	2	04/14/17 11:57 AM
Surr: 2-Fluorobiphenyl	76.0	0	43-125		%REC	1	04/13/17 08:40 PM
Surr: 2-Fluorobiphenyl	78.3	0	43-125		%REC	2	04/14/17 11:57 AM
Surr: 4-Terphenyl-d14	81.9	0	32-125		%REC	1	04/13/17 08:40 PM
Surr: 4-Terphenyl-d14	80.9	0	32-125		%REC	2	04/14/17 11:57 AM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	11.7	0	0		WT%	1	04/13/17 07:36 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *17-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB02-011
Project:	Galveston RAP Sampling Mar. 2017	**Lab ID:**	1704005-03
Project No:	60420789	**Collection Date:**	03/30/17 07:00 PM
Lab Order:	1704005	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	7.87	0.486	0.972		mg/Kg-dry	5	04/06/17 10:44 AM
Arsenic	98.6	0.486	0.972		mg/Kg-dry	5	04/06/17 10:44 AM
Barium	2090	4.86	19.4		mg/Kg-dry	50	04/06/17 11:58 AM
Beryllium	2.56	0.0972	0.292		mg/Kg-dry	5	04/06/17 10:44 AM
Cadmium	2.93	0.0972	0.292		mg/Kg-dry	5	04/06/17 10:44 AM
Chromium	98.4	0.486	1.94		mg/Kg-dry	5	04/06/17 10:44 AM
Lead	191	0.0972	0.292		mg/Kg-dry	5	04/06/17 10:44 AM
Nickel	76.9	0.486	1.94		mg/Kg-dry	5	04/06/17 10:44 AM
Selenium	2.41	0.146	0.486		mg/Kg-dry	5	04/06/17 10:44 AM
Silver	0.500	0.0972	0.194		mg/Kg-dry	5	04/06/17 10:44 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0354	0.0151	0.0377	J	mg/Kg-dry	1	04/06/17 10:39 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0339	0.00507	0.0101		mg/Kg-dry	1	04/06/17 06:46 PM
Acenaphthylene	0.0574	0.00507	0.0101		mg/Kg-dry	1	04/06/17 06:46 PM
Anthracene	0.123	0.00507	0.0101		mg/Kg-dry	1	04/06/17 06:46 PM
Benzo[a]anthracene	0.330	0.00507	0.0101		mg/Kg-dry	1	04/06/17 06:46 PM
Benzo[a]pyrene	0.379	0.00507	0.0101		mg/Kg-dry	1	04/06/17 06:46 PM
Benzo[b]fluoranthene	0.456	0.00507	0.0101		mg/Kg-dry	1	04/06/17 06:46 PM
Benzo[g,h,i]perylene	0.372	0.00507	0.0101		mg/Kg-dry	1	04/06/17 06:46 PM
Benzo[k]fluoranthene	0.228	0.00507	0.0101		mg/Kg-dry	1	04/06/17 06:46 PM
Chrysene	0.413	0.00507	0.0101		mg/Kg-dry	1	04/06/17 06:46 PM
Dibenz[a,h]anthracene	0.0629	0.00507	0.0101		mg/Kg-dry	1	04/06/17 06:46 PM
Fluoranthene	0.838	0.00507	0.0101		mg/Kg-dry	1	04/06/17 06:46 PM
Fluorene	0.0302	0.00507	0.0101		mg/Kg-dry	1	04/06/17 06:46 PM
Indeno[1,2,3-cd]pyrene	0.368	0.00507	0.0101		mg/Kg-dry	1	04/06/17 06:46 PM
Naphthalene	0.00771	0.00507	0.0101	J	mg/Kg-dry	1	04/06/17 06:46 PM
Phenanthrene	0.450	0.00507	0.0101		mg/Kg-dry	1	04/06/17 06:46 PM
Pyrene	0.669	0.00507	0.0101		mg/Kg-dry	1	04/06/17 06:46 PM
Surr: 2-Fluorobiphenyl	85.4	0	43-125		%REC	1	04/06/17 06:46 PM
Surr: 4-Terphenyl-d14	98.2	0	32-125		%REC	1	04/06/17 06:46 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	6.81	0	0		WT%	1	04/06/17 08:43 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *17-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB02-015
Project:	Galveston RAP Sampling Mar. 2017	**Lab ID:**	1704005-04
Project No:	60420789	**Collection Date:**	03/30/17 07:15 PM
Lab Order:	1704005	**Matrix:**	EQUIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	04/07/17 12:33 PM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	04/07/17 12:33 PM
Barium	<0.00300	0.00300	0.0100		mg/L	1	04/07/17 12:33 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	04/07/17 12:33 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	04/07/17 12:33 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	04/07/17 12:33 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	04/07/17 12:33 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	04/07/17 12:33 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	04/07/17 12:33 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	04/07/17 12:33 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **AH**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	04/05/17 11:04 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	<0.0000241	0.0000241	0.0000481		mg/L	1	04/04/17 07:57 PM
Acenaphthylene	<0.0000241	0.0000241	0.0000481		mg/L	1	04/04/17 07:57 PM
Anthracene	<0.0000241	0.0000241	0.0000481		mg/L	1	04/04/17 07:57 PM
Benzo[a]anthracene	<0.0000241	0.0000241	0.0000481		mg/L	1	04/04/17 07:57 PM
Benzo[a]pyrene	<0.0000241	0.0000241	0.0000481		mg/L	1	04/04/17 07:57 PM
Benzo[b]fluoranthene	<0.0000241	0.0000241	0.0000481		mg/L	1	04/04/17 07:57 PM
Benzo[g,h,i]perylene	<0.0000241	0.0000241	0.0000481		mg/L	1	04/04/17 07:57 PM
Benzo[k]fluoranthene	<0.0000241	0.0000241	0.0000481		mg/L	1	04/04/17 07:57 PM
Chrysene	<0.0000241	0.0000241	0.0000481		mg/L	1	04/04/17 07:57 PM
Dibenz[a,h]anthracene	<0.0000241	0.0000241	0.0000481		mg/L	1	04/04/17 07:57 PM
Fluoranthene	<0.0000241	0.0000241	0.0000481		mg/L	1	04/04/17 07:57 PM
Fluorene	<0.0000241	0.0000241	0.0000481		mg/L	1	04/04/17 07:57 PM
Indeno[1,2,3-cd]pyrene	<0.0000241	0.0000241	0.0000481		mg/L	1	04/04/17 07:57 PM
Naphthalene	<0.0000241	0.0000241	0.0000481		mg/L	1	04/04/17 07:57 PM
Phenanthrene	<0.0000241	0.0000241	0.0000481		mg/L	1	04/04/17 07:57 PM
Pyrene	<0.0000241	0.0000241	0.0000481		mg/L	1	04/04/17 07:57 PM
Surr: 2-Fluorobiphenyl	61.6	0	48-120		%REC	1	04/04/17 07:57 PM
Surr: 4-Terphenyl-d14	80.0	0	51-135		%REC	1	04/04/17 07:57 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *17-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB01-010
Project:	Galveston RAP Sampling Mar. 2017	**Lab ID:**	1704005-05
Project No:	60420789	**Collection Date:**	03/31/17 11:15 AM
Lab Order:	1704005	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	4.47	0.685	1.37		mg/Kg-dry	5	04/06/17 10:46 AM
Arsenic	8.82	0.685	1.37		mg/Kg-dry	5	04/06/17 10:46 AM
Barium	428	0.685	2.74		mg/Kg-dry	5	04/06/17 10:46 AM
Beryllium	0.497	0.137	0.411		mg/Kg-dry	5	04/06/17 10:46 AM
Cadmium	1.36	0.137	0.411		mg/Kg-dry	5	04/06/17 10:46 AM
Chromium	25.9	0.685	2.74		mg/Kg-dry	5	04/06/17 10:46 AM
Lead	464	0.137	0.411		mg/Kg-dry	5	04/06/17 10:46 AM
Nickel	17.6	0.685	2.74		mg/Kg-dry	5	04/06/17 10:46 AM
Selenium	1.03	0.205	0.685		mg/Kg-dry	5	04/06/17 10:46 AM
Silver	0.328	0.137	0.274		mg/Kg-dry	5	04/06/17 10:46 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.457	0.0206	0.0516		mg/Kg-dry	1	04/06/17 10:41 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.0902	0.00678	0.0136		mg/Kg-dry	1	04/07/17 01:38 AM
Acenaphthylene	0.379	0.00678	0.0136		mg/Kg-dry	1	04/07/17 01:38 AM
Anthracene	0.592	0.00678	0.0136		mg/Kg-dry	1	04/07/17 01:38 AM
Benzo[a]anthracene	1.50	0.00678	0.0136		mg/Kg-dry	1	04/07/17 01:38 AM
Benzo[a]pyrene	1.70	0.00678	0.0136		mg/Kg-dry	1	04/07/17 01:38 AM
Benzo[b]fluoranthene	1.84	0.00678	0.0136		mg/Kg-dry	1	04/07/17 01:38 AM
Benzo[g,h,i]perylene	1.32	0.00678	0.0136		mg/Kg-dry	1	04/07/17 01:38 AM
Benzo[k]fluoranthene	0.913	0.00678	0.0136		mg/Kg-dry	1	04/07/17 01:38 AM
Chrysene	1.79	0.00678	0.0136		mg/Kg-dry	1	04/07/17 01:38 AM
Dibenz[a,h]anthracene	0.271	0.00678	0.0136		mg/Kg-dry	1	04/07/17 01:38 AM
Fluoranthene	3.19	0.00678	0.0136		mg/Kg-dry	1	04/07/17 01:38 AM
Fluorene	0.0998	0.00678	0.0136		mg/Kg-dry	1	04/07/17 01:38 AM
Indeno[1,2,3-cd]pyrene	1.34	0.00678	0.0136		mg/Kg-dry	1	04/07/17 01:38 AM
Naphthalene	0.0215	0.00678	0.0136		mg/Kg-dry	1	04/07/17 01:38 AM
Phenanthrene	1.37	0.00678	0.0136		mg/Kg-dry	1	04/07/17 01:38 AM
Pyrene	2.71	0.00678	0.0136		mg/Kg-dry	1	04/07/17 01:38 AM
Surr: 2-Fluorobiphenyl	85.9	0	43-125		%REC	1	04/07/17 01:38 AM
Surr: 4-Terphenyl-d14	92.7	0	32-125		%REC	1	04/07/17 01:38 AM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	27.0	0	0		WT%	1	04/06/17 08:43 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *17-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB12-020
Project:	Galveston RAP Sampling Mar. 2017	**Lab ID:**	1704005-06
Project No:	60420789	**Collection Date:**	03/31/17 11:40 AM
Lab Order:	1704005	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	<0.572	0.572	1.14		mg/Kg-dry	5	04/12/17 01:09 PM
Arsenic	3.24	0.572	1.14		mg/Kg-dry	5	04/12/17 01:09 PM
Barium	47.3	0.572	2.29		mg/Kg-dry	5	04/12/17 01:09 PM
Beryllium	0.296	0.114	0.343	J	mg/Kg-dry	5	04/12/17 01:09 PM
Cadmium	<0.114	0.114	0.343		mg/Kg-dry	5	04/12/17 01:09 PM
Chromium	11.1	0.572	2.29		mg/Kg-dry	5	04/12/17 01:09 PM
Lead	34.1	0.114	0.343		mg/Kg-dry	5	04/12/17 01:09 PM
Nickel	5.54	0.572	2.29		mg/Kg-dry	5	04/12/17 01:09 PM
Selenium	0.740	0.172	0.572		mg/Kg-dry	5	04/12/17 01:09 PM
Silver	<0.114	0.114	0.229		mg/Kg-dry	5	04/12/17 01:09 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.0475	0.0174	0.0435		mg/Kg-dry	1	04/12/17 09:12 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.443	0.00584	0.0117		mg/Kg-dry	1	04/13/17 09:44 PM
Acenaphthylene	0.124	0.00584	0.0117		mg/Kg-dry	1	04/13/17 09:44 PM
Anthracene	1.33	0.00584	0.0117		mg/Kg-dry	1	04/13/17 09:44 PM
Benzo[a]anthracene	7.13	0.0584	0.117		mg/Kg-dry	10	04/14/17 01:01 PM
Benzo[a]pyrene	6.99	0.0584	0.117		mg/Kg-dry	10	04/14/17 01:01 PM
Benzo[b]fluoranthene	7.49	0.0584	0.117		mg/Kg-dry	10	04/14/17 01:01 PM
Benzo[g,h,i]perylene	5.02	0.00584	0.0117		mg/Kg-dry	1	04/13/17 09:44 PM
Benzo[k]fluoranthene	3.70	0.00584	0.0117		mg/Kg-dry	1	04/13/17 09:44 PM
Chrysene	8.23	0.0584	0.117		mg/Kg-dry	10	04/14/17 01:01 PM
Dibenz[a,h]anthracene	1.06	0.00584	0.0117		mg/Kg-dry	1	04/13/17 09:44 PM
Fluoranthene	15.7	0.0584	0.117		mg/Kg-dry	10	04/14/17 01:01 PM
Fluorene	0.444	0.00584	0.0117		mg/Kg-dry	1	04/13/17 09:44 PM
Indeno[1,2,3-cd]pyrene	5.38	0.00584	0.0117		mg/Kg-dry	1	04/13/17 09:44 PM
Naphthalene	0.0309	0.00584	0.0117		mg/Kg-dry	1	04/13/17 09:44 PM
Phenanthrene	7.60	0.0584	0.117		mg/Kg-dry	10	04/14/17 01:01 PM
Pyrene	11.4	0.0584	0.117		mg/Kg-dry	10	04/14/17 01:01 PM
Surr: 2-Fluorobiphenyl	73.4	0	43-125		%REC	10	04/14/17 01:01 PM
Surr: 2-Fluorobiphenyl	74.6	0	43-125		%REC	1	04/13/17 09:44 PM
Surr: 4-Terphenyl-d14	81.8	0	32-125		%REC	1	04/13/17 09:44 PM
Surr: 4-Terphenyl-d14	74.5	0	32-125		%REC	10	04/14/17 01:01 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	16.3	0	0		WT%	1	04/13/17 07:36 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *17-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB20-015
Project:	Galveston RAP Sampling Mar. 2017	**Lab ID:**	1704005-07
Project No:	60420789	**Collection Date:**	03/31/17 12:10 PM
Lab Order:	1704005	**Matrix:**	EQUIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	04/07/17 12:35 PM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	04/07/17 12:35 PM
Barium	<0.00300	0.00300	0.0100		mg/L	1	04/07/17 12:35 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	04/07/17 12:35 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	04/07/17 12:35 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	04/07/17 12:35 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	04/07/17 12:35 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	04/07/17 12:35 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	04/07/17 12:35 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	04/07/17 12:35 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **AH**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	04/05/17 11:06 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	<0.0000238	0.0000238	0.0000475		mg/L	1	04/04/17 08:29 PM
Acenaphthylene	<0.0000238	0.0000238	0.0000475		mg/L	1	04/04/17 08:29 PM
Anthracene	<0.0000238	0.0000238	0.0000475		mg/L	1	04/04/17 08:29 PM
Benzo[a]anthracene	<0.0000238	0.0000238	0.0000475		mg/L	1	04/04/17 08:29 PM
Benzo[a]pyrene	<0.0000238	0.0000238	0.0000475		mg/L	1	04/04/17 08:29 PM
Benzo[b]fluoranthene	<0.0000238	0.0000238	0.0000475		mg/L	1	04/04/17 08:29 PM
Benzo[g,h,i]perylene	<0.0000238	0.0000238	0.0000475		mg/L	1	04/04/17 08:29 PM
Benzo[k]fluoranthene	<0.0000238	0.0000238	0.0000475		mg/L	1	04/04/17 08:29 PM
Chrysene	<0.0000238	0.0000238	0.0000475		mg/L	1	04/04/17 08:29 PM
Dibenz[a,h]anthracene	<0.0000238	0.0000238	0.0000475		mg/L	1	04/04/17 08:29 PM
Fluoranthene	<0.0000238	0.0000238	0.0000475		mg/L	1	04/04/17 08:29 PM
Fluorene	<0.0000238	0.0000238	0.0000475		mg/L	1	04/04/17 08:29 PM
Indeno[1,2,3-cd]pyrene	<0.0000238	0.0000238	0.0000475		mg/L	1	04/04/17 08:29 PM
Naphthalene	<0.0000238	0.0000238	0.0000475		mg/L	1	04/04/17 08:29 PM
Phenanthrene	<0.0000238	0.0000238	0.0000475		mg/L	1	04/04/17 08:29 PM
Pyrene	<0.0000238	0.0000238	0.0000475		mg/L	1	04/04/17 08:29 PM
Surr: 2-Fluorobiphenyl	68.1	0	48-120		%REC	1	04/04/17 08:29 PM
Surr: 4-Terphenyl-d14	80.5	0	51-135		%REC	1	04/04/17 08:29 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *17-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB20-013
Project:	Galveston RAP Sampling Mar. 2017	**Lab ID:**	1704005-08
Project No:	60420789	**Collection Date:**	03/31/17 12:10 PM
Lab Order:	1704005	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	4.11	0.585	1.17		mg/Kg-dry	5	04/06/17 10:38 AM
Arsenic	7.41	0.585	1.17		mg/Kg-dry	5	04/06/17 10:38 AM
Barium	868	5.85	23.4		mg/Kg-dry	50	04/06/17 11:52 AM
Beryllium	0.285	0.117	0.351	J	mg/Kg-dry	5	04/06/17 10:38 AM
Cadmium	3.03	0.117	0.351		mg/Kg-dry	5	04/06/17 10:38 AM
Chromium	29.4	0.585	2.34		mg/Kg-dry	5	04/06/17 10:38 AM
Lead	3440	1.17	3.51		mg/Kg-dry	50	04/06/17 11:52 AM
Nickel	17.5	0.585	2.34		mg/Kg-dry	5	04/06/17 10:38 AM
Selenium	0.779	0.175	0.585		mg/Kg-dry	5	04/06/17 10:38 AM
Silver	0.893	0.117	0.234		mg/Kg-dry	5	04/06/17 10:38 AM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	0.470	0.101	0.253		mg/Kg-dry	5	04/06/17 11:10 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.266	0.00614	0.0123		mg/Kg-dry	1	04/07/17 02:41 AM
Acenaphthylene	0.541	0.00614	0.0123		mg/Kg-dry	1	04/07/17 02:41 AM
Anthracene	1.06	0.00614	0.0123		mg/Kg-dry	1	04/07/17 02:41 AM
Benzo[a]anthracene	3.88	0.00614	0.0123		mg/Kg-dry	1	04/07/17 02:41 AM
Benzo[a]pyrene	4.08	0.00614	0.0123		mg/Kg-dry	1	04/07/17 02:41 AM
Benzo[b]fluoranthene	3.98	0.00614	0.0123		mg/Kg-dry	1	04/07/17 02:41 AM
Benzo[g,h,i]perylene	2.65	0.00614	0.0123		mg/Kg-dry	1	04/07/17 02:41 AM
Benzo[k]fluoranthene	2.13	0.00614	0.0123		mg/Kg-dry	1	04/07/17 02:41 AM
Chrysene	3.74	0.00614	0.0123		mg/Kg-dry	1	04/07/17 02:41 AM
Dibenz[a,h]anthracene	0.609	0.00614	0.0123		mg/Kg-dry	1	04/07/17 02:41 AM
Fluoranthene	7.74	0.0123	0.0245		mg/Kg-dry	2	04/07/17 12:00 PM
Fluorene	0.318	0.00614	0.0123		mg/Kg-dry	1	04/07/17 02:41 AM
Indeno[1,2,3-cd]pyrene	2.95	0.00614	0.0123		mg/Kg-dry	1	04/07/17 02:41 AM
Naphthalene	0.0670	0.00614	0.0123		mg/Kg-dry	1	04/07/17 02:41 AM
Phenanthrene	4.38	0.00614	0.0123		mg/Kg-dry	1	04/07/17 02:41 AM
Pyrene	5.92	0.00614	0.0123		mg/Kg-dry	1	04/07/17 02:41 AM
Surr: 2-Fluorobiphenyl	80.7	0	43-125		%REC	1	04/07/17 02:41 AM
Surr: 2-Fluorobiphenyl	77.2	0	43-125		%REC	2	04/07/17 12:00 PM
Surr: 4-Terphenyl-d14	83.8	0	32-125		%REC	1	04/07/17 02:41 AM
Surr: 4-Terphenyl-d14	85.3	0	32-125		%REC	2	04/07/17 12:00 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	21.8	0	0		WT%	1	04/06/17 08:43 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *17-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB20-020
Project:	Galveston RAP Sampling Mar. 2017	**Lab ID:**	1704005-09
Project No:	60420789	**Collection Date:**	03/31/17 12:20 PM
Lab Order:	1704005	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	6.06	0.523	1.05		mg/Kg-dry	5	04/12/17 01:11 PM
Arsenic	9.02	0.523	1.05		mg/Kg-dry	5	04/12/17 01:11 PM
Barium	283	0.523	2.09		mg/Kg-dry	5	04/12/17 01:11 PM
Beryllium	0.249	0.105	0.314	J	mg/Kg-dry	5	04/12/17 01:11 PM
Cadmium	9.76	0.105	0.314		mg/Kg-dry	5	04/12/17 01:11 PM
Chromium	29.8	0.523	2.09		mg/Kg-dry	5	04/12/17 01:11 PM
Lead	1250	1.05	3.14		mg/Kg-dry	50	04/12/17 01:32 PM
Nickel	17.7	0.523	2.09		mg/Kg-dry	5	04/12/17 01:11 PM
Selenium	0.848	0.157	0.523		mg/Kg-dry	5	04/12/17 01:11 PM
Silver	0.575	0.105	0.209		mg/Kg-dry	5	04/12/17 01:11 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	2.77	0.308	0.771		mg/Kg-dry	20	04/12/17 09:15 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.988	0.00564	0.0113		mg/Kg-dry	1	04/13/17 10:16 PM
Acenaphthylene	0.913	0.00564	0.0113		mg/Kg-dry	1	04/13/17 10:16 PM
Anthracene	2.37	0.00564	0.0113		mg/Kg-dry	1	04/13/17 10:16 PM
Benzo[a]anthracene	5.45	0.00564	0.0113		mg/Kg-dry	1	04/13/17 10:16 PM
Benzo[a]pyrene	5.16	0.00564	0.0113		mg/Kg-dry	1	04/13/17 10:16 PM
Benzo[b]fluoranthene	5.10	0.00564	0.0113		mg/Kg-dry	1	04/13/17 10:16 PM
Benzo[g,h,i]perylene	3.73	0.00564	0.0113		mg/Kg-dry	1	04/13/17 10:16 PM
Benzo[k]fluoranthene	2.62	0.00564	0.0113		mg/Kg-dry	1	04/13/17 10:16 PM
Chrysene	5.60	0.00564	0.0113		mg/Kg-dry	1	04/13/17 10:16 PM
Dibenz[a,h]anthracene	0.753	0.00564	0.0113		mg/Kg-dry	1	04/13/17 10:16 PM
Fluoranthene	17.7	0.0580	0.116		mg/Kg-dry	10	04/14/17 12:29 PM
Fluorene	0.979	0.00564	0.0113		mg/Kg-dry	1	04/13/17 10:16 PM
Indeno[1,2,3-cd]pyrene	3.95	0.00564	0.0113		mg/Kg-dry	1	04/13/17 10:16 PM
Naphthalene	0.905	0.00564	0.0113		mg/Kg-dry	1	04/13/17 10:16 PM
Phenanthrene	14.5	0.0580	0.116		mg/Kg-dry	10	04/14/17 12:29 PM
Pyrene	12.6	0.0580	0.116		mg/Kg-dry	10	04/14/17 12:29 PM
Surr: 2-Fluorobiphenyl	74.8	0	43-125		%REC	1	04/13/17 10:16 PM
Surr: 2-Fluorobiphenyl	77.3	0	43-125		%REC	10	04/14/17 12:29 PM
Surr: 4-Terphenyl-d14	76.7	0	32-125		%REC	1	04/13/17 10:16 PM
Surr: 4-Terphenyl-d14	76.5	0	32-125		%REC	10	04/14/17 12:29 PM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	18.6	0	0		WT%	1	04/13/17 07:36 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *17-Apr-17*

CLIENT:	AECOM	**Client Sample ID:**	HA-SB20-021
Project:	Galveston RAP Sampling Mar. 2017	**Lab ID:**	1704005-10
Project No:	60420789	**Collection Date:**	03/31/17 12:20 PM
Lab Order:	1704005	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SP**
Antimony	3.56	0.358	0.717		mg/Kg-dry	5	04/12/17 01:13 PM
Arsenic	8.78	0.358	0.717		mg/Kg-dry	5	04/12/17 01:13 PM
Barium	439	3.58	14.3		mg/Kg-dry	50	04/12/17 01:34 PM
Beryllium	0.246	0.0717	0.215		mg/Kg-dry	5	04/12/17 01:13 PM
Cadmium	6.48	0.0717	0.215		mg/Kg-dry	5	04/12/17 01:13 PM
Chromium	27.1	0.358	1.43		mg/Kg-dry	5	04/12/17 01:13 PM
Lead	770	0.717	2.15		mg/Kg-dry	50	04/12/17 01:34 PM
Nickel	18.8	0.358	1.43		mg/Kg-dry	5	04/12/17 01:13 PM
Selenium	0.784	0.108	0.358		mg/Kg-dry	5	04/12/17 01:13 PM
Silver	0.458	0.0717	0.143		mg/Kg-dry	5	04/12/17 01:13 PM
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **AH**
Mercury	3.34	0.332	0.831		mg/Kg-dry	20	04/12/17 09:17 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **LG**
Acenaphthene	0.394	0.00620	0.0124		mg/Kg-dry	1	04/13/17 09:12 PM
Acenaphthylene	0.304	0.00620	0.0124		mg/Kg-dry	1	04/13/17 09:12 PM
Anthracene	1.05	0.00620	0.0124		mg/Kg-dry	1	04/13/17 09:12 PM
Benzo[a]anthracene	2.55	0.00620	0.0124		mg/Kg-dry	1	04/13/17 09:12 PM
Benzo[a]pyrene	2.45	0.00620	0.0124		mg/Kg-dry	1	04/13/17 09:12 PM
Benzo[b]fluoranthene	2.43	0.00620	0.0124		mg/Kg-dry	1	04/13/17 09:12 PM
Benzo[g,h,i]perylene	1.79	0.00620	0.0124		mg/Kg-dry	1	04/13/17 09:12 PM
Benzo[k]fluoranthene	1.28	0.00620	0.0124		mg/Kg-dry	1	04/13/17 09:12 PM
Chrysene	2.65	0.00620	0.0124		mg/Kg-dry	1	04/13/17 09:12 PM
Dibenz[a,h]anthracene	0.343	0.00620	0.0124		mg/Kg-dry	1	04/13/17 09:12 PM
Fluoranthene	6.57	0.0126	0.0251		mg/Kg-dry	2	04/14/17 11:25 AM
Fluorene	0.399	0.00620	0.0124		mg/Kg-dry	1	04/13/17 09:12 PM
Indeno[1,2,3-cd]pyrene	1.83	0.00620	0.0124		mg/Kg-dry	1	04/13/17 09:12 PM
Naphthalene	0.281	0.00620	0.0124		mg/Kg-dry	1	04/13/17 09:12 PM
Phenanthrene	5.31	0.00620	0.0124		mg/Kg-dry	1	04/13/17 09:12 PM
Pyrene	4.90	0.00620	0.0124		mg/Kg-dry	1	04/13/17 09:12 PM
Surr: 2-Fluorobiphenyl	74.6	0	43-125		%REC	1	04/13/17 09:12 PM
Surr: 2-Fluorobiphenyl	70.8	0	43-125		%REC	2	04/14/17 11:25 AM
Surr: 4-Terphenyl-d14	81.4	0	32-125		%REC	1	04/13/17 09:12 PM
Surr: 4-Terphenyl-d14	73.7	0	32-125		%REC	2	04/14/17 11:25 AM
PERCENT MOISTURE		**D2216**					Analyst: **RO**
Percent Moisture	22.1	0	0		WT%	1	04/13/17 07:36 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *17-Apr-17*

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170119A**

Sample ID	**DCS-78789**	Batch ID:	**78789**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**CETAC2_HG_170119A**	Analysis Date:	**1/19/2017 11:50:30 AM**	Prep Date:	**1/18/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.000191	0.000200	0.000200	0	95.5	82	119	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170324A**

Sample ID	**DCS-79594**	Batch ID:	**79594**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**CETAC2_HG_170324A**	Analysis Date:	**3/24/2017 1:12:32 PM**	Prep Date:	**3/20/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0426	0.0400	0.04000	0	106	80	124	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170405A**

The QC data in batch 79830 applies to the following samples: 1704005-04A, 1704005-07A

Sample ID **MB-79830** Batch ID: **79830** TestNo: **SW7470A** Units: **mg/L**
SampType: **MBLK** Run ID: **CETAC2_HG_170405A** Analysis Date: **4/5/2017 10:02:26 AM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0000800	0.000200								

Sample ID **LCS-79830** Batch ID: **79830** TestNo: **SW7470A** Units: **mg/L**
SampType: **LCS** Run ID: **CETAC2_HG_170405A** Analysis Date: **4/5/2017 10:06:58 AM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00208	0.000200	0.00200	0	104	85	115			

Sample ID **LCSD-79830** Batch ID: **79830** TestNo: **SW7470A** Units: **mg/L**
SampType: **LCSD** Run ID: **CETAC2_HG_170405A** Analysis Date: **4/5/2017 10:09:15 AM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00192	0.000200	0.00200	0	96.0	85	115	8.00	15	

Sample ID **1703259-05A SD** Batch ID: **79830** TestNo: **SW7470A** Units: **mg/L**
SampType: **SD** Run ID: **CETAC2_HG_170405A** Analysis Date: **4/5/2017 10:27:21 AM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.000400	0.00100	0	0				0	10	

Sample ID **1703259-05A PDS** Batch ID: **79830** TestNo: **SW7470A** Units: **mg/L**
SampType: **PDS** Run ID: **CETAC2_HG_170405A** Analysis Date: **4/5/2017 10:29:37 AM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00209	0.000200	0.00250	0	83.6	85	115			S

Sample ID **1703259-05A MS** Batch ID: **79830** TestNo: **SW7470A** Units: **mg/L**
SampType: **MS** Run ID: **CETAC2_HG_170405A** Analysis Date: **4/5/2017 10:31:53 AM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00170	0.000200	0.00200	0	85.0	80	120			

Sample ID **1703259-05A MSD** Batch ID: **79830** TestNo: **SW7470A** Units: **mg/L**
SampType: **MSD** Run ID: **CETAC2_HG_170405A** Analysis Date: **4/5/2017 10:34:09 AM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00176	0.000200	0.00200	0	88.0	80	120	3.47	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170405A**

Sample ID	**ICV-170405**	Batch ID:	**R91254**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**CETAC2_HG_170405A**	Analysis Date:	**4/5/2017 9:57:52 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00387	0.000200	0.00400	0	96.8	90	110			

Sample ID	**CCV1-170405**	Batch ID:	**R91254**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170405A**	Analysis Date:	**4/5/2017 10:48:41 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00181	0.000200	0.00200	0	90.5	90	110			

Sample ID	**CCV2-170405**	Batch ID:	**R91254**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170405A**	Analysis Date:	**4/5/2017 11:16:01 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00184	0.000200	0.00200	0	92.0	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170406A**

The QC data in batch 79854 applies to the following samples: 1704005-01A, 1704005-03A, 1704005-05A, 1704005-08A

Sample ID **MB-79854** Batch ID: **79854** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **MBLK** Run ID: **CETAC2_HG_170406A** Analysis Date: **4/6/2017 10:21:25 AM** Prep Date: **4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0160	0.0400								

Sample ID **LCS-79854** Batch ID: **79854** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCS** Run ID: **CETAC2_HG_170406A** Analysis Date: **4/6/2017 10:23:40 AM** Prep Date: **4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.220	0.0400	0.2000	0	110	85	115			

Sample ID **LCSD-79854** Batch ID: **79854** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCSD** Run ID: **CETAC2_HG_170406A** Analysis Date: **4/6/2017 10:25:56 AM** Prep Date: **4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.221	0.0400	0.2000	0	110	85	115	0.454	25	

Sample ID **1704005-08A SD** Batch ID: **79854** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **CETAC2_HG_170406A** Analysis Date: **4/6/2017 11:12:59 AM** Prep Date: **4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.516	1.27	0	0.4698				9.38	10	

Sample ID **1704005-08A PDS** Batch ID: **79854** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **CETAC2_HG_170406A** Analysis Date: **4/6/2017 11:15:15 AM** Prep Date: **4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	2.05	0.253	1.583	0.4698	99.5	85	115			

Sample ID **1704005-08A MS** Batch ID: **79854** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **CETAC2_HG_170406A** Analysis Date: **4/6/2017 11:17:32 AM** Prep Date: **4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.669	0.214	0.2142	0.4698	93.2	80	120			

Sample ID **1704005-08A MSD** Batch ID: **79854** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **CETAC2_HG_170406A** Analysis Date: **4/6/2017 11:19:48 AM** Prep Date: **4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.737	0.246	0.2457	0.4698	109	80	120	9.62	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170406A**

Sample ID	**ICV-170406**	Batch ID:	**R91288**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**CETAC2_HG_170406A**	Analysis Date:	**4/6/2017 10:16:51 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00406	0.0400	0.004000	0	102	90	110			

Sample ID	**CCV1-170406**	Batch ID:	**R91288**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170406A**	Analysis Date:	**4/6/2017 10:57:42 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00202	0.0400	0.002000	0	101	90	110			

Sample ID	**CCV2-170406**	Batch ID:	**R91288**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170406A**	Analysis Date:	**4/6/2017 11:22:06 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00200	0.0400	0.002000	0	100	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170412A**

The QC data in batch 79945 applies to the following samples: 1704005-02A, 1704005-06A, 1704005-09A, 1704005-10A

Sample ID **MB-79945** Batch ID: **79945** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **MBLK** Run ID: **CETAC2_HG_170412A** Analysis Date: **4/12/2017 8:50:14 AM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0160	0.0400								

Sample ID **LCS-79945** Batch ID: **79945** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCS** Run ID: **CETAC2_HG_170412A** Analysis Date: **4/12/2017 8:52:30 AM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.214	0.0400	0.2000	0	107	85	115			

Sample ID **LCSD-79945** Batch ID: **79945** TestNo: **SW7471B** Units: **mg/Kg**
SampType: **LCSD** Run ID: **CETAC2_HG_170412A** Analysis Date: **4/12/2017 8:54:46 AM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.216	0.0400	0.2000	0	108	85	115	0.930	25	

Sample ID **1704005-02A SD** Batch ID: **79945** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **CETAC2_HG_170412A** Analysis Date: **4/12/2017 9:03:49 AM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.141	0.203	0	0.1387				1.45	10	

Sample ID **1704005-02A PDS** Batch ID: **79945** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **CETAC2_HG_170412A** Analysis Date: **4/12/2017 9:06:05 AM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.397	0.0405	0.2532	0.1387	102	85	115			

Sample ID **1704005-02A MS** Batch ID: **79945** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **CETAC2_HG_170412A** Analysis Date: **4/12/2017 9:08:21 AM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.316	0.0409	0.2045	0.1387	86.6	80	120			

Sample ID **1704005-02A MSD** Batch ID: **79945** TestNo: **SW7471B** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **CETAC2_HG_170412A** Analysis Date: **4/12/2017 9:10:37 AM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.308	0.0388	0.1940	0.1387	87.5	80	120	2.39	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170412A**

Sample ID	**ICV-170412**	Batch ID:	**R91397**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**CETAC2_HG_170412A**	Analysis Date:	**4/12/2017 8:45:40 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00396	0.0400	0.004000	0	99.0	90	110			

Sample ID	**CCV1-170412**	Batch ID:	**R91397**	TestNo:	**SW7471B**	Units:	**mg/Kg**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170412A**	Analysis Date:	**4/12/2017 9:24:15 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00200	0.0400	0.002000	0	100	90	110			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170322B**

Sample ID	**DCS1-79610**	Batch ID:	**79610**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**ICP-MS4_170322B**	Analysis Date:	**3/22/2017 11:28:00 AM**	Prep Date:	**3/21/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.262	0.300	0.2500	0	105	80	120	0	0	
Cadmium	0.256	0.300	0.2500	0	103	80	120	0	0	
Selenium	0.292	0.500	0.2500	0	117	80	120	0	0	
Silver	0.257	0.200	0.2500	0	103	80	120	0	0	

Sample ID	**DCS2-79610**	Batch ID:	**79610**	TestNo:	**SW6020A**	Units:	**mg/Kg**
SampType:	**DCS2**	Run ID:	**ICP-MS4_170322B**	Analysis Date:	**3/22/2017 11:30:00 AM**	Prep Date:	**3/21/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	1.21	1.00	1.250	0	97.2	80	120	0	0	
Arsenic	1.26	1.00	1.250	0	101	80	120	0	0	
Barium	1.34	2.00	1.250	0	107	80	120	0	0	
Chromium	1.39	2.00	1.250	0	111	80	120	0	0	
Lead	1.30	0.300	1.250	0	104	80	120	0	0	
Nickel	1.51	2.00	1.250	0	121	80	120	0	0	S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170406A**

The QC data in batch 79853 applies to the following samples: 1704005-01A, 1704005-03A, 1704005-05A, 1704005-08A

Sample ID **MB-79853** Batch ID: **79853** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 10:30:00 AM** Prep Date: **4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.500	1.00								
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Beryllium	<0.100	0.300								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Lead	<0.100	0.300								
Nickel	<0.500	2.00								
Selenium	<0.150	0.500								
Silver	<0.100	0.200								

Sample ID **LCS-79853** Batch ID: **79853** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 10:32:00 AM** Prep Date: **4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	49.5	1.00	50.00	0	99.0	80	120			
Arsenic	49.7	1.00	50.00	0	99.4	80	120			
Barium	52.0	2.00	50.00	0	104	80	120			
Beryllium	52.4	0.300	50.00	0	105	80	120			
Cadmium	52.4	0.300	50.00	0	105	80	120			
Chromium	53.8	2.00	50.00	0	108	80	120			
Lead	51.6	0.300	50.00	0	103	80	120			
Nickel	54.0	2.00	50.00	0	108	80	120			
Selenium	48.7	0.500	50.00	0	97.5	80	120			
Silver	52.5	0.200	50.00	0	105	80	120			

Sample ID **LCSD-79853** Batch ID: **79853** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 10:34:00 AM** Prep Date: **4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	49.6	1.00	50.00	0	99.3	80	120	0.295	25	
Arsenic	49.5	1.00	50.00	0	99.1	80	120	0.363	25	
Barium	51.8	2.00	50.00	0	104	80	120	0.316	25	
Beryllium	52.7	0.300	50.00	0	105	80	120	0.491	25	
Cadmium	52.2	0.300	50.00	0	104	80	120	0.285	25	
Chromium	53.8	2.00	50.00	0	108	80	120	0.057	25	
Lead	51.7	0.300	50.00	0	103	80	120	0.130	25	
Nickel	53.8	2.00	50.00	0	108	80	120	0.201	25	
Selenium	48.9	0.500	50.00	0	97.7	80	120	0.240	25	
Silver	52.1	0.200	50.00	0	104	80	120	0.707	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170406A**

Sample ID **1704005-08A SD** Batch ID: **79853** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 10:40:00 AM** Prep Date: **4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	4.09	5.85	0	4.113				0.613	10	
Arsenic	7.39	5.85	0	7.408				0.245	10	
Beryllium	<0.585	1.75	0	0.2845				0	10	
Cadmium	3.07	1.75	0	3.034				1.19	10	
Chromium	30.2	11.7	0	29.44				2.52	10	
Nickel	17.7	11.7	0	17.53				0.774	10	
Selenium	1.00	2.92	0	0.7788				25.2	10	R
Silver	0.940	1.17	0	0.8934				5.10	10	

Sample ID **1704005-08A PDS** Batch ID: **79853** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 10:59:00 AM** Prep Date: **4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	59.9	1.17	58.49	4.113	95.4	80	120			
Arsenic	65.2	1.17	58.49	7.408	98.9	80	120			
Beryllium	56.6	0.351	58.49	0.2845	96.2	80	120			
Cadmium	61.2	0.351	58.49	3.034	99.4	80	120			
Chromium	91.9	2.34	58.49	29.44	107	80	120			
Nickel	77.3	2.34	58.49	17.53	102	80	120			
Selenium	56.1	0.585	58.49	0.7788	94.6	80	120			
Silver	59.8	0.234	58.49	0.8934	101	80	120			

Sample ID **1704005-08A MS** Batch ID: **79853** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 11:01:00 AM** Prep Date: **4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	62.4	1.27	63.28	4.113	92.1	80	120			
Arsenic	71.1	1.27	63.28	7.408	101	80	120			
Barium	968	2.53	63.28	844.9	194	80	120			S
Beryllium	61.6	0.380	63.28	0.2845	96.9	80	120			
Cadmium	66.9	0.380	63.28	3.034	101	80	120			
Chromium	93.8	2.53	63.28	29.44	102	80	120			
Lead	613	0.380	63.28	3469	-4510	80	120			S
Nickel	84.6	2.53	63.28	17.53	106	80	120			
Selenium	62.3	0.633	63.28	0.7788	97.2	80	120			
Silver	63.8	0.253	63.28	0.8934	99.3	80	120			

Sample ID **1704005-08A MSD** Batch ID: **79853** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 11:03:00 AM** Prep Date: **4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170406A**

Sample ID **1704005-08A MSD** Batch ID: **79853** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 11:03:00 AM** Prep Date: **4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	59.5	1.23	61.58	4.113	89.9	80	120	4.79	25	
Arsenic	70.0	1.23	61.58	7.408	102	80	120	1.59	25	
Barium	992	2.46	61.58	844.9	239	80	120	2.43	25	S
Beryllium	61.3	0.369	61.58	0.2845	99.1	80	120	0.385	25	
Cadmium	65.6	0.369	61.58	3.034	102	80	120	2.01	25	
Chromium	91.0	2.46	61.58	29.44	99.9	80	120	3.02	25	
Lead	621	0.369	61.58	3469	-4630	80	120	1.33	25	S
Nickel	83.3	2.46	61.58	17.53	107	80	120	1.59	25	
Selenium	60.3	0.616	61.58	0.7788	96.7	80	120	3.19	25	
Silver	61.9	0.246	61.58	0.8934	99.1	80	120	2.87	25	

Sample ID **1704005-08A SD** Batch ID: **79853** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 11:54:00 AM** Prep Date: **4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	868	117	0	868.5				0.009	10	
Lead	3520	17.5	0	3444				2.15	10	

Sample ID **1704005-08A PDS** Batch ID: **79853** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 12:02:00 PM** Prep Date: **4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	1470	23.4	584.9	868.5	102	80	120			
Lead	4060	3.51	584.9	3444	105	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170406A**

Sample ID **ICV-170406** Batch ID: **R91302** TestNo: **SW6020A** Units: **mg/L**
SampType: **ICV** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 10:20:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.101	0.00250	0.100	0	101	90	110			
Arsenic	0.101	0.00500	0.100	0	101	90	110			
Barium	0.104	0.0100	0.100	0	104	90	110			
Beryllium	0.103	0.00100	0.100	0	103	90	110			
Cadmium	0.105	0.00100	0.100	0	105	90	110			
Chromium	0.110	0.00500	0.100	0	110	90	110			
Lead	0.104	0.00100	0.100	0	104	90	110			
Nickel	0.108	0.0100	0.100	0	108	90	110			
Selenium	0.101	0.00500	0.100	0	101	90	110			
Silver	0.107	0.00200	0.100	0	107	90	110			

Sample ID **LCVL-170406** Batch ID: **R91302** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 10:24:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00201	0.00250	0.00200	0	100	70	130			
Arsenic	0.00503	0.00500	0.00500	0	101	70	130			
Barium	0.00518	0.0100	0.00500	0	104	70	130			
Beryllium	0.000960	0.00100	0.00100	0	96.0	70	130			
Cadmium	0.00110	0.00100	0.00100	0	110	70	130			
Chromium	0.00536	0.00500	0.00500	0	107	70	130			
Lead	0.00106	0.00100	0.00100	0	106	70	130			
Nickel	0.00538	0.0100	0.00500	0	108	70	130			
Selenium	0.00513	0.00500	0.00500	0	103	70	130			
Silver	0.00212	0.00200	0.00200	0	106	70	130			

Sample ID **CCV1-170406** Batch ID: **R91302** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 11:12:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.199	0.00250	0.200	0	99.5	90	110			
Arsenic	0.203	0.00500	0.200	0	102	90	110			
Barium	0.209	0.0100	0.200	0	105	90	110			
Beryllium	0.207	0.00100	0.200	0	104	90	110			
Cadmium	0.211	0.00100	0.200	0	106	90	110			
Chromium	0.214	0.00500	0.200	0	107	90	110			
Lead	0.208	0.00100	0.200	0	104	90	110			
Nickel	0.216	0.0100	0.200	0	108	90	110			
Selenium	0.202	0.00500	0.200	0	101	90	110			
Silver	0.208	0.00200	0.200	0	104	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170406A**

Sample ID **LCVL1-170406** Batch ID: **R91302** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 11:16:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00210	0.00250	0.00200	0	105	70	130			
Arsenic	0.00511	0.00500	0.00500	0	102	70	130			
Barium	0.00531	0.0100	0.00500	0	106	70	130			
Beryllium	0.00100	0.00100	0.00100	0	100	70	130			
Cadmium	0.00107	0.00100	0.00100	0	107	70	130			
Chromium	0.00542	0.00500	0.00500	0	108	70	130			
Lead	0.00118	0.00100	0.00100	0	118	70	130			
Nickel	0.00551	0.0100	0.00500	0	110	70	130			
Selenium	0.00528	0.00500	0.00500	0	106	70	130			
Silver	0.00217	0.00200	0.00200	0	109	70	130			

Sample ID **CCV2-170406** Batch ID: **R91302** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 11:39:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.209	0.0100	0.200	0	104	90	110			
Lead	0.205	0.00100	0.200	0	102	90	110			

Sample ID **LCVL2-170406** Batch ID: **R91302** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 11:47:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00512	0.0100	0.00500	0	102	70	130			
Lead	0.00107	0.00100	0.00100	0	107	70	130			

Sample ID **CCV3-170406** Batch ID: **R91302** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 12:04:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.208	0.0100	0.200	0	104	90	110			
Lead	0.205	0.00100	0.200	0	103	90	110			

Sample ID **LCVL3-170406** Batch ID: **R91302** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170406A** Analysis Date: **4/6/2017 12:10:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00514	0.0100	0.00500	0	103	70	130			
Lead	0.00108	0.00100	0.00100	0	108	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170412B**

The QC data in batch 79943 applies to the following samples: 1704005-02A, 1704005-06A, 1704005-09A, 1704005-10A

Sample ID **MB-79943** Batch ID: **79943** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 12:51:00 PM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.500	1.00								
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Beryllium	<0.100	0.300								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Lead	<0.100	0.300								
Nickel	<0.500	2.00								
Selenium	<0.150	0.500								
Silver	<0.100	0.200								

Sample ID **LCS-79943** Batch ID: **79943** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 12:53:00 PM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	51.0	1.00	50.00	0	102	80	120			
Arsenic	50.5	1.00	50.00	0	101	80	120			
Barium	51.8	2.00	50.00	0	104	80	120			
Beryllium	51.5	0.300	50.00	0	103	80	120			
Cadmium	51.1	0.300	50.00	0	102	80	120			
Chromium	53.1	2.00	50.00	0	106	80	120			
Lead	51.3	0.300	50.00	0	103	80	120			
Nickel	53.2	2.00	50.00	0	106	80	120			
Selenium	49.4	0.500	50.00	0	98.9	80	120			
Silver	52.0	0.200	50.00	0	104	80	120			

Sample ID **LCSD-79943** Batch ID: **79943** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 12:55:00 PM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	50.9	1.00	50.00	0	102	80	120	0.197	25	
Arsenic	49.5	1.00	50.00	0	99.0	80	120	2.09	25	
Barium	51.7	2.00	50.00	0	103	80	120	0.231	25	
Beryllium	51.8	0.300	50.00	0	104	80	120	0.455	25	
Cadmium	50.9	0.300	50.00	0	102	80	120	0.321	25	
Chromium	52.3	2.00	50.00	0	105	80	120	1.45	25	
Lead	51.3	0.300	50.00	0	103	80	120	0.046	25	
Nickel	52.5	2.00	50.00	0	105	80	120	1.39	25	
Selenium	48.7	0.500	50.00	0	97.3	80	120	1.57	25	
Silver	51.8	0.200	50.00	0	104	80	120	0.287	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170412B**

Sample ID **1704005-02A SD** Batch ID: **79943** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 1:01:00 PM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<2.45	4.90	0	1.574				0	10	
Arsenic	12.1	4.90	0	11.61				3.83	10	
Barium	283	9.80	0	284.1				0.534	10	
Beryllium	<0.490	1.47	0	0.4039				0	10	
Cadmium	0.872	1.47	0	0.8619				1.22	10	
Chromium	28.5	9.80	0	27.73				2.72	10	
Lead	290	1.47	0	289.7				0.119	10	
Nickel	10.3	9.80	0	10.12				1.47	10	
Selenium	1.04	2.45	0	0.9307				10.8	10	R
Silver	<0.490	0.980	0	0.2085				0	10	

Sample ID **1704005-02A PDS** Batch ID: **79943** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 1:17:00 PM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	50.7	0.980	49.01	1.574	100	80	120			
Arsenic	62.6	0.980	49.01	11.61	104	80	120			
Barium	343	1.96	49.01	284.1	121	80	120			S
Beryllium	50.2	0.294	49.01	0.4039	102	80	120			
Cadmium	51.2	0.294	49.01	0.8619	103	80	120			
Chromium	82.5	1.96	49.01	27.73	112	80	120			
Lead	348	0.294	49.01	289.7	118	80	120			
Nickel	62.4	1.96	49.01	10.12	107	80	120			
Selenium	48.8	0.490	49.01	0.9307	97.8	80	120			
Silver	50.6	0.196	49.01	0.2085	103	80	120			

Sample ID **1704005-02A MS** Batch ID: **79943** TestNo: **SW6020A** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 1:19:00 PM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	48.4	1.03	51.66	1.574	90.7	80	120			
Arsenic	59.5	1.03	51.66	11.61	92.7	80	120			
Barium	250	2.07	51.66	284.1	-66.3	80	120			S
Beryllium	51.1	0.310	51.66	0.4039	98.2	80	120			
Cadmium	50.7	0.310	51.66	0.8619	96.5	80	120			
Chromium	68.5	2.07	51.66	27.73	79.0	80	120			S
Lead	219	0.310	51.66	289.7	-138	80	120			S
Nickel	61.3	2.07	51.66	10.12	99.1	80	120			
Selenium	49.4	0.517	51.66	0.9307	93.9	80	120			
Silver	50.5	0.207	51.66	0.2085	97.3	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170412B**

Sample ID	**1704005-02A MSD**	Batch ID:	**79943**	TestNo:	**SW6020A**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**ICP-MS4_170412B**	Analysis Date:	**4/12/2017 1:20:00 PM**	Prep Date:	**4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	50.4	1.06	53.01	1.574	92.0	80	120	3.88	25	
Arsenic	64.1	1.06	53.01	11.61	99.0	80	120	7.40	25	
Barium	317	2.12	53.01	284.1	62.6	80	120	23.8	25	S
Beryllium	53.5	0.318	53.01	0.4039	100	80	120	4.48	25	
Cadmium	53.9	0.318	53.01	0.8619	100	80	120	6.12	25	
Chromium	74.2	2.12	53.01	27.73	87.6	80	120	7.90	25	
Lead	216	0.318	53.01	289.7	-139	80	120	1.25	25	S
Nickel	65.0	2.12	53.01	10.12	104	80	120	5.89	25	
Selenium	52.3	0.530	53.01	0.9307	96.9	80	120	5.63	25	
Silver	54.0	0.212	53.01	0.2085	101	80	120	6.64	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170412B**

Sample ID **ICV-170412** Batch ID: **R91412** TestNo: **SW6020A** Units: **mg/L**
SampType: **ICV** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 10:59:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.105	0.00250	0.100	0	105	90	110			
Arsenic	0.101	0.00500	0.100	0	101	90	110			
Barium	0.104	0.0100	0.100	0	104	90	110			
Beryllium	0.105	0.00100	0.100	0	105	90	110			
Cadmium	0.106	0.00100	0.100	0	106	90	110			
Chromium	0.109	0.00500	0.100	0	109	90	110			
Lead	0.103	0.00100	0.100	0	103	90	110			
Nickel	0.107	0.0100	0.100	0	107	90	110			
Selenium	0.102	0.00500	0.100	0	102	90	110			
Silver	0.108	0.00200	0.100	0	108	90	110			

Sample ID **LCVL-170412** Batch ID: **R91412** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 11:06:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00202	0.00250	0.00200	0	101	70	130			
Arsenic	0.00503	0.00500	0.00500	0	101	70	130			
Barium	0.00499	0.0100	0.00500	0	99.8	70	130			
Beryllium	0.000937	0.00100	0.00100	0	93.7	70	130			
Cadmium	0.00108	0.00100	0.00100	0	108	70	130			
Chromium	0.00520	0.00500	0.00500	0	104	70	130			
Lead	0.00103	0.00100	0.00100	0	103	70	130			
Nickel	0.00524	0.0100	0.00500	0	105	70	130			
Selenium	0.00528	0.00500	0.00500	0	106	70	130			
Silver	0.00205	0.00200	0.00200	0	103	70	130			

Sample ID **CCV3-170412** Batch ID: **R91412** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 12:43:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.200	0.00250	0.200	0	100	90	110			
Arsenic	0.199	0.00500	0.200	0	99.4	90	110			
Barium	0.202	0.0100	0.200	0	101	90	110			
Beryllium	0.197	0.00100	0.200	0	98.5	90	110			
Cadmium	0.200	0.00100	0.200	0	99.9	90	110			
Chromium	0.202	0.00500	0.200	0	101	90	110			
Lead	0.199	0.00100	0.200	0	99.7	90	110			
Nickel	0.204	0.0100	0.200	0	102	90	110			
Selenium	0.200	0.00500	0.200	0	99.9	90	110			
Silver	0.200	0.00200	0.200	0	99.9	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170412B**

Sample ID **LCVL3-170412** Batch ID: **R91412** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 12:47:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00216	0.00250	0.00200	0	108	70	130			
Arsenic	0.00506	0.00500	0.00500	0	101	70	130			
Barium	0.00504	0.0100	0.00500	0	101	70	130			
Beryllium	0.00118	0.00100	0.00100	0	118	70	130			
Cadmium	0.00104	0.00100	0.00100	0	104	70	130			
Chromium	0.00518	0.00500	0.00500	0	104	70	130			
Lead	0.00104	0.00100	0.00100	0	104	70	130			
Nickel	0.00518	0.0100	0.00500	0	104	70	130			
Selenium	0.00554	0.00500	0.00500	0	111	70	130			
Silver	0.00203	0.00200	0.00200	0	102	70	130			

Sample ID **CCV4-170412** Batch ID: **R91412** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 1:22:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.199	0.00250	0.200	0	99.3	90	110			
Arsenic	0.199	0.00500	0.200	0	99.7	90	110			
Barium	0.200	0.0100	0.200	0	100	90	110			
Beryllium	0.206	0.00100	0.200	0	103	90	110			
Cadmium	0.201	0.00100	0.200	0	101	90	110			
Chromium	0.208	0.00500	0.200	0	104	90	110			
Lead	0.200	0.00100	0.200	0	100	90	110			
Nickel	0.207	0.0100	0.200	0	104	90	110			
Selenium	0.199	0.00500	0.200	0	99.4	90	110			
Silver	0.203	0.00200	0.200	0	101	90	110			

Sample ID **LCVL4-170412** Batch ID: **R91412** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170412B** Analysis Date: **4/12/2017 1:26:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00210	0.00250	0.00200	0	105	70	130			
Arsenic	0.00507	0.00500	0.00500	0	101	70	130			
Barium	0.00509	0.0100	0.00500	0	102	70	130			
Beryllium	0.00103	0.00100	0.00100	0	103	70	130			
Cadmium	0.00104	0.00100	0.00100	0	104	70	130			
Chromium	0.00522	0.00500	0.00500	0	104	70	130			
Lead	0.00113	0.00100	0.00100	0	113	70	130			
Nickel	0.00522	0.0100	0.00500	0	104	70	130			
Selenium	0.00560	0.00500	0.00500	0	112	70	130			
Silver	0.00202	0.00200	0.00200	0	101	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170412B**

Sample ID	**CCV5-170412**	Batch ID:	**R91412**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_170412B**	Analysis Date:	**4/12/2017 1:36:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.201	0.0100	0.200	0	100	90	110			
Lead	0.201	0.00100	0.200	0	100	90	110			

Sample ID	**LCVL5-170412**	Batch ID:	**R91412**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170412B**	Analysis Date:	**4/12/2017 1:40:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00508	0.0100	0.00500	0	102	70	130			
Lead	0.00110	0.00100	0.00100	0	110	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170202B**

Sample ID	**DCS1-78981**	Batch ID:	**78981**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**ICP-MS5_170202B**	Analysis Date:	**2/2/2017 2:53:00 PM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.000945	0.00250	0.00100	0	94.5	80	120	0	0	
Beryllium	0.000555	0.00100	0.000500	0	111	80	120	0	0	
Cadmium	0.000525	0.00100	0.000500	0	105	80	120	0	0	
Lead	0.000483	0.00100	0.000500	0	96.6	80	120	0	0	

Sample ID	**DCS2-78981**	Batch ID:	**78981**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**DCS2**	Run ID:	**ICP-MS5_170202B**	Analysis Date:	**2/2/2017 2:55:00 PM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.00206	0.00500	0.00200	0	103	80	120	0	0	
Silver	0.00194	0.00200	0.00200	0	97.2	80	120	0	0	

Sample ID	**DCS3-78981**	Batch ID:	**78981**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**DCS3**	Run ID:	**ICP-MS5_170202B**	Analysis Date:	**2/2/2017 2:57:00 PM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00532	0.00500	0.00500	0	106	80	120	0	0	
Barium	0.00542	0.0100	0.00500	0	108	80	120	0	0	
Nickel	0.00594	0.0100	0.00500	0	119	80	120	0	0	
Selenium	0.00540	0.00500	0.00500	0	108	80	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170407A**

The QC data in batch 79877 applies to the following samples: 1704005-04A, 1704005-07A

Sample ID **MB-79877** Batch ID: **79877** TestNo: **SW6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS5_170407A** Analysis Date: **4/7/2017 12:23:00 PM** Prep Date: **4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.000800	0.00250								
Arsenic	<0.00200	0.00500								
Barium	<0.00300	0.0100								
Beryllium	<0.000300	0.00100								
Cadmium	<0.000300	0.00100								
Chromium	<0.00200	0.00500								
Lead	<0.000300	0.00100								
Nickel	<0.00300	0.0100								
Selenium	<0.00200	0.00500								
Silver	<0.00100	0.00200								

Sample ID **LCS-79877** Batch ID: **79877** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS5_170407A** Analysis Date: **4/7/2017 12:25:00 PM** Prep Date: **4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.195	0.00250	0.200	0	97.6	80	120			
Arsenic	0.193	0.00500	0.200	0	96.6	80	120			
Barium	0.184	0.0100	0.200	0	91.9	80	120			
Beryllium	0.196	0.00100	0.200	0	97.8	80	120			
Cadmium	0.186	0.00100	0.200	0	93.0	80	120			
Chromium	0.197	0.00500	0.200	0	98.3	80	120			
Lead	0.195	0.00100	0.200	0	97.4	80	120			
Nickel	0.199	0.0100	0.200	0	99.7	80	120			
Selenium	0.198	0.00500	0.200	0	98.9	80	120			
Silver	0.201	0.00200	0.200	0	100	80	120			

Sample ID **LCSD-79877** Batch ID: **79877** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS5_170407A** Analysis Date: **4/7/2017 12:26:00 PM** Prep Date: **4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.195	0.00250	0.200	0	97.6	80	120	0.029	15	
Arsenic	0.195	0.00500	0.200	0	97.5	80	120	0.874	15	
Barium	0.183	0.0100	0.200	0	91.7	80	120	0.149	15	
Beryllium	0.199	0.00100	0.200	0	99.5	80	120	1.78	15	
Cadmium	0.187	0.00100	0.200	0	93.3	80	120	0.317	15	
Chromium	0.197	0.00500	0.200	0	98.4	80	120	0.075	15	
Lead	0.198	0.00100	0.200	0	98.9	80	120	1.53	15	
Nickel	0.201	0.0100	0.200	0	100	80	120	0.754	15	
Selenium	0.198	0.00500	0.200	0	98.8	80	120	0.070	15	
Silver	0.201	0.00200	0.200	0	100	80	120	0.125	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170407A**

Sample ID	**1704019-03A SD**	Batch ID:	**79877**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**SD**	Run ID:	**ICP-MS5_170407A**	Analysis Date:	**4/7/2017 12:32:00 PM**	Prep Date:	**4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.00400	0.0125	0	0				0	10	
Arsenic	<0.0100	0.0250	0	0.00361				0	10	
Barium	0.0317	0.0500	0	0.0313				1.31	10	
Beryllium	<0.00150	0.00500	0	0.000322				0	10	
Cadmium	<0.00150	0.00500	0	0.00141				0	10	
Chromium	<0.0100	0.0250	0	0				0	10	
Lead	<0.00150	0.00500	0	0.00123				0	10	
Nickel	<0.0150	0.0500	0	0				0	10	
Selenium	<0.0100	0.0250	0	0				0	10	
Silver	<0.00500	0.0100	0	0				0	10	

Sample ID	**1704019-03A PDS**	Batch ID:	**79877**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**PDS**	Run ID:	**ICP-MS5_170407A**	Analysis Date:	**4/7/2017 12:49:00 PM**	Prep Date:	**4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.206	0.00250	0.200	0	103	80	120			
Arsenic	0.201	0.00500	0.200	0.00361	98.7	80	120			
Barium	0.219	0.0100	0.200	0.0313	94.1	80	120			
Beryllium	0.202	0.00100	0.200	0.000322	101	80	120			
Cadmium	0.190	0.00100	0.200	0.00141	94.5	80	120			
Chromium	0.202	0.00500	0.200	0	101	80	120			
Lead	0.198	0.00100	0.200	0.00123	98.5	80	120			
Nickel	0.198	0.0100	0.200	0	99.0	80	120			
Selenium	0.196	0.00500	0.200	0	98.2	80	120			
Silver	0.200	0.00200	0.200	0	99.9	80	120			

Sample ID	**1704019-03A MS**	Batch ID:	**79877**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**ICP-MS5_170407A**	Analysis Date:	**4/7/2017 12:51:00 PM**	Prep Date:	**4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.198	0.00250	0.200	0	99.2	80	120			
Arsenic	0.202	0.00500	0.200	0.00361	99.2	80	120			
Barium	0.217	0.0100	0.200	0.0313	92.6	80	120			
Beryllium	0.197	0.00100	0.200	0.000322	98.2	80	120			
Cadmium	0.187	0.00100	0.200	0.00141	92.7	80	120			
Chromium	0.193	0.00500	0.200	0	96.7	80	120			
Lead	0.196	0.00100	0.200	0.00123	97.5	80	120			
Nickel	0.194	0.0100	0.200	0	96.9	80	120			
Selenium	0.198	0.00500	0.200	0	99.0	80	120			
Silver	0.195	0.00200	0.200	0	97.6	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170407A**

Sample ID	**1704019-03A MSD**	Batch ID:	**79877**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**ICP-MS5_170407A**	Analysis Date:	**4/7/2017 12:52:00 PM**	Prep Date:	**4/6/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.200	0.00250	0.200	0	100	80	120	0.871	15	
Arsenic	0.201	0.00500	0.200	0.00361	98.8	80	120	0.367	15	
Barium	0.219	0.0100	0.200	0.0313	94.0	80	120	1.27	15	
Beryllium	0.198	0.00100	0.200	0.000322	99.0	80	120	0.888	15	
Cadmium	0.189	0.00100	0.200	0.00141	93.7	80	120	1.06	15	
Chromium	0.195	0.00500	0.200	0	97.7	80	120	1.03	15	
Lead	0.199	0.00100	0.200	0.00123	98.7	80	120	1.23	15	
Nickel	0.194	0.0100	0.200	0	96.9	80	120	0.009	15	
Selenium	0.197	0.00500	0.200	0	98.6	80	120	0.378	15	
Silver	0.195	0.00200	0.200	0	97.6	80	120	0.008	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170407A**

Sample ID **ICV-170407** Batch ID: **R91316** TestNo: **SW6020A** Units: **mg/L**
SampType: **ICV** Run ID: **ICP-MS5_170407A** Analysis Date: **4/7/2017 11:25:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.103	0.00250	0.100	0	103	90	110			
Arsenic	0.103	0.00500	0.100	0	103	90	110			
Barium	0.0967	0.0100	0.100	0	96.7	90	110			
Beryllium	0.102	0.00100	0.100	0	102	90	110			
Cadmium	0.0981	0.00100	0.100	0	98.1	90	110			
Chromium	0.107	0.00500	0.100	0	107	90	110			
Lead	0.102	0.00100	0.100	0	102	90	110			
Nickel	0.106	0.0100	0.100	0	106	90	110			
Selenium	0.102	0.00500	0.100	0	102	90	110			
Silver	0.103	0.00200	0.100	0	103	90	110			

Sample ID **LCVL-170407** Batch ID: **R91316** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS5_170407A** Analysis Date: **4/7/2017 11:34:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00200	0.00250	0.00200	0	99.8	70	130			
Arsenic	0.00491	0.00500	0.00500	0	98.3	70	130			
Barium	0.00464	0.0100	0.00500	0	92.7	70	130			
Beryllium	0.00121	0.00100	0.00100	0	121	70	130			
Cadmium	0.000961	0.00100	0.00100	0	96.1	70	130			
Chromium	0.00519	0.00500	0.00500	0	104	70	130			
Lead	0.000981	0.00100	0.00100	0	98.1	70	130			
Nickel	0.00528	0.0100	0.00500	0	106	70	130			
Selenium	0.00544	0.00500	0.00500	0	109	70	130			
Silver	0.00203	0.00200	0.00200	0	101	70	130			

Sample ID **CCV1-170407** Batch ID: **R91316** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS5_170407A** Analysis Date: **4/7/2017 12:16:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.195	0.00250	0.200	0	97.7	90	110			
Arsenic	0.203	0.00500	0.200	0	101	90	110			
Barium	0.190	0.0100	0.200	0	95.1	90	110			
Beryllium	0.205	0.00100	0.200	0	102	90	110			
Cadmium	0.192	0.00100	0.200	0	95.9	90	110			
Chromium	0.203	0.00500	0.200	0	101	90	110			
Lead	0.203	0.00100	0.200	0	102	90	110			
Nickel	0.209	0.0100	0.200	0	104	90	110			
Selenium	0.205	0.00500	0.200	0	103	90	110			
Silver	0.199	0.00200	0.200	0	99.3	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170407A**

Sample ID **LCVL1-170407** Batch ID: **R91316** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS5_170407A** Analysis Date: **4/7/2017 12:19:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00208	0.00250	0.00200	0	104	70	130			
Arsenic	0.00509	0.00500	0.00500	0	102	70	130			
Barium	0.00495	0.0100	0.00500	0	99.0	70	130			
Beryllium	0.00129	0.00100	0.00100	0	129	70	130			
Cadmium	0.00102	0.00100	0.00100	0	102	70	130			
Chromium	0.00526	0.00500	0.00500	0	105	70	130			
Lead	0.00101	0.00100	0.00100	0	101	70	130			
Nickel	0.00548	0.0100	0.00500	0	110	70	130			
Selenium	0.00502	0.00500	0.00500	0	100	70	130			
Silver	0.00206	0.00200	0.00200	0	103	70	130			

Sample ID **CCV2-170407** Batch ID: **R91316** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS5_170407A** Analysis Date: **4/7/2017 12:54:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.196	0.00250	0.200	0	98.2	90	110			
Arsenic	0.205	0.00500	0.200	0	103	90	110			
Barium	0.189	0.0100	0.200	0	94.7	90	110			
Beryllium	0.202	0.00100	0.200	0	101	90	110			
Cadmium	0.192	0.00100	0.200	0	96.2	90	110			
Chromium	0.201	0.00500	0.200	0	101	90	110			
Lead	0.203	0.00100	0.200	0	101	90	110			
Nickel	0.203	0.0100	0.200	0	102	90	110			
Selenium	0.206	0.00500	0.200	0	103	90	110			
Silver	0.198	0.00200	0.200	0	99.2	90	110			

Sample ID **LCVL2-170407** Batch ID: **R91316** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS5_170407A** Analysis Date: **4/7/2017 12:58:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00208	0.00250	0.00200	0	104	70	130			
Arsenic	0.00518	0.00500	0.00500	0	104	70	130			
Barium	0.00476	0.0100	0.00500	0	95.1	70	130			
Beryllium	0.00112	0.00100	0.00100	0	112	70	130			
Cadmium	0.000959	0.00100	0.00100	0	95.9	70	130			
Chromium	0.00522	0.00500	0.00500	0	104	70	130			
Lead	0.000996	0.00100	0.00100	0	99.6	70	130			
Nickel	0.00526	0.0100	0.00500	0	105	70	130			
Selenium	0.00538	0.00500	0.00500	0	108	70	130			
Silver	0.00202	0.00200	0.00200	0	101	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170104A**

Sample ID **DCS-78416**	Batch ID: **78416**	TestNo: **SW8270D-LL**	Units: **mg/Kg**
SampType: **DCS**	Run ID: **GCMS6_170104A**	Analysis Date: **1/4/2017 2:16:00 PM**	Prep Date: **12/21/2016**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0105	0.0500	0.01000	0	105	20	200	0	0	
Acenaphthylene	0.0106	0.0500	0.01000	0	106	20	200	0	0	
Anthracene	0.0103	0.0500	0.01000	0	103	20	200	0	0	
Benzo[a]anthracene	0.0118	0.0500	0.01000	0	118	20	200	0	0	
Benzo[a]pyrene	0.0109	0.0500	0.01000	0	109	20	200	0	0	
Benzo[b]fluoranthene	0.0116	0.0500	0.01000	0	116	20	200	0	0	
Benzo[g,h,i]perylene	0.0124	0.0500	0.01000	0	124	20	200	0	0	
Benzo[k]fluoranthene	0.0126	0.0500	0.01000	0	127	20	200	0	0	
Chrysene	0.0124	0.0500	0.01000	0	124	20	200	0	0	
Dibenz[a,h]anthracene	0.0120	0.0500	0.01000	0	120	20	200	0	0	
Fluoranthene	0.0117	0.0500	0.01000	0	117	20	200	0	0	
Fluorene	0.0108	0.0500	0.01000	0	108	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.0122	0.0500	0.01000	0	122	20	200	0	0	
Naphthalene	0.0108	0.0500	0.01000	0	108	20	200	0	0	
Phenanthrene	0.0118	0.0500	0.01000	0	118	20	200	0	0	
Pyrene	0.0115	0.0500	0.01000	0	115	20	200	0	0	

Sample ID **DCS-78416**	Batch ID: **78416**	TestNo: **SW8270D-LL**	Units: **mg/Kg**
SampType: **DCS**	Run ID: **GCMS6_170104A**	Analysis Date: **1/4/2017 2:16:00 PM**	Prep Date: **12/21/2016**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0105	0.0100	0.01000	0	105	20	200	0	0	
Acenaphthylene	0.0106	0.0100	0.01000	0	106	20	200	0	0	
Anthracene	0.0103	0.0100	0.01000	0	103	20	200	0	0	
Benzo[a]anthracene	0.0118	0.0100	0.01000	0	118	20	200	0	0	
Benzo[a]pyrene	0.0109	0.0100	0.01000	0	109	20	200	0	0	
Benzo[b]fluoranthene	0.0116	0.0100	0.01000	0	116	20	200	0	0	
Benzo[g,h,i]perylene	0.0124	0.0100	0.01000	0	124	20	200	0	0	
Benzo[k]fluoranthene	0.0126	0.0100	0.01000	0	127	20	200	0	0	
Chrysene	0.0124	0.0100	0.01000	0	124	20	200	0	0	
Dibenz[a,h]anthracene	0.0120	0.0100	0.01000	0	120	20	200	0	0	
Fluoranthene	0.0117	0.0100	0.01000	0	117	20	200	0	0	
Fluorene	0.0108	0.0100	0.01000	0	108	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.0122	0.0100	0.01000	0	122	20	200	0	0	
Naphthalene	0.0108	0.0100	0.01000	0	108	20	200	0	0	
Phenanthrene	0.0118	0.0100	0.01000	0	118	20	200	0	0	
Pyrene	0.0115	0.0100	0.01000	0	115	20	200	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170404A**

Sample ID	**DCS-79790**	Batch ID:	**79790**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**GCMS6_170404A**	Analysis Date:	**4/4/2017 6:21:00 PM**	Prep Date:	**3/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0000386	0.0000500	0.0000400	0	96.4	20	200	0	0	
Acenaphthylene	0.0000360	0.0000500	0.0000400	0	90.0	20	200	0	0	
Anthracene	0.0000338	0.0000500	0.0000400	0	84.6	20	200	0	0	
Benzo[a]anthracene	0.0000423	0.0000500	0.0000400	0	106	20	200	0	0	
Benzo[a]pyrene	0.0000388	0.0000500	0.0000400	0	97.0	20	200	0	0	
Benzo[b]fluoranthene	0.0000418	0.0000500	0.0000400	0	104	20	200	0	0	
Benzo[g,h,i]perylene	0.0000396	0.0000500	0.0000400	0	99.0	20	200	0	0	
Benzo[k]fluoranthene	0.0000393	0.0000500	0.0000400	0	98.2	20	200	0	0	
Chrysene	0.0000371	0.0000500	0.0000400	0	92.7	20	200	0	0	
Dibenz[a,h]anthracene	0.0000398	0.0000500	0.0000400	0	99.4	20	200	0	0	
Fluoranthene	0.0000406	0.0000500	0.0000400	0	101	20	200	0	0	
Fluorene	0.0000366	0.0000500	0.0000400	0	91.5	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.0000373	0.0000500	0.0000400	0	93.2	20	200	0	0	
Naphthalene	0.0000409	0.0000500	0.0000400	0	102	20	200	0	0	
Phenanthrene	0.0000395	0.0000500	0.0000400	0	98.8	20	200	0	0	
Pyrene	0.0000389	0.0000500	0.0000400	0	97.3	20	200	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170404A**

The QC data in batch 79837 applies to the following samples: 1704005-04B, 1704005-07B

Sample ID **LCS-79837** Batch ID: **79837** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS6_170404A** Analysis Date: **4/4/2017 4:46:00 PM** Prep Date: **4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00239	0.0000500	0.00400	0	59.7	47	120			
Acenaphthylene	0.00218	0.0000500	0.00400	0	54.5	50	120			
Anthracene	0.00260	0.0000500	0.00400	0	65.0	54	120			
Benzo[a]anthracene	0.00294	0.0000500	0.00400	0	73.4	56	100			
Benzo[a]pyrene	0.00304	0.0000500	0.00400	0	75.9	53	120			
Benzo[b]fluoranthene	0.00314	0.0000500	0.00400	0	78.6	45	124			
Benzo[g,h,i]perylene	0.00316	0.0000500	0.00400	0	78.9	38	123			
Benzo[k]fluoranthene	0.00280	0.0000500	0.00400	0	70.0	45	124			
Chrysene	0.00278	0.0000500	0.00400	0	69.5	55	120			
Dibenz[a,h]anthracene	0.00324	0.0000500	0.00400	0	81.1	42	127			
Fluoranthene	0.00285	0.0000500	0.00400	0	71.2	54	120			
Fluorene	0.00247	0.0000500	0.00400	0	61.7	50	120			
Indeno[1,2,3-cd]pyrene	0.00322	0.0000500	0.00400	0	80.6	43	125			
Naphthalene	0.00215	0.0000500	0.00400	0	53.8	39	120			
Phenanthrene	0.00269	0.0000500	0.00400	0	67.3	51	120			
Pyrene	0.00254	0.0000500	0.00400	0	63.5	49	128			
Surr: 2-Fluorobiphenyl	4.76		8.000		59.5	48	120			
Surr: 4-Terphenyl-d14	5.65		8.000		70.7	51	135			

Sample ID **LCSD-79837** Batch ID: **79837** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **LCSD** Run ID: **GCMS6_170404A** Analysis Date: **4/4/2017 5:18:00 PM** Prep Date: **4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00240	0.0000500	0.00400	0	60.0	47	120	0.497	20	
Acenaphthylene	0.00218	0.0000500	0.00400	0	54.4	50	120	0.154	20	
Anthracene	0.00254	0.0000500	0.00400	0	63.6	54	120	2.31	20	
Benzo[a]anthracene	0.00301	0.0000500	0.00400	0	75.2	56	100	2.41	20	
Benzo[a]pyrene	0.00309	0.0000500	0.00400	0	77.2	53	120	1.65	20	
Benzo[b]fluoranthene	0.00301	0.0000500	0.00400	0	75.3	45	124	4.23	20	
Benzo[g,h,i]perylene	0.00322	0.0000500	0.00400	0	80.4	38	123	1.84	20	
Benzo[k]fluoranthene	0.00284	0.0000500	0.00400	0	70.9	45	124	1.29	20	
Chrysene	0.00284	0.0000500	0.00400	0	70.9	55	120	2.04	20	
Dibenz[a,h]anthracene	0.00328	0.0000500	0.00400	0	82.0	42	127	1.14	20	
Fluoranthene	0.00286	0.0000500	0.00400	0	71.5	54	120	0.462	20	
Fluorene	0.00237	0.0000500	0.00400	0	59.2	50	120	4.25	20	
Indeno[1,2,3-cd]pyrene	0.00329	0.0000500	0.00400	0	82.3	43	125	2.09	20	
Naphthalene	0.00222	0.0000500	0.00400	0	55.4	39	120	2.96	20	
Phenanthrene	0.00275	0.0000500	0.00400	0	68.7	51	120	2.05	20	
Pyrene	0.00276	0.0000500	0.00400	0	69.0	49	128	8.41	20	
Surr: 2-Fluorobiphenyl	4.82		8.000		60.2	48	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170404A**

Sample ID	**LCSD-79837**	Batch ID:	**79837**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**LCSD**	Run ID:	**GCMS6_170404A**	Analysis Date:	**4/4/2017 5:18:00 PM**	Prep Date:	**4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	5.96		8.000		74.5	51	135	0	0	

Sample ID	**MB-79837**	Batch ID:	**79837**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**GCMS6_170404A**	Analysis Date:	**4/4/2017 7:25:00 PM**	Prep Date:	**4/4/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.0000250	0.0000500								
Acenaphthylene	<0.0000250	0.0000500								
Anthracene	<0.0000250	0.0000500								
Benzo[a]anthracene	<0.0000250	0.0000500								
Benzo[a]pyrene	<0.0000250	0.0000500								
Benzo[b]fluoranthene	<0.0000250	0.0000500								
Benzo[g,h,i]perylene	<0.0000250	0.0000500								
Benzo[k]fluoranthene	<0.0000250	0.0000500								
Chrysene	<0.0000250	0.0000500								
Dibenz[a,h]anthracene	<0.0000250	0.0000500								
Fluoranthene	<0.0000250	0.0000500								
Fluorene	<0.0000250	0.0000500								
Indeno[1,2,3-cd]pyrene	<0.0000250	0.0000500								
Naphthalene	<0.0000250	0.0000500								
Phenanthrene	<0.0000250	0.0000500								
Pyrene	<0.0000250	0.0000500								
Surr: 2-Fluorobiphenyl	8.98		16.00		56.1	48	120			
Surr: 4-Terphenyl-d14	11.4		16.00		71.5	51	135			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170404A**

Sample ID	**ICV-170404**	Batch ID:	**R91274**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**GCMS6_170404A**	Analysis Date:	**4/4/2017 12:17:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.88	0.0000500	2.00	0	93.9	80	120			
Acenaphthylene	1.86	0.0000500	2.00	0	93.1	80	120			
Anthracene	1.72	0.0000500	2.00	0	85.9	80	120			
Benzo[a]anthracene	1.93	0.0000500	2.00	0	96.3	80	120			
Benzo[a]pyrene	1.98	0.0000500	2.00	0	99.2	80	120			
Benzo[b]fluoranthene	1.98	0.0000500	2.00	0	99.0	80	120			
Benzo[g,h,i]perylene	1.95	0.0000500	2.00	0	97.3	80	120			
Benzo[k]fluoranthene	1.95	0.0000500	2.00	0	97.3	80	120			
Chrysene	1.81	0.0000500	2.00	0	90.7	80	120			
Dibenz[a,h]anthracene	2.02	0.0000500	2.00	0	101	80	120			
Fluoranthene	1.83	0.0000500	2.00	0	91.3	80	120			
Fluorene	1.86	0.0000500	2.00	0	93.1	80	120			
Indeno[1,2,3-cd]pyrene	2.00	0.0000500	2.00	0	99.9	80	120			
Naphthalene	1.88	0.0000500	2.00	0	94.2	80	120			
Phenanthrene	1.88	0.0000500	2.00	0	93.9	80	120			
Pyrene	1.77	0.0000500	2.00	0	88.5	80	120			
Surr: 2-Fluorobiphenyl	1940		2000		97.1	65	120			
Surr: 4-Terphenyl-d14	1910		2000		95.6	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170406A**

The QC data in batch 79824 applies to the following samples: 1704005-01A, 1704005-03A, 1704005-05A, 1704005-08A

Sample ID **LCS-79824** Batch ID: **79824** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS6_170406A** Analysis Date: **4/6/2017 12:58:00 PM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.819	0.0100	1.000	0	81.9	46	125			
Acenaphthylene	0.819	0.0100	1.000	0	81.9	44	125			
Anthracene	0.839	0.0100	1.000	0	83.9	53	125			
Benzo[a]anthracene	0.872	0.0100	1.000	0	87.2	52	125			
Benzo[a]pyrene	0.883	0.0100	1.000	0	88.3	50	125			
Benzo[b]fluoranthene	0.934	0.0100	1.000	0	93.4	45	125			
Benzo[g,h,i]perylene	0.899	0.0100	1.000	0	89.9	38	126			
Benzo[k]fluoranthene	0.886	0.0100	1.000	0	88.6	45	125			
Chrysene	0.856	0.0100	1.000	0	85.6	53	125			
Dibenz[a,h]anthracene	0.919	0.0100	1.000	0	91.9	41	125			
Fluoranthene	0.860	0.0100	1.000	0	86.0	54	125			
Fluorene	0.909	0.0100	1.000	0	90.9	49	125			
Indeno[1,2,3-cd]pyrene	0.926	0.0100	1.000	0	92.6	38	125			
Naphthalene	0.790	0.0100	1.000	0	79.0	40	125			
Phenanthrene	0.879	0.0100	1.000	0	87.9	50	125			
Pyrene	0.885	0.0100	1.000	0	88.5	46	125			
Surr: 2-Fluorobiphenyl	0.845		1.000		84.5	43	125			
Surr: 4-Terphenyl-d14	0.920		1.000		92.0	32	125			

Sample ID **MB-79824** Batch ID: **79824** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS6_170406A** Analysis Date: **4/6/2017 1:29:00 PM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100								
Acenaphthylene	<0.00500	0.0100								
Anthracene	<0.00500	0.0100								
Benzo[a]anthracene	<0.00500	0.0100								
Benzo[a]pyrene	<0.00500	0.0100								
Benzo[b]fluoranthene	<0.00500	0.0100								
Benzo[g,h,i]perylene	<0.00500	0.0100								
Benzo[k]fluoranthene	<0.00500	0.0100								
Chrysene	<0.00500	0.0100								
Dibenz[a,h]anthracene	<0.00500	0.0100								
Fluoranthene	<0.00500	0.0100								
Fluorene	<0.00500	0.0100								
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100								
Naphthalene	<0.00500	0.0100								
Phenanthrene	<0.00500	0.0100								
Pyrene	<0.00500	0.0100								
Surr: 2-Fluorobiphenyl	0.757		1.000		75.7	43	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170406A**

Sample ID	**MB-79824**	Batch ID:	**79824**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**GCMS6_170406A**	Analysis Date:	**4/6/2017 1:29:00 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	0.935		1.000		93.5	32	125			

Sample ID	**SB-170406**	Batch ID:	**79824**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**SBLK**	Run ID:	**GCMS6_170406A**	Analysis Date:	**4/6/2017 9:23:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100	0							
Acenaphthylene	<0.00500	0.0100	0							
Anthracene	<0.00500	0.0100	0							
Benzo[a]anthracene	<0.00500	0.0100	0							
Benzo[a]pyrene	<0.00500	0.0100	0							
Benzo[b]fluoranthene	<0.00500	0.0100	0							
Benzo[g,h,i]perylene	<0.00500	0.0100	0							
Benzo[k]fluoranthene	<0.00500	0.0100	0							
Chrysene	<0.00500	0.0100	0							
Dibenz[a,h]anthracene	<0.00500	0.0100	0							
Fluoranthene	<0.00500	0.0100	0							
Fluorene	<0.00500	0.0100	0							
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100	0							
Naphthalene	<0.00500	0.0100	0							
Phenanthrene	<0.00500	0.0100	0							
Pyrene	<0.00500	0.0100	0							
Surr: 2-Fluorobiphenyl	0.000280		0							
Surr: 4-Terphenyl-d14	0		0							

Sample ID	**1704005-08AMS**	Batch ID:	**79824**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**GCMS6_170406A**	Analysis Date:	**4/7/2017 3:13:00 AM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.49	0.0120	1.198	0.2655	102	46	125			
Acenaphthylene	1.70	0.0120	1.198	0.5411	96.7	44	125			
Anthracene	2.12	0.0120	1.198	1.063	88.6	53	125			
Benzo[a]anthracene	4.25	0.0120	1.198	3.880	31.2	52	125			S
Benzo[a]pyrene	4.57	0.0120	1.198	4.077	41.5	50	125			S
Benzo[b]fluoranthene	4.90	0.0120	1.198	3.979	76.9	45	125			
Benzo[g,h,i]perylene	3.30	0.0120	1.198	2.649	54.3	38	126			
Benzo[k]fluoranthene	3.17	0.0120	1.198	2.130	86.6	45	125			
Chrysene	4.24	0.0120	1.198	3.737	42.0	53	125			S
Dibenz[a,h]anthracene	1.73	0.0120	1.198	0.6086	93.2	41	125			
Fluoranthene	7.33	0.0120	1.198	6.937	33.0	54	125			S
Fluorene	1.60	0.0120	1.198	0.3176	107	49	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170406A**

Sample ID **1704005-08AMS** Batch ID: **79824** TestNo: **SW8270D-LL** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GCMS6_170406A** Analysis Date: **4/7/2017 3:13:00 AM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Indeno[1,2,3-cd]pyrene	3.68	0.0120	1.198	2.947	61.1	38	125			
Naphthalene	1.31	0.0120	1.198	0.06698	103	40	125			
Phenanthrene	5.06	0.0120	1.198	4.376	57.0	50	125			
Pyrene	5.83	0.0120	1.198	5.924	-8.16	46	125			S
Surr: 2-Fluorobiphenyl	0.870		1.198		72.6	43	125			
Surr: 4-Terphenyl-d14	0.919		1.198		76.7	32	125			

Sample ID **1704005-08AMSD** Batch ID: **79824** TestNo: **SW8270D-LL** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS6_170406A** Analysis Date: **4/7/2017 3:45:00 AM** Prep Date: **4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.77	0.0122	1.217	0.2655	124	46	125	17.6	30	
Acenaphthylene	1.89	0.0122	1.217	0.5411	111	44	125	10.8	30	
Anthracene	2.50	0.0122	1.217	1.063	118	53	125	16.3	30	
Benzo[a]anthracene	4.68	0.0122	1.217	3.880	65.9	52	125	9.60	30	
Benzo[a]pyrene	4.95	0.0122	1.217	4.077	72.0	50	125	7.94	30	
Benzo[b]fluoranthene	4.62	0.0122	1.217	3.979	52.4	45	125	5.96	30	
Benzo[g,h,i]perylene	3.28	0.0122	1.217	2.649	51.6	38	126	0.677	30	
Benzo[k]fluoranthene	3.01	0.0122	1.217	2.130	72.2	45	125	5.18	30	
Chrysene	4.65	0.0122	1.217	3.737	75.3	53	125	9.29	30	
Dibenz[a,h]anthracene	1.72	0.0122	1.217	0.6086	91.2	41	125	0.469	30	
Fluoranthene	7.78	0.0122	1.217	6.937	69.7	54	125	5.98	30	
Fluorene	1.84	0.0122	1.217	0.3176	125	49	125	14.1	30	
Indeno[1,2,3-cd]pyrene	3.63	0.0122	1.217	2.947	56.5	38	125	1.22	30	
Naphthalene	1.51	0.0122	1.217	0.06698	119	40	125	14.7	30	
Phenanthrene	6.44	0.0122	1.217	4.376	170	50	125	24.1	30	S
Pyrene	6.51	0.0122	1.217	5.924	48.3	46	125	11.1	30	
Surr: 2-Fluorobiphenyl	0.924		1.217		75.9	43	125	0	0	
Surr: 4-Terphenyl-d14	0.950		1.217		78.1	32	125	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170406A**

Sample ID **ICV-170406**	Batch ID: **R91310**	TestNo: **SW8270D-LL**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GCMS6_170406A**	Analysis Date: **4/6/2017 10:03:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.92	0.0100	2.000	0	96.2	80	120			
Acenaphthylene	1.88	0.0100	2.000	0	94.0	80	120			
Anthracene	1.65	0.0100	2.000	0	82.7	80	120			
Benzo[a]anthracene	1.89	0.0100	2.000	0	94.6	80	120			
Benzo[a]pyrene	1.92	0.0100	2.000	0	96.1	80	120			
Benzo[b]fluoranthene	2.13	0.0100	2.000	0	107	80	120			
Benzo[g,h,i]perylene	2.14	0.0100	2.000	0	107	80	120			
Benzo[k]fluoranthene	2.05	0.0100	2.000	0	103	80	120			
Chrysene	1.79	0.0100	2.000	0	89.3	80	120			
Dibenz[a,h]anthracene	2.20	0.0100	2.000	0	110	80	120			
Fluoranthene	2.02	0.0100	2.000	0	101	80	120			
Fluorene	1.89	0.0100	2.000	0	94.6	80	120			
Indeno[1,2,3-cd]pyrene	2.20	0.0100	2.000	0	110	80	120			
Naphthalene	1.85	0.0100	2.000	0	92.3	80	120			
Phenanthrene	1.89	0.0100	2.000	0	94.4	80	120			
Pyrene	1.98	0.0100	2.000	0	99.1	80	120			
Surr: 2-Fluorobiphenyl	1.89		2.000		94.5	65	120			
Surr: 4-Terphenyl-d14	2.16		2.000		108	65	120			

Sample ID **ICV2-170406**	Batch ID: **R91310**	TestNo: **SW8270D-LL**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GCMS6_170406A**	Analysis Date: **4/6/2017 8:52:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.97	0.0100	2.000	0	98.4	80	120			
Acenaphthylene	1.94	0.0100	2.000	0	97.1	80	120			
Anthracene	1.78	0.0100	2.000	0	89.2	80	120			
Benzo[a]anthracene	1.95	0.0100	2.000	0	97.5	80	120			
Benzo[a]pyrene	2.08	0.0100	2.000	0	104	80	120			
Benzo[b]fluoranthene	2.06	0.0100	2.000	0	103	80	120			
Benzo[g,h,i]perylene	2.12	0.0100	2.000	0	106	80	120			
Benzo[k]fluoranthene	2.01	0.0100	2.000	0	100	80	120			
Chrysene	1.85	0.0100	2.000	0	92.4	80	120			
Dibenz[a,h]anthracene	2.07	0.0100	2.000	0	103	80	120			
Fluoranthene	1.91	0.0100	2.000	0	95.5	80	120			
Fluorene	1.93	0.0100	2.000	0	96.5	80	120			
Indeno[1,2,3-cd]pyrene	2.08	0.0100	2.000	0	104	80	120			
Naphthalene	1.95	0.0100	2.000	0	97.7	80	120			
Phenanthrene	1.96	0.0100	2.000	0	98.0	80	120			
Pyrene	1.82	0.0100	2.000	0	90.8	80	120			
Surr: 2-Fluorobiphenyl	1.96		2.000		98.2	65	120			
Surr: 4-Terphenyl-d14	1.96		2.000		97.8	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170407A**

Sample ID	**DCS-79816**	Batch ID:	**79816**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**DCS**	Run ID:	**GCMS6_170407A**	Analysis Date:	**4/7/2017 3:14:00 PM**	Prep Date:	**4/3/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0124	0.0100	0.01000	0	124	20	200	0	0	
Acenaphthylene	0.0114	0.0100	0.01000	0	114	20	200	0	0	
Anthracene	0.0115	0.0100	0.01000	0	115	20	200	0	0	
Benzo[a]anthracene	0.0125	0.0100	0.01000	0	125	20	200	0	0	
Benzo[a]pyrene	0.0109	0.0100	0.01000	0	109	20	200	0	0	
Benzo[b]fluoranthene	0.0119	0.0100	0.01000	0	119	20	200	0	0	
Benzo[g,h,i]perylene	0.0122	0.0100	0.01000	0	123	20	200	0	0	
Benzo[k]fluoranthene	0.0121	0.0100	0.01000	0	121	20	200	0	0	
Chrysene	0.0132	0.0100	0.01000	0	132	20	200	0	0	
Dibenz[a,h]anthracene	0.0125	0.0100	0.01000	0	125	20	200	0	0	
Fluoranthene	0.0129	0.0100	0.01000	0	129	20	200	0	0	
Fluorene	0.0119	0.0100	0.01000	0	119	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.0109	0.0100	0.01000	0	109	20	200	0	0	
Naphthalene	0.0123	0.0100	0.01000	0	123	20	200	0	0	
Phenanthrene	0.0126	0.0100	0.01000	0	126	20	200	0	0	
Pyrene	0.0128	0.0100	0.01000	0	128	20	200	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170407A**

The QC data in batch 79824 applies to the following samples: 1704005-01A, 1704005-03A, 1704005-05A, 1704005-08A

Sample ID	**SB-170407**	Batch ID:	**79824**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**SBLK**	Run ID:	**GCMS6_170407A**	Analysis Date:	**4/7/2017 10:25:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoranthene	0.00538	0.0100	0							
Surr: 2-Fluorobiphenyl	0.00337		0							
Surr: 4-Terphenyl-d14	0.00366		0							

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170407A**

Sample ID	**ICV-170407**	Batch ID:	**R91323**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS6_170407A**	Analysis Date:	**4/7/2017 9:53:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoranthene	1.87	0.0100	2.000	0	93.5	80	120			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170413B**

The QC data in batch 79942 applies to the following samples: 1704005-02A, 1704005-06A, 1704005-09A, 1704005-10A

Sample ID **LCS-79942** Batch ID: **79942** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS6_170413B** Analysis Date: **4/13/2017 6:33:00 PM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.682	0.0100	1.000	0	68.2	46	125			
Acenaphthylene	0.640	0.0100	1.000	0	64.0	44	125			
Anthracene	0.679	0.0100	1.000	0	67.9	53	125			
Benzo[a]anthracene	0.704	0.0100	1.000	0	70.4	52	125			
Benzo[a]pyrene	0.667	0.0100	1.000	0	66.7	50	125			
Benzo[b]fluoranthene	0.711	0.0100	1.000	0	71.1	45	125			
Benzo[g,h,i]perylene	0.714	0.0100	1.000	0	71.4	38	126			
Benzo[k]fluoranthene	0.689	0.0100	1.000	0	68.9	45	125			
Chrysene	0.670	0.0100	1.000	0	67.0	53	125			
Dibenz[a,h]anthracene	0.717	0.0100	1.000	0	71.7	41	125			
Fluoranthene	0.730	0.0100	1.000	0	73.0	54	125			
Fluorene	0.706	0.0100	1.000	0	70.6	49	125			
Indeno[1,2,3-cd]pyrene	0.711	0.0100	1.000	0	71.1	38	125			
Naphthalene	0.614	0.0100	1.000	0	61.4	40	125			
Phenanthrene	0.689	0.0100	1.000	0	68.9	50	125			
Pyrene	0.708	0.0100	1.000	0	70.8	46	125			
Surr: 2-Fluorobiphenyl	0.670		1.000		67.0	43	125			
Surr: 4-Terphenyl-d14	0.759		1.000		75.9	32	125			

Sample ID **MB-79942** Batch ID: **79942** TestNo: **SW8270D-LL** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS6_170413B** Analysis Date: **4/13/2017 7:05:00 PM** Prep Date: **4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.00500	0.0100								
Acenaphthylene	<0.00500	0.0100								
Anthracene	<0.00500	0.0100								
Benzo[a]anthracene	<0.00500	0.0100								
Benzo[a]pyrene	<0.00500	0.0100								
Benzo[b]fluoranthene	<0.00500	0.0100								
Benzo[g,h,i]perylene	<0.00500	0.0100								
Benzo[k]fluoranthene	<0.00500	0.0100								
Chrysene	<0.00500	0.0100								
Dibenz[a,h]anthracene	<0.00500	0.0100								
Fluoranthene	<0.00500	0.0100								
Fluorene	<0.00500	0.0100								
Indeno[1,2,3-cd]pyrene	<0.00500	0.0100								
Naphthalene	<0.00500	0.0100								
Phenanthrene	<0.00500	0.0100								
Pyrene	<0.00500	0.0100								
Surr: 2-Fluorobiphenyl	0.719		1.000		71.9	43	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170413B**

Sample ID	**MB-79942**	Batch ID:	**79942**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**GCMS6_170413B**	Analysis Date:	**4/13/2017 7:05:00 PM**	Prep Date:	**4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	0.833		1.000		83.3	32	125			

Sample ID	**1704005-02AMS**	Batch ID:	**79942**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg-dry**
SampType:	**MS**	Run ID:	**GCMS6_170413B**	Analysis Date:	**4/13/2017 10:47:00 PM**	Prep Date:	**4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.23	0.0111	1.107	0.2440	88.9	46	125			
Acenaphthylene	1.52	0.0111	1.107	0.3942	102	44	125			
Anthracene	1.97	0.0111	1.107	0.9890	89.0	53	125			
Benzo[a]anthracene	4.60	0.0111	1.107	3.271	120	52	125			
Benzo[a]pyrene	4.72	0.0111	1.107	3.187	139	50	125			S
Benzo[b]fluoranthene	4.57	0.0111	1.107	3.106	132	45	125			S
Benzo[g,h,i]perylene	3.84	0.0111	1.107	2.368	133	38	126			S
Benzo[k]fluoranthene	2.73	0.0111	1.107	1.572	104	45	125			
Chrysene	4.60	0.0111	1.107	3.219	125	53	125			
Dibenz[a,h]anthracene	1.43	0.0111	1.107	0.4314	89.8	41	125			
Fluoranthene	9.50	0.0111	1.107	7.576	174	54	125			S
Fluorene	1.22	0.0111	1.107	0.2807	85.2	49	125			
Indeno[1,2,3-cd]pyrene	3.91	0.0111	1.107	2.433	134	38	125			S
Naphthalene	0.945	0.0111	1.107	0.03664	82.0	40	125			
Phenanthrene	5.29	0.0111	1.107	4.035	113	50	125			
Pyrene	7.84	0.0111	1.107	6.014	165	46	125			S
Surr: 2-Fluorobiphenyl	0.953		1.107		86.1	43	125			
Surr: 4-Terphenyl-d14	1.01		1.107		91.4	32	125			

Sample ID	**1704005-02AMSD**	Batch ID:	**79942**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**GCMS6_170413B**	Analysis Date:	**4/13/2017 11:19:00 PM**	Prep Date:	**4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.08	0.0107	1.070	0.2440	77.7	46	125	13.2	30	
Acenaphthylene	1.25	0.0107	1.070	0.3942	80.2	44	125	19.3	30	
Anthracene	1.75	0.0107	1.070	0.9890	71.3	53	125	11.9	30	
Benzo[a]anthracene	3.96	0.0107	1.070	3.271	64.7	52	125	14.8	30	
Benzo[a]pyrene	3.97	0.0107	1.070	3.187	73.3	50	125	17.3	30	
Benzo[b]fluoranthene	3.87	0.0107	1.070	3.106	71.5	45	125	16.6	30	
Benzo[g,h,i]perylene	3.27	0.0107	1.070	2.368	84.2	38	126	16.1	30	
Benzo[k]fluoranthene	2.33	0.0107	1.070	1.572	70.9	45	125	15.7	30	
Chrysene	3.88	0.0107	1.070	3.219	61.4	53	125	17.1	30	
Dibenz[a,h]anthracene	1.23	0.0107	1.070	0.4314	75.0	41	125	14.4	30	
Fluoranthene	8.23	0.0107	1.070	7.576	61.4	54	125	14.3	30	
Fluorene	1.09	0.0107	1.070	0.2807	76.0	49	125	11.2	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_170413B

Sample ID	**1704005-02AMSD**	Batch ID:	**79942**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg-dry**
SampType:	**MSD**	Run ID:	**GCMS6_170413B**	Analysis Date:	**4/13/2017 11:19:00 PM**	Prep Date:	**4/11/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Indeno[1,2,3-cd]pyrene	3.35	0.0107	1.070	2.433	85.9	38	125	15.5	30	
Naphthalene	0.840	0.0107	1.070	0.03664	75.1	40	125	11.7	30	
Phenanthrene	5.25	0.0107	1.070	4.035	113	50	125	0.805	30	
Pyrene	6.78	0.0107	1.070	6.014	71.9	46	125	14.5	30	
Surr: 2-Fluorobiphenyl	0.814		1.070		76.0	43	125	0	0	
Surr: 4-Terphenyl-d14	0.872		1.070		81.4	32	125	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170413B**

Sample ID	**ICV2-170413**	Batch ID:	**R91451**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS6_170413B**	Analysis Date:	**4/13/2017 6:01:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.92	0.0100	2.000	0	95.9	80	120			
Acenaphthylene	1.82	0.0100	2.000	0	90.8	80	120			
Anthracene	1.72	0.0100	2.000	0	85.8	80	120			
Benzo[a]anthracene	1.84	0.0100	2.000	0	92.0	80	120			
Benzo[a]pyrene	1.83	0.0100	2.000	0	91.6	80	120			
Benzo[b]fluoranthene	1.88	0.0100	2.000	0	94.1	80	120			
Benzo[g,h,i]perylene	1.86	0.0100	2.000	0	93.1	80	120			
Benzo[k]fluoranthene	1.76	0.0100	2.000	0	88.2	80	120			
Chrysene	1.76	0.0100	2.000	0	88.1	80	120			
Dibenz[a,h]anthracene	1.91	0.0100	2.000	0	95.6	80	120			
Fluoranthene	1.84	0.0100	2.000	0	92.1	80	120			
Fluorene	1.87	0.0100	2.000	0	93.7	80	120			
Indeno[1,2,3-cd]pyrene	1.90	0.0100	2.000	0	95.2	80	120			
Naphthalene	1.93	0.0100	2.000	0	96.3	80	120			
Phenanthrene	1.82	0.0100	2.000	0	90.9	80	120			
Pyrene	1.80	0.0100	2.000	0	89.8	80	120			
Surr: 2-Fluorobiphenyl	1.84		2.000		92.0	65	120			
Surr: 4-Terphenyl-d14	1.95		2.000		97.3	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170414B**

The QC data in batch 79942 applies to the following samples: 1704005-02A, 1704005-06A, 1704005-09A, 1704005-10A

Sample ID	**SB-170414**	Batch ID:	**79942**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**SBLK**	Run ID:	**GCMS6_170414B**	Analysis Date:	**4/14/2017 9:18:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo[a]anthracene	<0.00500	0.0100	0							
Benzo[a]pyrene	<0.00500	0.0100	0							
Benzo[b]fluoranthene	<0.00500	0.0100	0							
Chrysene	<0.00500	0.0100	0							
Fluoranthene	<0.00500	0.0100	0							
Phenanthrene	<0.00500	0.0100	0							
Pyrene	<0.00500	0.0100	0							
Surr: 2-Fluorobiphenyl	0.000180		0							
Surr: 4-Terphenyl-d14	0		0							

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170414B**

Sample ID	**ICV-170414**	Batch ID:	**R91463**	TestNo:	**SW8270D-LL**	Units:	**mg/Kg**
SampType:	**ICV**	Run ID:	**GCMS6_170414B**	Analysis Date:	**4/14/2017 8:47:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo[a]anthracene	1.85	0.0100	2.000	0	92.5	80	120			
Benzo[a]pyrene	1.82	0.0100	2.000	0	90.8	80	120			
Benzo[b]fluoranthene	1.82	0.0100	2.000	0	91.2	80	120			
Chrysene	1.77	0.0100	2.000	0	88.5	80	120			
Fluoranthene	1.84	0.0100	2.000	0	91.9	80	120			
Phenanthrene	1.84	0.0100	2.000	0	92.2	80	120			
Pyrene	1.78	0.0100	2.000	0	89.1	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_170405A**

The QC data in batch 79861 applies to the following samples: 1704005-01A, 1704005-03A, 1704005-05A, 1704005-08A

Sample ID	**1703224-03D DUP**	Batch ID:	**79861**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_170405A**	Analysis Date:	**4/6/2017 8:43:00 AM**	Prep Date:	**4/5/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	20.0	0	0	20.08				0.294	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_170412B**

The QC data in batch 79974 applies to the following samples: 1704005-02A, 1704005-06A, 1704005-09A, 1704005-10A

Sample ID	**1704071-34B DUP**	Batch ID:	**79974**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_170412B**	Analysis Date:	**4/13/2017 7:36:00 AM**	Prep Date:	**4/12/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	7.14	0	0	7.496				4.82	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

DHL Analytical, Inc.

Date: *17-Apr-17*

CLIENT: AECOM
Work Order: 1704005
Project: Galveston RAP Sampling Mar. 2017

MQL SUMMARY REPORT

TestNo: SW6020A	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Antimony	0.500	1.00
Arsenic	0.500	1.00
Barium	0.500	2.00
Beryllium	0.100	0.300
Cadmium	0.100	0.300
Chromium	0.500	2.00
Lead	0.100	0.300
Nickel	0.500	2.00
Selenium	0.150	0.500
Silver	0.100	0.200

TestNo: SW6020A	MDL	MQL
Analyte	**mg/L**	**mg/L**
Antimony	0.000800	0.00250
Arsenic	0.00200	0.00500
Barium	0.00300	0.0100
Beryllium	0.000300	0.00100
Cadmium	0.000300	0.00100
Chromium	0.00200	0.00500
Lead	0.000300	0.00100
Nickel	0.00300	0.0100
Selenium	0.00200	0.00500
Silver	0.00100	0.00200

TestNo: SW7471B	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Mercury	0.0160	0.0400

TestNo: SW7470A	MDL	MQL
Analyte	**mg/L**	**mg/L**
Mercury	0.0000800	0.000200

TestNo: SW8270D-LL	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Acenaphthene	0.00500	0.0100
Acenaphthylene	0.00500	0.0100
Anthracene	0.00500	0.0100
Benzo[a]anthracene	0.00500	0.0100
Benzo[a]pyrene	0.00500	0.0100
Benzo[b]fluoranthene	0.00500	0.0100
Benzo[g,h,i]perylene	0.00500	0.0100
Benzo[k]fluoranthene	0.00500	0.0100
Chrysene	0.00500	0.0100
Dibenz[a,h]anthracene	0.00500	0.0100
Fluoranthene	0.00500	0.0100
Fluorene	0.00500	0.0100
Indeno[1,2,3-cd]pyrene	0.00500	0.0100
Naphthalene	0.00500	0.0100
Phenanthrene	0.00500	0.0100
Pyrene	0.00500	0.0100

TestNo: SW8270D-LL	MDL	MQL
Analyte	**mg/L**	**mg/L**
Acenaphthene	0.0000250	0.0000500
Acenaphthylene	0.0000250	0.0000500
Anthracene	0.0000250	0.0000500
Benzo[a]anthracene	0.0000250	0.0000500
Benzo[a]pyrene	0.0000250	0.0000500
Benzo[b]fluoranthene	0.0000250	0.0000500
Benzo[g,h,i]perylene	0.0000250	0.0000500
Benzo[k]fluoranthene	0.0000250	0.0000500
Chrysene	0.0000250	0.0000500
Dibenz[a,h]anthracene	0.0000250	0.0000500
Fluoranthene	0.0000250	0.0000500
Fluorene	0.0000250	0.0000500
Indeno[1,2,3-cd]pyrene	0.0000250	0.0000500
Naphthalene	0.0000250	0.0000500
Phenanthrene	0.0000250	0.0000500
Pyrene	0.0000250	0.0000500

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

April 2017

City of Galveston Incineration Site Sampling Event – April 2017 Data Usability Summary

This Data Usability Summary (DUS) contains the results of the data review for the analyses of samples collected by AECOM Technical Services (AECOM) at the City of Galveston Incineration Site on April 25 and 26, 2017. These samples were analyzed by DHL Analytical, Inc. (DHL) in Austin, Texas for the analytical methods specified on the chain-of-custody (C-O-C) documentation. Table 1 presents the analyses requested and a cross-reference of field sample identifications (IDs) and laboratory IDs.

The purpose of this sampling event is to delineate the contamination of the constituents of concern in groundwater.

Sample identification, dates sampled, matrices, and methods used for analyses are provided in Table 1. Samples were evaluated against the Texas Commission on Environmental Quality (TCEQ) *Review and Reporting of COC Concentration Data under TRRP* [Texas Risk Reduction Program], (RG-366/TRRP-13, May 2010) guidelines for data usability for the methods listed in this table.

The following laboratory submittals were examined:

- Laboratory reports;
- TRRP-13 Laboratory Review Checklists (LRCs); and
- TRRP-13 Exception Reports (ERs).

The analytical results and data qualifier definitions are presented in Attachment A. LRCs and ERs checklists are presented in Attachment B.

Table 1
Sample Distribution

Sample Identification	Laboratory Identification	Date Sampled	Metals SW-846 6020A	Mercury SW-846 7470A	PAHs SW-846 8270D SIM
INC-MW01-020	1704287-09	4/26/2017	X	X	X
INC-MW03-020	1704287-08	4/26/2017	X	X	X
INC-MW04-020	1704287-07	4/26/2017	X	X	X
INC-MW05-020	1704287-10	4/26/2017	X	X	X
INC-MW06-020	1704287-12	4/26/2017	X	X	X
INC-MW07-023	1704287-11	4/26/2017	X	X	X
INC-MW08-020	1704287-06	4/25/2017	X	X	X
INC-MW09-020	1704287-01	4/25/2017	X	X	X
INC-MW10-020	1704287-13	4/26/2017	X	X	X
INC-MW11-020	1704287-04	4/25/2017	X	X	X
INC-MW12-020	1704287-02	4/25/2017	X	X	X
INC-MW12-021	1704287-03	4/25/2017	X	X	X
INC-MW13-020	1704287-05	4/25/2017	X	X	X

X - Analyzed by DHL Analytical. Inc. in Round Rock, Texas
-- Sample not analyzed for the indicated parameter

ID – Identification
PAHs – Polynuclear aromatic hydrocarbons
SIM – Selective ion monitoring
SW-846 - Test Methods for Evaluation of Solid Waste: Physical/Chemical Methods, EPA, Office of Solid Waste and Emergency Response, December 1996, Revision 3 and subsequent revisions

Note - The "1" designation at the end of the sample ID means the sample is a field duplicate of the associated "0" ending sample that precedes it. The "3" designation at the end of the sample ID means the sample is a client-specified parent sample for matrix spike/matrix spike duplicate analysis.

Analytical results were evaluated in accordance with TRRP-13. The results indicate that all of the data are acceptable and usable. Some samples were diluted due to matrix interferences or high concentrations of target compounds, which resulted in elevated sample detection limits (SDLs) and method quantitation limits (MQLs).

Sample results that were reported between the SDLs and MQLs were qualified with "J" as estimated. Note that the DHL cites the reporting limit, which is the lowest standard used in the calibration curve and is therefore the equivalent to the MQLs. The laboratory qualified data using statistically-derived control limits, which were also used for data review and validation. Samples that required further qualification or anomalies are discussed in this DUS. Only quality control (QC) results associated with field samples are discussed in the text. QC samples only associated with other QC samples (such as laboratory control samples [LCSs] for trip blanks) are not discussed.

Laboratory Certification

AECOM asserts that at the time the laboratory data were generated for this project, DHL was National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program for the matrices, methods, and parameters prescribed in this report. The applicable NELAP certification is T104704211-17-19 (effective May 1, 2017 through April 30, 2018).

Metals by EPA SW-846 Method 6020A

Samples were analyzed for client-specified metals by United States Environmental Protection Agency (EPA) SW-846 Method 6020A. The QC requirements that were evaluated included holding times, detection limits, calibrations, blanks, LCS or LCS/laboratory control sample duplicate (LCSD) results, matrix spike/matrix spike duplicate (MS/MSD) results, duplicates, serial dilutions, post digestion spikes, interference check samples, and internal standards. The QC results indicate that the reported data are usable for the intended purposes. Samples that required qualification or analytical anomalies are discussed below.

Matrix Spikes

Results were qualified if the average of the MS and MSD recoveries or the MS/MSD relative percent difference (RPD) were outside of the laboratory acceptance criteria for client samples in the same preparation batch as the client parent sample. Results were not evaluated if the MS/MSD spike concentrations were less than four times the concentrations in the unspiked parent sample. The MS/MSD results were not evaluated then since the spiked concentrations were insignificant and may not have represented the matrix effect. Metal results qualified due to MS/MSD recoveries are presented in Table 2.

Table 2
Metal Results Qualified Due to MS/MSD Recoveries

Sample Identification	Analyte	Qualifier/Result	Reason
INC-MW01-020 INC-MW03-020 INC-MW04-020 INC-MW05-020 INC-MW06-020 INC-MW07-023 INC-MW08-020 INC-MW09-020 INC-MW10-020 INC-MW11-020 INC-MW12-020 INC-MW12-021 INC-MW13-020	Beryllium Cadmium Chromium Nickel Silver	JL (Detects)/) UJL (Nondetects)	Average MS/MSD recovery < LCL but ≥ 30%

JL – Estimated/biased low
LCL – Lower control limit
MS/MSD – Matrix spike/matrix spike duplicate
UCL – Upper control limit

Post Digestion Spikes

The post digestion spike recoveries for beryllium, cadmium, chromium, nickel, and silver for parent sample INC-MW07-023 were below the laboratory acceptance criteria but ≥ 30%. These results had already been qualified due to MS/MSD recoveries; therefore, further qualifications were not made.

Internal Standards

Internal standard bismuth was recovered below the laboratory acceptance criteria in six samples. The laboratory noted that this appeared to be due to matrix interference. DHL reanalyzed the sample with similar results. The detected results for lead in these samples were qualified due to this potential high bias and are presented in Table 3.

Table 3
Metal Results Qualified Due to Internal Standard Recoveries

Sample Identification	Analyte	Qualifier/Result	Reason
INC-MW06-020 INC-MW07-023 INC-MW10-020 INC-MW11-020 INC-MW12-020 INC-MW12-021	Lead	JH (Detects)/ UJ (Nondetects)	Internal standard recovery < LCL

JH – Estimated/biased high
LCL – Lower control limit
UJ – Not detected/estimated

Mercury by EPA SW-846 Method 7470A

Samples were analyzed for mercury by EPA SW-846 Method 7470A. The QC requirements that were evaluated included holding times, detection limits, calibrations, blanks, LCS and/or LCS/LCSD results, MS/MSD results, duplicates, serial dilutions, and post digestion spikes. The QC results indicate that the reported data are usable for the intended purposes. There were no analytical anomalies and no results were qualified.

Polynuclear Aromatic Hydrocarbons by EPA SW-846 Method 8270D SIM

Samples were analyzed for polynuclear aromatic hydrocarbons (PAHs) by EPA SW-846 Method 8270D SIM. The QC requirements that were evaluated included sample receipt conditions, holding times, detection limits, calibrations, internal standards, field duplicates, blanks, LCS results, MS/MSD results, and surrogate spike results. The QC results indicate that all of the reported data are usable for the intended purposes. Samples that required qualification or analytical anomalies are discussed below.

Attachment A
Analytical Results

DATA QUALIFIERS

Qualifier	Definition
U	Not detected: Analysis for the analyte was performed, but the analyte was not detected above the level of the associated value. The associated value is the sample detection limit (SDL).
J	Estimated: The analyte was detected and identified. The associated numerical value is the approximate concentration of the analyte in the sample.
UJ	Not detected, SDL is estimated: The analyte was not detected above the reported SDL. The numerical value of the SDL is estimated and may be inaccurate.
NJ	Tentatively identified, reported concentration is estimated: The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration. For example, analyte not included in the calibration or second column confirmation not performed.
R	Rejected: The data are unusable.
X1	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ.
X2	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is located outside of Texas, and is accredited or periodically inspected by that state.
X3	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ, and the work is performed for another company unit located on the same site as the laboratory.
X4	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ, and the work is performed without compensation for a government agency or charitable organization.
X5	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory is accredited under federal law, including certification by the EPA to provide these data for decisions related to the Safe Drinking Water Act.
X6	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The laboratory provides these data necessary for emergency response activities and the required analytical data are not available from a laboratory accredited under TLAP.
X7	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The TCEQ does not offer accreditation for this analyte, in this matrix, by this method.
X8	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The TCEQ offers accreditation for this analyte, in this matrix, by this method, but the laboratory is not accredited for this analyte in this matrix by this method. The analyte result is validated and reported as part of a suite of analytes for the method.
X9	The laboratory is not NELAP-accredited under TLAP for this analyte in this matrix analyzed by this method. The result was generated prior to July 1, 2008.
Bias Codes	**Definition**
H	Bias in sample result likely high.
L	Bias in sample result likely low.

Attachment B
TRRP-13 LRCs and ERs

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: GLO/City of Galveston Incinerator	**Date:** 5/8/2017
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1704287
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			R4-02
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: GLO/City of Galveston Incinerator	**Date:** 5/8/2017
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1704287

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?		X			**S4-01**
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			**S9-01**
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5,
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) The amount of analyte measured in the duplicate,
  - b) The calculated RPD, and
  - c) The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on March 27, 2017. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager		05/08/17
Scott Schroeder – Technical Director	Signature	Date

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7470A - Mercury Analysis
Method SW8270D-LL - PAH Analysis

Exception Report R1-01

The samples were received and log-in performed on 4/27/2017. A total of 13 samples were received and analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R4-02

For PAH Analysis, the recoveries of surrogates (at the 50x) for Sample INC-MW05-020 were below the method control limits. These are flagged accordingly in the Analytical Data Report. The surrogates at the 1x were within method control limits. No further corrective action was taken.

Exception Report R7-03

For Metals Analysis, the recoveries of five analytes for the Matrix Spike and Matrix Spike Duplicate (1704287-11 MS/MSD) were below the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

Exception Report S4-02

For Metals Analysis, the response factor of Internal Standard Bismuth for Samples INC-MW12-020 and INC-MW12-021 was below the method control limits. The affected analyte, Lead, was nondetect for these samples. No further corrective action was taken.

For Metals Analysis, the response factor of Internal Standard Bismuth for Samples INC-MW11-020, INC-MW06-020 and INC-MW10-020 was below the method control limits. The affected analyte, Lead, may be biased high in these samples. No further corrective action was taken.

For Metals Analysis, the response factor(s) of various Internal Standards for Samples INC-MW07-023, the Matrix Spike, Matrix Spike Duplicate and Post Digestion Spike (1704287-11 MS/MSD/PDS) were below the method control limits, due to matrix and confirmed by re-analysis. For the parent sample, all of the affected analytes are nondetect, with the exception of Lead, which may be biased high in this sample. The reference sample selected for the Batch QC was from this workorder. No further

corrective action was taken.

Exception Report S9-01

For Metals Analysis, the recoveries of five analytes for the Post Digestion Spike (1704287-11 PDS) were below the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated Serial Dilution. No further corrective action was taken.

DHL Analytical, Inc.
Laboratory Review Checklist: Reportable Data

Project Name: GLO/City of Galveston Incinerator	**Date:** 5/8/2017
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1704287
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	**1)** Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				**R1-01**
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			**R4-02**
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			**R7-03**
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.
Laboratory Review Checklist (continued): Supporting Data

Project Name: GLO/City of Galveston Incinerator | **Date:** 5/8/2017

Reviewer Name: Angie O'Donnell | **Laboratory Work Order:** 1704287

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?		X			**S4-01**
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			**S9-01**
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
- a) Items consistent with NELAC Chapter 5,
- b) dilution factors,
- c) preparation methods,
- d) cleanup methods, and
- e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:
- a) Calculated recovery (%R), and
- b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
- a) LCS spiking amounts,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d) Calculated %Rs and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits

R8 Laboratory analytical duplicate (if applicable) recovery and precision:
- a) The amount of analyte measured in the duplicate,
- b) The calculated RPD, and
- c) The laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on March 27, 2017. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager

Scott Schroeder – Technical Director

Signature

05/08/17

Date

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7470A - Mercury Analysis
Method SW8270D-LL - PAH Analysis

Exception Report R1-01

The samples were received and log-in performed on 4/27/2017. A total of 13 samples were received and analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R4-02

For PAH Analysis, the recoveries of surrogates (at the 50x) for Sample INC-MW05-020 were below the method control limits. These are flagged accordingly in the Analytical Data Report. The surrogates at the 1x were within method control limits. No further corrective action was taken.

Exception Report R7-03

For Metals Analysis, the recoveries of five analytes for the Matrix Spike and Matrix Spike Duplicate (1704287-11 MS/MSD) were below the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

Exception Report S4-02

For Metals Analysis, the response factor of Internal Standard Bismuth for Samples INC-MW12-020 and INC-MW12-021 was below the method control limits. The affected analyte, Lead, was nondetect for these samples. No further corrective action was taken.

For Metals Analysis, the response factor of Internal Standard Bismuth for Samples INC-MW11-020, INC-MW06-020 and INC-MW10-020 was below the method control limits. The affected analyte, Lead, may be biased high in these samples. No further corrective action was taken.

For Metals Analysis, the response factor(s) of various Internal Standards for Samples INC-MW07-023, the Matrix Spike, Matrix Spike Duplicate and Post Digestion Spike (1704287-11 MS/MSD/PDS) were below the method control limits, due to matrix and confirmed by re-analysis. For the parent sample, all of the affected analytes are nondetect, with the exception of Lead, which may be biased high in this sample. The reference sample selected for the Batch QC was from this workorder. No further

corrective action was taken.

Exception Report S9-01

For Metals Analysis, the recoveries of five analytes for the Post Digestion Spike (1704287-11 PDS) were below the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated Serial Dilution. No further corrective action was taken.

DHL Analytical, Inc.

Date: *08-May-17*

CLIENT: AECOM
Project: GLO/City of Galveston Incinerator
Lab Order: 1704287

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1704287-01	INC-MW09-020		04/25/17 11:05 AM	4/27/2017
1704287-02	INC-MW12-020		04/25/17 01:15 PM	4/27/2017
1704287-03	INC-MW12-021		04/25/17 01:15 PM	4/27/2017
1704287-04	INC-MW11-020		04/25/17 02:55 PM	4/27/2017
1704287-05	INC-MW13-020		04/25/17 03:55 PM	4/27/2017
1704287-06	INC-MW08-020		04/25/17 05:15 PM	4/27/2017
1704287-07	INC-MW04-020		04/26/17 09:45 AM	4/27/2017
1704287-08	INC-MW03-020		04/26/17 10:40 AM	4/27/2017
1704287-09	INC-MW01-020		04/26/17 11:40 AM	4/27/2017
1704287-10	INC-MW05-020		04/26/17 01:05 PM	4/27/2017
1704287-11	INC-MW07-023		04/26/17 02:10 PM	4/27/2017
1704287-12	INC-MW06-020		04/26/17 03:10 PM	4/27/2017
1704287-13	INC-MW10-020		04/26/17 04:10 PM	4/27/2017

Lab Order: 1704287
Client: AECOM
Project: GLO/City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1704287-01A	INC-MW09-020	04/25/17 11:05 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/01/17 09:06 AM	80260
	INC-MW09-020	04/25/17 11:05 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	05/01/17 08:59 AM	80257
1704287-01B	INC-MW09-020	04/25/17 11:05 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	04/28/17 01:57 PM	80248
1704287-02A	INC-MW12-020	04/25/17 01:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/01/17 09:06 AM	80260
	INC-MW12-020	04/25/17 01:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/01/17 09:06 AM	80260
	INC-MW12-020	04/25/17 01:15 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	05/01/17 08:59 AM	80257
1704287-02B	INC-MW12-020	04/25/17 01:15 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	04/28/17 01:57 PM	80248
1704287-03A	INC-MW12-021	04/25/17 01:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/01/17 09:06 AM	80260
	INC-MW12-021	04/25/17 01:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/01/17 09:06 AM	80260
	INC-MW12-021	04/25/17 01:15 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	05/01/17 08:59 AM	80257
1704287-03B	INC-MW12-021	04/25/17 01:15 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	04/28/17 01:57 PM	80248
1704287-04A	INC-MW11-020	04/25/17 02:55 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/01/17 09:06 AM	80260
	INC-MW11-020	04/25/17 02:55 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/01/17 09:06 AM	80260
	INC-MW11-020	04/25/17 02:55 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	05/01/17 08:59 AM	80257
1704287-04B	INC-MW11-020	04/25/17 02:55 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	04/28/17 01:57 PM	80248
1704287-05A	INC-MW13-020	04/25/17 03:55 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/01/17 09:06 AM	80260
	INC-MW13-020	04/25/17 03:55 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	05/01/17 08:59 AM	80257
1704287-05B	INC-MW13-020	04/25/17 03:55 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	04/28/17 01:57 PM	80248
1704287-06A	INC-MW08-020	04/25/17 05:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/01/17 09:06 AM	80260
	INC-MW08-020	04/25/17 05:15 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	05/01/17 08:59 AM	80257
1704287-06B	INC-MW08-020	04/25/17 05:15 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	04/28/17 01:57 PM	80248
1704287-07A	INC-MW04-020	04/26/17 09:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/01/17 09:06 AM	80260
	INC-MW04-020	04/26/17 09:45 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	05/01/17 08:59 AM	80257
1704287-07B	INC-MW04-020	04/26/17 09:45 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	04/28/17 01:57 PM	80248
1704287-08A	INC-MW03-020	04/26/17 10:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/01/17 09:06 AM	80260
	INC-MW03-020	04/26/17 10:40 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	05/01/17 08:59 AM	80257
1704287-08B	INC-MW03-020	04/26/17 10:40 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	04/28/17 01:57 PM	80248
1704287-09A	INC-MW01-020	04/26/17 11:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/01/17 09:06 AM	80260

Lab Order: 1704287
Client: AECOM
Project: GLO/City of Galveston Incinerator

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1704287-09A	INC-MW01-020	04/26/17 11:40 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	05/01/17 08:59 AM	80257
1704287-09B	INC-MW01-020	04/26/17 11:40 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	04/28/17 01:57 PM	80248
1704287-10A	INC-MW05-020	04/26/17 01:05 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/01/17 09:06 AM	80260
	INC-MW05-020	04/26/17 01:05 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	05/01/17 08:59 AM	80257
1704287-10B	INC-MW05-020	04/26/17 01:05 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	04/28/17 01:57 PM	80248
	INC-MW05-020	04/26/17 01:05 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	04/28/17 01:57 PM	80248
1704287-11A	INC-MW07-023	04/26/17 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/01/17 09:06 AM	80260
	INC-MW07-023	04/26/17 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/01/17 09:06 AM	80260
	INC-MW07-023	04/26/17 02:10 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	05/01/17 08:59 AM	80257
1704287-11B	INC-MW07-023	04/26/17 02:10 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	04/28/17 01:57 PM	80248
	INC-MW07-023	04/26/17 02:10 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	04/28/17 01:57 PM	80248
1704287-12A	INC-MW06-020	04/26/17 03:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/01/17 09:06 AM	80260
	INC-MW06-020	04/26/17 03:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/01/17 09:06 AM	80260
	INC-MW06-020	04/26/17 03:10 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	05/01/17 08:59 AM	80257
1704287-12B	INC-MW06-020	04/26/17 03:10 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	04/28/17 01:57 PM	80248
1704287-13A	INC-MW10-020	04/26/17 04:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/01/17 09:06 AM	80260
	INC-MW10-020	04/26/17 04:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/01/17 09:06 AM	80260
	INC-MW10-020	04/26/17 04:10 PM	Aqueous	SW7470A	Mercury Aq Prep, Total	05/01/17 08:59 AM	80257
1704287-13B	INC-MW10-020	04/26/17 04:10 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: PAH	04/28/17 01:57 PM	80248

Lab Order: 1704287
Client: AECOM
Project: GLO/City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1704287-01A	INC-MW09-020	Aqueous	SW7470A	Mercury Total: Aqueous	80257	1	05/02/17 09:12 AM	CETAC2_HG_170502A
	INC-MW09-020	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	80260	1	05/04/17 01:10 PM	ICP-MS4_170504B
1704287-01B	INC-MW09-020	Aqueous	SW8270D-LL	PAHs: GC/MS	80248	1	05/01/17 10:32 AM	GCMS6_170501A
1704287-02A	INC-MW12-020	Aqueous	SW7470A	Mercury Total: Aqueous	80257	1	05/02/17 09:14 AM	CETAC2_HG_170502A
	INC-MW12-020	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	80260	1	05/04/17 01:12 PM	ICP-MS4_170504B
	INC-MW12-020	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	80260	5	05/04/17 05:03 PM	ICP-MS4_170504B
1704287-02B	INC-MW12-020	Aqueous	SW8270D-LL	PAHs: GC/MS	80248	1	05/01/17 11:04 AM	GCMS6_170501A
1704287-03A	INC-MW12-021	Aqueous	SW7470A	Mercury Total: Aqueous	80257	1	05/02/17 09:16 AM	CETAC2_HG_170502A
	INC-MW12-021	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	80260	1	05/04/17 01:13 PM	ICP-MS4_170504B
	INC-MW12-021	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	80260	5	05/04/17 05:05 PM	ICP-MS4_170504B
1704287-03B	INC-MW12-021	Aqueous	SW8270D-LL	PAHs: GC/MS	80248	1	05/01/17 11:36 AM	GCMS6_170501A
1704287-04A	INC-MW11-020	Aqueous	SW7470A	Mercury Total: Aqueous	80257	1	05/02/17 09:19 AM	CETAC2_HG_170502A
	INC-MW11-020	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	80260	5	05/04/17 05:11 PM	ICP-MS4_170504B
	INC-MW11-020	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	80260	1	05/04/17 01:15 PM	ICP-MS4_170504B
1704287-04B	INC-MW11-020	Aqueous	SW8270D-LL	PAHs: GC/MS	80248	1	05/01/17 12:07 PM	GCMS6_170501A
1704287-05A	INC-MW13-020	Aqueous	SW7470A	Mercury Total: Aqueous	80257	1	05/02/17 09:21 AM	CETAC2_HG_170502A
	INC-MW13-020	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	80260	1	05/04/17 01:17 PM	ICP-MS4_170504B
1704287-05B	INC-MW13-020	Aqueous	SW8270D-LL	PAHs: GC/MS	80248	1	05/01/17 12:39 PM	GCMS6_170501A
1704287-06A	INC-MW08-020	Aqueous	SW7470A	Mercury Total: Aqueous	80257	1	05/02/17 09:23 AM	CETAC2_HG_170502A
	INC-MW08-020	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	80260	1	05/04/17 01:19 PM	ICP-MS4_170504B
1704287-06B	INC-MW08-020	Aqueous	SW8270D-LL	PAHs: GC/MS	80248	1	05/01/17 01:11 PM	GCMS6_170501A
1704287-07A	INC-MW04-020	Aqueous	SW7470A	Mercury Total: Aqueous	80257	1	05/02/17 09:26 AM	CETAC2_HG_170502A
	INC-MW04-020	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	80260	1	05/04/17 01:21 PM	ICP-MS4_170504B
1704287-07B	INC-MW04-020	Aqueous	SW8270D-LL	PAHs: GC/MS	80248	1	05/01/17 01:42 PM	GCMS6_170501A

Lab Order: 1704287
Client: AECOM
Project: GLO/City of Galveston Incinerator

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1704287-08A	INC-MW03-020	Aqueous	SW7470A	Mercury Total: Aqueous	80257	1	05/02/17 09:28 AM	CETAC2_HG_170502A
	INC-MW03-020	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	80260	1	05/04/17 01:23 PM	ICP-MS4_170504B
1704287-08B	INC-MW03-020	Aqueous	SW8270D-LL	PAHs: GC/MS	80248	1	05/01/17 02:14 PM	GCMS6_170501A
1704287-09A	INC-MW01-020	Aqueous	SW7470A	Mercury Total: Aqueous	80257	1	05/02/17 09:30 AM	CETAC2_HG_170502A
	INC-MW01-020	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	80260	1	05/04/17 01:25 PM	ICP-MS4_170504B
1704287-09B	INC-MW01-020	Aqueous	SW8270D-LL	PAHs: GC/MS	80248	1	05/01/17 02:45 PM	GCMS6_170501A
1704287-10A	INC-MW05-020	Aqueous	SW7470A	Mercury Total: Aqueous	80257	1	05/02/17 09:32 AM	CETAC2_HG_170502A
	INC-MW05-020	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	80260	1	05/04/17 02:48 PM	ICP-MS4_170504B
1704287-10B	INC-MW05-020	Aqueous	SW8270D-LL	PAHs: GC/MS	80248	1	05/01/17 03:17 PM	GCMS6_170501A
	INC-MW05-020	Aqueous	SW8270D-LL	PAHs: GC/MS	80248	50	05/02/17 01:29 PM	GCMS6_170501A
1704287-11A	INC-MW07-023	Aqueous	SW7470A	Mercury Total: Aqueous	80257	1	05/02/17 09:39 AM	CETAC2_HG_170502A
	INC-MW07-023	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	80260	1	05/04/17 01:06 PM	ICP-MS4_170504B
	INC-MW07-023	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	80260	5	05/04/17 04:59 PM	ICP-MS4_170504B
1704287-11B	INC-MW07-023	Aqueous	SW8270D-LL	PAHs: GC/MS	80248	1	05/01/17 03:49 PM	GCMS6_170501A
	INC-MW07-023	Aqueous	SW8270D-LL	PAHs: GC/MS	80248	1	05/02/17 12:57 PM	GCMS6_170501A
1704287-12A	INC-MW06-020	Aqueous	SW7470A	Mercury Total: Aqueous	80257	1	05/02/17 09:51 AM	CETAC2_HG_170502A
	INC-MW06-020	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	80260	1	05/04/17 02:50 PM	ICP-MS4_170504B
	INC-MW06-020	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	80260	10	05/05/17 01:45 PM	ICP-MS5_170505C
1704287-12B	INC-MW06-020	Aqueous	SW8270D-LL	PAHs: GC/MS	80248	1	05/01/17 04:20 PM	GCMS6_170501A
1704287-13A	INC-MW10-020	Aqueous	SW7470A	Mercury Total: Aqueous	80257	1	05/02/17 09:53 AM	CETAC2_HG_170502A
	INC-MW10-020	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	80260	1	05/04/17 02:52 PM	ICP-MS4_170504B
	INC-MW10-020	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	80260	10	05/05/17 01:46 PM	ICP-MS5_170505C
1704287-13B	INC-MW10-020	Aqueous	SW8270D-LL	PAHs: GC/MS	80248	1	05/01/17 04:52 PM	GCMS6_170501A

DHL Analytical, Inc.

Date: *08-May-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW09-020
Project:	GLO/City of Galveston Incinerator	**Lab ID:**	1704287-01
Project No:	60420789.33071	**Collection Date:**	04/25/17 11:05 AM
Lab Order:	1704287	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	05/04/17 01:10 PM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:10 PM
Barium	0.0185	0.00300	0.0100		mg/L	1	05/04/17 01:10 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:10 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:10 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:10 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:10 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	05/04/17 01:10 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:10 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	05/04/17 01:10 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **AH**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	05/02/17 09:12 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	0.00525	0.0000298	0.0000596		mg/L	1	05/01/17 10:32 AM
Acenaphthylene	<0.0000298	0.0000298	0.0000596		mg/L	1	05/01/17 10:32 AM
Anthracene	0.000117	0.0000298	0.0000596		mg/L	1	05/01/17 10:32 AM
Benzo[a]anthracene	<0.0000298	0.0000298	0.0000596		mg/L	1	05/01/17 10:32 AM
Benzo[a]pyrene	<0.0000298	0.0000298	0.0000596		mg/L	1	05/01/17 10:32 AM
Benzo[b]fluoranthene	<0.0000298	0.0000298	0.0000596		mg/L	1	05/01/17 10:32 AM
Benzo[g,h,i]perylene	<0.0000298	0.0000298	0.0000596		mg/L	1	05/01/17 10:32 AM
Benzo[k]fluoranthene	<0.0000298	0.0000298	0.0000596		mg/L	1	05/01/17 10:32 AM
Chrysene	<0.0000298	0.0000298	0.0000596		mg/L	1	05/01/17 10:32 AM
Dibenz[a,h]anthracene	<0.0000298	0.0000298	0.0000596		mg/L	1	05/01/17 10:32 AM
Fluoranthene	0.000259	0.0000298	0.0000596		mg/L	1	05/01/17 10:32 AM
Fluorene	<0.0000298	0.0000298	0.0000596		mg/L	1	05/01/17 10:32 AM
Indeno[1,2,3-cd]pyrene	<0.0000298	0.0000298	0.0000596		mg/L	1	05/01/17 10:32 AM
Naphthalene	<0.0000298	0.0000298	0.0000596		mg/L	1	05/01/17 10:32 AM
Phenanthrene	<0.0000298	0.0000298	0.0000596		mg/L	1	05/01/17 10:32 AM
Pyrene	0.000170	0.0000298	0.0000596		mg/L	1	05/01/17 10:32 AM
Surr: 2-Fluorobiphenyl	76.0	0	48-120		%REC	1	05/01/17 10:32 AM
Surr: 4-Terphenyl-d14	74.2	0	51-135		%REC	1	05/01/17 10:32 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *08-May-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW12-020
Project:	GLO/City of Galveston Incinerator	**Lab ID:**	1704287-02
Project No:	60420789.33071	**Collection Date:**	04/25/17 01:15 PM
Lab Order:	1704287	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	05/04/17 01:12 PM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:12 PM
Barium	0.0550	0.0150	0.0500		mg/L	5	05/04/17 05:03 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:12 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:12 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:12 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:12 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	05/04/17 01:12 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:12 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	05/04/17 01:12 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **AH**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	05/02/17 09:14 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	<0.0000288	0.0000288	0.0000576		mg/L	1	05/01/17 11:04 AM
Acenaphthylene	<0.0000288	0.0000288	0.0000576		mg/L	1	05/01/17 11:04 AM
Anthracene	<0.0000288	0.0000288	0.0000576		mg/L	1	05/01/17 11:04 AM
Benzo[a]anthracene	<0.0000288	0.0000288	0.0000576		mg/L	1	05/01/17 11:04 AM
Benzo[a]pyrene	<0.0000288	0.0000288	0.0000576		mg/L	1	05/01/17 11:04 AM
Benzo[b]fluoranthene	<0.0000288	0.0000288	0.0000576		mg/L	1	05/01/17 11:04 AM
Benzo[g,h,i]perylene	<0.0000288	0.0000288	0.0000576		mg/L	1	05/01/17 11:04 AM
Benzo[k]fluoranthene	<0.0000288	0.0000288	0.0000576		mg/L	1	05/01/17 11:04 AM
Chrysene	<0.0000288	0.0000288	0.0000576		mg/L	1	05/01/17 11:04 AM
Dibenz[a,h]anthracene	<0.0000288	0.0000288	0.0000576		mg/L	1	05/01/17 11:04 AM
Fluoranthene	<0.0000288	0.0000288	0.0000576		mg/L	1	05/01/17 11:04 AM
Fluorene	<0.0000288	0.0000288	0.0000576		mg/L	1	05/01/17 11:04 AM
Indeno[1,2,3-cd]pyrene	<0.0000288	0.0000288	0.0000576		mg/L	1	05/01/17 11:04 AM
Naphthalene	<0.0000288	0.0000288	0.0000576		mg/L	1	05/01/17 11:04 AM
Phenanthrene	<0.0000288	0.0000288	0.0000576		mg/L	1	05/01/17 11:04 AM
Pyrene	<0.0000288	0.0000288	0.0000576		mg/L	1	05/01/17 11:04 AM
Surr: 2-Fluorobiphenyl	74.3	0	48-120		%REC	1	05/01/17 11:04 AM
Surr: 4-Terphenyl-d14	77.3	0	51-135		%REC	1	05/01/17 11:04 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *08-May-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW12-021
Project:	GLO/City of Galveston Incinerator	**Lab ID:**	1704287-03
Project No:	60420789.33071	**Collection Date:**	04/25/17 01:15 PM
Lab Order:	1704287	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	05/04/17 01:13 PM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:13 PM
Barium	0.0551	0.0150	0.0500		mg/L	5	05/04/17 05:05 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:13 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:13 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:13 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:13 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	05/04/17 01:13 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:13 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	05/04/17 01:13 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **AH**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	05/02/17 09:16 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	<0.0000302	0.0000302	0.0000603		mg/L	1	05/01/17 11:36 AM
Acenaphthylene	<0.0000302	0.0000302	0.0000603		mg/L	1	05/01/17 11:36 AM
Anthracene	<0.0000302	0.0000302	0.0000603		mg/L	1	05/01/17 11:36 AM
Benzo[a]anthracene	<0.0000302	0.0000302	0.0000603		mg/L	1	05/01/17 11:36 AM
Benzo[a]pyrene	<0.0000302	0.0000302	0.0000603		mg/L	1	05/01/17 11:36 AM
Benzo[b]fluoranthene	0.0000366	0.0000302	0.0000603	J	mg/L	1	05/01/17 11:36 AM
Benzo[g,h,i]perylene	<0.0000302	0.0000302	0.0000603		mg/L	1	05/01/17 11:36 AM
Benzo[k]fluoranthene	<0.0000302	0.0000302	0.0000603		mg/L	1	05/01/17 11:36 AM
Chrysene	<0.0000302	0.0000302	0.0000603		mg/L	1	05/01/17 11:36 AM
Dibenz[a,h]anthracene	<0.0000302	0.0000302	0.0000603		mg/L	1	05/01/17 11:36 AM
Fluoranthene	<0.0000302	0.0000302	0.0000603		mg/L	1	05/01/17 11:36 AM
Fluorene	<0.0000302	0.0000302	0.0000603		mg/L	1	05/01/17 11:36 AM
Indeno[1,2,3-cd]pyrene	<0.0000302	0.0000302	0.0000603		mg/L	1	05/01/17 11:36 AM
Naphthalene	<0.0000302	0.0000302	0.0000603		mg/L	1	05/01/17 11:36 AM
Phenanthrene	<0.0000302	0.0000302	0.0000603		mg/L	1	05/01/17 11:36 AM
Pyrene	<0.0000302	0.0000302	0.0000603		mg/L	1	05/01/17 11:36 AM
Surr: 2-Fluorobiphenyl	74.6	0	48-120		%REC	1	05/01/17 11:36 AM
Surr: 4-Terphenyl-d14	75.6	0	51-135		%REC	1	05/01/17 11:36 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *08-May-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW11-020
Project:	GLO/City of Galveston Incinerator	**Lab ID:**	1704287-04
Project No:	60420789.33071	**Collection Date:**	04/25/17 02:55 PM
Lab Order:	1704287	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	05/04/17 01:15 PM
Arsenic	0.0127	0.00200	0.00500		mg/L	1	05/04/17 01:15 PM
Barium	0.0819	0.0150	0.0500		mg/L	5	05/04/17 05:11 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:15 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:15 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:15 PM
Lead	0.000909	0.000300	0.00100	J	mg/L	1	05/04/17 01:15 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	05/04/17 01:15 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:15 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	05/04/17 01:15 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **AH**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	05/02/17 09:19 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/01/17 12:07 PM
Acenaphthylene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/01/17 12:07 PM
Anthracene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/01/17 12:07 PM
Benzo[a]anthracene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/01/17 12:07 PM
Benzo[a]pyrene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/01/17 12:07 PM
Benzo[b]fluoranthene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/01/17 12:07 PM
Benzo[g,h,i]perylene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/01/17 12:07 PM
Benzo[k]fluoranthene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/01/17 12:07 PM
Chrysene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/01/17 12:07 PM
Dibenz[a,h]anthracene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/01/17 12:07 PM
Fluoranthene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/01/17 12:07 PM
Fluorene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/01/17 12:07 PM
Indeno[1,2,3-cd]pyrene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/01/17 12:07 PM
Naphthalene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/01/17 12:07 PM
Phenanthrene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/01/17 12:07 PM
Pyrene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/01/17 12:07 PM
Surr: 2-Fluorobiphenyl	69.2	0	48-120		%REC	1	05/01/17 12:07 PM
Surr: 4-Terphenyl-d14	74.2	0	51-135		%REC	1	05/01/17 12:07 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *08-May-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW13-020
Project:	GLO/City of Galveston Incinerator	**Lab ID:**	1704287-05
Project No:	60420789.33071	**Collection Date:**	04/25/17 03:55 PM
Lab Order:	1704287	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	05/04/17 01:17 PM
Arsenic	0.0134	0.00200	0.00500		mg/L	1	05/04/17 01:17 PM
Barium	0.0793	0.00300	0.0100		mg/L	1	05/04/17 01:17 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:17 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:17 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:17 PM
Lead	0.000321	0.000300	0.00100	J	mg/L	1	05/04/17 01:17 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	05/04/17 01:17 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:17 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	05/04/17 01:17 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **AH**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	05/02/17 09:21 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	0.000230	0.0000288	0.0000577		mg/L	1	05/01/17 12:39 PM
Acenaphthylene	<0.0000288	0.0000288	0.0000577		mg/L	1	05/01/17 12:39 PM
Anthracene	<0.0000288	0.0000288	0.0000577		mg/L	1	05/01/17 12:39 PM
Benzo[a]anthracene	<0.0000288	0.0000288	0.0000577		mg/L	1	05/01/17 12:39 PM
Benzo[a]pyrene	<0.0000288	0.0000288	0.0000577		mg/L	1	05/01/17 12:39 PM
Benzo[b]fluoranthene	<0.0000288	0.0000288	0.0000577		mg/L	1	05/01/17 12:39 PM
Benzo[g,h,i]perylene	<0.0000288	0.0000288	0.0000577		mg/L	1	05/01/17 12:39 PM
Benzo[k]fluoranthene	<0.0000288	0.0000288	0.0000577		mg/L	1	05/01/17 12:39 PM
Chrysene	<0.0000288	0.0000288	0.0000577		mg/L	1	05/01/17 12:39 PM
Dibenz[a,h]anthracene	<0.0000288	0.0000288	0.0000577		mg/L	1	05/01/17 12:39 PM
Fluoranthene	<0.0000288	0.0000288	0.0000577		mg/L	1	05/01/17 12:39 PM
Fluorene	<0.0000288	0.0000288	0.0000577		mg/L	1	05/01/17 12:39 PM
Indeno[1,2,3-cd]pyrene	<0.0000288	0.0000288	0.0000577		mg/L	1	05/01/17 12:39 PM
Naphthalene	<0.0000288	0.0000288	0.0000577		mg/L	1	05/01/17 12:39 PM
Phenanthrene	<0.0000288	0.0000288	0.0000577		mg/L	1	05/01/17 12:39 PM
Pyrene	<0.0000288	0.0000288	0.0000577		mg/L	1	05/01/17 12:39 PM
Surr: 2-Fluorobiphenyl	69.2	0	48-120		%REC	1	05/01/17 12:39 PM
Surr: 4-Terphenyl-d14	71.1	0	51-135		%REC	1	05/01/17 12:39 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *08-May-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW08-020
Project:	GLO/City of Galveston Incinerator	**Lab ID:**	1704287-06
Project No:	60420789.33071	**Collection Date:**	04/25/17 05:15 PM
Lab Order:	1704287	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	0.00195	0.000800	0.00250	J	mg/L	1	05/04/17 01:19 PM
Arsenic	0.00208	0.00200	0.00500	J	mg/L	1	05/04/17 01:19 PM
Barium	0.103	0.00300	0.0100		mg/L	1	05/04/17 01:19 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:19 PM
Cadmium	0.000391	0.000300	0.00100	J	mg/L	1	05/04/17 01:19 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:19 PM
Lead	0.00691	0.000300	0.00100		mg/L	1	05/04/17 01:19 PM
Nickel	0.00708	0.00300	0.0100	J	mg/L	1	05/04/17 01:19 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:19 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	05/04/17 01:19 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **AH**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	05/02/17 09:23 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	<0.0000296	0.0000296	0.0000591		mg/L	1	05/01/17 01:11 PM
Acenaphthylene	<0.0000296	0.0000296	0.0000591		mg/L	1	05/01/17 01:11 PM
Anthracene	<0.0000296	0.0000296	0.0000591		mg/L	1	05/01/17 01:11 PM
Benzo[a]anthracene	<0.0000296	0.0000296	0.0000591		mg/L	1	05/01/17 01:11 PM
Benzo[a]pyrene	<0.0000296	0.0000296	0.0000591		mg/L	1	05/01/17 01:11 PM
Benzo[b]fluoranthene	<0.0000296	0.0000296	0.0000591		mg/L	1	05/01/17 01:11 PM
Benzo[g,h,i]perylene	<0.0000296	0.0000296	0.0000591		mg/L	1	05/01/17 01:11 PM
Benzo[k]fluoranthene	<0.0000296	0.0000296	0.0000591		mg/L	1	05/01/17 01:11 PM
Chrysene	<0.0000296	0.0000296	0.0000591		mg/L	1	05/01/17 01:11 PM
Dibenz[a,h]anthracene	<0.0000296	0.0000296	0.0000591		mg/L	1	05/01/17 01:11 PM
Fluoranthene	<0.0000296	0.0000296	0.0000591		mg/L	1	05/01/17 01:11 PM
Fluorene	<0.0000296	0.0000296	0.0000591		mg/L	1	05/01/17 01:11 PM
Indeno[1,2,3-cd]pyrene	<0.0000296	0.0000296	0.0000591		mg/L	1	05/01/17 01:11 PM
Naphthalene	<0.0000296	0.0000296	0.0000591		mg/L	1	05/01/17 01:11 PM
Phenanthrene	<0.0000296	0.0000296	0.0000591		mg/L	1	05/01/17 01:11 PM
Pyrene	<0.0000296	0.0000296	0.0000591		mg/L	1	05/01/17 01:11 PM
Surr: 2-Fluorobiphenyl	73.4	0	48-120		%REC	1	05/01/17 01:11 PM
Surr: 4-Terphenyl-d14	77.5	0	51-135		%REC	1	05/01/17 01:11 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *08-May-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW04-020
Project:	GLO/City of Galveston Incinerator	**Lab ID:**	1704287-07
Project No:	60420789.33071	**Collection Date:**	04/26/17 09:45 AM
Lab Order:	1704287	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	0.000991	0.000800	0.00250	J	mg/L	1	05/04/17 01:21 PM
Arsenic	0.00321	0.00200	0.00500	J	mg/L	1	05/04/17 01:21 PM
Barium	0.159	0.00300	0.0100		mg/L	1	05/04/17 01:21 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:21 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:21 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:21 PM
Lead	0.00665	0.000300	0.00100		mg/L	1	05/04/17 01:21 PM
Nickel	0.00857	0.00300	0.0100	J	mg/L	1	05/04/17 01:21 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:21 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	05/04/17 01:21 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **AH**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	05/02/17 09:26 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	<0.0000247	0.0000247	0.0000494		mg/L	1	05/01/17 01:42 PM
Acenaphthylene	<0.0000247	0.0000247	0.0000494		mg/L	1	05/01/17 01:42 PM
Anthracene	<0.0000247	0.0000247	0.0000494		mg/L	1	05/01/17 01:42 PM
Benzo[a]anthracene	<0.0000247	0.0000247	0.0000494		mg/L	1	05/01/17 01:42 PM
Benzo[a]pyrene	<0.0000247	0.0000247	0.0000494		mg/L	1	05/01/17 01:42 PM
Benzo[b]fluoranthene	<0.0000247	0.0000247	0.0000494		mg/L	1	05/01/17 01:42 PM
Benzo[g,h,i]perylene	<0.0000247	0.0000247	0.0000494		mg/L	1	05/01/17 01:42 PM
Benzo[k]fluoranthene	<0.0000247	0.0000247	0.0000494		mg/L	1	05/01/17 01:42 PM
Chrysene	<0.0000247	0.0000247	0.0000494		mg/L	1	05/01/17 01:42 PM
Dibenz[a,h]anthracene	<0.0000247	0.0000247	0.0000494		mg/L	1	05/01/17 01:42 PM
Fluoranthene	<0.0000247	0.0000247	0.0000494		mg/L	1	05/01/17 01:42 PM
Fluorene	<0.0000247	0.0000247	0.0000494		mg/L	1	05/01/17 01:42 PM
Indeno[1,2,3-cd]pyrene	<0.0000247	0.0000247	0.0000494		mg/L	1	05/01/17 01:42 PM
Naphthalene	<0.0000247	0.0000247	0.0000494		mg/L	1	05/01/17 01:42 PM
Phenanthrene	<0.0000247	0.0000247	0.0000494		mg/L	1	05/01/17 01:42 PM
Pyrene	<0.0000247	0.0000247	0.0000494		mg/L	1	05/01/17 01:42 PM
Surr: 2-Fluorobiphenyl	73.9	0	48-120		%REC	1	05/01/17 01:42 PM
Surr: 4-Terphenyl-d14	74.3	0	51-135		%REC	1	05/01/17 01:42 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *08-May-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW03-020
Project:	GLO/City of Galveston Incinerator	**Lab ID:**	1704287-08
Project No:	60420789.33071	**Collection Date:**	04/26/17 10:40 AM
Lab Order:	1704287	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	05/04/17 01:23 PM
Arsenic	0.00502	0.00200	0.00500		mg/L	1	05/04/17 01:23 PM
Barium	0.0821	0.00300	0.0100		mg/L	1	05/04/17 01:23 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:23 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:23 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:23 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:23 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	05/04/17 01:23 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:23 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	05/04/17 01:23 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **AH**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	05/02/17 09:28 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	<0.0000297	0.0000297	0.0000593		mg/L	1	05/01/17 02:14 PM
Acenaphthylene	<0.0000297	0.0000297	0.0000593		mg/L	1	05/01/17 02:14 PM
Anthracene	<0.0000297	0.0000297	0.0000593		mg/L	1	05/01/17 02:14 PM
Benzo[a]anthracene	<0.0000297	0.0000297	0.0000593		mg/L	1	05/01/17 02:14 PM
Benzo[a]pyrene	<0.0000297	0.0000297	0.0000593		mg/L	1	05/01/17 02:14 PM
Benzo[b]fluoranthene	<0.0000297	0.0000297	0.0000593		mg/L	1	05/01/17 02:14 PM
Benzo[g,h,i]perylene	<0.0000297	0.0000297	0.0000593		mg/L	1	05/01/17 02:14 PM
Benzo[k]fluoranthene	<0.0000297	0.0000297	0.0000593		mg/L	1	05/01/17 02:14 PM
Chrysene	<0.0000297	0.0000297	0.0000593		mg/L	1	05/01/17 02:14 PM
Dibenz[a,h]anthracene	<0.0000297	0.0000297	0.0000593		mg/L	1	05/01/17 02:14 PM
Fluoranthene	<0.0000297	0.0000297	0.0000593		mg/L	1	05/01/17 02:14 PM
Fluorene	<0.0000297	0.0000297	0.0000593		mg/L	1	05/01/17 02:14 PM
Indeno[1,2,3-cd]pyrene	<0.0000297	0.0000297	0.0000593		mg/L	1	05/01/17 02:14 PM
Naphthalene	<0.0000297	0.0000297	0.0000593		mg/L	1	05/01/17 02:14 PM
Phenanthrene	<0.0000297	0.0000297	0.0000593		mg/L	1	05/01/17 02:14 PM
Pyrene	<0.0000297	0.0000297	0.0000593		mg/L	1	05/01/17 02:14 PM
Surr: 2-Fluorobiphenyl	74.3	0	48-120		%REC	1	05/01/17 02:14 PM
Surr: 4-Terphenyl-d14	73.7	0	51-135		%REC	1	05/01/17 02:14 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *08-May-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW01-020
Project:	GLO/City of Galveston Incinerator	**Lab ID:**	1704287-09
Project No:	60420789.33071	**Collection Date:**	04/26/17 11:40 AM
Lab Order:	1704287	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	05/04/17 01:25 PM
Arsenic	0.00284	0.00200	0.00500	J	mg/L	1	05/04/17 01:25 PM
Barium	0.0308	0.00300	0.0100		mg/L	1	05/04/17 01:25 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:25 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:25 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:25 PM
Lead	0.000410	0.000300	0.00100	J	mg/L	1	05/04/17 01:25 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	05/04/17 01:25 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:25 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	05/04/17 01:25 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **AH**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	05/02/17 09:30 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	<0.0000300	0.0000300	0.0000599		mg/L	1	05/01/17 02:45 PM
Acenaphthylene	<0.0000300	0.0000300	0.0000599		mg/L	1	05/01/17 02:45 PM
Anthracene	<0.0000300	0.0000300	0.0000599		mg/L	1	05/01/17 02:45 PM
Benzo[a]anthracene	<0.0000300	0.0000300	0.0000599		mg/L	1	05/01/17 02:45 PM
Benzo[a]pyrene	<0.0000300	0.0000300	0.0000599		mg/L	1	05/01/17 02:45 PM
Benzo[b]fluoranthene	<0.0000300	0.0000300	0.0000599		mg/L	1	05/01/17 02:45 PM
Benzo[g,h,i]perylene	<0.0000300	0.0000300	0.0000599		mg/L	1	05/01/17 02:45 PM
Benzo[k]fluoranthene	<0.0000300	0.0000300	0.0000599		mg/L	1	05/01/17 02:45 PM
Chrysene	<0.0000300	0.0000300	0.0000599		mg/L	1	05/01/17 02:45 PM
Dibenz[a,h]anthracene	<0.0000300	0.0000300	0.0000599		mg/L	1	05/01/17 02:45 PM
Fluoranthene	<0.0000300	0.0000300	0.0000599		mg/L	1	05/01/17 02:45 PM
Fluorene	<0.0000300	0.0000300	0.0000599		mg/L	1	05/01/17 02:45 PM
Indeno[1,2,3-cd]pyrene	<0.0000300	0.0000300	0.0000599		mg/L	1	05/01/17 02:45 PM
Naphthalene	<0.0000300	0.0000300	0.0000599		mg/L	1	05/01/17 02:45 PM
Phenanthrene	<0.0000300	0.0000300	0.0000599		mg/L	1	05/01/17 02:45 PM
Pyrene	<0.0000300	0.0000300	0.0000599		mg/L	1	05/01/17 02:45 PM
Surr: 2-Fluorobiphenyl	70.1	0	48-120		%REC	1	05/01/17 02:45 PM
Surr: 4-Terphenyl-d14	69.5	0	51-135		%REC	1	05/01/17 02:45 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *08-May-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW05-020
Project:	GLO/City of Galveston Incinerator	**Lab ID:**	1704287-10
Project No:	60420789.33071	**Collection Date:**	04/26/17 01:05 PM
Lab Order:	1704287	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	05/04/17 02:48 PM
Arsenic	0.00253	0.00200	0.00500	J	mg/L	1	05/04/17 02:48 PM
Barium	0.239	0.00300	0.0100		mg/L	1	05/04/17 02:48 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 02:48 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 02:48 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 02:48 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 02:48 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	05/04/17 02:48 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 02:48 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	05/04/17 02:48 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **AH**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	05/02/17 09:32 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	0.154	0.00152	0.00304		mg/L	50	05/02/17 01:29 PM
Acenaphthylene	<0.0000304	0.0000304	0.0000608		mg/L	1	05/01/17 03:17 PM
Anthracene	0.00482	0.0000304	0.0000608		mg/L	1	05/01/17 03:17 PM
Benzo[a]anthracene	<0.0000304	0.0000304	0.0000608		mg/L	1	05/01/17 03:17 PM
Benzo[a]pyrene	<0.0000304	0.0000304	0.0000608		mg/L	1	05/01/17 03:17 PM
Benzo[b]fluoranthene	<0.0000304	0.0000304	0.0000608		mg/L	1	05/01/17 03:17 PM
Benzo[g,h,i]perylene	<0.0000304	0.0000304	0.0000608		mg/L	1	05/01/17 03:17 PM
Benzo[k]fluoranthene	<0.0000304	0.0000304	0.0000608		mg/L	1	05/01/17 03:17 PM
Chrysene	<0.0000304	0.0000304	0.0000608		mg/L	1	05/01/17 03:17 PM
Dibenz[a,h]anthracene	<0.0000304	0.0000304	0.0000608		mg/L	1	05/01/17 03:17 PM
Fluoranthene	0.00539	0.0000304	0.0000608		mg/L	1	05/01/17 03:17 PM
Fluorene	0.0554	0.00152	0.00304		mg/L	50	05/02/17 01:29 PM
Indeno[1,2,3-cd]pyrene	<0.0000304	0.0000304	0.0000608		mg/L	1	05/01/17 03:17 PM
Naphthalene	0.00700	0.0000304	0.0000608		mg/L	1	05/01/17 03:17 PM
Phenanthrene	0.0437	0.00152	0.00304		mg/L	50	05/02/17 01:29 PM
Pyrene	0.00200	0.0000304	0.0000608		mg/L	1	05/01/17 03:17 PM
Surr: 2-Fluorobiphenyl	66.7	0	48-120		%REC	1	05/01/17 03:17 PM
Surr: 2-Fluorobiphenyl	43.2	0	48-120	S	%REC	50	05/02/17 01:29 PM
Surr: 4-Terphenyl-d14	62.0	0	51-135		%REC	1	05/01/17 03:17 PM
Surr: 4-Terphenyl-d14	37.4	0	51-135	S	%REC	50	05/02/17 01:29 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *08-May-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW07-023
Project:	GLO/City of Galveston Incinerator	**Lab ID:**	1704287-11
Project No:	60420789.33071	**Collection Date:**	04/26/17 02:10 PM
Lab Order:	1704287	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	05/04/17 01:06 PM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:06 PM
Barium	0.0734	0.0150	0.0500		mg/L	5	05/04/17 04:59 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:06 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 01:06 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:06 PM
Lead	0.0195	0.00150	0.00500		mg/L	5	05/04/17 04:59 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	05/04/17 01:06 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 01:06 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	05/04/17 01:06 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **AH**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	05/02/17 09:39 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/02/17 12:57 PM
Acenaphthylene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/02/17 12:57 PM
Anthracene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/02/17 12:57 PM
Benzo[a]anthracene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/02/17 12:57 PM
Benzo[a]pyrene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/02/17 12:57 PM
Benzo[b]fluoranthene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/02/17 12:57 PM
Benzo[g,h,i]perylene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/02/17 12:57 PM
Benzo[k]fluoranthene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/02/17 12:57 PM
Chrysene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/02/17 12:57 PM
Dibenz[a,h]anthracene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/02/17 12:57 PM
Fluoranthene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/02/17 12:57 PM
Fluorene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/02/17 12:57 PM
Indeno[1,2,3-cd]pyrene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/02/17 12:57 PM
Naphthalene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/02/17 12:57 PM
Phenanthrene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/02/17 12:57 PM
Pyrene	<0.0000281	0.0000281	0.0000562		mg/L	1	05/02/17 12:57 PM
Surr: 2-Fluorobiphenyl	69.8	0	48-120		%REC	1	05/02/17 12:57 PM
Surr: 4-Terphenyl-d14	67.4	0	51-135		%REC	1	05/02/17 12:57 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *08-May-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW06-020
Project:	GLO/City of Galveston Incinerator	**Lab ID:**	1704287-12
Project No:	60420789.33071	**Collection Date:**	04/26/17 03:10 PM
Lab Order:	1704287	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	05/04/17 02:50 PM
Arsenic	0.00289	0.00200	0.00500	J	mg/L	1	05/04/17 02:50 PM
Barium	0.166	0.0300	0.100		mg/L	10	05/05/17 01:45 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 02:50 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 02:50 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 02:50 PM
Lead	0.00113	0.000300	0.00100		mg/L	1	05/04/17 02:50 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	05/04/17 02:50 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 02:50 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	05/04/17 02:50 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **AH**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	05/02/17 09:51 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	<0.0000278	0.0000278	0.0000556		mg/L	1	05/01/17 04:20 PM
Acenaphthylene	<0.0000278	0.0000278	0.0000556		mg/L	1	05/01/17 04:20 PM
Anthracene	<0.0000278	0.0000278	0.0000556		mg/L	1	05/01/17 04:20 PM
Benzo[a]anthracene	<0.0000278	0.0000278	0.0000556		mg/L	1	05/01/17 04:20 PM
Benzo[a]pyrene	<0.0000278	0.0000278	0.0000556		mg/L	1	05/01/17 04:20 PM
Benzo[b]fluoranthene	<0.0000278	0.0000278	0.0000556		mg/L	1	05/01/17 04:20 PM
Benzo[g,h,i]perylene	<0.0000278	0.0000278	0.0000556		mg/L	1	05/01/17 04:20 PM
Benzo[k]fluoranthene	<0.0000278	0.0000278	0.0000556		mg/L	1	05/01/17 04:20 PM
Chrysene	<0.0000278	0.0000278	0.0000556		mg/L	1	05/01/17 04:20 PM
Dibenz[a,h]anthracene	<0.0000278	0.0000278	0.0000556		mg/L	1	05/01/17 04:20 PM
Fluoranthene	<0.0000278	0.0000278	0.0000556		mg/L	1	05/01/17 04:20 PM
Fluorene	<0.0000278	0.0000278	0.0000556		mg/L	1	05/01/17 04:20 PM
Indeno[1,2,3-cd]pyrene	<0.0000278	0.0000278	0.0000556		mg/L	1	05/01/17 04:20 PM
Naphthalene	<0.0000278	0.0000278	0.0000556		mg/L	1	05/01/17 04:20 PM
Phenanthrene	<0.0000278	0.0000278	0.0000556		mg/L	1	05/01/17 04:20 PM
Pyrene	<0.0000278	0.0000278	0.0000556		mg/L	1	05/01/17 04:20 PM
Surr: 2-Fluorobiphenyl	64.7	0	48-120		%REC	1	05/01/17 04:20 PM
Surr: 4-Terphenyl-d14	68.3	0	51-135		%REC	1	05/01/17 04:20 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *08-May-17*

CLIENT:	AECOM	**Client Sample ID:**	INC-MW10-020
Project:	GLO/City of Galveston Incinerator	**Lab ID:**	1704287-13
Project No:	60420789.33071	**Collection Date:**	04/26/17 04:10 PM
Lab Order:	1704287	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **CVD**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	05/04/17 02:52 PM
Arsenic	0.00375	0.00200	0.00500	J	mg/L	1	05/04/17 02:52 PM
Barium	0.103	0.0300	0.100		mg/L	10	05/05/17 01:46 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 02:52 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	05/04/17 02:52 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 02:52 PM
Lead	0.00203	0.000300	0.00100		mg/L	1	05/04/17 02:52 PM
Nickel	<0.00300	0.00300	0.0100		mg/L	1	05/04/17 02:52 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	05/04/17 02:52 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	05/04/17 02:52 PM
MERCURY TOTAL: AQUEOUS		**SW7470A**					Analyst: **AH**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	05/02/17 09:53 AM
PAHS: GC/MS		**SW8270D-LL**					Analyst: **DB**
Acenaphthene	<0.0000312	0.0000312	0.0000623		mg/L	1	05/01/17 04:52 PM
Acenaphthylene	<0.0000312	0.0000312	0.0000623		mg/L	1	05/01/17 04:52 PM
Anthracene	0.0000325	0.0000312	0.0000623	J	mg/L	1	05/01/17 04:52 PM
Benzo[a]anthracene	<0.0000312	0.0000312	0.0000623		mg/L	1	05/01/17 04:52 PM
Benzo[a]pyrene	<0.0000312	0.0000312	0.0000623		mg/L	1	05/01/17 04:52 PM
Benzo[b]fluoranthene	<0.0000312	0.0000312	0.0000623		mg/L	1	05/01/17 04:52 PM
Benzo[g,h,i]perylene	<0.0000312	0.0000312	0.0000623		mg/L	1	05/01/17 04:52 PM
Benzo[k]fluoranthene	<0.0000312	0.0000312	0.0000623		mg/L	1	05/01/17 04:52 PM
Chrysene	<0.0000312	0.0000312	0.0000623		mg/L	1	05/01/17 04:52 PM
Dibenz[a,h]anthracene	<0.0000312	0.0000312	0.0000623		mg/L	1	05/01/17 04:52 PM
Fluoranthene	0.000186	0.0000312	0.0000623		mg/L	1	05/01/17 04:52 PM
Fluorene	0.0000470	0.0000312	0.0000623	J	mg/L	1	05/01/17 04:52 PM
Indeno[1,2,3-cd]pyrene	<0.0000312	0.0000312	0.0000623		mg/L	1	05/01/17 04:52 PM
Naphthalene	<0.0000312	0.0000312	0.0000623		mg/L	1	05/01/17 04:52 PM
Phenanthrene	0.000111	0.0000312	0.0000623		mg/L	1	05/01/17 04:52 PM
Pyrene	0.000156	0.0000312	0.0000623		mg/L	1	05/01/17 04:52 PM
Surr: 2-Fluorobiphenyl	66.5	0	48-120		%REC	1	05/01/17 04:52 PM
Surr: 4-Terphenyl-d14	66.9	0	51-135		%REC	1	05/01/17 04:52 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *08-May-17*

CLIENT: AECOM
Work Order: 1704287
Project: GLO/City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170418A**

Sample ID	**DCS-80017**	Batch ID:	**80017**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**CETAC2_HG_170418A**	Analysis Date:	**4/18/2017 1:27:19 PM**	Prep Date:	**4/14/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.000170	0.000200	0.000200	0	85.0	82	119	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704287
Project: GLO/City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170502A**

The QC data in batch 80257 applies to the following samples: 1704287-01A, 1704287-02A, 1704287-03A, 1704287-04A, 1704287-05A, 1704287-06A, 1704287-07A, 1704287-08A, 1704287-09A, 1704287-10A, 1704287-11A, 1704287-12A, 1704287-13A

Sample ID **MB-80257** Batch ID: **80257** TestNo: **SW7470A** Units: **mg/L**
SampType: **MBLK** Run ID: **CETAC2_HG_170502A** Analysis Date: **5/2/2017 9:05:39 AM** Prep Date: **5/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0000800	0.000200								

Sample ID **LCS-80257** Batch ID: **80257** TestNo: **SW7470A** Units: **mg/L**
SampType: **LCS** Run ID: **CETAC2_HG_170502A** Analysis Date: **5/2/2017 9:07:55 AM** Prep Date: **5/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00201	0.000200	0.00200	0	101	85	115			

Sample ID **LCSD-80257** Batch ID: **80257** TestNo: **SW7470A** Units: **mg/L**
SampType: **LCSD** Run ID: **CETAC2_HG_170502A** Analysis Date: **5/2/2017 9:10:11 AM** Prep Date: **5/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00202	0.000200	0.00200	0	101	85	115	0.496	15	

Sample ID **1704287-11A SD** Batch ID: **80257** TestNo: **SW7470A** Units: **mg/L**
SampType: **SD** Run ID: **CETAC2_HG_170502A** Analysis Date: **5/2/2017 9:41:58 AM** Prep Date: **5/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.000400	0.00100	0	0				0	10	

Sample ID **1704287-11A PDS** Batch ID: **80257** TestNo: **SW7470A** Units: **mg/L**
SampType: **PDS** Run ID: **CETAC2_HG_170502A** Analysis Date: **5/2/2017 9:44:14 AM** Prep Date: **5/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00216	0.000200	0.00250	0	86.4	85	115			

Sample ID **1704287-11A MS** Batch ID: **80257** TestNo: **SW7470A** Units: **mg/L**
SampType: **MS** Run ID: **CETAC2_HG_170502A** Analysis Date: **5/2/2017 9:46:30 AM** Prep Date: **5/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00173	0.000200	0.00200	0	86.5	80	120			

Sample ID **1704287-11A MSD** Batch ID: **80257** TestNo: **SW7470A** Units: **mg/L**
SampType: **MSD** Run ID: **CETAC2_HG_170502A** Analysis Date: **5/2/2017 9:48:46 AM** Prep Date: **5/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00176	0.000200	0.00200	0	88.0	80	120	1.72	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704287
Project: GLO/City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **CETAC2_HG_170502A**

Sample ID	**ICV-170502**	Batch ID:	**R91747**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**CETAC2_HG_170502A**	Analysis Date:	**5/2/2017 9:01:05 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00395	0.000200	0.00400	0	98.8	90	110			

Sample ID	**CCV1-170502**	Batch ID:	**R91747**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170502A**	Analysis Date:	**5/2/2017 9:35:07 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00198	0.000200	0.00200	0	99.0	90	110			

Sample ID	**CCV2-170502**	Batch ID:	**R91747**	TestNo:	**SW7470A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**CETAC2_HG_170502A**	Analysis Date:	**5/2/2017 10:04:41 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00200	0.000200	0.00200	0	100	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704287
Project: GLO/City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170202B**

Sample ID	**DCS1-78981**	Batch ID:	**78981**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**ICP-MS4_170202B**	Analysis Date:	**2/2/2017 10:23:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.000987	0.00250	0.00100	0	98.7	80	120	0	0	
Beryllium	0.000445	0.00100	0.000500	0	89.0	80	120	0	0	
Cadmium	0.000531	0.00100	0.000500	0	106	80	120	0	0	
Lead	0.000526	0.00100	0.000500	0	105	80	120	0	0	

Sample ID	**DCS2-78981**	Batch ID:	**78981**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**DCS2**	Run ID:	**ICP-MS4_170202B**	Analysis Date:	**2/2/2017 10:25:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.00224	0.00500	0.00200	0	112	80	120	0	0	
Nickel	0.00221	0.0100	0.00200	0	111	80	120	0	0	
Silver	0.00204	0.00200	0.00200	0	102	80	120	0	0	

Sample ID	**DCS3-78981**	Batch ID:	**78981**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**DCS3**	Run ID:	**ICP-MS4_170202B**	Analysis Date:	**2/2/2017 10:27:00 AM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00519	0.00500	0.00500	0	104	80	120	0	0	
Barium	0.00532	0.0100	0.00500	0	106	80	120	0	0	
Selenium	0.00511	0.00500	0.00500	0	102	80	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704287
Project: GLO/City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170504B**

The QC data in batch 80260 applies to the following samples: 1704287-01A, 1704287-02A, 1704287-03A, 1704287-04A, 1704287-05A, 1704287-06A, 1704287-07A, 1704287-08A, 1704287-09A, 1704287-10A, 1704287-11A, 1704287-12A, 1704287-13A

Sample ID **MB-80260** Batch ID: **80260** TestNo: **SW6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS4_170504B** Analysis Date: **5/4/2017 12:58:00 PM** Prep Date: **5/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.000800	0.00250								
Arsenic	<0.00200	0.00500								
Barium	<0.00300	0.0100								
Beryllium	<0.000300	0.00100								
Cadmium	<0.000300	0.00100								
Chromium	<0.00200	0.00500								
Lead	<0.000300	0.00100								
Nickel	<0.00300	0.0100								
Selenium	<0.00200	0.00500								
Silver	<0.00100	0.00200								

Sample ID **LCS-80260** Batch ID: **80260** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS4_170504B** Analysis Date: **5/4/2017 1:00:00 PM** Prep Date: **5/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.200	0.00250	0.200	0	99.8	80	120			
Arsenic	0.200	0.00500	0.200	0	100	80	120			
Barium	0.191	0.0100	0.200	0	95.5	80	120			
Beryllium	0.204	0.00100	0.200	0	102	80	120			
Cadmium	0.189	0.00100	0.200	0	94.3	80	120			
Chromium	0.197	0.00500	0.200	0	98.3	80	120			
Lead	0.194	0.00100	0.200	0	97.1	80	120			
Nickel	0.195	0.0100	0.200	0	97.7	80	120			
Selenium	0.202	0.00500	0.200	0	101	80	120			
Silver	0.186	0.00200	0.200	0	93.1	80	120			

Sample ID **LCSD-80260** Batch ID: **80260** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS4_170504B** Analysis Date: **5/4/2017 1:02:00 PM** Prep Date: **5/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.199	0.00250	0.200	0	99.3	80	120	0.541	15	
Arsenic	0.201	0.00500	0.200	0	100	80	120	0.064	15	
Barium	0.192	0.0100	0.200	0	95.8	80	120	0.259	15	
Beryllium	0.203	0.00100	0.200	0	101	80	120	0.724	15	
Cadmium	0.189	0.00100	0.200	0	94.5	80	120	0.235	15	
Chromium	0.196	0.00500	0.200	0	98.1	80	120	0.261	15	
Lead	0.193	0.00100	0.200	0	96.5	80	120	0.617	15	
Nickel	0.195	0.0100	0.200	0	97.3	80	120	0.400	15	
Selenium	0.202	0.00500	0.200	0	101	80	120	0.103	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704287
Project: GLO/City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170504B**

Sample ID **LCSD-80260** Batch ID: **80260** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS4_170504B** Analysis Date: **5/4/2017 1:02:00 PM** Prep Date: **5/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.186	0.00200	0.200	0	92.8	80	120	0.329	15	

Sample ID **1704287-11A SD** Batch ID: **80260** TestNo: **SW6020A** Units: **mg/L**
SampType: **SD** Run ID: **ICP-MS4_170504B** Analysis Date: **5/4/2017 1:08:00 PM** Prep Date: **5/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.00400	0.0125	0	0				0	10	
Arsenic	<0.0100	0.0250	0	0				0	10	
Beryllium	<0.00150	0.00500	0	0				0	10	
Cadmium	<0.00150	0.00500	0	0				0	10	
Chromium	<0.0100	0.0250	0	0				0	10	
Nickel	<0.0150	0.0500	0	0				0	10	
Selenium	<0.0100	0.0250	0	0				0	10	
Silver	<0.00500	0.0100	0	0				0	10	

Sample ID **1704287-11A PDS** Batch ID: **80260** TestNo: **SW6020A** Units: **mg/L**
SampType: **PDS** Run ID: **ICP-MS4_170504B** Analysis Date: **5/4/2017 1:27:00 PM** Prep Date: **5/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.170	0.00250	0.200	0	84.8	80	120			
Arsenic	0.182	0.00500	0.200	0	90.8	80	120			
Beryllium	0.0982	0.00100	0.200	0	49.1	80	120			S
Cadmium	0.134	0.00100	0.200	0	67.1	80	120			S
Chromium	0.145	0.00500	0.200	0	72.3	80	120			S
Nickel	0.139	0.0100	0.200	0	69.7	80	120			S
Selenium	0.196	0.00500	0.200	0	97.8	80	120			
Silver	0.124	0.00200	0.200	0	61.9	80	120			S

Sample ID **1704287-11A MS** Batch ID: **80260** TestNo: **SW6020A** Units: **mg/L**
SampType: **MS** Run ID: **ICP-MS4_170504B** Analysis Date: **5/4/2017 1:29:00 PM** Prep Date: **5/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.166	0.00250	0.200	0	83.1	80	120			
Arsenic	0.182	0.00500	0.200	0	91.2	80	120			
Barium	0.237	0.0100	0.200	0.0726	82.1	80	120			
Beryllium	0.0901	0.00100	0.200	0	45.0	80	120			S
Cadmium	0.134	0.00100	0.200	0	66.9	80	120			S
Chromium	0.132	0.00500	0.200	0	66.1	80	120			S
Lead	0.209	0.00100	0.200	0.0206	94.1	80	120			
Nickel	0.137	0.0100	0.200	0	68.6	80	120			S
Selenium	0.204	0.00500	0.200	0	102	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704287
Project: GLO/City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170504B**

Sample ID **1704287-11A MS** Batch ID: **80260** TestNo: **SW6020A** Units: **mg/L**
SampType: **MS** Run ID: **ICP-MS4_170504B** Analysis Date: **5/4/2017 1:29:00 PM** Prep Date: **5/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.121	0.00200	0.200	0	60.6	80	120			S

Sample ID **1704287-11A MSD** Batch ID: **80260** TestNo: **SW6020A** Units: **mg/L**
SampType: **MSD** Run ID: **ICP-MS4_170504B** Analysis Date: **5/4/2017 1:31:00 PM** Prep Date: **5/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.164	0.00250	0.200	0	82.1	80	120	1.27	15	
Arsenic	0.184	0.00500	0.200	0	92.0	80	120	0.858	15	
Barium	0.237	0.0100	0.200	0.0726	82.4	80	120	0.237	15	
Beryllium	0.0858	0.00100	0.200	0	42.9	80	120	4.79	15	S
Cadmium	0.135	0.00100	0.200	0	67.3	80	120	0.613	15	S
Chromium	0.132	0.00500	0.200	0	65.9	80	120	0.268	15	S
Lead	0.211	0.00100	0.200	0.0206	95.2	80	120	1.07	15	
Nickel	0.137	0.0100	0.200	0	68.6	80	120	0.048	15	S
Selenium	0.211	0.00500	0.200	0	105	80	120	3.34	15	
Silver	0.119	0.00200	0.200	0	59.6	80	120	1.58	15	S

Sample ID **1704287-11A SD** Batch ID: **80260** TestNo: **SW6020A** Units: **mg/L**
SampType: **SD** Run ID: **ICP-MS4_170504B** Analysis Date: **5/4/2017 5:01:00 PM** Prep Date: **5/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0794	0.250	0	0.0734				7.90	10	
Lead	0.0202	0.0250	0	0.0195				3.51	10	

Sample ID **1704287-11A PDS** Batch ID: **80260** TestNo: **SW6020A** Units: **mg/L**
SampType: **PDS** Run ID: **ICP-MS4_170504B** Analysis Date: **5/4/2017 5:13:00 PM** Prep Date: **5/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.983	0.0500	1.00	0.0734	91.0	80	120			
Lead	0.970	0.00500	1.00	0.0195	95.0	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704287
Project: GLO/City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170504B**

Sample ID **ICV-170504** Batch ID: **R91826** TestNo: **SW6020A** Units: **mg/L**
SampType: **ICV** Run ID: **ICP-MS4_170504B** Analysis Date: **5/4/2017 11:26:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.0993	0.00250	0.100	0	99.3	90	110			
Arsenic	0.101	0.00500	0.100	0	101	90	110			
Barium	0.0955	0.0100	0.100	0	95.5	90	110			
Beryllium	0.105	0.00100	0.100	0	105	90	110			
Cadmium	0.0973	0.00100	0.100	0	97.3	90	110			
Chromium	0.103	0.00500	0.100	0	103	90	110			
Lead	0.0955	0.00100	0.100	0	95.5	90	110			
Nickel	0.102	0.0100	0.100	0	102	90	110			
Selenium	0.0999	0.00500	0.100	0	99.9	90	110			
Silver	0.0988	0.00200	0.100	0	98.8	90	110			

Sample ID **LCVL-170504** Batch ID: **R91826** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170504B** Analysis Date: **5/4/2017 11:27:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00196	0.00250	0.00200	0	98.0	70	130			
Arsenic	0.00504	0.00500	0.00500	0	101	70	130			
Barium	0.00464	0.0100	0.00500	0	92.8	70	130			
Beryllium	0.00118	0.00100	0.00100	0	118	70	130			
Cadmium	0.000987	0.00100	0.00100	0	98.7	70	130			
Chromium	0.00492	0.00500	0.00500	0	98.5	70	130			
Lead	0.000957	0.00100	0.00100	0	95.7	70	130			
Nickel	0.00502	0.0100	0.00500	0	100	70	130			
Selenium	0.00551	0.00500	0.00500	0	110	70	130			
Silver	0.00195	0.00200	0.00200	0	97.5	70	130			

Sample ID **CCV1-170504** Batch ID: **R91826** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_170504B** Analysis Date: **5/4/2017 2:18:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.195	0.00250	0.200	0	97.5	90	110			
Arsenic	0.201	0.00500	0.200	0	100	90	110			
Barium	0.194	0.0100	0.200	0	96.8	90	110			
Beryllium	0.187	0.00100	0.200	0	93.5	90	110			
Cadmium	0.188	0.00100	0.200	0	93.9	90	110			
Chromium	0.194	0.00500	0.200	0	97.2	90	110			
Lead	0.193	0.00100	0.200	0	96.6	90	110			
Nickel	0.192	0.0100	0.200	0	95.9	90	110			
Selenium	0.206	0.00500	0.200	0	103	90	110			
Silver	0.195	0.00200	0.200	0	97.5	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704287
Project: GLO/City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170504B**

Sample ID **LCVL1-170504** Batch ID: **R91826** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170504B** Analysis Date: **5/4/2017 2:24:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00195	0.00250	0.00200	0	97.4	70	130			
Arsenic	0.00501	0.00500	0.00500	0	100	70	130			
Barium	0.00467	0.0100	0.00500	0	93.4	70	130			
Beryllium	0.00102	0.00100	0.00100	0	102	70	130			
Cadmium	0.000919	0.00100	0.00100	0	91.9	70	130			
Chromium	0.00485	0.00500	0.00500	0	97.0	70	130			
Lead	0.000913	0.00100	0.00100	0	91.3	70	130			
Nickel	0.00483	0.0100	0.00500	0	96.5	70	130			
Selenium	0.00534	0.00500	0.00500	0	107	70	130			
Silver	0.00188	0.00200	0.00200	0	94.2	70	130			

Sample ID **CCV2-170504** Batch ID: **R91826** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS4_170504B** Analysis Date: **5/4/2017 3:07:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.198	0.00250	0.200	0	98.8	90	110			
Arsenic	0.202	0.00500	0.200	0	101	90	110			
Barium	0.192	0.0100	0.200	0	96.1	90	110			
Beryllium	0.185	0.00100	0.200	0	92.3	90	110			
Cadmium	0.189	0.00100	0.200	0	94.6	90	110			
Chromium	0.195	0.00500	0.200	0	97.4	90	110			
Lead	0.194	0.00100	0.200	0	97.1	90	110			
Nickel	0.194	0.0100	0.200	0	97.0	90	110			
Selenium	0.209	0.00500	0.200	0	105	90	110			
Silver	0.191	0.00200	0.200	0	95.6	90	110			

Sample ID **LCVL2-170504** Batch ID: **R91826** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS4_170504B** Analysis Date: **5/4/2017 3:13:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00199	0.00250	0.00200	0	99.6	70	130			
Arsenic	0.00504	0.00500	0.00500	0	101	70	130			
Barium	0.00482	0.0100	0.00500	0	96.4	70	130			
Beryllium	0.000968	0.00100	0.00100	0	96.8	70	130			
Cadmium	0.000969	0.00100	0.00100	0	96.9	70	130			
Chromium	0.00485	0.00500	0.00500	0	97.0	70	130			
Lead	0.000931	0.00100	0.00100	0	93.1	70	130			
Nickel	0.00482	0.0100	0.00500	0	96.3	70	130			
Selenium	0.00547	0.00500	0.00500	0	109	70	130			
Silver	0.00189	0.00200	0.00200	0	94.3	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704287
Project: GLO/City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS4_170504B**

Sample ID	**CCV4-170504**	Batch ID:	**R91826**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_170504B**	Analysis Date:	**5/4/2017 4:49:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.193	0.0100	0.200	0	96.6	90	110			
Lead	0.193	0.00100	0.200	0	96.4	90	110			

Sample ID	**LCVL4-170504**	Batch ID:	**R91826**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170504B**	Analysis Date:	**5/4/2017 4:55:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00485	0.0100	0.00500	0	97.0	70	130			
Lead	0.000946	0.00100	0.00100	0	94.6	70	130			

Sample ID	**CCV5-170504**	Batch ID:	**R91826**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS4_170504B**	Analysis Date:	**5/4/2017 5:19:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.189	0.0100	0.200	0	94.7	90	110			
Lead	0.193	0.00100	0.200	0	96.5	90	110			

Sample ID	**LCVL5-170504**	Batch ID:	**R91826**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS4_170504B**	Analysis Date:	**5/4/2017 5:23:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00467	0.0100	0.00500	0	93.3	70	130			
Lead	0.000929	0.00100	0.00100	0	92.9	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704287
Project: GLO/City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170202B**

Sample ID	**DCS3-78981**	Batch ID:	**78981**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**DCS3**	Run ID:	**ICP-MS5_170202B**	Analysis Date:	**2/2/2017 2:57:00 PM**	Prep Date:	**2/1/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00542	0.0100	0.00500	0	108	80	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704287
Project: GLO/City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_170505C**

Sample ID	**ICV-170505**	Batch ID:	**R91843**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**ICV**	Run ID:	**ICP-MS5_170505C**	Analysis Date:	**5/5/2017 11:09:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0938	0.0100	0.100	0	93.8	90	110			

Sample ID	**LCVL-170505**	Batch ID:	**R91843**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS5_170505C**	Analysis Date:	**5/5/2017 11:18:00 AM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00456	0.0100	0.00500	0	91.1	70	130			

Sample ID	**CCV1-170505**	Batch ID:	**R91843**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS5_170505C**	Analysis Date:	**5/5/2017 12:09:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.189	0.0100	0.200	0	94.6	90	110			

Sample ID	**LCVL1-170505**	Batch ID:	**R91843**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS5_170505C**	Analysis Date:	**5/5/2017 12:20:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00465	0.0100	0.00500	0	93.1	70	130			

Sample ID	**CCV2-170505**	Batch ID:	**R91843**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**CCV**	Run ID:	**ICP-MS5_170505C**	Analysis Date:	**5/5/2017 1:48:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.190	0.0100	0.200	0	94.9	90	110			

Sample ID	**LCVL2-170505**	Batch ID:	**R91843**	TestNo:	**SW6020A**	Units:	**mg/L**
SampType:	**LCVL**	Run ID:	**ICP-MS5_170505C**	Analysis Date:	**5/5/2017 1:57:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.00462	0.0100	0.00500	0	92.3	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704287
Project: GLO/City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170404A**

Sample ID	**DCS-79790**	Batch ID:	**79790**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**DCS**	Run ID:	**GCMS6_170404A**	Analysis Date:	**4/4/2017 6:21:00 PM**	Prep Date:	**3/31/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.0000386	0.0000500	0.0000400	0	96.4	20	200	0	0	
Acenaphthylene	0.0000360	0.0000500	0.0000400	0	90.0	20	200	0	0	
Anthracene	0.0000338	0.0000500	0.0000400	0	84.6	20	200	0	0	
Benzo[a]anthracene	0.0000423	0.0000500	0.0000400	0	106	20	200	0	0	
Benzo[a]pyrene	0.0000388	0.0000500	0.0000400	0	97.0	20	200	0	0	
Benzo[b]fluoranthene	0.0000418	0.0000500	0.0000400	0	104	20	200	0	0	
Benzo[g,h,i]perylene	0.0000396	0.0000500	0.0000400	0	99.0	20	200	0	0	
Benzo[k]fluoranthene	0.0000393	0.0000500	0.0000400	0	98.2	20	200	0	0	
Chrysene	0.0000371	0.0000500	0.0000400	0	92.7	20	200	0	0	
Dibenz[a,h]anthracene	0.0000398	0.0000500	0.0000400	0	99.4	20	200	0	0	
Fluoranthene	0.0000406	0.0000500	0.0000400	0	101	20	200	0	0	
Fluorene	0.0000366	0.0000500	0.0000400	0	91.5	20	200	0	0	
Indeno[1,2,3-cd]pyrene	0.0000373	0.0000500	0.0000400	0	93.2	20	200	0	0	
Naphthalene	0.0000409	0.0000500	0.0000400	0	102	20	200	0	0	
Phenanthrene	0.0000395	0.0000500	0.0000400	0	98.8	20	200	0	0	
Pyrene	0.0000389	0.0000500	0.0000400	0	97.3	20	200	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704287
Project: GLO/City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170501A**

The QC data in batch 80248 applies to the following samples: 1704287-01B, 1704287-02B, 1704287-03B, 1704287-04B, 1704287-05B, 1704287-06B, 1704287-07B, 1704287-08B, 1704287-09B, 1704287-10B, 1704287-11B, 1704287-12B, 1704287-13B

Sample ID **LCS-80248** Batch ID: **80248** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS6_170501A** Analysis Date: **5/1/2017 9:29:00 AM** Prep Date: **4/28/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00280	0.0000500	0.00400	0	70.0	47	120			
Acenaphthylene	0.00273	0.0000500	0.00400	0	68.1	50	120			
Anthracene	0.00275	0.0000500	0.00400	0	68.8	54	120			
Benzo[a]anthracene	0.00353	0.0000500	0.00400	0	88.2	56	100			
Benzo[a]pyrene	0.00310	0.0000500	0.00400	0	77.4	53	120			
Benzo[b]fluoranthene	0.00322	0.0000500	0.00400	0	80.6	45	124			
Benzo[g,h,i]perylene	0.00296	0.0000500	0.00400	0	73.9	38	123			
Benzo[k]fluoranthene	0.00315	0.0000500	0.00400	0	78.8	45	124			
Chrysene	0.00311	0.0000500	0.00400	0	77.6	55	120			
Dibenz[a,h]anthracene	0.00310	0.0000500	0.00400	0	77.5	42	127			
Fluoranthene	0.00295	0.0000500	0.00400	0	73.9	54	120			
Fluorene	0.00271	0.0000500	0.00400	0	67.7	50	120			
Indeno[1,2,3-cd]pyrene	0.00321	0.0000500	0.00400	0	80.2	43	125			
Naphthalene	0.00278	0.0000500	0.00400	0	69.4	39	120			
Phenanthrene	0.00293	0.0000500	0.00400	0	73.2	51	120			
Pyrene	0.00286	0.0000500	0.00400	0	71.5	49	128			
Surr: 2-Fluorobiphenyl	5.41		8.000		67.6	48	120			
Surr: 4-Terphenyl-d14	5.55		8.000		69.4	51	135			

Sample ID **MB-80248** Batch ID: **80248** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS6_170501A** Analysis Date: **5/1/2017 10:00:00 AM** Prep Date: **4/28/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.0000250	0.0000500								
Acenaphthylene	<0.0000250	0.0000500								
Anthracene	<0.0000250	0.0000500								
Benzo[a]anthracene	<0.0000250	0.0000500								
Benzo[a]pyrene	<0.0000250	0.0000500								
Benzo[b]fluoranthene	<0.0000250	0.0000500								
Benzo[g,h,i]perylene	<0.0000250	0.0000500								
Benzo[k]fluoranthene	<0.0000250	0.0000500								
Chrysene	<0.0000250	0.0000500								
Dibenz[a,h]anthracene	<0.0000250	0.0000500								
Fluoranthene	<0.0000250	0.0000500								
Fluorene	<0.0000250	0.0000500								
Indeno[1,2,3-cd]pyrene	<0.0000250	0.0000500								
Naphthalene	<0.0000250	0.0000500								
Phenanthrene	<0.0000250	0.0000500								
Pyrene	<0.0000250	0.0000500								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704287
Project: GLO/City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170501A**

Sample ID	**MB-80248**	Batch ID:	**80248**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**MBLK**	Run ID:	**GCMS6_170501A**	Analysis Date:	**5/1/2017 10:00:00 AM**	Prep Date:	**4/28/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	5.52		8.000		69.0	48	120			
Surr: 4-Terphenyl-d14	5.53		8.000		69.1	51	135			

Sample ID	**1704287-11BMSD**	Batch ID:	**80248**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**MSD**	Run ID:	**GCMS6_170501A**	Analysis Date:	**5/1/2017 5:33:00 PM**	Prep Date:	**4/28/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00362	0.0000587	0.00470	0	77.2	47	120	5.76	20	
Acenaphthylene	0.00373	0.0000587	0.00470	0	79.5	50	120	8.63	20	
Anthracene	0.00370	0.0000587	0.00470	0	78.7	54	120	3.86	20	
Benzo[a]anthracene	0.00428	0.0000587	0.00470	0	91.2	56	100	2.68	20	
Benzo[a]pyrene	0.00411	0.0000587	0.00470	0	87.5	53	120	2.21	20	
Benzo[b]fluoranthene	0.00445	0.0000587	0.00470	0	94.7	45	124	1.36	20	
Benzo[g,h,i]perylene	0.00402	0.0000587	0.00470	0	85.7	38	123	4.80	20	
Benzo[k]fluoranthene	0.00423	0.0000587	0.00470	0	90.0	45	124	0.296	20	
Chrysene	0.00406	0.0000587	0.00470	0	86.4	55	120	3.77	20	
Dibenz[a,h]anthracene	0.00410	0.0000587	0.00470	0	87.4	42	127	3.35	20	
Fluoranthene	0.00394	0.0000587	0.00470	0	84.0	54	120	3.78	20	
Fluorene	0.00371	0.0000587	0.00470	0	79.0	50	120	4.96	20	
Indeno[1,2,3-cd]pyrene	0.00419	0.0000587	0.00470	0	89.3	43	125	2.67	20	
Naphthalene	0.00354	0.0000587	0.00470	0	75.3	39	120	15.5	20	
Phenanthrene	0.00404	0.0000587	0.00470	0	86.0	51	120	3.18	20	
Pyrene	0.00382	0.0000587	0.00470	0	81.2	49	128	3.99	20	
Surr: 2-Fluorobiphenyl	7.42		9.394		79.0	48	120	0	0	
Surr: 4-Terphenyl-d14	7.21		9.394		76.8	51	135	0	0	

Sample ID	**1704287-11BMS**	Batch ID:	**80248**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**GCMS6_170501A**	Analysis Date:	**5/1/2017 6:05:00 PM**	Prep Date:	**4/28/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00342	0.0000590	0.00472	0	72.4	47	120			
Acenaphthylene	0.00342	0.0000590	0.00472	0	72.5	50	120			
Anthracene	0.00356	0.0000590	0.00472	0	75.3	54	120			
Benzo[a]anthracene	0.00417	0.0000590	0.00472	0	88.3	56	100			
Benzo[a]pyrene	0.00402	0.0000590	0.00472	0	85.1	53	120			
Benzo[b]fluoranthene	0.00451	0.0000590	0.00472	0	95.4	45	124			
Benzo[g,h,i]perylene	0.00383	0.0000590	0.00472	0	81.2	38	123			
Benzo[k]fluoranthene	0.00424	0.0000590	0.00472	0	89.8	45	124			
Chrysene	0.00391	0.0000590	0.00472	0	82.8	55	120			
Dibenz[a,h]anthracene	0.00397	0.0000590	0.00472	0	84.0	42	127			
Fluoranthene	0.00380	0.0000590	0.00472	0	80.4	54	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704287
Project: GLO/City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170501A**

Sample ID	**1704287-11BMS**	Batch ID:	**80248**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**MS**	Run ID:	**GCMS6_170501A**	Analysis Date:	**5/1/2017 6:05:00 PM**	Prep Date:	**4/28/2017**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	0.00353	0.0000590	0.00472	0	74.8	50	120			
Indeno[1,2,3-cd]pyrene	0.00408	0.0000590	0.00472	0	86.5	43	125			
Naphthalene	0.00303	0.0000590	0.00472	0	64.1	39	120			
Phenanthrene	0.00391	0.0000590	0.00472	0	82.9	51	120			
Pyrene	0.00367	0.0000590	0.00472	0	77.6	49	128			
Surr: 2-Fluorobiphenyl	7.07		9.445		74.9	48	120			
Surr: 4-Terphenyl-d14	6.76		9.445		71.6	51	135			

Sample ID	**SBLK-170502**	Batch ID:	**80248**	TestNo:	**SW8270D-LL**	Units:	**mg/L**
SampType:	**SBLK**	Run ID:	**GCMS6_170501A**	Analysis Date:	**5/2/2017 12:25:00 PM**	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	<0.0000250	0.0000500	0							
Acenaphthylene	<0.0000250	0.0000500	0							
Anthracene	<0.0000250	0.0000500	0							
Benzo[a]anthracene	<0.0000250	0.0000500	0							
Benzo[a]pyrene	<0.0000250	0.0000500	0							
Benzo[b]fluoranthene	<0.0000250	0.0000500	0							
Benzo[g,h,i]perylene	<0.0000250	0.0000500	0							
Benzo[k]fluoranthene	<0.0000250	0.0000500	0							
Chrysene	<0.0000250	0.0000500	0							
Dibenz[a,h]anthracene	<0.0000250	0.0000500	0							
Fluoranthene	<0.0000250	0.0000500	0							
Fluorene	<0.0000250	0.0000500	0							
Indeno[1,2,3-cd]pyrene	<0.0000250	0.0000500	0							
Naphthalene	<0.0000250	0.0000500	0							
Phenanthrene	<0.0000250	0.0000500	0							
Pyrene	<0.0000250	0.0000500	0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: AECOM
Work Order: 1704287
Project: GLO/City of Galveston Incinerator

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS6_170501A**

Sample ID **ICV-170501** Batch ID: **R91741** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **ICV** Run ID: **GCMS6_170501A** Analysis Date: **5/1/2017 8:57:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	2.01	0.0000500	2.00	0	100	80	120			
Acenaphthylene	1.93	0.0000500	2.00	0	96.5	80	120			
Anthracene	1.73	0.0000500	2.00	0	86.5	80	120			
Benzo[a]anthracene	1.97	0.0000500	2.00	0	98.5	80	120			
Benzo[a]pyrene	1.95	0.0000500	2.00	0	97.5	80	120			
Benzo[b]fluoranthene	2.04	0.0000500	2.00	0	102	80	120			
Benzo[g,h,i]perylene	1.84	0.0000500	2.00	0	92.2	80	120			
Benzo[k]fluoranthene	1.95	0.0000500	2.00	0	97.4	80	120			
Chrysene	1.86	0.0000500	2.00	0	93.1	80	120			
Dibenz[a,h]anthracene	1.91	0.0000500	2.00	0	95.5	80	120			
Fluoranthene	1.88	0.0000500	2.00	0	93.9	80	120			
Fluorene	1.89	0.0000500	2.00	0	94.3	80	120			
Indeno[1,2,3-cd]pyrene	1.99	0.0000500	2.00	0	99.3	80	120			
Naphthalene	2.00	0.0000500	2.00	0	99.8	80	120			
Phenanthrene	1.92	0.0000500	2.00	0	96.1	80	120			
Pyrene	1.82	0.0000500	2.00	0	91.1	80	120			
Surr: 2-Fluorobiphenyl	1990		2000		99.3	65	120			
Surr: 4-Terphenyl-d14	1760		2000		88.2	65	120			

Sample ID **ICV-170502** Batch ID: **R91741** TestNo: **SW8270D-LL** Units: **mg/L**
SampType: **ICV** Run ID: **GCMS6_170501A** Analysis Date: **5/2/2017 11:54:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.99	0.0000500	2.00	0	99.4	80	120			
Acenaphthylene	1.92	0.0000500	2.00	0	96.1	80	120			
Anthracene	1.70	0.0000500	2.00	0	84.9	80	120			
Benzo[a]anthracene	1.90	0.0000500	2.00	0	94.9	80	120			
Benzo[a]pyrene	1.92	0.0000500	2.00	0	96.0	80	120			
Benzo[b]fluoranthene	2.14	0.0000500	2.00	0	107	80	120			
Benzo[g,h,i]perylene	1.83	0.0000500	2.00	0	91.5	80	120			
Benzo[k]fluoranthene	1.98	0.0000500	2.00	0	99.1	80	120			
Chrysene	1.80	0.0000500	2.00	0	90.1	80	120			
Dibenz[a,h]anthracene	1.88	0.0000500	2.00	0	93.8	80	120			
Fluoranthene	1.87	0.0000500	2.00	0	93.3	80	120			
Fluorene	1.86	0.0000500	2.00	0	92.9	80	120			
Indeno[1,2,3-cd]pyrene	1.94	0.0000500	2.00	0	97.1	80	120			
Naphthalene	1.96	0.0000500	2.00	0	97.9	80	120			
Phenanthrene	1.92	0.0000500	2.00	0	96.1	80	120			
Pyrene	1.81	0.0000500	2.00	0	90.6	80	120			
Surr: 2-Fluorobiphenyl	1950		2000		97.4	65	120			
Surr: 4-Terphenyl-d14	1770		2000		88.3	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

DHL Analytical, Inc.

Date: *08-May-17*

CLIENT: AECOM
Work Order: 1704287
Project: GLO/City of Galveston Incinerator

MQL SUMMARY REPORT

TestNo: SW6020A	MDL	MQL
Analyte	**mg/L**	**mg/L**
Antimony	0.000800	0.00250
Arsenic	0.00200	0.00500
Barium	0.00300	0.0100
Beryllium	0.000300	0.00100
Cadmium	0.000300	0.00100
Chromium	0.00200	0.00500
Lead	0.000300	0.00100
Nickel	0.00300	0.0100
Selenium	0.00200	0.00500
Silver	0.00100	0.00200

TestNo: SW7470A	MDL	MQL
Analyte	**mg/L**	**mg/L**
Mercury	0.0000800	0.000200

TestNo: SW8270D-LL	MDL	MQL
Analyte	**mg/L**	**mg/L**
Acenaphthene	0.0000250	0.0000500
Acenaphthylene	0.0000250	0.0000500
Anthracene	0.0000250	0.0000500
Benzo[a]anthracene	0.0000250	0.0000500
Benzo[a]pyrene	0.0000250	0.0000500
Benzo[b]fluoranthene	0.0000250	0.0000500
Benzo[g,h,i]perylene	0.0000250	0.0000500
Benzo[k]fluoranthene	0.0000250	0.0000500
Chrysene	0.0000250	0.0000500
Dibenz[a,h]anthracene	0.0000250	0.0000500
Fluoranthene	0.0000250	0.0000500
Fluorene	0.0000250	0.0000500
Indeno[1,2,3-cd]pyrene	0.0000250	0.0000500
Naphthalene	0.0000250	0.0000500
Phenanthrene	0.0000250	0.0000500
Pyrene	0.0000250	0.0000500

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

July 2017

ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

August 02, 2017

Analytical Report for Service Request No: K1707681

Michael Zappa
URS Corporation
19219 Katy Fwy, Suite 100
Houston, TX 77094

RE: City of Galveston

Dear Michael,

Enclosed are the results of the sample(s) submitted to our laboratory July 21, 2017
For your reference, these analyses have been assigned our service request number **K1707681.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3356. You may also contact me via email at Kurt.Clarkson@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Kurt Clarkson
Client Services
Manager

ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

Table of Contents

Acronyms
Qualifiers
State Certifications, Accreditations, And Licenses
Case Narrative
Chain of Custody
Total Solids
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLCMS
Raw Data
- Total Solids
- Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLCMS

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS ENVIRONMENTAL

Client:	AECOM/URS Corporation	**Service Request No.:**	K1707681
Project:	City of Galveston	**Date Received:**	07/21/17
Sample Matrix:	Soil and Water		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Ten samples were received for analysis at ALS Environmental on 07/21/17. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4ºC upon receipt at the laboratory.

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration Verification Exceptions:
The upper control criterion was exceeded for Perfluoroheptane sulfonic acid in Continuing Calibration Verification (CCV) 072417_106. The field samples analyzed in this sequence did not contain the analyte in question. Since the apparent problem indicated a potential high bias, the data quality was not affected. No further corrective action was required.

The control criteria were exceeded for 13C2-6:2 FTS and 13C2-8:2 FTS in Continuing Calibration Verification (CCV) 072617_117 and 072617_129. The associated native analytes were in control, indicating the analysis was in control. No further corrective action was taken.

The upper control criterion was exceeded for 6:2 Fluorotelomer sulfonic acid (6:2 FTS) in Continuing Calibration Verification (CCV) 072817_129. All field and Batch QC samples analyzed in this sequence were re-analyzed in a passing sequence. No further corrective action was required

The upper control criterion was exceeded for Perfluoroheptane sulfonic acid (PFHpS) and 6:2 Fluorotelomer sulfonic acid (6:2 FTS) in Continuing Calibration Verification (CCV) 072817_144. All field and Batch QC samples analyzed in this sequence were re-analyzed in a passing sequence. No further corrective action was required

Surrogate Exceptions:
The upper control criterion was exceeded for 13C2-8:2 FTS in samples PEC-1, and PEC-1 DUP due to suspected matrix interferences. The associated analytes against this isotope were quantitated using the instrument internal standard, due to the enhancement on the isotope. No further corrective action was appropriate.

The upper control criterion was exceeded for 13C2-8:2 FTS in samples EB-1-SOIL-72017, EB-2-WATER-72017, Method Blank KQ1710166-03, and Method Blank KQ1710167-03. No target analytes were detected in the sample that are associated with the associated isotopes. The error associated with an elevated recovery equated to a high bias. Assuming the native analyte performed similar to the labeled analog, the effects on the reported results are minimal. No further corrective action was appropriate

Approved by Kurt Clarkson

The recoveries of 13C3-PFBS in samples MW-10, and MW-10, DUP were outside the control limits listed in the results summary. The limits are default values. Based on the method and historic data, the recoveries observed were in the range expected for this procedure. No further corrective action was taken.

The recoveries of 13C8-FOSA in samples MW-10, DUP were outside the control limits listed in the results summary. The limits are default values. Based on the method and historic data, the recoveries observed were in the range expected for this procedure. No further corrective action was taken.

Lab Control Sample Exceptions:
The lower control criterion was exceeded by 1% for 6:2 Fluorotelomer sulfonic acid (6:2 FTS), and N-Ethyl perfluorooctane sulfonamide (EtFOSA), and Perfluorodecane sulfonic acid (PFDS) in Duplicate Laboratory Control Sample (DLCS) KQ1710166-02. The error associated with reduced recovery equates to a potential slight low bias. The results were flagged to indicate the issue. No further corrective action was taken.

The lower control criterion was exceeded by 1% for 6:2 Fluorotelomer sulfonic acid (6:2 FTS), and N-Ethyl perfluorooctane sulfonamide (EtFOSA), and Perfluorodecane sulfonic acid (PFDS) in Duplicate Laboratory Control Sample (DLCS) KQ1710166-02. The error associated with reduced recovery equates to a potential slight low bias. The results were flagged to indicate the issue. No further corrective action was taken.

The upper control criterion was exceeded for Perfluoroundecanoic acid (PFUnDA) in Laboratory Control Sample (LCS) KQ1710167-01. The analyte in question was not detected in the associated field sample. The error associated with elevated recovery indicated a high bias. The sample data was not significantly affected. No further corrective action was appropriate.

The upper control criterion was exceeded for Perfluorobutanoic acid (PFBA) in Laboratory Control Sample (LCS) KQ1710167-01. The analyte in question was detected in the associated field sample. The error associated with elevated recovery indicated a slight high bias. The results were flagged to indicate the issue. No further corrective action was taken.

Relative Percent Difference Exceptions:
The Relative Percent Difference (RPD) for Perfluorododecanoic acid (PFDoDA), Perfluorohexanoic acid (PFHxA), Perfluorononanoic acid (PFNA), Perfluorooctanoic acid (PFOA), and Perfluorodecanoic acid (PFDA) in the replicate Lab Control Sample (LCS/DLCS) analyses of KQ1710167-01 and KQ1710167-02 was outside control criteria. All spike recoveries in the LCS and DLCS were within acceptance limits, indicating the analytical batch was in control. No further corrective action was appropriate.

The Relative Percent Difference (RPD) for Perfluoroundecanoic acid (PFUnDA) in the replicate Lab Control Sample (LCS/DLCS) analyses of KQ1710167-01 and KQ1710167-02 was outside control criteria. The elevated RPD indicates a higher degree of variability in the QC sample. The data was flagged to indicate the issue. No further corrective action was taken.

No other anomalies associated with the analysis of these samples were observed.

Approved by Kurt Clawson

Chain of Custody

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Environmental

CHAIN OF CUSTODY
81439

001, 002

SR# K1707681
COC Set 1 of 1
COC#

1317 South 13th Ave, Kelso, WA 98626 Phone (360) 577-7222 / 800-695-7222 / FAX (360) 636-1068
www.alsglobal.com

Project Name: CITY OF GALVESTON
Project Number:
Project Manager: DOUG ZARKER
Company: AECOM
Address: 9400 AMBERGLEN BOULEVARD, AUSTIN, TX 78729
Phone #: 512.457.7747
email: DOUG.ZARKER@AECOM.COM
Sampler Signature:
Sampler Printed Name: MIKE ZAPPA

CLIENT SAMPLE ID	LABID	SAMPLING Date Time	Matrix	NUMBER OF CONTAINERS	PFC/537M / PFOA 14D	1 PERFLUORO OCTANOIC ACID	2 PERFLUORO-1-OCTANE	3 SULFONIC ACID	4	5	Remarks
1. PEC-1		7/20/17, 0935	SOIL	1	X	X	X	X			
2. PEC-1 DUP		7/20/17, 0935	SOIL	1	X	X	X	X			
3. PEC-2		7/20/17, 1000	SOIL	1	X	X	X	X			
4. PEC-3		7/20/17, 1030	SOIL	1	X	X	X	X			
5. PEC-4		7/20/17, 1050	SOIL	1	X	X	X	X			
6. EB-1-SOIL-72017		7/20/17, 1115	WATER	1	X	X	X	X			
7. MW-10		7/20/17, 1335	WATER	1	X	X	X	X			
8. MW-10, DUP		7/20/17, 1335	WATER	1	X	X	X	X			
9. EB-2-WATER-72017		7/20/17, 1400	WATER	1	X	X	X	X			
10. LABORATORY DI		7/20/17 1430	WATER	1	X	X	X	X			

Report Requirements

- ___ I. Routine Report: Method Blank, Surrogate, as required
- ✓ II. Report Dup., MS, MSD as required
- ___ III. CLP Like Summary (no raw data)
- ___ IV. Data Validation Report
- ___ V. EDD

Invoice Information

P.O.#
Bill To:

Turnaround Requirements

___ 24 hr. ___ 48 hr.
✓ 5 Day
___ Standard

Requested Report Date

Circle which metals are to be analyzed

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Special Instructions/Comments: ALL SAMPLES ON ICE 7/20-21/17

*Indicate State Hydrocarbon Procedure: AK CA WI Northwest Other_____(Circle One)

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature O.Wrzesinska	Signature	Signature	Signature	Signature
Printed Name MIKE ZAPPA	Printed Name ALS	Printed Name	Printed Name	Printed Name	Printed Name
Firm AECOM	Firm 07/21/17 0930	Firm	Firm	Firm	Firm
Date/Time 7/20/17 1800	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

PC Kurt

Cooler Receipt and Preservation Form

Client Aecom Service Request K17 07681

Received: 07/21/17 Opened: 07/21/17 By: JW Unloaded: 07/21/17 By: JW

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1, front
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
-0.5	-0.4	3.1	3.2	+0.1	360	81439	787244666521	

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Were samples received in good condition (temperature, unbroken)? *Indicate in the table below.* NA Y N
   If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	07/20/17
Sample Matrix:	Soil	**Date Received:**	07/21/17
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
PEC-1	K1707681-001	**74.3**	-	1	07/21/17 12:20	
PEC-1 DUP	K1707681-002	**68.8**	-	1	07/21/17 12:20	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project	City of Galveston	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Replicate Sample Summary
Inorganic Parameters

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
Batch QC	K1707554-001DUP	-	78.7	76.6	77.7	3	20	07/21/17
Batch QC	K1707566-001DUP	-	90.2	90.1	90.2	<1	20	07/21/17

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	07/20/17 09:35
Sample Matrix:	Soil	**Date Received:**	07/21/17 09:30
Sample Name:	PEC-1	**Units:**	ng/g
Lab Code:	K1707681-001	**Basis:**	Dry

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3550B

Analyte Name	Result		MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluorobutanoic acid (PFBA)	ND	U	1.3	1	07/24/17 17:26	7/24/17	
Perfluoropentanoic acid (PFPeA)	ND	U	1.3	1	07/24/17 17:26	7/24/17	
Perfluorobutane sulfonic acid (PFBS)	ND	U	1.3	1	07/24/17 17:26	7/24/17	
Perfluorohexanoic acid (PFHxA)	ND	U	1.3	1	07/24/17 17:26	7/24/17	
Perfluoroheptanoic acid (PFHpA)	ND	U	1.3	1	07/24/17 17:26	7/24/17	
Perfluorohexane sulfonic acid (PFHxS)	**4.6**		1.3	1	07/24/17 17:26	7/24/17	
Perfluorooctanoic acid (PFOA)	ND	U	1.3	1	07/24/17 17:26	7/24/17	
Perfluoroheptane sulfonic acid (PFHpS)	ND	U	1.3	1	07/24/17 17:26	7/24/17	
Perfluorononanoic acid (PFNA)	ND	U	1.3	1	07/24/17 17:26	7/24/17	
Perfluorooctane sulfonic acid (PFOS)	**75**		1.3	1	07/24/17 17:26	7/24/17	
Perfluorodecanoic acid (PFDA)	**2.6**		1.3	1	07/24/17 17:26	7/24/17	
Perfluoroundecanoic acid (PFUnDA)	**18**		1.3	1	07/24/17 17:26	7/24/17	
Perfluorooctane sulfonamide (FOSA)	**4.0**		1.3	1	07/24/17 17:26	7/24/17	
Perfluorododecanoic acid (PFDoDA)	**5.8**		1.3	1	07/24/17 17:26	7/24/17	
Perfluorotridecanoic acid (PFTrDA)	**32**		1.3	1	07/24/17 17:26	7/24/17	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	ND	U	1.3	1	07/24/17 17:26	7/24/17	
N-Methyl perfluorooctane sulfonamidoethanol	ND	U	1.3	1	07/24/17 17:26	7/24/17	
Perfluorotetradecanoic acid (PFTeDA)	**1.9**		1.3	1	07/24/17 17:26	7/24/17	
N-Ethyl perfluorooctane sulfonamidoethanol	ND	U	1.3	1	07/24/17 17:26	7/24/17	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	ND	U	1.3	1	07/24/17 17:26	7/24/17	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	**6.4**		1.3	1	07/24/17 17:26	7/24/17	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND	U	1.3	1	07/24/17 17:26	7/24/17	
Perfluorodecane sulfonic acid (PFDS)	**14**		1.3	1	07/24/17 17:26	7/24/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C4-PFBA	73	50 - 150	07/24/17 17:26	
13C2-PFHxA	80	50 - 150	07/24/17 17:26	
18O2-PFHxS	81	50 - 150	07/24/17 17:26	
13C2-6:2 FTS	97	50 - 150	07/24/17 17:26	
13C4-PFOA	92	50 - 150	07/24/17 17:26	
13C5-PFNA	90	50 - 150	07/24/17 17:26	
13C4-PFOS	76	50 - 150	07/24/17 17:26	
13C2-PFDA	99	50 - 150	07/24/17 17:26	
13C2-PFUnDA	101	50 - 150	07/24/17 17:26	
13C2-PFDoDA	95	50 - 150	07/24/17 17:26	
D7-MeFOSE	74	50 - 150	07/24/17 17:26	
D9-EtFOSE	60	50 - 150	07/24/17 17:26	
D5-EtFOSA	73	50 - 150	07/24/17 17:26	
13C2-8:2 FTS	165	50 - 150	07/24/17 17:26	*

Analytical Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	07/20/17 09:35
Sample Matrix:	Soil	**Date Received:**	07/21/17 09:30
Sample Name:	PEC-1	**Units:**	ng/g
Lab Code:	K1707681-001	**Basis:**	Dry

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3550B

13C2-PFTeDA	76	50 - 150	07/24/17 17:26
13C4-PFHpA	74	50 - 150	07/24/17 17:26
13C5-PFPeA	74	50 - 150	07/24/17 17:26
13C3-PFBS	69	50 - 150	07/24/17 17:26
13C8-FOSA	70	50 - 150	07/24/17 17:26

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	07/20/17 09:35
Sample Matrix:	Soil	**Date Received:**	07/21/17 09:30
Sample Name:	PEC-1 DUP	**Units:**	ng/g
Lab Code:	K1707681-002	**Basis:**	Dry

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3550B

Analyte Name	Result		MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluorobutanoic acid (PFBA)	ND	U	1.3	1	07/24/17 17:37	7/24/17	
Perfluoropentanoic acid (PFPeA)	ND	U	1.3	1	07/24/17 17:37	7/24/17	
Perfluorobutane sulfonic acid (PFBS)	ND	U	1.3	1	07/24/17 17:37	7/24/17	
Perfluorohexanoic acid (PFHxA)	ND	U	1.3	1	07/24/17 17:37	7/24/17	
Perfluoroheptanoic acid (PFHpA)	ND	U	1.3	1	07/24/17 17:37	7/24/17	
Perfluorohexane sulfonic acid (PFHxS)	**6.9**		1.3	1	07/24/17 17:37	7/24/17	
Perfluorooctanoic acid (PFOA)	ND	U	1.3	1	07/24/17 17:37	7/24/17	
Perfluoroheptane sulfonic acid (PFHpS)	ND	U	1.3	1	07/24/17 17:37	7/24/17	
Perfluorononanoic acid (PFNA)	ND	U	1.3	1	07/24/17 17:37	7/24/17	
Perfluorooctane sulfonic acid (PFOS)	**110**		1.3	1	07/24/17 17:37	7/24/17	
Perfluorodecanoic acid (PFDA)	**2.6**		1.3	1	07/24/17 17:37	7/24/17	
Perfluoroundecanoic acid (PFUnDA)	**16**		1.3	1	07/24/17 17:37	7/24/17	
Perfluorooctane sulfonamide (FOSA)	**3.7**		1.3	1	07/24/17 17:37	7/24/17	
Perfluorododecanoic acid (PFDoDA)	**7.5**		1.3	1	07/24/17 17:37	7/24/17	
Perfluorotridecanoic acid (PFTrDA)	**47**		1.3	1	07/24/17 17:37	7/24/17	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	ND	U	1.3	1	07/24/17 17:37	7/24/17	
N-Methyl perfluorooctane sulfonamidoethanol	ND	U	1.3	1	07/24/17 17:37	7/24/17	
Perfluorotetradecanoic acid (PFTeDA)	**2.1**		1.3	1	07/24/17 17:37	7/24/17	
N-Ethyl perfluorooctane sulfonamidoethanol	ND	U	1.3	1	07/24/17 17:37	7/24/17	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	ND	U	1.3	1	07/24/17 17:37	7/24/17	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	**9.1**		1.3	1	07/24/17 17:37	7/24/17	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND	U	1.3	1	07/24/17 17:37	7/24/17	
Perfluorodecane sulfonic acid (PFDS)	**15**		1.3	1	07/24/17 17:37	7/24/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C4-PFBA	75	50 - 150	07/24/17 17:37	
13C2-PFHxA	89	50 - 150	07/24/17 17:37	
18O2-PFHxS	69	50 - 150	07/24/17 17:37	
13C2-6:2 FTS	131	50 - 150	07/24/17 17:37	
13C4-PFOA	93	50 - 150	07/24/17 17:37	
13C5-PFNA	89	50 - 150	07/24/17 17:37	
13C4-PFOS	78	50 - 150	07/24/17 17:37	
13C2-PFDA	104	50 - 150	07/24/17 17:37	
13C2-PFUnDA	101	50 - 150	07/24/17 17:37	
13C2-PFDoDA	94	50 - 150	07/24/17 17:37	
D7-MeFOSE	70	50 - 150	07/24/17 17:37	
D9-EtFOSE	54	50 - 150	07/24/17 17:37	
D5-EtFOSA	70	50 - 150	07/24/17 17:37	
13C2-8:2 FTS	205	50 - 150	07/24/17 17:37	*

Analytical Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	07/20/17 09:35
Sample Matrix:	Soil	**Date Received:**	07/21/17 09:30
Sample Name:	PEC-1 DUP	**Units:**	ng/g
Lab Code:	K1707681-002	**Basis:**	Dry

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3550B

13C2-PFTeDA	72	50 - 150	07/24/17 17:37
13C4-PFHpA	70	50 - 150	07/24/17 17:37
13C5-PFPeA	73	50 - 150	07/24/17 17:37
13C3-PFBS	73	50 - 150	07/24/17 17:37
13C8-FOSA	67	50 - 150	07/24/17 17:37

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	07/20/17 11:15
Sample Matrix:	Water	**Date Received:**	07/21/17 09:30
Sample Name:	EB-1-SOIL-72017	**Units:**	ng/L
Lab Code:	K1707681-006	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluorobutanoic acid (PFBA)	ND U	8.1	1	07/26/17 12:53	7/25/17	
Perfluoropentanoic acid (PFPeA)	ND U	4.1	1	07/26/17 12:53	7/25/17	
Perfluorobutane sulfonic acid (PFBS)	ND U	4.1	1	07/26/17 12:53	7/25/17	
Perfluorohexanoic acid (PFHxA)	ND U	5.0	1	07/26/17 12:53	7/25/17	
Perfluoroheptanoic acid (PFHpA)	ND U	4.1	1	07/26/17 12:53	7/25/17	
Perfluorohexane sulfonic acid (PFHxS)	ND U	4.1	1	07/26/17 12:53	7/25/17	
Perfluorooctanoic acid (PFOA)	ND U	1.6	1	07/26/17 12:53	7/25/17	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	4.1	1	07/26/17 12:53	7/25/17	
Perfluorononanoic acid (PFNA)	ND U	4.1	1	07/26/17 12:53	7/25/17	
Perfluorooctane sulfonic acid (PFOS)	ND U	4.1	1	07/26/17 12:53	7/25/17	
Perfluorodecanoic acid (PFDA)	ND U	4.1	1	07/26/17 12:53	7/25/17	
Perfluoroundecanoic acid (PFUnDA)	ND U	4.1	1	07/26/17 12:53	7/25/17	
Perfluorooctane sulfonamide (FOSA)	ND U	4.1	1	07/26/17 12:53	7/25/17	
Perfluorododecanoic acid (PFDoDA)	ND U	4.1	1	07/26/17 12:53	7/25/17	
Perfluorotridecanoic acid (PFTrDA)	ND U	4.1	1	07/26/17 12:53	7/25/17	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	ND U	4.1	1	07/26/17 12:53	7/25/17	
N-Methyl perfluorooctane sulfonamidoethanol	ND U	4.1	1	07/26/17 12:53	7/25/17	
Perfluorotetradecanoic acid (PFTeDA)	ND U	4.1	1	07/26/17 12:53	7/25/17	
N-Ethyl perfluorooctane sulfonamidoethanol	ND U	4.1	1	07/26/17 12:53	7/25/17	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	ND U	4.1	1	07/26/17 12:53	7/25/17	*
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	4.1	1	07/26/17 12:53	7/25/17	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	4.1	1	07/26/17 12:53	7/25/17	*
Perfluorodecane sulfonic acid (PFDS)	ND U	4.1	1	07/26/17 12:53	7/25/17	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C4-PFBA	109	19 - 126	07/26/17 12:53	
13C2-PFHxA	113	10 - 151	07/26/17 12:53	
18O2-PFHxS	86	20 - 128	07/26/17 12:53	
13C2-6:2 FTS	140	10 - 187	07/26/17 12:53	
13C4-PFOA	105	13 - 142	07/26/17 12:53	
13C5-PFNA	101	15 - 143	07/26/17 12:53	
13C4-PFOS	91	11 - 131	07/26/17 12:53	
13C2-PFDA	104	25 - 129	07/26/17 12:53	
13C2-PFUnDA	100	16 - 129	07/26/17 12:53	
13C2-PFDoDA	96	17 - 114	07/26/17 12:53	
D7-MeFOSE	72	32 - 113	07/26/17 12:53	
D9-EtFOSE	62	20 - 113	07/26/17 12:53	
D5-EtFOSA	71	19 - 103	07/26/17 12:53	
13C2-8:2 FTS	165	50 - 150	07/26/17 12:53	*

Analytical Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	07/20/17 11:15
Sample Matrix:	Water	**Date Received:**	07/21/17 09:30
Sample Name:	EB-1-SOIL-72017	**Units:**	ng/L
Lab Code:	K1707681-006	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

13C2-PFTeDA	84	50 - 150	07/26/17 12:53
13C4-PFHpA	97	50 - 150	07/26/17 12:53
13C5-PFPeA	100	50 - 150	07/26/17 12:53
13C3-PFBS	71	50 - 150	07/26/17 12:53
13C8-FOSA	83	50 - 150	07/26/17 12:53

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	07/20/17 13:35
Sample Matrix:	Water	**Date Received:**	07/21/17 09:30
Sample Name:	MW-10	**Units:**	ng/L
Lab Code:	K1707681-007	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluorobutanoic acid (PFBA)	**90**	8.1	1	07/26/17 13:04	7/25/17	
Perfluoropentanoic acid (PFPeA)	**180**	4.1	1	07/26/17 13:04	7/25/17	
Perfluorobutane sulfonic acid (PFBS)	**820**	4.1	1	07/26/17 13:04	7/25/17	
Perfluorohexanoic acid (PFHxA)	**600**	5.0	1	07/26/17 13:04	7/25/17	
Perfluoroheptanoic acid (PFHpA)	**190**	4.1	1	07/26/17 13:04	7/25/17	
Perfluorohexane sulfonic acid (PFHxS)	**1600**	200	50	07/27/17 13:37	7/25/17	
Perfluorooctanoic acid (PFOA)	**120**	1.6	1	07/26/17 13:04	7/25/17	
Perfluoroheptane sulfonic acid (PFHpS)	**81**	4.1	1	07/26/17 13:04	7/25/17	
Perfluorononanoic acid (PFNA)	**76**	4.1	1	07/26/17 13:04	7/25/17	
Perfluorooctane sulfonic acid (PFOS)	**510**	4.1	1	07/26/17 13:04	7/25/17	
Perfluorodecanoic acid (PFDA)	ND U	4.1	1	07/26/17 13:04	7/25/17	
Perfluoroundecanoic acid (PFUnDA)	ND U	4.1	1	07/26/17 13:04	7/25/17	
Perfluorooctane sulfonamide (FOSA)	ND U	4.1	1	07/26/17 13:04	7/25/17	
Perfluorododecanoic acid (PFDoDA)	ND U	4.1	1	07/26/17 13:04	7/25/17	
Perfluorotridecanoic acid (PFTrDA)	ND U	4.1	1	07/26/17 13:04	7/25/17	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	ND U	4.1	1	07/26/17 13:04	7/25/17	
N-Methyl perfluorooctane sulfonamidoethanol	ND U	4.1	1	07/26/17 13:04	7/25/17	
Perfluorotetradecanoic acid (PFTeDA)	ND U	4.1	1	07/26/17 13:04	7/25/17	
N-Ethyl perfluorooctane sulfonamidoethanol	ND U	4.1	1	07/26/17 13:04	7/25/17	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	ND U	4.1	1	07/26/17 13:04	7/25/17	*
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	**4.5**	4.1	1	07/27/17 13:48	7/25/17	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	**26**	4.1	1	07/27/17 13:48	7/25/17	*
Perfluorodecane sulfonic acid (PFDS)	ND U	4.1	1	07/26/17 13:04	7/25/17	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C4-PFBA	76	19 - 126	07/26/17 13:04	
13C2-PFHxA	68	10 - 151	07/26/17 13:04	
18O2-PFHxS	93	20 - 128	07/27/17 13:37	
13C2-6:2 FTS	103	10 - 187	07/27/17 13:48	
13C4-PFOA	94	13 - 142	07/26/17 13:04	
13C5-PFNA	88	15 - 143	07/26/17 13:04	
13C4-PFOS	81	11 - 131	07/26/17 13:04	
13C2-PFDA	99	25 - 129	07/26/17 13:04	
13C2-PFUnDA	91	16 - 129	07/26/17 13:04	
13C2-PFDoDA	78	17 - 114	07/26/17 13:04	
D7-MeFOSE	52	32 - 113	07/26/17 13:04	
D9-EtFOSE	52	20 - 113	07/26/17 13:04	
D5-EtFOSA	61	19 - 103	07/26/17 13:04	
13C2-8:2 FTS	97	50 - 150	07/27/17 13:48	

Analytical Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	07/20/17 13:35
Sample Matrix:	Water	**Date Received:**	07/21/17 09:30
Sample Name:	MW-10	**Units:**	ng/L
Lab Code:	K1707681-007	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

13C2-PFTeDA	60	50 - 150	07/26/17 13:04	
13C4-PFHpA	58	50 - 150	07/26/17 13:04	
13C5-PFPeA	71	50 - 150	07/26/17 13:04	
13C3-PFBS	47	50 - 150	07/26/17 13:04	*
13C8-FOSA	58	50 - 150	07/26/17 13:04	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	07/20/17 13:35
Sample Matrix:	Water	**Date Received:**	07/21/17 09:30
Sample Name:	MW-10, DUP	**Units:**	ng/L
Lab Code:	K1707681-008	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluorobutanoic acid (PFBA)	**110**	8.5	1	07/26/17 18:07	7/25/17	*
Perfluoropentanoic acid (PFPeA)	**210**	4.2	1	07/26/17 18:07	7/25/17	
Perfluorobutane sulfonic acid (PFBS)	**1000**	4.2	1	07/26/17 18:07	7/25/17	
Perfluorohexanoic acid (PFHxA)	**630**	5.0	1	07/26/17 18:07	7/25/17	*
Perfluoroheptanoic acid (PFHpA)	**220**	4.2	1	07/26/17 18:07	7/25/17	
Perfluorohexane sulfonic acid (PFHxS)	**1900**	85	20	07/28/17 15:47	7/25/17	
Perfluorooctanoic acid (PFOA)	**150**	1.7	1	07/26/17 18:07	7/25/17	*
Perfluoroheptane sulfonic acid (PFHpS)	**90**	4.2	1	07/26/17 18:07	7/25/17	
Perfluorononanoic acid (PFNA)	**110**	4.2	1	07/26/17 18:07	7/25/17	*
Perfluorooctane sulfonic acid (PFOS)	**610**	4.2	1	07/26/17 18:07	7/25/17	
Perfluorodecanoic acid (PFDA)	ND U	4.2	1	07/26/17 18:07	7/25/17	*
Perfluoroundecanoic acid (PFUnDA)	ND U	4.2	1	07/26/17 18:07	7/25/17	*
Perfluorooctane sulfonamide (FOSA)	ND U	4.2	1	07/26/17 18:07	7/25/17	
Perfluorododecanoic acid (PFDoDA)	ND U	4.2	1	07/26/17 18:07	7/25/17	*
Perfluorotridecanoic acid (PFTrDA)	ND U	4.2	1	07/26/17 18:07	7/25/17	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	ND U	4.2	1	07/26/17 18:07	7/25/17	
N-Methyl perfluorooctane sulfonamidoethanol	ND U	4.2	1	07/26/17 18:07	7/25/17	
Perfluorotetradecanoic acid (PFTeDA)	ND U	4.2	1	07/26/17 18:07	7/25/17	
N-Ethyl perfluorooctane sulfonamidoethanol	ND U	4.2	1	07/26/17 18:07	7/25/17	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	ND U	4.2	1	07/26/17 18:07	7/25/17	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	**5.6**	4.2	1	07/26/17 18:07	7/25/17	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	**32**	4.2	1	07/26/17 18:07	7/25/17	
Perfluorodecane sulfonic acid (PFDS)	ND U	4.2	1	07/26/17 18:07	7/25/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C4-PFBA	86	19 - 126	07/26/17 18:07	
13C2-PFHxA	60	10 - 151	07/26/17 18:07	
18O2-PFHxS	88	20 - 128	07/28/17 15:47	
13C2-6:2 FTS	158	10 - 187	07/26/17 18:07	
13C4-PFOA	81	13 - 142	07/26/17 18:07	
13C5-PFNA	72	15 - 143	07/26/17 18:07	
13C4-PFOS	73	11 - 131	07/26/17 18:07	
13C2-PFDA	81	25 - 129	07/26/17 18:07	
13C2-PFUnDA	69	16 - 129	07/26/17 18:07	
13C2-PFDoDA	67	17 - 114	07/26/17 18:07	
D7-MeFOSE	45	32 - 113	07/26/17 18:07	
D9-EtFOSE	44	20 - 113	07/26/17 18:07	
D5-EtFOSA	44	19 - 103	07/26/17 18:07	
13C2-8:2 FTS	137	50 - 150	07/26/17 18:07	

Analytical Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	07/20/17 13:35
Sample Matrix:	Water	**Date Received:**	07/21/17 09:30
Sample Name:	MW-10, DUP	**Units:**	ng/L
Lab Code:	K1707681-008	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

13C2-PFTeDA	57	50 - 150	07/26/17 18:07	
13C4-PFHpA	50	50 - 150	07/26/17 18:07	
13C5-PFPeA	70	50 - 150	07/26/17 18:07	
13C3-PFBS	39	50 - 150	07/26/17 18:07	*
13C8-FOSA	45	50 - 150	07/26/17 18:07	*

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	07/20/17 14:00
Sample Matrix:	Water	**Date Received:**	07/21/17 09:30
Sample Name:	EB-2-WATER-72017	**Units:**	ng/L
Lab Code:	K1707681-009	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluorobutanoic acid (PFBA)	ND U	8.1	1	07/26/17 13:14	7/25/17	
Perfluoropentanoic acid (PFPeA)	ND U	4.1	1	07/26/17 13:14	7/25/17	
Perfluorobutane sulfonic acid (PFBS)	ND U	4.1	1	07/26/17 13:14	7/25/17	
Perfluorohexanoic acid (PFHxA)	ND U	5.0	1	07/26/17 13:14	7/25/17	
Perfluoroheptanoic acid (PFHpA)	ND U	4.1	1	07/26/17 13:14	7/25/17	
Perfluorohexane sulfonic acid (PFHxS)	ND U	4.1	1	07/26/17 13:14	7/25/17	
Perfluorooctanoic acid (PFOA)	ND U	1.6	1	07/26/17 13:14	7/25/17	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	4.1	1	07/26/17 13:14	7/25/17	
Perfluorononanoic acid (PFNA)	ND U	4.1	1	07/26/17 13:14	7/25/17	
Perfluorooctane sulfonic acid (PFOS)	ND U	4.1	1	07/26/17 13:14	7/25/17	
Perfluorodecanoic acid (PFDA)	ND U	4.1	1	07/26/17 13:14	7/25/17	
Perfluoroundecanoic acid (PFUnDA)	ND U	4.1	1	07/26/17 13:14	7/25/17	
Perfluorooctane sulfonamide (FOSA)	ND U	4.1	1	07/26/17 13:14	7/25/17	
Perfluorododecanoic acid (PFDoDA)	ND U	4.1	1	07/26/17 13:14	7/25/17	
Perfluorotridecanoic acid (PFTrDA)	ND U	4.1	1	07/26/17 13:14	7/25/17	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	ND U	4.1	1	07/26/17 13:14	7/25/17	
N-Methyl perfluorooctane sulfonamidoethanol	ND U	4.1	1	07/26/17 13:14	7/25/17	
Perfluorotetradecanoic acid (PFTeDA)	ND U	4.1	1	07/26/17 13:14	7/25/17	
N-Ethyl perfluorooctane sulfonamidoethanol	ND U	4.1	1	07/26/17 13:14	7/25/17	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	ND U	4.1	1	07/26/17 13:14	7/25/17	*
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	4.1	1	07/26/17 13:14	7/25/17	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	4.1	1	07/26/17 13:14	7/25/17	*
Perfluorodecane sulfonic acid (PFDS)	ND U	4.1	1	07/26/17 13:14	7/25/17	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C4-PFBA	124	19 - 126	07/26/17 13:14	
13C2-PFHxA	114	10 - 151	07/26/17 13:14	
18O2-PFHxS	101	20 - 128	07/26/17 13:14	
13C2-6:2 FTS	169	10 - 187	07/26/17 13:14	
13C4-PFOA	121	13 - 142	07/26/17 13:14	
13C5-PFNA	101	15 - 143	07/26/17 13:14	
13C4-PFOS	96	11 - 131	07/26/17 13:14	
13C2-PFDA	107	25 - 129	07/26/17 13:14	
13C2-PFUnDA	98	16 - 129	07/26/17 13:14	
13C2-PFDoDA	95	17 - 114	07/26/17 13:14	
D7-MeFOSE	75	32 - 113	07/26/17 13:14	
D9-EtFOSE	62	20 - 113	07/26/17 13:14	
D5-EtFOSA	76	19 - 103	07/26/17 13:14	
13C2-8:2 FTS	166	50 - 150	07/26/17 13:14	*

Analytical Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	07/20/17 14:00
Sample Matrix:	Water	**Date Received:**	07/21/17 09:30
Sample Name:	EB-2-WATER-72017	**Units:**	ng/L
Lab Code:	K1707681-009	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

13C2-PFTeDA	82	50 - 150	07/26/17 13:14
13C4-PFHpA	102	50 - 150	07/26/17 13:14
13C5-PFPeA	106	50 - 150	07/26/17 13:14
13C3-PFBS	76	50 - 150	07/26/17 13:14
13C8-FOSA	76	50 - 150	07/26/17 13:14

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/g
Lab Code:	KQ1709896-04	**Basis:**	Dry

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3550B

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluorobutanoic acid (PFBA)	ND U	1.0	1	07/24/17 16:03	7/24/17	
Perfluoropentanoic acid (PFPeA)	ND U	1.0	1	07/24/17 16:03	7/24/17	
Perfluorobutane sulfonic acid (PFBS)	ND U	1.0	1	07/24/17 16:03	7/24/17	
Perfluorohexanoic acid (PFHxA)	ND U	1.0	1	07/24/17 16:03	7/24/17	
Perfluoroheptanoic acid (PFHpA)	ND U	1.0	1	07/24/17 16:03	7/24/17	
Perfluorohexane sulfonic acid (PFHxS)	ND U	1.0	1	07/24/17 16:03	7/24/17	
Perfluorooctanoic acid (PFOA)	ND U	1.0	1	07/24/17 16:03	7/24/17	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	1.0	1	07/24/17 16:03	7/24/17	
Perfluorononanoic acid (PFNA)	ND U	1.0	1	07/24/17 16:03	7/24/17	
Perfluorooctane sulfonic acid (PFOS)	ND U	1.0	1	07/24/17 16:03	7/24/17	
Perfluorodecanoic acid (PFDA)	ND U	1.0	1	07/24/17 16:03	7/24/17	
Perfluoroundecanoic acid (PFUnDA)	ND U	1.0	1	07/24/17 16:03	7/24/17	
Perfluorooctane sulfonamide (FOSA)	ND U	1.0	1	07/24/17 16:03	7/24/17	
Perfluorododecanoic acid (PFDoDA)	ND U	1.0	1	07/24/17 16:03	7/24/17	
Perfluorotridecanoic acid (PFTrDA)	ND U	1.0	1	07/24/17 16:03	7/24/17	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	ND U	1.0	1	07/24/17 16:03	7/24/17	
N-Methyl perfluorooctane sulfonamidoethanol	ND U	1.0	1	07/24/17 16:03	7/24/17	
Perfluorotetradecanoic acid (PFTeDA)	ND U	1.0	1	07/24/17 16:03	7/24/17	
N-Ethyl perfluorooctane sulfonamidoethanol	ND U	1.0	1	07/24/17 16:03	7/24/17	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	ND U	1.0	1	07/24/17 16:03	7/24/17	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	1.0	1	07/24/17 16:03	7/24/17	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	1.0	1	07/24/17 16:03	7/24/17	
Perfluorodecane sulfonic acid (PFDS)	ND U	1.0	1	07/24/17 16:03	7/24/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C4-PFBA	75	50 - 150	07/24/17 16:03	
13C2-PFHxA	89	50 - 150	07/24/17 16:03	
18O2-PFHxS	70	50 - 150	07/24/17 16:03	
13C2-6:2 FTS	70	50 - 150	07/24/17 16:03	
13C4-PFOA	86	50 - 150	07/24/17 16:03	
13C5-PFNA	81	50 - 150	07/24/17 16:03	
13C4-PFOS	79	50 - 150	07/24/17 16:03	
13C2-PFDA	93	50 - 150	07/24/17 16:03	
13C2-PFUnDA	99	50 - 150	07/24/17 16:03	
13C2-PFDoDA	96	50 - 150	07/24/17 16:03	
D7-MeFOSE	81	50 - 150	07/24/17 16:03	
D9-EtFOSE	70	50 - 150	07/24/17 16:03	
D5-EtFOSA	76	50 - 150	07/24/17 16:03	
13C2-8:2 FTS	91	50 - 150	07/24/17 16:03	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/g
Lab Code:	KQ1709896-04	**Basis:**	Dry

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3550B

13C2-PFTeDA	76	50 - 150	07/24/17 16:03
13C4-PFHpA	70	50 - 150	07/24/17 16:03
13C5-PFPeA	75	50 - 150	07/24/17 16:03
13C3-PFBS	77	50 - 150	07/24/17 16:03
13C8-FOSA	73	50 - 150	07/24/17 16:03

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KQ1710166-03	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluorobutanoic acid (PFBA)	ND U	9.6	1	07/26/17 12:22	7/25/17	
Perfluoropentanoic acid (PFPeA)	ND U	4.8	1	07/26/17 12:22	7/25/17	
Perfluorobutane sulfonic acid (PFBS)	ND U	4.8	1	07/26/17 12:22	7/25/17	
Perfluorohexanoic acid (PFHxA)	ND U	5.0	1	07/26/17 12:22	7/25/17	
Perfluoroheptanoic acid (PFHpA)	ND U	4.8	1	07/26/17 12:22	7/25/17	
Perfluorohexane sulfonic acid (PFHxS)	ND U	4.8	1	07/26/17 12:22	7/25/17	
Perfluorooctanoic acid (PFOA)	ND U	1.9	1	07/26/17 12:22	7/25/17	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	4.8	1	07/26/17 12:22	7/25/17	
Perfluorononanoic acid (PFNA)	ND U	4.8	1	07/26/17 12:22	7/25/17	
Perfluorooctane sulfonic acid (PFOS)	ND U	4.8	1	07/26/17 12:22	7/25/17	
Perfluorodecanoic acid (PFDA)	ND U	4.8	1	07/26/17 12:22	7/25/17	
Perfluoroundecanoic acid (PFUnDA)	ND U	4.8	1	07/26/17 12:22	7/25/17	
Perfluorooctane sulfonamide (FOSA)	ND U	4.8	1	07/26/17 12:22	7/25/17	
Perfluorododecanoic acid (PFDoDA)	ND U	4.8	1	07/26/17 12:22	7/25/17	
Perfluorotridecanoic acid (PFTrDA)	ND U	4.8	1	07/26/17 12:22	7/25/17	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	ND U	4.8	1	07/26/17 12:22	7/25/17	
N-Methyl perfluorooctane sulfonamidoethanol	ND U	4.8	1	07/26/17 12:22	7/25/17	
Perfluorotetradecanoic acid (PFTeDA)	ND U	4.8	1	07/26/17 12:22	7/25/17	
N-Ethyl perfluorooctane sulfonamidoethanol	ND U	4.8	1	07/26/17 12:22	7/25/17	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	ND U	4.8	1	07/26/17 12:22	7/25/17	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	4.8	1	07/26/17 12:22	7/25/17	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	4.8	1	07/26/17 12:22	7/25/17	
Perfluorodecane sulfonic acid (PFDS)	ND U	4.8	1	07/26/17 12:22	7/25/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C4-PFBA	110	19 - 126	07/26/17 12:22	
13C2-PFHxA	111	10 - 151	07/26/17 12:22	
18O2-PFHxS	86	20 - 128	07/26/17 12:22	
13C2-6:2 FTS	145	10 - 187	07/26/17 12:22	
13C4-PFOA	104	13 - 142	07/26/17 12:22	
13C5-PFNA	96	15 - 143	07/26/17 12:22	
13C4-PFOS	88	11 - 131	07/26/17 12:22	
13C2-PFDA	108	25 - 129	07/26/17 12:22	
13C2-PFUnDA	99	16 - 129	07/26/17 12:22	
13C2-PFDoDA	96	17 - 114	07/26/17 12:22	
D7-MeFOSE	71	32 - 113	07/26/17 12:22	
D9-EtFOSE	62	20 - 113	07/26/17 12:22	
D5-EtFOSA	68	19 - 103	07/26/17 12:22	
13C2-8:2 FTS	161	50 - 150	07/26/17 12:22	*

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KQ1710166-03	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

13C2-PFTeDA	87	50 - 150	07/26/17 12:22
13C4-PFHpA	91	50 - 150	07/26/17 12:22
13C5-PFPeA	98	50 - 150	07/26/17 12:22
13C3-PFBS	72	50 - 150	07/26/17 12:22
13C8-FOSA	81	50 - 150	07/26/17 12:22

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KQ1710167-03	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluorobutanoic acid (PFBA)	ND U	10	1	07/26/17 14:27	7/25/17	
Perfluoropentanoic acid (PFPeA)	ND U	5.0	1	07/26/17 14:27	7/25/17	
Perfluorobutane sulfonic acid (PFBS)	ND U	5.0	1	07/26/17 14:27	7/25/17	
Perfluorohexanoic acid (PFHxA)	ND U	5.0	1	07/26/17 14:27	7/25/17	
Perfluoroheptanoic acid (PFHpA)	ND U	5.0	1	07/26/17 14:27	7/25/17	
Perfluorohexane sulfonic acid (PFHxS)	ND U	5.0	1	07/26/17 14:27	7/25/17	
Perfluorooctanoic acid (PFOA)	ND U	2.0	1	07/26/17 14:27	7/25/17	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	5.0	1	07/26/17 14:27	7/25/17	
Perfluorononanoic acid (PFNA)	ND U	5.0	1	07/26/17 14:27	7/25/17	
Perfluorooctane sulfonic acid (PFOS)	ND U	5.0	1	07/26/17 14:27	7/25/17	
Perfluorodecanoic acid (PFDA)	ND U	5.0	1	07/26/17 14:27	7/25/17	
Perfluoroundecanoic acid (PFUnDA)	ND U	5.0	1	07/26/17 14:27	7/25/17	
Perfluorooctane sulfonamide (FOSA)	ND U	5.0	1	07/26/17 14:27	7/25/17	
Perfluorododecanoic acid (PFDoDA)	ND U	5.0	1	07/26/17 14:27	7/25/17	
Perfluorotridecanoic acid (PFTrDA)	ND U	5.0	1	07/26/17 14:27	7/25/17	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	ND U	5.0	1	07/26/17 14:27	7/25/17	
N-Methyl perfluorooctane sulfonamidoethanol	ND U	5.0	1	07/26/17 14:27	7/25/17	
Perfluorotetradecanoic acid (PFTeDA)	ND U	5.0	1	07/26/17 14:27	7/25/17	
N-Ethyl perfluorooctane sulfonamidoethanol	ND U	5.0	1	07/26/17 14:27	7/25/17	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	ND U	5.0	1	07/26/17 14:27	7/25/17	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	5.0	1	07/26/17 14:27	7/25/17	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	5.0	1	07/26/17 14:27	7/25/17	
Perfluorodecane sulfonic acid (PFDS)	ND U	5.0	1	07/26/17 14:27	7/25/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C4-PFBA	114	19 - 126	07/26/17 14:27	
13C2-PFHxA	116	10 - 151	07/26/17 14:27	
18O2-PFHxS	88	20 - 128	07/26/17 14:27	
13C2-6:2 FTS	156	10 - 187	07/26/17 14:27	
13C4-PFOA	110	13 - 142	07/26/17 14:27	
13C5-PFNA	95	15 - 143	07/26/17 14:27	
13C4-PFOS	92	11 - 131	07/26/17 14:27	
13C2-PFDA	108	25 - 129	07/26/17 14:27	
13C2-PFUnDA	99	16 - 129	07/26/17 14:27	
13C2-PFDoDA	93	17 - 114	07/26/17 14:27	
D7-MeFOSE	64	32 - 113	07/26/17 14:27	
D9-EtFOSE	57	20 - 113	07/26/17 14:27	
D5-EtFOSA	51	19 - 103	07/26/17 14:27	
13C2-8:2 FTS	162	50 - 150	07/26/17 14:27	*

Analytical Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KQ1710167-03	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

13C2-PFTeDA	83	50 - 150	07/26/17 14:27
13C4-PFHpA	108	50 - 150	07/26/17 14:27
13C5-PFPeA	102	50 - 150	07/26/17 14:27
13C3-PFBS	66	50 - 150	07/26/17 14:27
13C8-FOSA	74	50 - 150	07/26/17 14:27

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3550B

Sample Name	Lab Code	13C2-6:2 FTS 50 - 150	13C2-8:2 FTS 50 - 150	13C2-PFDA 50 - 150
Batch QC	K1707559-001	74	90	86
PEC-1	K1707681-001	97	165 *	99
PEC-1 DUP	K1707681-002	131	205 *	104
Batch QC	KQ1709896-01	69	88	82
Batch QC	KQ1709896-02	67	85	79
Lab Control Sample	KQ1709896-03	70	89	88
Method Blank	KQ1709896-04	70	91	93

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3550B

Sample Name	Lab Code	13C2-PFDoDA 50 - 150	13C2-PFHxA 50 - 150	13C2-PFTeDA 50 - 150
Batch QC	K1707559-001	90	83	68
PEC-1	K1707681-001	95	80	76
PEC-1 DUP	K1707681-002	94	89	72
Batch QC	KQ1709896-01	81	76	70
Batch QC	KQ1709896-02	80	72	68
Lab Control Sample	KQ1709896-03	89	83	69
Method Blank	KQ1709896-04	96	89	76

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3550B

Sample Name	Lab Code	13C2-PFUnDA 50 - 150	13C3-PFBS 50 - 150	13C4-PFBA 50 - 150
Batch QC	K1707559-001	89	67	69
PEC-1	K1707681-001	101	69	73
PEC-1 DUP	K1707681-002	101	73	75
Batch QC	KQ1709896-01	80	67	65
Batch QC	KQ1709896-02	81	65	65
Lab Control Sample	KQ1709896-03	90	69	71
Method Blank	KQ1709896-04	99	77	75

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3550B

Sample Name	Lab Code	13C4-PFHpA 50 - 150	13C4-PFOA 50 - 150	13C4-PFOS 50 - 150
Batch QC	K1707559-001	61	79	70
PEC-1	K1707681-001	74	92	76
PEC-1 DUP	K1707681-002	70	93	78
Batch QC	KQ1709896-01	61	69	68
Batch QC	KQ1709896-02	58	70	66
Lab Control Sample	KQ1709896-03	63	79	75
Method Blank	KQ1709896-04	70	86	79

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3550B

Sample Name	Lab Code	13C5-PFNA 50 - 150	13C5-PFPeA 50 - 150	13C8-FOSA 50 - 150
Batch QC	K1707559-001	75	68	65
PEC-1	K1707681-001	90	74	70
PEC-1 DUP	K1707681-002	89	73	67
Batch QC	KQ1709896-01	67	67	64
Batch QC	KQ1709896-02	69	67	63
Lab Control Sample	KQ1709896-03	75	68	67
Method Blank	KQ1709896-04	81	75	73

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3550B

Sample Name	Lab Code	18O2-PFHxS 50 - 150	D5-EtFOSA 50 - 150	D7-MeFOSE 50 - 150
Batch QC	K1707559-001	65	67	74
PEC-1	K1707681-001	81	73	74
PEC-1 DUP	K1707681-002	69	70	70
Batch QC	KQ1709896-01	60	71	72
Batch QC	KQ1709896-02	64	68	68
Lab Control Sample	KQ1709896-03	70	69	71
Method Blank	KQ1709896-04	70	76	81

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3550B

Sample Name	Lab Code	D9-EtFOSE 50 - 150
Batch QC	K1707559-001	63
PEC-1	K1707681-001	60
PEC-1 DUP	K1707681-002	54
Batch QC	KQ1709896-01	67
Batch QC	KQ1709896-02	64
Lab Control Sample	KQ1709896-03	65
Method Blank	KQ1709896-04	70

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3535A

Sample Name	Lab Code	13C2-6:2 FTS 10 - 187	13C2-8:2 FTS 50 - 150	13C2-PFDA 25 - 129
EB-1-SOIL-72017	K1707681-006	140	165 *	104
MW-10	K1707681-007	103	97	99
MW-10, DUP	K1707681-008	158	137	81
EB-2-WATER-72017	K1707681-009	169	166 *	107
Lab Control Sample	KQ1710166-01	60	129	89
Duplicate Lab Control Sample	KQ1710166-02	88	130	88
Method Blank	KQ1710166-03	145	161 *	108
Lab Control Sample	KQ1710167-01	121	149	59
Duplicate Lab Control Sample	KQ1710167-02	113	135	69
Method Blank	KQ1710167-03	156	162 *	108

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3535A

Sample Name	Lab Code	13C2-PFDoDA 17 - 114	13C2-PFHxA 10 - 151	13C2-PFTeDA 50 - 150
EB-1-SOIL-72017	K1707681-006	96	113	84
MW-10	K1707681-007	78	68	60
MW-10, DUP	K1707681-008	67	60	57
EB-2-WATER-72017	K1707681-009	95	114	82
Lab Control Sample	KQ1710166-01	78	90	70
Duplicate Lab Control Sample	KQ1710166-02	80	93	72
Method Blank	KQ1710166-03	96	111	87
Lab Control Sample	KQ1710167-01	79	100	68
Duplicate Lab Control Sample	KQ1710167-02	68	71	63
Method Blank	KQ1710167-03	93	116	83

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3535A

Sample Name	Lab Code	13C2-PFUnDA 16 - 129	13C3-PFBS 50 - 150	13C4-PFBA 19 - 126
EB-1-SOIL-72017	K1707681-006	100	71	109
MW-10	K1707681-007	91	47 *	76
MW-10, DUP	K1707681-008	69	39 *	86
EB-2-WATER-72017	K1707681-009	98	76	124
Lab Control Sample	KQ1710166-01	80	59	97
Duplicate Lab Control Sample	KQ1710166-02	88	59	99
Method Blank	KQ1710166-03	99	72	110
Lab Control Sample	KQ1710167-01	60	60	56
Duplicate Lab Control Sample	KQ1710167-02	71	54	70
Method Blank	KQ1710167-03	99	66	114

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3535A

Sample Name	Lab Code	13C4-PFHpA 50 - 150	13C4-PFOA 13 - 142	13C4-PFOS 11 - 131
EB-1-SOIL-72017	K1707681-006	97	105	91
MW-10	K1707681-007	58	94	81
MW-10, DUP	K1707681-008	50	81	73
EB-2-WATER-72017	K1707681-009	102	121	96
Lab Control Sample	KQ1710166-01	80	86	77
Duplicate Lab Control Sample	KQ1710166-02	84	87	71
Method Blank	KQ1710166-03	91	104	88
Lab Control Sample	KQ1710167-01	89	92	84
Duplicate Lab Control Sample	KQ1710167-02	79	80	72
Method Blank	KQ1710167-03	108	110	92

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3535A

Sample Name	Lab Code	13C5-PFNA 15 - 143	13C5-PFPeA 50 - 150	13C8-FOSA 50 - 150
EB-1-SOIL-72017	K1707681-006	101	100	83
MW-10	K1707681-007	88	71	58
MW-10, DUP	K1707681-008	72	70	45 *
EB-2-WATER-72017	K1707681-009	101	106	76
Lab Control Sample	KQ1710166-01	78	82	68
Duplicate Lab Control Sample	KQ1710166-02	86	85	72
Method Blank	KQ1710166-03	96	98	81
Lab Control Sample	KQ1710167-01	87	88	63
Duplicate Lab Control Sample	KQ1710167-02	66	76	56
Method Blank	KQ1710167-03	95	102	74

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3535A

Sample Name	Lab Code	18O2-PFHxS 20 - 128	D5-EtFOSA 19 - 103	D7-MeFOSE 32 - 113
EB-1-SOIL-72017	K1707681-006	86	71	72
MW-10	K1707681-007	93	61	52
MW-10, DUP	K1707681-008	88	44	45
EB-2-WATER-72017	K1707681-009	101	76	75
Lab Control Sample	KQ1710166-01	75	59	61
Duplicate Lab Control Sample	KQ1710166-02	70	68	63
Method Blank	KQ1710166-03	86	68	71
Lab Control Sample	KQ1710167-01	78	44	56
Duplicate Lab Control Sample	KQ1710167-02	75	40	47
Method Blank	KQ1710167-03	88	51	64

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3535A

Sample Name	Lab Code	D9-EtFOSE 20 - 113
EB-1-SOIL-72017	K1707681-006	62
MW-10	K1707681-007	52
MW-10, DUP	K1707681-008	44
EB-2-WATER-72017	K1707681-009	62
Lab Control Sample	KQ1710166-01	54
Duplicate Lab Control Sample	KQ1710166-02	60
Method Blank	KQ1710166-03	62
Lab Control Sample	KQ1710167-01	50
Duplicate Lab Control Sample	KQ1710167-02	44
Method Blank	KQ1710167-03	57

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:**K1707681
Project: City of Galveston **Date Analyzed:**07/24/17 15:42

Internal Standard Area and RT SUMMARY
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

File ID: J:\LCMS06\Data\072417_b1\072417_106 **Lab Code:**KQ1710165-01
Instrument ID: K-LCMS-06 **Analysis Lot:**554762
Analysis Method: PFC/537M **Signal ID:**1

		D3-MeFOSA	
		Area	**RT**
	ICAL Result ==>	339,441	5.703
	Upper Limit ==>	678,882	6.70
	Lower Limit ==>	169,721	4.70
Associated Analyses			
Method Blank	KQ1709896-04	466820	5.696
Lab Control Sample	KQ1709896-03	482026	5.703
Batch QC	K1707559-001	489648	5.705
Batch QCMS	KQ1709896-01	517666	5.702
Batch QCDMS	KQ1709896-02	520744	5.701
PEC-1	K1707681-001.R01	461626	5.701
PEC-1 DUP	K1707681-002.R01	450810	5.704

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:**K1707681
Project: City of Galveston **Date Analyzed:**07/24/17 15:42

Internal Standard Area and RT SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

File ID: J:\LCMS06\Data\072417_b1_IS\072417_106 **Lab Code:**KQ1710170-01
Instrument ID: K-LCMS-06 **Analysis Lot:**554813
Analysis Method: PFC/537M **Signal ID:**1

		D3-MeFOSA	
		Area	**RT**
	ICAL Result ==>	339,441	5.703
	Upper Limit ==>	678,882	6.70
	Lower Limit ==>	169,721	4.70
Associated Analyses			
PEC-1	K1707681-001	461626	5.701
PEC-1 DUP	K1707681-002	450810	5.704

Client: AECOM/URS Corporation **Service Request:**K1707681
Project: City of Galveston **Date Analyzed:**07/26/17 12:01

Internal Standard Area and RT SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

File ID: J:\LCMS06\Data\072617_b2\072617_117 **Lab Code:**KQ1710331-01
Instrument ID: K-LCMS-06 **Analysis Lot:**555050
Analysis Method: PFC/537M **Signal ID:**1

		D3-MeFOSA	
		Area	**RT**
	ICAL Result ==>	335,144	5.691
	Upper Limit ==>	670,288	6.69
	Lower Limit ==>	167,572	4.69
Associated Analyses			
Method Blank	KQ1710166-03	400229	5.696
Lab Control Sample	KQ1710166-01.R01	444033	5.696
Duplicate Lab Control Sample	KQ1710166-02.R01	437206	5.693
EB-1-SOIL-72017	K1707681-006	396205	5.697
MW-10	K1707681-007.R01	419866	5.698
EB-2-WATER-72017	K1707681-009	360774	5.694

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:**K1707681
Project: City of Galveston **Date Analyzed:**07/26/17 14:07

Internal Standard Area and RT SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

File ID: J:\LCMS06\Data\072617_b3\072617_129 **Lab Code:**KQ1710347-01
Instrument ID: K-LCMS-06 **Analysis Lot:**555060
Analysis Method: PFC/537M **Signal ID:**1

		D3-MeFOSA	
		Area	**RT**
	ICAL Result ==>	346,685	5.690
	Upper Limit ==>	693,370	6.69
	Lower Limit ==>	173,343	4.69
Associated Analyses			
Method Blank	KQ1710167-03	393546	5.699
Lab Control Sample	KQ1710167-01.R01	428553	5.698
Duplicate Lab Control Sample	KQ1710167-02.R01	420879	5.700
MW-10, DUP	K1707681-008.R01	377885	5.691

Client: AECOM/URS Corporation **Service Request:**K1707681
Project: City of Galveston **Date Analyzed:**07/27/17 12:45

Internal Standard Area and RT SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

File ID: J:\LCMS06\Data\072717_b1\072717_118 **Lab Code:**KQ1710339-01
Instrument ID: K-LCMS-06 **Analysis Lot:**555244
Analysis Method: PFC/537M **Signal ID:**1

		D3-MeFOSA	
		Area	**RT**
	ICAL Result ==>	349,439	5.692
	Upper Limit ==>	698,878	6.69
	Lower Limit ==>	174,720	4.69
Associated Analyses			
Lab Control Sample	KQ1710166-01.R02	421542	5.695
Duplicate Lab Control Sample	KQ1710166-02.R02	452241	5.691
MW-10	K1707681-007	409789	5.693
MW-10	K1707681-007.R02	408081	5.695

Client: AECOM/URS Corporation **Service Request:**K1707681
Project: City of Galveston **Date Analyzed:**07/28/17 11:46

Internal Standard Area and RT SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

File ID: J:\LCMS06\Data\072817_b1\072817_118 **Lab Code:**KQ1710463-01
Instrument ID: K-LCMS-06 **Analysis Lot:**555465
Analysis Method: PFC/537M **Signal ID:**1

		D3-MeFOSA	
		Area	**RT**
	ICAL Result ==>	353,464	5.681
	Upper Limit ==>	706,928	6.68
	Lower Limit ==>	176,732	4.68
Associated Analyses			
Lab Control Sample	KQ1710166-01.R03	422879	5.685
Duplicate Lab Control Sample	KQ1710166-02.R03	457636	5.692

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:**K1707681
Project: City of Galveston **Date Analyzed:**07/28/17 13:41

Internal Standard Area and RT SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

File ID: J:\LCMS06\Data\072817_b2\072817_129 **Lab Code:**KQ1710515-02
Instrument ID: K-LCMS-06 **Analysis Lot:**555466
Analysis Method: PFC/537M **Signal ID:**1

		D3-MeFOSA	
		Area	**RT**
	ICAL Result ==>	367,000	5.685
	Upper Limit ==>	734,000	6.69
	Lower Limit ==>	183,500	4.69
Associated Analyses			
Lab Control Sample	KQ1710167-01	435462	5.696
Duplicate Lab Control Sample	KQ1710167-02	446738	5.696
MW-10, DUP	K1707681-008	381414	5.688

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Collected:**	N/A
Sample Matrix:	Soil	**Date Received:**	N/A
		Date Analyzed:	07/24/17
		Date Extracted:	07/24/17

Duplicate Matrix Spike Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Sample Name:	Batch QC	**Units:**	ng/g
Lab Code:	K1707559-001	**Basis:**	Dry
Analysis Method:	PFC/537M		
Prep Method:	EPA 3550B		

		Matrix Spike KQ1709896-01			**Duplicate Matrix Spike** KQ1709896-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perfluorobutanoic acid (PFBA)	0.67 J	42.7	49.4	85	41.5	49.8	82	50-150	4	50
Perfluoropentanoic acid (PFPeA)	0.66 J	40.5	49.4	81	40.0	49.8	79	50-150	3	50
Perfluorobutane sulfonic acid (PFBS)	ND U	50.5	43.8	115	48.1	44.2	109	50-150	5	50
Perfluorohexanoic acid (PFHxA)	ND U	52.1	49.4	105	50.1	49.8	101	50-150	4	50
Perfluoroheptanoic acid (PFHpA)	0.41 J	47.6	49.4	95	45.8	49.8	91	50-150	4	50
Perfluorohexane sulfonic acid (PFHxS)	0.98 J	36.3	45.1	78	35.0	45.4	75	50-150	4	50
Perfluorooctanoic acid (PFOA)	0.44 J	38.0	49.4	76	35.8	49.8	71	50-150	7	50
Perfluoroheptane sulfonic acid (PFHpS)	ND U	49.3	47.1	105	53.0	47.4	112	50-150	6	50
Perfluorononanoic acid (PFNA)	ND U	39.5	49.4	80	39.7	49.8	80	50-150	<1	50
Perfluorooctane sulfonic acid (PFOS)	3.0	39.8	45.9	80	38.3	46.2	76	50-150	5	50
Perfluorodecanoic acid (PFDA)	ND U	35.4	49.4	72	34.2	49.8	69	50-150	4	50
Perfluoroundecanoic acid (PFUnDA)	ND U	36.1	49.4	73	35.3	49.8	71	50-150	3	50
Perfluorooctane sulfonamide (FOSA)	ND U	44.5	49.4	90	44.6	49.8	90	50-150	<1	50
Perfluorododecanoic acid (PFDoDA)	ND U	49.4	49.4	100	46.4	49.8	93	50-150	7	50
Perfluorotridecanoic acid (PFTrDA)	ND U	45.3	49.4	92	45.6	49.8	92	50-150	<1	50
N-Methyl perfluorooctane sulfonamide (MeFOSA)	ND U	45.8	49.4	93	48.3	49.8	97	50-150	4	50
N-Methyl perfluorooctane sulfonamidoethanol	ND U	48.1	49.4	97	48.4	49.8	97	50-150	<1	50
Perfluorotetradecanoic acid (PFTeDA)	ND U	46.4	49.4	94	44.4	49.8	89	50-150	5	50
N-Ethyl perfluorooctane sulfonamidoethanol	ND U	53.9	49.4	109	54.9	49.8	110	50-150	<1	50
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	ND U	48.8	49.4	99	49.4	49.8	99	50-150	<1	50
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	43.8	47.4	92	43.6	47.8	91	50-150	1	50
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.68 J	46.7	47.0	98	47.3	47.3	98	50-150	<1	50
Perfluorodecane sulfonic acid (PFDS)	ND U	41.7	47.6	88	42.1	48.0	88	50-150	<1	50

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Analyzed:**	07/24/17
Sample Matrix:	Soil	**Date Extracted:**	07/24/17

Lab Control Sample Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method:	PFC/537M	**Units:**	ng/g
Prep Method:	EPA 3550B	**Basis:**	Dry
		Analysis Lot:	554762

Lab Control Sample
KQ1709896-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	37.0	38.0	97	50-150
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	36.4	38.4	95	50-150
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	42.1	40.0	105	50-150
N-Ethyl perfluorooctane sulfonamidoethanol	46.0	40.0	115	50-150
N-Methyl perfluorooctane sulfonamide (MeFOSA)	40.1	40.0	100	50-150
N-Methyl perfluorooctane sulfonamidoethanol	39.7	40.0	99	50-150
Perfluorobutane sulfonic acid (PFBS)	40.1	35.5	113	50-150
Perfluorobutanoic acid (PFBA)	33.9	40.0	85	50-150
Perfluorodecane sulfonic acid (PFDS)	31.7	38.6	82	50-150
Perfluorodecanoic acid (PFDA)	28.1	40.0	70	50-150
Perfluorododecanoic acid (PFDoDA)	38.4	40.0	96	50-150
Perfluoroheptane sulfonic acid (PFHpS)	37.8	38.1	99	50-150
Perfluoroheptanoic acid (PFHpA)	38.4	40.0	96	50-150
Perfluorohexane sulfonic acid (PFHxS)	25.2	36.5	69	50-150
Perfluorohexanoic acid (PFHxA)	40.8	40.0	102	50-150
Perfluorononanoic acid (PFNA)	31.1	40.0	78	50-150
Perfluorooctane sulfonamide (FOSA)	38.0	40.0	95	50-150
Perfluorooctane sulfonic acid (PFOS)	29.5	37.2	79	50-150
Perfluorooctanoic acid (PFOA)	28.8	40.0	72	50-150
Perfluoropentanoic acid (PFPeA)	34.7	40.0	87	50-150
Perfluorotetradecanoic acid (PFTeDA)	40.8	40.0	102	50-150
Perfluorotridecanoic acid (PFTrDA)	40.6	40.0	101	50-150
Perfluoroundecanoic acid (PFUnDA)	28.7	40.0	72	50-150

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Analyzed:**	07/27/17 - 07/28/17
Sample Matrix:	Water	**Date Extracted:**	07/25/17

Duplicate Lab Control Sample Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method:	PFC/537M	**Units:**	ng/L
Prep Method:	EPA 3535A	**Basis:**	NA
		Analysis Lot:	555244

	Lab Control Sample KQ1710166-01			Duplicate Lab Control Sample KQ1710166-02					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	114	152	75	111	152	73 *	74-132	2	30
Perfluoroheptane sulfonic acid (PFHpS)	127	153	84	108	153	71	69-148	16	30
Perfluorooctane sulfonic acid (PFOS)	114	149	76	111	149	75	74-135	2	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Analyzed:**	07/26/17
Sample Matrix:	Water	**Date Extracted:**	07/25/17

Duplicate Lab Control Sample Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method:	PFC/537M	**Units:**	ng/L
Prep Method:	EPA 3535A	**Basis:**	NA
		Analysis Lot:	555050

	Lab Control Sample KQ1710166-01			Duplicate Lab Control Sample KQ1710166-02					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	117	154	76	108	154	70	50-150	8	30
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	110	160	69	102	160	64 *	69-146	8	30
N-Ethyl perfluorooctane sulfonamidoethanol	147	160	92	143	160	90	54-159	2	30
N-Methyl perfluorooctane sulfonamide (MeFOSA)	102	160	64	103	160	65	10-183	1	30
N-Methyl perfluorooctane sulfonamidoethanol	122	160	76	119	160	75	37-166	2	30
Perfluorobutane sulfonic acid (PFBS)	125	142	88	126	142	89	50-150	<1	30
Perfluorobutanoic acid (PFBA)	124	160	78	121	160	76	76-136	3	30
Perfluorodecanoic acid (PFDA)	122	160	76	119	160	74	68-135	3	30
Perfluorododecanoic acid (PFDoDA)	129	160	81	129	160	81	70-133	<1	30
Perfluoroheptanoic acid (PFHpA)	147	160	92	151	160	94	50-150	3	30
Perfluorohexanoic acid (PFHxA)	135	160	85	125	160	78	68-141	8	30
Perfluorononanoic acid (PFNA)	126	160	79	134	160	84	77-127	6	30
Perfluorooctane sulfonamide (FOSA)	106	160	66	100	160	63	50-150	6	30
Perfluorooctanoic acid (PFOA)	136	160	85	134	160	84	72-130	1	30
Perfluoropentanoic acid (PFPeA)	135	160	84	132	160	83	50-150	2	30
Perfluorotetradecanoic acid (PFTeDA)	133	160	83	133	160	83	50-150	<1	30
Perfluorotridecanoic acid (PFTrDA)	144	160	90	146	160	91	50-150	1	30
Perfluoroundecanoic acid (PFUnDA)	119	160	75	115	160	72	66-131	4	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Analyzed:**	07/28/17
Sample Matrix:	Water	**Date Extracted:**	07/25/17

Duplicate Lab Control Sample Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method:	PFC/537M	**Units:**	ng/L
Prep Method:	EPA 3535A	**Basis:**	NA
		Analysis Lot:	555465

	Lab Control Sample KQ1710166-01			Duplicate Lab Control Sample KQ1710166-02					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perfluorodecane sulfonic acid (PFDS)	108	154	70	99.8	154	65 *	69-128	8	30
Perfluorohexane sulfonic acid (PFHxS)	112	146	77	111	146	76	71-130	1	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Analyzed:**	07/26/17
Sample Matrix:	Water	**Date Extracted:**	07/25/17

Duplicate Lab Control Sample Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method:	PFC/537M	**Units:**	ng/L
Prep Method:	EPA 3535A	**Basis:**	NA
		Analysis Lot:	555060

	Lab Control Sample KQ1710167-01			Duplicate Lab Control Sample KQ1710167-02					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	133	159	84	149	159	94	74-132	12	30
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	139	160	87	153	160	96	50-150	10	30
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	166	167	100	196	167	117	69-146	16	30
N-Ethyl perfluorooctane sulfonamidoethanol	192	167	115	217	167	130	54-159	12	30
N-Methyl perfluorooctane sulfonamide (MeFOSA)	128	167	77	148	167	89	10-183	15	30
N-Methyl perfluorooctane sulfonamidoethanol	157	167	94	182	167	109	37-166	15	30
Perfluorobutane sulfonic acid (PFBS)	155	148	105	172	148	116	50-150	11	30
Perfluorodecane sulfonic acid (PFDS)	115	161	72	121	161	75	69-128	5	30
Perfluorododecanoic acid (PFDoDA)	125	167	75	181	167	109	70-133	37 *	30
Perfluoroheptane sulfonic acid (PFHpS)	148	159	93	160	159	101	69-148	8	30
Perfluoroheptanoic acid (PFHpA)	138	167	83	112	167	67	50-150	21	30
Perfluorohexane sulfonic acid (PFHxS)	111	152	73	122	152	80	71-130	10	30
Perfluorohexanoic acid (PFHxA)	115	167	69	181	167	108	68-141	44 *	30
Perfluorononanoic acid (PFNA)	128	167	77	206	167	124	77-127	46 *	30
Perfluorooctane sulfonamide (FOSA)	131	167	78	152	167	91	50-150	15	30
Perfluorooctane sulfonic acid (PFOS)	123	155	79	142	155	92	74-135	15	30
Perfluorooctanoic acid (PFOA)	123	167	74	168	167	101	72-130	31 *	30
Perfluoropentanoic acid (PFPeA)	123	167	74	99.1	167	59	50-150	22	30
Perfluorotetradecanoic acid (PFTeDA)	124	167	74	106	167	64	50-150	16	30
Perfluorotridecanoic acid (PFTrDA)	139	167	84	112	167	67	50-150	22	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Analyzed:**	07/28/17
Sample Matrix:	Water	**Date Extracted:**	07/25/17

Duplicate Lab Control Sample Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method:	PFC/537M	**Units:**	ng/L
Prep Method:	EPA 3535A	**Basis:**	NA
		Analysis Lot:	555466

	Lab Control Sample KQ1710167-01			Duplicate Lab Control Sample KQ1710167-02					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perfluorobutanoic acid (PFBA)	230	167	138 *	170	167	102	76-136	30	30
Perfluorodecanoic acid (PFDA)	221	167	133	161	167	97	68-135	32 *	30
Perfluoroundecanoic acid (PFUnDA)	249	167	149 *	182	167	109	66-131	31 *	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Analyzed:**	07/24/17 16:03
Sample Matrix:	Soil	**Date Extracted:**	07/24/17

Method Blank Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Sample Name:	Method Blank	**Instrument ID:**	K-LCMS-06
Lab Code:	KQ1709896-04	**File ID:**	J:\LCMS06\Data\072417_b1\072417_108
Analysis Method:	PFC/537M	**Analysis Lot:**	554762
Prep Method:	EPA 3550B	**Extraction Lot:**	293302

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ1709896-03	J:\LCMS06\Data\072417_b1\072417_109	07/24/17 16:13
Batch QC	K1707559-001	J:\LCMS06\Data\072417_b1\072417_110	07/24/17 16:24
Batch QC	KQ1709896-01	J:\LCMS06\Data\072417_b1\072417_111	07/24/17 16:34
Batch QC	KQ1709896-02	J:\LCMS06\Data\072417_b1\072417_112	07/24/17 16:45
PEC-1	K1707681-001	J:\LCMS06\Data\072417_b1\072417_116	07/24/17 17:26
PEC-1	K1707681-001	J:\LCMS06\Data\072417_b1_IS\072417_116	07/24/17 17:26
PEC-1 DUP	K1707681-002	J:\LCMS06\Data\072417_b1\072417_117	07/24/17 17:37
PEC-1 DUP	K1707681-002	J:\LCMS06\Data\072417_b1_IS\072417_117	07/24/17 17:37

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Analyzed:**	07/26/17 12:22
Sample Matrix:	Water	**Date Extracted:**	07/25/17

Method Blank Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Sample Name:	Method Blank	**Instrument ID:**	K-LCMS-06
Lab Code:	KQ1710166-03	**File ID:**	J:\LCMS06\Data\072617_b2\072617_119
Analysis Method:	PFC/537M	**Analysis Lot:**	555050
Prep Method:	EPA 3535A	**Extraction Lot:**	293672

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ1710166-01	J:\LCMS06\Data\072617_b2\072617_120	07/26/17 12:32
Duplicate Lab Control Sample	KQ1710166-02	J:\LCMS06\Data\072617_b2\072617_121	07/26/17 12:43
EB-1-SOIL-72017	K1707681-006	J:\LCMS06\Data\072617_b2\072617_122	07/26/17 12:53
MW-10	K1707681-007	J:\LCMS06\Data\072617_b2\072617_123	07/26/17 13:04
EB-2-WATER-72017	K1707681-009	J:\LCMS06\Data\072617_b2\072617_124	07/26/17 13:14
Lab Control Sample	KQ1710166-01	J:\LCMS06\Data\072717_b1\072717_121	07/27/17 13:16
Duplicate Lab Control Sample	KQ1710166-02	J:\LCMS06\Data\072717_b1\072717_122	07/27/17 13:27
MW-10	K1707681-007	J:\LCMS06\Data\072717_b1\072717_123	07/27/17 13:37
MW-10	K1707681-007	J:\LCMS06\Data\072717_b1\072717_124	07/27/17 13:48
Lab Control Sample	KQ1710166-01	J:\LCMS06\Data\072817_b1\072817_121	07/28/17 12:18
Duplicate Lab Control Sample	KQ1710166-02	J:\LCMS06\Data\072817_b1\072817_122	07/28/17 12:28

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Analyzed:**	07/26/17 14:27
Sample Matrix:	Water	**Date Extracted:**	07/25/17

Method Blank Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Sample Name:	Method Blank	**Instrument ID:**	K-LCMS-06
Lab Code:	KQ1710167-03	**File ID:**	J:\LCMS06\Data\072617_b3\072617_131
Analysis Method:	PFC/537M	**Analysis Lot:**	555060
Prep Method:	EPA 3535A	**Extraction Lot:**	293673

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ1710167-01	J:\LCMS06\Data\072617_b3\072617_132	07/26/17 14:38
Duplicate Lab Control Sample	KQ1710167-02	J:\LCMS06\Data\072617_b3\072617_133	07/26/17 14:48
MW-10, DUP	K1707681-008	J:\LCMS06\Data\072617_b3\072617_152	07/26/17 18:07
Lab Control Sample	KQ1710167-01	J:\LCMS06\Data\072817_b2\072817_136	07/28/17 14:55
Duplicate Lab Control Sample	KQ1710167-02	J:\LCMS06\Data\072817_b2\072817_137	07/28/17 15:05
MW-10, DUP	K1707681-008	J:\LCMS06\Data\072817_b2\072817_141	07/28/17 15:47

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Analyzed:**	07/24/17 16:13
Sample Matrix:	Soil	**Date Extracted:**	07/24/17

Lab Control Sample Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	K-LCMS-06
Lab Code:	KQ1709896-03	**File ID:**	J:\LCMS06\Data\072417_b1\072417_109
Analysis Method:	PFC/537M	**Analysis Lot:**	554762
Prep Method:	EPA 3550B	**Extraction Lot:**	293302

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ1709896-04	J:\LCMS06\Data\072417_b1\072417_108	07/24/17 16:03
Batch QC	K1707559-001	J:\LCMS06\Data\072417_b1\072417_110	07/24/17 16:24
Batch QC	KQ1709896-01	J:\LCMS06\Data\072417_b1\072417_111	07/24/17 16:34
Batch QC	KQ1709896-02	J:\LCMS06\Data\072417_b1\072417_112	07/24/17 16:45
PEC-1	K1707681-001	J:\LCMS06\Data\072417_b1\072417_116	07/24/17 17:26
PEC-1	K1707681-001	J:\LCMS06\Data\072417_b1_IS\072417_116	07/24/17 17:26
PEC-1 DUP	K1707681-002	J:\LCMS06\Data\072417_b1\072417_117	07/24/17 17:37
PEC-1 DUP	K1707681-002	J:\LCMS06\Data\072417_b1_IS\072417_117	07/24/17 17:37

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Analyzed:**	07/26/17 12:32
Sample Matrix:	Water	**Date Extracted:**	07/25/17

Lab Control Sample Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	K-LCMS-06
Lab Code:	KQ1710166-01	**File ID:**	J:\LCMS06\Data\072617_b2\072617_120
Analysis Method:	PFC/537M	**Analysis Lot:**	555050
Prep Method:	EPA 3535A	**Extraction Lot:**	293672

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ1710166-03	J:\LCMS06\Data\072617_b2\072617_119	07/26/17 12:22
Duplicate Lab Control Sample	KQ1710166-02	J:\LCMS06\Data\072617_b2\072617_121	07/26/17 12:43
EB-1-SOIL-72017	K1707681-006	J:\LCMS06\Data\072617_b2\072617_122	07/26/17 12:53
MW-10	K1707681-007	J:\LCMS06\Data\072617_b2\072617_123	07/26/17 13:04
EB-2-WATER-72017	K1707681-009	J:\LCMS06\Data\072617_b2\072617_124	07/26/17 13:14
Duplicate Lab Control Sample	KQ1710166-02	J:\LCMS06\Data\072717_b1\072717_122	07/27/17 13:27
MW-10	K1707681-007	J:\LCMS06\Data\072717_b1\072717_123	07/27/17 13:37
MW-10	K1707681-007	J:\LCMS06\Data\072717_b1\072717_124	07/27/17 13:48
Duplicate Lab Control Sample	KQ1710166-02	J:\LCMS06\Data\072817_b1\072817_122	07/28/17 12:28

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Analyzed:**	07/28/17 14:55
Sample Matrix:	Water	**Date Extracted:**	07/25/17

Lab Control Sample Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	K-LCMS-06
Lab Code:	KQ1710167-01	**File ID:**	J:\LCMS06\Data\072817_b2\072817_136
Analysis Method:	PFC/537M	**Analysis Lot:**	555060
Prep Method:	EPA 3535A	**Extraction Lot:**	293673

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ1710167-03	J:\LCMS06\Data\072617_b3\072617_131	07/26/17 14:27
Duplicate Lab Control Sample	KQ1710167-02	J:\LCMS06\Data\072617_b3\072617_133	07/26/17 14:48
MW-10, DUP	K1707681-008	J:\LCMS06\Data\072617_b3\072617_152	07/26/17 18:07
Duplicate Lab Control Sample	KQ1710167-02	J:\LCMS06\Data\072817_b2\072817_137	07/28/17 15:05
MW-10, DUP	K1707681-008	J:\LCMS06\Data\072817_b2\072817_141	07/28/17 15:47

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/17/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700121 **Signal ID:** 1
Instrument ID: K-LCMS-06

#	Lab Code	Sample Name	File Location	Aquisition Date
01	KC1700121-01	0.01 ppb	071717_107	07/17/2017 13:31
02	KC1700121-02	0.02 ppb	071717_108	07/17/2017 13:42
03	KC1700121-03	0.05ppb	071717_109	07/17/2017 13:52
10	KC1700121-10	0.1ppb	071717_110	07/17/2017 14:02
04	KC1700121-04	0.25ppb	071717_111	07/17/2017 14:13
05	KC1700121-05	0.50ppb	071717_112	07/17/2017 14:23
06	KC1700121-06	1 ppb	071717_113	07/17/2017 14:34
07	KC1700121-07	5 ppb	071717_114	07/17/2017 14:44
08	KC1700121-08	10 ppb	071717_115	07/17/2017 14:55
09	KC1700121-09	20 ppb	071717_116	07/17/2017 15:05

Analyte

Perfluorobutanoic acid (PFBA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	1.58	10	0.1	1.361	04	0.25	1.154	05	0.5	1.11
06	1	1.308	07	5	1.223	08	10	1.24	09	20	1.32

Perfluoropentanoic acid (PFPeA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.01	30.59	02	0.02	16.59	03	0.05	8.033	10	0.1	6.191
04	0.25	3.937	05	0.5	3.285	06	1	3.445	07	5	3.107
08	10	3.116	09	20	3.352						

Perfluorobutane sulfonic acid (PFBS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.008874	0.7376	02	0.017747	0.6744	03	0.044368	0.6372	10	0.088737	0.9385
04	0.221842	0.7998	05	0.443685	0.9279	06	0.88737	1.011	07	4.43685	0.8995
08	8.873699	0.9093	09	17.7474	0.9369						

Perfluorohexanoic acid (PFHxA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.1	1.554	04	0.25	0.8974	05	0.5	0.9996	06	1	0.9816
07	5	1.017	08	10	0.9942	09	20	1.05			

Perfluoroheptanoic acid (PFHpA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.1	1.41	04	0.25	0.937	05	0.5	0.9908	06	1	1.098
07	5	1.057	08	10	1.048	09	20	1.149			

Perfluorohexane sulfonic acid (PFHxS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.045654	1.417	10	0.091308	1.527	04	0.228269	1.437	05	0.456538	1.389
06	0.913075	1.257	07	4.565377	1.348	08	9.130755	1.302	09	18.26151	1.423

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/17/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700121 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

Perfluorooctanoic acid (PFOA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	1.484	10	0.1	1.407	04	0.25	1.139	05	0.5	1.154
06	1	1.244	07	5	1.204	08	10	1.184	09	20	1.295

Perfluoroheptane sulfonic acid (PFHpS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.047672	1.055	10	0.095344	1.082	04	0.23836	1.097	05	0.476719	0.8709
06	0.953438	1.136	07	4.767191	1.152	08	9.534381	1.124	09	19.06876	1.199

Perfluorononanoic acid (PFNA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	1.255	10	0.1	1.337	04	0.25	1.082	05	0.5	0.9143
06	1	1.03	07	5	1.041	08	10	1.041	09	20	1.112

Perfluorooctane sulfonic acid (PFOS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.009292	0.8671	02	0.018585	0.6429	03	0.046461	0.7014	10	0.092923	0.9106
04	0.232307	0.8462	05	0.464615	0.7744	06	0.929229	0.8177	07	4.646145	0.8358
08	9.292291	0.8433	09	18.58458	0.8705						

Perfluorodecanoic acid (PFDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	1.39	10	0.1	1.557	04	0.25	1.289	05	0.5	1.269
06	1	1.369	07	5	1.362	08	10	1.352	09	20	1.367

Perfluoroundecanoic acid (PFUnDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	1.495	10	0.1	1.362	04	0.25	0.9943	05	0.5	1.002
06	1	1.131	07	5	1.074	08	10	1.062	09	20	1.109

Perfluorooctane sulfonamide (FOSA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.01	1.951	02	0.02	1.489	03	0.05	1.506	10	0.1	1.551
04	0.25	1.332	05	0.5	1.412	06	1	1.549	07	5	1.485
08	10	1.488	09	20	1.595						

Perfluorododecanoic acid (PFDoDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.02	0.8483	03	0.05	0.7833	10	0.1	0.6847	04	0.25	0.4969
05	0.5	0.6005	06	1	0.6057	07	5	0.6081	08	10	0.6067
09	20	0.6435									

Perfluorotridecanoic acid (PFTrDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	0.9124	10	0.1	0.9976	04	0.25	0.9659	05	0.5	0.9517
06	1	1.013	07	5	1.02	08	10	1.02	09	20	1.078

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/17/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700121 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

N-Methyl perfluorooctane sulfonamide (MeFOSA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.02	1.5	03	0.05	1.307	10	0.1	1.316	04	0.25	0.9721
05	0.5	1.074	06	1	1.125	07	5	1.163	08	10	1.165
09	20	1.305									

N-Methyl perfluorooctane sulfonamidoethanol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.01	2.109	02	0.02	1.66	03	0.05	1.756	10	0.1	1.891
04	0.25	1.429	05	0.5	1.613	06	1	1.818	07	5	1.705
08	10	1.681	09	20	1.908						

Perfluorotetradecanoic acid (PFTeDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.01	5.335	02	0.02	2.802	03	0.05	1.548	10	0.1	1.086
04	0.25	0.7963	05	0.5	0.5873	06	1	0.5491	07	5	0.518
08	10	0.5192	09	20	0.5499						

N-Ethyl perfluorooctane sulfonamidoethanol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.01	1.94	02	0.02	1.339	03	0.05	1.516	10	0.1	1.643
04	0.25	1.376	05	0.5	1.45	06	1	1.602	07	5	1.618
08	10	1.57	09	20	1.636						

N-Ethyl perfluorooctane sulfonamide (EtFOSA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	0.1526	10	0.1	0.2225	04	0.25	0.1562	05	0.5	0.1746
06	1	0.19	07	5	0.1903	08	10	0.1899	09	20	0.2031

13C4-PFBA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	5.315	02	5	5.897	03	5	5.348	04	5	5.799
05	5	5.437	06	5	6.029	07	5	5.034	08	5	6.014
09	5	5.5	10	5	5.618						

13C2-PFHxA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	7.157	02	5	8.754	03	5	7.587	04	5	8.599
05	5	7.445	06	5	8.282	07	5	7.081	08	5	8.652
09	5	7.237	10	5	7.805						

18O2-PFHxS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	1.158	02	5	1.234	03	5	1.119	04	5	1.158
05	5	1.193	06	5	1.288	07	5	1.033	08	5	1.174
09	5	1.052	10	5	1.227						

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/17/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700121 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

13C2-6:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	0.7018	02	5	0.868	03	5	0.7807	04	5	0.8148
05	5	0.7607	06	5	0.8321	07	5	0.6831	08	5	0.7511
09	5	0.6544	10	5	0.7635						

13C4-PFOA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	9.895	02	5	10.21	03	5	9.307	04	5	11.24
05	5	10.41	06	5	11.32	07	5	9.262	08	5	10.76
09	5	8.709	10	5	10.67						

13C5-PFNA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	8.881	02	5	9.708	03	5	8.937	04	5	9.727
05	5	8.999	06	5	10.12	07	5	8.222	08	5	9.348
09	5	7.944	10	5	9.467						

13C4-PFOS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	1.217	02	5	1.335	03	5	1.271	04	5	1.283
05	5	1.29	06	5	1.385	07	5	1.11	08	5	1.3
09	5	1.214	10	5	1.298						

13C2-PFDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	7.281	02	5	8.12	03	5	7.441	04	5	7.876
05	5	7.528	06	5	8.318	07	5	6.475	08	5	7.562
09	5	7.098	10	5	7.728						

13C2-PFUnDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	8.858	02	5	9.653	03	5	8.851	04	5	9.506
05	5	8.788	06	5	9.837	07	5	8.001	08	5	9.117
09	5	7.762	10	5	9.41						

13C2-PFDoDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	10.78	02	5	12.4	03	5	11.14	04	5	12.07
05	5	11.29	06	5	12.55	07	5	10.08	08	5	11.62
09	5	10.22	10	5	11.58						

D7-MeFOSE

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	1.211	02	5	1.405	03	5	1.265	04	5	1.451
05	5	1.341	06	5	1.397	07	5	1.181	08	5	1.399
09	5	1.187	10	5	1.278						

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/17/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700121 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

D9-EtFOSE

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	1.43	02	5	1.714	03	5	1.555	04	5	1.653
05	5	1.565	06	5	1.71	07	5	1.381	08	5	1.672
09	5	1.572	10	5	1.565						

D5-EtFOSA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	1.278	02	5	1.445	03	5	1.24	04	5	1.396
05	5	1.367	06	5	1.434	07	5	1.229	08	5	1.452
09	5	1.336	10	5	1.337						

13C2-8:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	0.646	02	5	0.7119	03	5	0.6706	04	5	0.7084
05	5	0.6828	06	5	0.7394	07	5	0.5791	08	5	0.721
09	5	0.691	10	5	0.7062						

13C2-PFTeDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	8.78	02	5	10.01	03	5	9.131	04	5	9.365
05	5	9.23	06	5	9.989	07	5	8.234	08	5	9.443
09	5	8.398	10	5	9.385						

13C4-PFHpA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	7.984	02	5	8.261	03	5	7.631	04	5	8.021
05	5	7.872	06	5	8.795	07	5	6.756	08	5	7.852
09	5	7.385	10	5	8.709						

13C5-PFPeA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	2.7	02	5	3.029	03	5	2.671	04	5	2.847
05	5	2.694	06	5	2.995	07	5	2.449	08	5	2.899
09	5	2.591	10	5	2.811						

13C3-PFBS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	1.817	02	5	2.016	03	5	1.798	04	5	2.061
05	5	1.813	06	5	2.064	07	5	1.813	08	5	2.19
09	5	1.962	10	5	2						

13C8-FOSA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	3.264	02	5	3.728	03	5	3.439	04	5	3.556
05	5	3.424	06	5	3.697	07	5	3.055	08	5	3.612
09	5	3.231	10	5	3.502						

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/17/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700121 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

8:2 Fluorotelomer sulfonic acid (8:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0096	0.8866	02	0.019201	1.009	03	0.048002	0.9292	10	0.096004	1.108
04	0.24011	0.91	05	0.480022	0.921	06	0.960045	1.051	07	4.800223	1.029
08	9.600466	0.9298	09	19.20089	0.8672						

6:2 Fluorotelomer sulfonic acid (6:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.047558	1.449	10	0.095117	1.477	04	0.237792	1.238	05	0.475584	1.314
06	0.951168	1.31	07	4.755838	1.347	08	9.511677	1.235	09	19.02335	1.174

Perfluorodecane sulfonic acid (PFDS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.019293	1.012	03	0.048233	1.056	10	0.096467	0.8859	04	0.241167	0.7502
05	0.482333	0.8535	06	0.964667	1.002	07	4.823334	0.9872	08	9.646668	1.034
09	19.29334	1.033									

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/17/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700121 **Signal ID:** 1
Instrument ID: K-LCMS-06

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Perfluorobutanoic acid (PFBA)	TRG	Average RF	% RSD	11.3	≤20	1.287	
Perfluoropentanoic acid (PFPeA)	TRG	Linear	R2	0.9980	≥0.99	8.164	
Perfluorobutane sulfonic acid (PFBS)	TRG	Average RF	% RSD	15.0	≤20	0.8472	
Perfluorohexanoic acid (PFHxA)	TRG	Quadratic	COD	0.9999	≥0.99	1.071	
Perfluoroheptanoic acid (PFHpA)	TRG	Average RF	% RSD	14.0	≤20	1.099	
Perfluorohexane sulfonic acid (PFHxS)	TRG	Average RF	% RSD	6.1	≤20	1.387	
Perfluorooctanoic acid (PFOA)	TRG	Average RF	% RSD	9.8	≤20	1.264	
Perfluoroheptane sulfonic acid (PFHpS)	TRG	Average RF	% RSD	9.1	≤20	1.089	
Perfluorononanoic acid (PFNA)	TRG	Average RF	% RSD	12.2	≤20	1.102	
Perfluorooctane sulfonic acid (PFOS)	TRG	Average RF	% RSD	10.2	≤20	0.811	
Perfluorodecanoic acid (PFDA)	TRG	Average RF	% RSD	6.3	≤20	1.369	
Perfluoroundecanoic acid (PFUnDA)	TRG	Average RF	% RSD	15.6	≤20	1.154	
Perfluorooctane sulfonamide (FOSA)	TRG	Average RF	% RSD	10.7	≤20	1.536	
Perfluorododecanoic acid (PFDoDA)	TRG	Average RF	% RSD	16.2	≤20	0.6531	
Perfluorotridecanoic acid (PFTrDA)	TRG	Average RF	% RSD	5.1	≤20	0.9948	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	TRG	Average RF	% RSD	13.0	≤20	1.214	
N-Methyl perfluorooctane sulfonamidoethanol	TRG	Average RF	% RSD	10.6	≤20	1.757	
Perfluorotetradecanoic acid (PFTeDA)	TRG	Linear	R2	0.9986	≥0.99	1.429	
N-Ethyl perfluorooctane sulfonamidoethanol	TRG	Average RF	% RSD	10.8	≤20	1.569	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	TRG	Average RF	% RSD	12.6	≤20	0.1849	
13C4-PFBA	SURR	Average RF	% RSD	5.9	≤20	5.599	
13C2-PFHxA	SURR	Average RF	% RSD	8.4	≤20	7.86	
18O2-PFHxS	SURR	Average RF	% RSD	6.8	≤20	1.164	
13C2-6:2 FTS	SURR	Average RF	% RSD	8.9	≤20	0.761	
13C4-PFOA	SURR	Average RF	% RSD	8.6	≤20	10.18	
13C5-PFNA	SURR	Average RF	% RSD	7.5	≤20	9.135	
13C4-PFOS	SURR	Average RF	% RSD	5.9	≤20	1.27	
13C2-PFDA	SURR	Average RF	% RSD	7.0	≤20	7.543	
13C2-PFUnDA	SURR	Average RF	% RSD	7.6	≤20	8.978	
13C2-PFDoDA	SURR	Average RF	% RSD	7.4	≤20	11.37	
D7-MeFOSE	SURR	Average RF	% RSD	7.6	≤20	1.312	

Client: AECOM/URS Corporation
Project: City of Galveston

Service Request: K1707681
Calibration Date: 7/17/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700121
Instrument ID: K-LCMS-06

Signal ID: 1

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
D9-EtFOSE	SURR	Average RF	% RSD	7.1	≤20	1.582	
D5-EtFOSA	SURR	Average RF	% RSD	6.1	≤20	1.351	
13C2-8:2 FTS	SURR	Average RF	% RSD	6.7	≤20	0.6857	
13C2-PFTeDA	SURR	Average RF	% RSD	6.4	≤20	9.197	
13C4-PFHpA	SURR	Average RF	% RSD	7.6	≤20	7.927	
13C5-PFPeA	SURR	Average RF	% RSD	6.6	≤20	2.769	
13C3-PFBS	SURR	Average RF	% RSD	7.0	≤20	1.954	
13C8-FOSA	SURR	Average RF	% RSD	6.2	≤20	3.451	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	TRG	Average RF	% RSD	8.3	≤20	0.9641	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	TRG	Average RF	% RSD	8.0	≤20	1.318	
Perfluorodecane sulfonic acid (PFDS)	TRG	Average RF	% RSD	10.8	≤20	0.957	

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/17/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700129 **Signal ID:** 1
Instrument ID: K-LCMS-06

#	Lab Code	Sample Name	File Location	Aquisition Date
01	KC1700129-01	0.01 ppb	071717_107	07/17/2017 13:31
02	KC1700129-02	0.02 ppb	071717_108	07/17/2017 13:42
03	KC1700129-03	0.05ppb	071717_109	07/17/2017 13:52
10	KC1700129-10	0.1ppb	071717_110	07/17/2017 14:02
04	KC1700129-04	0.25ppb	071717_111	07/17/2017 14:13
05	KC1700129-05	0.50ppb	071717_112	07/17/2017 14:23
06	KC1700129-06	1 ppb	071717_113	07/17/2017 14:34
07	KC1700129-07	5 ppb	071717_114	07/17/2017 14:44
08	KC1700129-08	10 ppb	071717_115	07/17/2017 14:55
09	KC1700129-09	20 ppb	071717_116	07/17/2017 15:05

Analyte

13C2-8:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	0.646	02	5	0.7119	03	5	0.6706	04	5	0.7084
05	5	0.6828	06	5	0.7394	07	5	0.5791	08	5	0.721
09	5	0.691	10	5	0.7062						

8:2 Fluorotelomer sulfonic acid (8:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0096	0.5728	02	0.019201	0.7183	03	0.048002	0.6231	10	0.096004	0.7823
04	0.24011	0.6447	05	0.480022	0.6289	06	0.960045	0.7775	07	4.800223	0.5957
08	9.600466	0.6704	09	19.20089	0.5993						

Client: AECOM/URS Corporation
Project: City of Galveston

Service Request: K1707681
Calibration Date: 7/17/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700129
Instrument ID: K-LCMS-06

Signal ID: 1

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
13C2-8:2 FTS	SURR	Average RF	% RSD	6.7	≤20	0.6857	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	TRG	Average RF	% RSD	11.3	≤20	0.6613	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/27/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700133 **Signal ID:** 1
Instrument ID: K-LCMS-06

#	Lab Code	Sample Name	File Location	Aquisition Date
01	KC1700133-01	0.01 ppb	072717_107	07/27/2017 10:50
02	KC1700133-02	0.02 ppb	072717_108	07/27/2017 11:00
03	KC1700133-03	0.05ppb	072717_109	07/27/2017 11:11
10	KC1700133-10	0.1ppb	072717_110	07/27/2017 11:21
04	KC1700133-04	0.25ppb	072717_111	07/27/2017 11:32
05	KC1700133-05	0.50ppb	072717_112	07/27/2017 11:42
06	KC1700133-06	1 ppb	072717_113	07/27/2017 11:53
07	KC1700133-07	5 ppb	072717_114	07/27/2017 12:03
08	KC1700133-08	10 ppb	072717_115	07/27/2017 12:14
09	KC1700133-09	20 ppb	072717_116	07/27/2017 12:24

Analyte

Perfluorobutanoic acid (PFBA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	1.562	10	0.1	1.44	04	0.25	1.145	05	0.5	1.084
06	1	1.206	07	5	1.189	08	10	1.198	09	20	1.287

Perfluoropentanoic acid (PFPeA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.02	17.06	03	0.05	8.847	10	0.1	6.017	04	0.25	4.006
05	0.5	3.324	06	1	3.197	07	5	2.908	08	10	2.939
09	20	3.093									

Perfluorobutane sulfonic acid (PFBS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.088737	0.8798	04	0.221842	0.8069	05	0.443685	0.8228	06	0.88737	1.04
07	4.43685	1.037	08	8.873699	0.9969	09	17.7474	1.071			

Perfluorohexanoic acid (PFHxA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.1	1.327	04	0.25	0.9629	05	0.5	0.9971	06	1	0.941
07	5	0.9442	08	10	1.003	09	20	0.9795			

Perfluoroheptanoic acid (PFHpA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.02	2.436	03	0.05	1.531	10	0.1	1.505	04	0.25	1.061
05	0.5	1.005	06	1	1.058	07	5	1.062	08	10	1.078
09	20	1.164									

Perfluorohexane sulfonic acid (PFHxS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.045654	1.865	10	0.091308	1.831	04	0.228269	1.26	05	0.456538	1.396
06	0.913075	1.526	07	4.565377	1.334	08	9.130755	1.325	09	18.26151	1.42

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/27/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700133 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

Perfluorooctanoic acid (PFOA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	1.707	10	0.1	1.512	04	0.25	1.23	05	0.5	1.175
06	1	1.274	07	5	1.241	08	10	1.217	09	20	1.345

Perfluoroheptane sulfonic acid (PFHpS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.019069	0.7455	03	0.047672	0.843	10	0.095344	0.9089	04	0.23836	1.015
05	0.476719	0.8384	06	0.953438	1.072	07	4.767191	1.054	08	9.534381	1.062
09	19.06876	1.173									

Perfluorononanoic acid (PFNA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	1.067	10	0.1	1.201	04	0.25	0.9916	05	0.5	0.975
06	1	1.011	07	5	1.008	08	10	1.036	09	20	1.091

Perfluorooctane sulfonic acid (PFOS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.018585	0.6889	03	0.046461	0.788	10	0.092923	0.8985	04	0.232307	0.7104
05	0.464615	0.7201	06	0.929229	0.8286	07	4.646145	0.8144	08	9.292291	0.8239
09	18.58458	0.893									

Perfluorodecanoic acid (PFDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	1.622	10	0.1	1.496	04	0.25	1.309	05	0.5	1.213
06	1	1.298	07	5	1.276	08	10	1.287	09	20	1.334

Perfluoroundecanoic acid (PFUnDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	1.462	10	0.1	1.348	04	0.25	0.9801	05	0.5	1.031
06	1	1.102	07	5	1.042	08	10	1.044	09	20	1.103

Perfluorooctane sulfonamide (FOSA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.02	1.542	03	0.05	1.427	10	0.1	1.537	04	0.25	1.295
05	0.5	1.363	06	1	1.515	07	5	1.442	08	10	1.48
09	20	1.552									

Perfluorododecanoic acid (PFDoDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.02	0.7743	03	0.05	0.7998	10	0.1	0.7759	04	0.25	0.537
05	0.5	0.6194	06	1	0.6533	07	5	0.6143	08	10	0.6376
09	20	0.6693									

Perfluorotridecanoic acid (PFTrDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	1.351	10	0.1	1.233	04	0.25	1.037	05	0.5	0.9569
06	1	1.035	07	5	1.002	08	10	1.06	09	20	1.075

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/27/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700133 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

N-Methyl perfluorooctane sulfonamide (MeFOSA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.01	2.067	02	0.02	1.648	03	0.05	1.793	10	0.1	1.809
04	0.25	1.5	05	0.5	1.365	06	1	1.389	07	5	1.542
08	10	1.526	09	20	1.704						

N-Methyl perfluorooctane sulfonamidoethanol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.02	2.345	03	0.05	2.009	10	0.1	2.12	04	0.25	1.916
05	0.5	1.913	06	1	2.129	07	5	2.114	08	10	2.202
09	20	2.262									

Perfluorotetradecanoic acid (PFTeDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.02	2.341	03	0.05	1.271	10	0.1	0.9568	04	0.25	0.5837
05	0.5	0.5379	06	1	0.5427	07	5	0.5097	08	10	0.5019
09	20	0.5151									

N-Ethyl perfluorooctane sulfonamidoethanol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.01	2.27	02	0.02	1.707	03	0.05	2.123	10	0.1	2.152
04	0.25	2.014	05	0.5	1.841	06	1	2.055	07	5	1.985
08	10	2.025	09	20	2.091						

N-Ethyl perfluorooctane sulfonamide (EtFOSA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	0.2247	10	0.1	0.2157	04	0.25	0.1455	05	0.5	0.1748
06	1	0.1878	07	5	0.1812	08	10	0.1889	09	20	0.2016

13C4-PFBA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	6.497	02	5	7.298	03	5	6.329	04	5	6.437
05	5	6.749	06	5	7.578	07	5	6.122	08	5	7.097
09	5	6.769	10	5	6.856						

13C2-PFHxA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	9.505	02	5	9.034	03	5	8.855	04	5	9.299
05	5	8.745	06	5	10.44	07	5	7.876	08	5	8.848
09	5	8.737	10	5	8.791						

18O2-PFHxS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	1.158	02	5	1.391	03	5	1.069	04	5	1.125
05	5	1.207	06	5	1.35	07	5	1.125	08	5	1.338
09	5	1.19	10	5	1.239						

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/27/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700133 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

13C2-6:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	1.267	02	5	1.533	03	5	1.248	04	5	1.3
05	5	1.361	06	5	1.406	07	5	1.128	08	5	1.264
09	5	1.11	10	5	1.418						

13C4-PFOA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	10.24	02	5	11.2	03	5	10.27	04	5	9.733
05	5	11.06	06	5	12.56	07	5	9.658	08	5	10.19
09	5	9.782	10	5	10.08						

13C5-PFNA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	9.714	02	5	10.55	03	5	9.462	04	5	9.305
05	5	9.751	06	5	10.88	07	5	8.627	08	5	9.716
09	5	8.469	10	5	9.558						

13C4-PFOS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	1.283	02	5	1.493	03	5	1.238	04	5	1.313
05	5	1.336	06	5	1.484	07	5	1.201	08	5	1.382
09	5	1.251	10	5	1.35						

13C2-PFDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	7.857	02	5	9.038	03	5	7.665	04	5	7.986
05	5	8.374	06	5	9.326	07	5	7.277	08	5	8.421
09	5	8.015	10	5	8.453						

13C2-PFUnDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	8.984	02	5	10.34	03	5	8.952	04	5	8.932
05	5	9.631	06	5	10.64	07	5	8.183	08	5	9.415
09	5	8.124	10	5	9.401						

13C2-PFDoDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	11.51	02	5	12.82	03	5	11.15	04	5	11.26
05	5	11.71	06	5	13.11	07	5	10.24	08	5	11.66
09	5	10.42	10	5	11.67						

D7-MeFOSE

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	0.9426	02	5	1.087	03	5	0.9444	04	5	0.9412
05	5	1.036	06	5	1.136	07	5	0.9018	08	5	1.011
09	5	0.9362	10	5	0.9839						

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/27/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700133 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

D9-EtFOSE

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	1.116	02	5	1.274	03	5	1.095	04	5	1.058
05	5	1.187	06	5	1.31	07	5	1.085	08	5	1.223
09	5	1.198	10	5	1.14						

D5-EtFOSA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	1.39	02	5	1.512	03	5	1.293	04	5	1.329
05	5	1.347	06	5	1.392	07	5	1.267	08	5	1.415
09	5	1.398	10	5	1.391						

13C2-8:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	1.104	02	5	1.297	03	5	1.13	04	5	1.11
05	5	1.224	06	5	1.35	07	5	1.125	08	5	1.263
09	5	1.155	10	5	1.267						

13C2-PFTeDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	8.997	02	5	9.995	03	5	8.626	04	5	9.092
05	5	9.294	06	5	10.45	07	5	8.12	08	5	8.97
09	5	8.413	10	5	9.505						

13C4-PFHpA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	8.799	02	5	10.12	03	5	9.009	04	5	8.644
05	5	9.86	06	5	10.8	07	5	8.276	08	5	8.912
09	5	8.375	10	5	8.602						

13C5-PFPeA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	3.227	02	5	3.55	03	5	3.101	04	5	3.142
05	5	3.276	06	5	3.662	07	5	2.929	08	5	3.438
09	5	3.222	10	5	3.353						

13C3-PFBS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	1.998	02	5	2.263	03	5	1.99	04	5	1.974
05	5	2.094	06	5	2.416	07	5	1.831	08	5	2.096
09	5	2.054	10	5	2.009						

13C8-FOSA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	3.404	02	5	3.81	03	5	3.345	04	5	3.33
05	5	3.491	06	5	3.875	07	5	3.147	08	5	3.535
09	5	3.325	10	5	3.519						

Client: AECOM/URS Corporation
Project: City of Galveston

Service Request: K1707681
Calibration Date: 7/27/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700133
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte

8:2 Fluorotelomer sulfonic acid (8:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0096	1.246	02	0.019201	1.181	03	0.048002	1.03	10	0.096004	1.075
04	0.24011	1.05	05	0.480022	0.9733	06	0.960045	1.056	07	4.800223	0.956
08	9.600466	0.9012	09	19.20089	0.8882						

6:2 Fluorotelomer sulfonic acid (6:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.019023	1.336	03	0.047558	1.224	10	0.095117	1.43	04	0.237792	1.219
05	0.475584	1.151	06	0.951168	1.436	07	4.755838	1.249	08	9.511677	1.169
09	19.02335	1.157									

Perfluorodecane sulfonic acid (PFDS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.009647	0.6925	02	0.019293	0.7812	03	0.048233	0.8376	10	0.096467	1.066
04	0.241167	0.8793	05	0.482333	0.9226	06	0.964667	1.037	07	4.823334	0.9829
08	9.646668	0.9672	09	19.29334	1.011						

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/27/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700133 **Signal ID:** 1
Instrument ID: K-LCMS-06

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Perfluorobutanoic acid (PFBA)	TRG	Average RF	% RSD	12.7	≤20	1.264	
Perfluoropentanoic acid (PFPeA)	TRG	Linear	R2	0.9989	≥0.99	5.71	
Perfluorobutane sulfonic acid (PFBS)	TRG	Average RF	% RSD	11.7	≤20	0.9506	
Perfluorohexanoic acid (PFHxA)	TRG	Average RF	% RSD	13.4	≤20	1.022	
Perfluoroheptanoic acid (PFHpA)	TRG	Linear	R2	0.9903	≥0.99	1.322	
Perfluorohexane sulfonic acid (PFHxS)	TRG	Average RF	% RSD	15.5	≤20	1.495	
Perfluorooctanoic acid (PFOA)	TRG	Average RF	% RSD	13.6	≤20	1.338	
Perfluoroheptane sulfonic acid (PFHpS)	TRG	Average RF	% RSD	14.5	≤20	0.968	
Perfluorononanoic acid (PFNA)	TRG	Average RF	% RSD	7.0	≤20	1.048	
Perfluorooctane sulfonic acid (PFOS)	TRG	Average RF	% RSD	9.6	≤20	0.7962	
Perfluorodecanoic acid (PFDA)	TRG	Average RF	% RSD	10.0	≤20	1.355	
Perfluoroundecanoic acid (PFUnDA)	TRG	Average RF	% RSD	15.1	≤20	1.139	
Perfluorooctane sulfonamide (FOSA)	TRG	Average RF	% RSD	6.1	≤20	1.461	
Perfluorododecanoic acid (PFDoDA)	TRG	Average RF	% RSD	13.2	≤20	0.6757	
Perfluorotridecanoic acid (PFTrDA)	TRG	Average RF	% RSD	12.0	≤20	1.094	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	TRG	Average RF	% RSD	13.2	≤20	1.634	
N-Methyl perfluorooctane sulfonamidoethanol	TRG	Average RF	% RSD	7.0	≤20	2.112	
Perfluorotetradecanoic acid (PFTeDA)	TRG	Linear	R2	0.9995	≥0.99	0.8622	
N-Ethyl perfluorooctane sulfonamidoethanol	TRG	Average RF	% RSD	7.8	≤20	2.026	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	TRG	Average RF	% RSD	13.0	≤20	0.19	
13C4-PFBA	SURR	Average RF	% RSD	6.7	≤20	6.773	
13C2-PFHxA	SURR	Average RF	% RSD	7.3	≤20	9.013	
18O2-PFHxS	SURR	Average RF	% RSD	8.9	≤20	1.219	
13C2-6:2 FTS	SURR	Average RF	% RSD	10.0	≤20	1.304	
13C4-PFOA	SURR	Average RF	% RSD	8.6	≤20	10.48	
13C5-PFNA	SURR	Average RF	% RSD	7.7	≤20	9.603	
13C4-PFOS	SURR	Average RF	% RSD	7.4	≤20	1.333	
13C2-PFDA	SURR	Average RF	% RSD	7.5	≤20	8.241	
13C2-PFUnDA	SURR	Average RF	% RSD	8.8	≤20	9.261	
13C2-PFDoDA	SURR	Average RF	% RSD	7.8	≤20	11.56	
D7-MeFOSE	SURR	Average RF	% RSD	7.6	≤20	0.9921	

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/27/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700133 **Signal ID:** 1
Instrument ID: K-LCMS-06

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
D9-EtFOSE	SURR	Average RF	% RSD	7.2	≤20	1.168	
D5-EtFOSA	SURR	Average RF	% RSD	5.0	≤20	1.373	
13C2-8:2 FTS	SURR	Average RF	% RSD	7.4	≤20	1.202	
13C2-PFTeDA	SURR	Average RF	% RSD	7.7	≤20	9.146	
13C4-PFHpA	SURR	Average RF	% RSD	9.1	≤20	9.14	
13C5-PFPeA	SURR	Average RF	% RSD	6.6	≤20	3.29	
13C3-PFBS	SURR	Average RF	% RSD	7.9	≤20	2.073	
13C8-FOSA	SURR	Average RF	% RSD	6.4	≤20	3.478	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	TRG	Average RF	% RSD	11.0	≤20	1.036	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	TRG	Average RF	% RSD	8.8	≤20	1.263	
Perfluorodecane sulfonic acid (PFDS)	TRG	Average RF	% RSD	13.0	≤20	0.9177	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/28/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700134 **Signal ID:** 1
Instrument ID: K-LCMS-06

#	Lab Code	Sample Name	File Location	Aquisition Date
01	KC1700134-01	0.01 ppb	072817_107	07/28/2017 09:51
02	KC1700134-02	0.02 ppb	072817_108	07/28/2017 10:02
03	KC1700134-03	0.05ppb	072817_109	07/28/2017 10:12
10	KC1700134-10	0.1ppb	072817_110	07/28/2017 10:22
04	KC1700134-04	0.25ppb	072817_111	07/28/2017 10:33
05	KC1700134-05	0.50ppb	072817_112	07/28/2017 10:43
06	KC1700134-06	1 ppb	072817_113	07/28/2017 10:54
07	KC1700134-07	5 ppb	072817_114	07/28/2017 11:04
08	KC1700134-08	10 ppb	072817_115	07/28/2017 11:15
09	KC1700134-09	20 ppb	072817_116	07/28/2017 11:25

Analyte

Perfluorobutanoic acid (PFBA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.1	1.228	04	0.25	1.031	05	0.5	1.026	06	1	1.014
07	5	0.9813	08	10	1.057	09	20	1.078			

Perfluoropentanoic acid (PFPeA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.02	15.58	03	0.05	7.606	10	0.1	5.762	04	0.25	3.423
05	0.5	3.203	06	1	2.971	07	5	2.591	08	10	2.797
09	20	2.815									

Perfluorobutane sulfonic acid (PFBS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.044368	0.9156	10	0.088737	0.68	04	0.221842	0.935	05	0.443685	0.8201
06	0.88737	0.9699	07	4.43685	0.8299	08	8.873699	0.923	09	17.7474	0.9531

Perfluorohexanoic acid (PFHxA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.02	1.57	03	0.05	1.347	10	0.1	1.147	04	0.25	0.7857
05	0.5	0.8459	06	1	0.8005	07	5	0.81	08	10	0.8017
09	20	0.835									

Perfluoroheptanoic acid (PFHpA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.1	1.413	04	0.25	1.046	05	0.5	0.9616	06	1	0.9686
07	5	0.9025	08	10	1.02	09	20	1.011			

Perfluorohexane sulfonic acid (PFHxS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.091308	1.546	04	0.228269	1.189	05	0.456538	0.9881	06	0.913075	1.238
07	4.565377	1.191	08	9.130755	1.193	09	18.26151	1.184			

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/28/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700134 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

Perfluorooctanoic acid (PFOA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	1.385	10	0.1	1.27	04	0.25	1.059	05	0.5	1.051
06	1	1.069	07	5	0.9861	08	10	1.07	09	20	1.062

Perfluoroheptane sulfonic acid (PFHpS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.095344	1.506	04	0.23836	0.7656	05	0.476719	0.7441	06	0.953438	0.9529
07	4.767191	0.9772	08	9.534381	1.084						

Perfluorononanoic acid (PFNA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	0.8365	10	0.1	0.9373	04	0.25	0.8487	05	0.5	0.7583
06	1	0.8395	07	5	0.7998	08	10	0.8528	09	20	0.8772

Perfluorooctane sulfonic acid (PFOS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.018585	0.7121	03	0.046461	0.6742	10	0.092923	0.747	04	0.232307	0.7377
05	0.464615	0.8024	06	0.929229	0.8205	07	4.646145	0.7084	08	9.292291	0.8035
09	18.58458	0.7636									

Perfluorodecanoic acid (PFDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.02	1.448	03	0.05	1.08	10	0.1	1.343	04	0.25	1.048
05	0.5	1.07	06	1	1.023	07	5	0.9464	08	10	1.062
09	20	1.02									

Perfluoroundecanoic acid (PFUnDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.01	3.173	02	0.02	1.924	03	0.05	1.154	10	0.1	1.214
04	0.25	0.8998	05	0.5	0.8987	06	1	0.8969	07	5	0.8441
08	10	0.8861	09	20	0.8559						

Perfluorooctane sulfonamide (FOSA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.02	1.606	03	0.05	1.416	10	0.1	1.511	04	0.25	1.391
05	0.5	1.418	06	1	1.467	07	5	1.367	08	10	1.479
09	20	1.512									

Perfluorododecanoic acid (PFDoDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	0.6074	10	0.1	0.6397	04	0.25	0.4936	05	0.5	0.5036
06	1	0.5308	07	5	0.4867	08	10	0.5397	09	20	0.5417

Perfluorotridecanoic acid (PFTrDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	1.304	10	0.1	1.16	04	0.25	0.8523	05	0.5	0.8929
06	1	0.9666	07	5	0.9245	08	10	0.9911	09	20	1.009

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/28/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700134 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

N-Methyl perfluorooctane sulfonamide (MeFOSA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.02	1.912	03	0.05	1.656	10	0.1	1.794	04	0.25	1.481
05	0.5	1.603	06	1	1.508	07	5	1.516	08	10	1.614
09	20	1.646									

N-Methyl perfluorooctane sulfonamidoethanol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.02	2.129	03	0.05	1.983	10	0.1	2.018	04	0.25	1.936
05	0.5	2.109	06	1	2.011	07	5	2.02	08	10	2.121
09	20	2.088									

Perfluorotetradecanoic acid (PFTeDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	1.253	10	0.1	0.9043	04	0.25	0.6199	05	0.5	0.5469
06	1	0.4963	07	5	0.4099	08	10	0.4348	09	20	0.4538

N-Ethyl perfluorooctane sulfonamidoethanol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.01	2.855	02	0.02	2.641	03	0.05	1.811	10	0.1	2.763
04	0.25	2.121	05	0.5	2.178	06	1	2.249	07	5	2.214
08	10	2.364	09	20	2.295						

N-Ethyl perfluorooctane sulfonamide (EtFOSA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.05	0.2706	10	0.1	0.2321	04	0.25	0.2047	05	0.5	0.1937
06	1	0.2043	07	5	0.1882	08	10	0.2085	09	20	0.2063

13C4-PFBA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	5.758	02	5	6.408	03	5	6.378	04	5	5.888
05	5	5.81	06	5	6.164	07	5	6.644	08	5	6.631
09	5	6.248	10	5	6.033						

13C2-PFHxA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	7.798	02	5	8.443	03	5	8.426	04	5	7.899
05	5	7.397	06	5	8.651	07	5	8.883	08	5	9.631
09	5	7.735	10	5	7.899						

18O2-PFHxS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	1.118	02	5	1.255	03	5	1.253	04	5	1.109
05	5	1.068	06	5	1.129	07	5	1.212	08	5	1.151
09	5	1.127	10	5	1.153						

13C2-6:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	0.6901	02	5	0.8272	03	5	0.7551	04	5	0.7202

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/28/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700134 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

13C2-6:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	5	0.7026	06	5	0.641	07	5	0.7479	08	5	0.7515
09	5	0.6567	10	5	0.6805						

13C4-PFOA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	9.434	02	5	10.75	03	5	10.46	04	5	9.69
05	5	9.436	06	5	9.25	07	5	10.43	08	5	9.356
09	5	8.748	10	5	10.09						

13C5-PFNA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	9.01	02	5	10.54	03	5	10.39	04	5	9.4
05	5	8.951	06	5	9.689	07	5	10.06	08	5	9.754
09	5	8.716	10	5	9.823						

13C4-PFOS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	1.264	02	5	1.413	03	5	1.38	04	5	1.267
05	5	1.182	06	5	1.307	07	5	1.445	08	5	1.39
09	5	1.283	10	5	1.314						

13C2-PFDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	7.844	02	5	8.999	03	5	8.839	04	5	8.158
05	5	7.76	06	5	8.886	07	5	9.126	08	5	8.635
09	5	8.129	10	5	8.128						

13C2-PFUnDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	8.891	02	5	10.2	03	5	9.814	04	5	9.164
05	5	8.97	06	5	9.436	07	5	9.908	08	5	9.773
09	5	8.266	10	5	9.169						

13C2-PFDoDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	11.25	02	5	12.79	03	5	12.5	04	5	11.82
05	5	11.34	06	5	12.3	07	5	12.97	08	5	12.26
09	5	10.75	10	5	11.9						

D7-MeFOSE

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	0.9218	02	5	1.065	03	5	1.034	04	5	0.989
05	5	0.9631	06	5	1.05	07	5	1.07	08	5	1.046
09	5	0.9445	10	5	1.012						

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/28/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700134 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

D9-EtFOSE

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	0.8836	02	5	1.091	03	5	1.08	04	5	1.023
05	5	1.012	06	5	1.098	07	5	1.147	08	5	1.123
09	5	1.059	10	5	0.9886						

D5-EtFOSA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	1.238	02	5	1.457	03	5	1.372	04	5	1.277
05	5	1.267	06	5	1.368	07	5	1.477	08	5	1.399
09	5	1.331	10	5	1.352						

13C2-8:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	0.666	02	5	0.7361	03	5	0.7229	04	5	0.6856
05	5	0.6425	06	5	0.7244	07	5	0.7138	08	5	0.7418
09	5	0.7302	10	5	0.6704						

13C2-PFTeDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	7.505	02	5	8.699	03	5	8.723	04	5	7.896
05	5	7.832	06	5	8.386	07	5	8.695	08	5	8.472
09	5	7.624	10	5	8.199						

13C4-PFHpA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	7.04	02	5	8.022	03	5	8.004	04	5	7.103
05	5	7.121	06	5	8.127	07	5	7.84	08	5	7.908
09	5	7.034	10	5	7.592						

13C5-PFPeA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	2.567	02	5	2.945	03	5	2.926	04	5	2.647
05	5	2.568	06	5	2.774	07	5	2.996	08	5	2.927
09	5	2.683	10	5	2.731						

13C3-PFBS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	1.628	02	5	1.917	03	5	1.873	04	5	1.705
05	5	1.633	06	5	1.763	07	5	1.994	08	5	1.829
09	5	1.807	10	5	1.788						

13C8-FOSA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	3.084	02	5	3.522	03	5	3.448	04	5	3.161
05	5	3.068	06	5	3.354	07	5	3.578	08	5	3.565
09	5	3.147	10	5	3.284						

Client: AECOM/URS Corporation
Project: City of Galveston

Service Request: K1707681
Calibration Date: 7/28/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700134
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte

8:2 Fluorotelomer sulfonic acid (8:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0096	1.315	02	0.019201	0.9089	03	0.048002	0.991	10	0.096004	1.116
04	0.24011	1.01	05	0.480022	1.024	06	0.960045	1.029	07	4.800223	0.9832
08	9.600466	0.9428	09	19.20089	0.8072						

6:2 Fluorotelomer sulfonic acid (6:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.095117	1.653	04	0.237792	1.367	05	0.475584	1.147	06	0.951168	1.341
07	4.755838	1.177	08	9.511677	1.125	09	19.02335	1.053			

Perfluorodecane sulfonic acid (PFDS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.019293	0.7429	03	0.048233	0.5896	10	0.096467	0.7634	04	0.241167	0.8308
05	0.482333	0.8516	06	0.964667	0.8498	07	4.823334	0.7327	08	9.646668	0.8846
09	19.29334	0.8271									

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/28/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700134 **Signal ID:** 1
Instrument ID: K-LCMS-06

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Perfluorobutanoic acid (PFBA)	TRG	Average RF	% RSD	7.6	≤20	1.059	
Perfluoropentanoic acid (PFPeA)	TRG	Linear	R2	0.9909	≥0.99	5.194	
Perfluorobutane sulfonic acid (PFBS)	TRG	Average RF	% RSD	11.0	≤20	0.8783	
Perfluorohexanoic acid (PFHxA)	TRG	Linear	R2	0.9993	≥0.99	0.9937	
Perfluoroheptanoic acid (PFHpA)	TRG	Linear	R2	0.9942	≥0.99	1.046	
Perfluorohexane sulfonic acid (PFHxS)	TRG	Average RF	% RSD	13.6	≤20	1.219	
Perfluorooctanoic acid (PFOA)	TRG	Average RF	% RSD	12.1	≤20	1.119	
Perfluoroheptane sulfonic acid (PFHpS)	TRG	Quadratic	COD	0.9997	≥0.99	1.005	
Perfluorononanoic acid (PFNA)	TRG	Average RF	% RSD	6.2	≤20	0.8437	
Perfluorooctane sulfonic acid (PFOS)	TRG	Average RF	% RSD	6.6	≤20	0.7521	
Perfluorodecanoic acid (PFDA)	TRG	Average RF	% RSD	14.8	≤20	1.116	
Perfluoroundecanoic acid (PFUnDA)	TRG	Linear	R2	0.9996	≥0.99	1.275	
Perfluorooctane sulfonamide (FOSA)	TRG	Average RF	% RSD	5.1	≤20	1.463	
Perfluorododecanoic acid (PFDoDA)	TRG	Average RF	% RSD	10.0	≤20	0.5429	
Perfluorotridecanoic acid (PFTrDA)	TRG	Average RF	% RSD	14.8	≤20	1.013	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	TRG	Average RF	% RSD	8.6	≤20	1.637	
N-Methyl perfluorooctane sulfonamidoethanol	TRG	Average RF	% RSD	3.3	≤20	2.046	
Perfluorotetradecanoic acid (PFTeDA)	TRG	Linear	R2	0.9983	≥0.99	0.6399	
N-Ethyl perfluorooctane sulfonamidoethanol	TRG	Average RF	% RSD	13.6	≤20	2.349	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	TRG	Average RF	% RSD	12.4	≤20	0.2136	
13C4-PFBA	SURR	Average RF	% RSD	5.2	≤20	6.196	
13C2-PFHxA	SURR	Average RF	% RSD	8.0	≤20	8.276	
18O2-PFHxS	SURR	Average RF	% RSD	5.4	≤20	1.157	
13C2-6:2 FTS	SURR	Average RF	% RSD	7.7	≤20	0.7173	
13C4-PFOA	SURR	Average RF	% RSD	6.6	≤20	9.764	
13C5-PFNA	SURR	Average RF	% RSD	6.4	≤20	9.633	
13C4-PFOS	SURR	Average RF	% RSD	6.1	≤20	1.325	
13C2-PFDA	SURR	Average RF	% RSD	5.9	≤20	8.45	
13C2-PFUnDA	SURR	Average RF	% RSD	6.2	≤20	9.359	
13C2-PFDoDA	SURR	Average RF	% RSD	5.9	≤20	11.99	
D7-MeFOSE	SURR	Average RF	% RSD	5.2	≤20	1.01	

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/28/2017

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700134 **Signal ID:** 1
Instrument ID: K-LCMS-06

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
D9-EtFOSE	SURR	Average RF	% RSD	7.3	≤20	1.051	
D5-EtFOSA	SURR	Average RF	% RSD	5.8	≤20	1.354	
13C2-8:2 FTS	SURR	Average RF	% RSD	4.9	≤20	0.7034	
13C2-PFTeDA	SURR	Average RF	% RSD	5.6	≤20	8.203	
13C4-PFHpA	SURR	Average RF	% RSD	6.0	≤20	7.579	
13C5-PFPeA	SURR	Average RF	% RSD	5.8	≤20	2.776	
13C3-PFBS	SURR	Average RF	% RSD	6.6	≤20	1.794	
13C8-FOSA	SURR	Average RF	% RSD	6.0	≤20	3.321	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	TRG	Average RF	% RSD	13.2	≤20	1.013	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	TRG	Linear	R2	0.9974	≥0.99	1.266	
Perfluorodecane sulfonic acid (PFDS)	TRG	Average RF	% RSD	11.5	≤20	0.7858	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/17/2017

Initial Calibration Verification Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700121 **Signal ID:** 1
Instrument ID: K-LCMS-06

#	Lab Code	Sample Name	File Location	Aquisition Date
11	KC1700121-11	1 ppb ICV	071717_118	07/17/2017 15:26

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Perfluorobutanoic acid (PFBA)	1.00	0.830	1.287E0	1.069E0	-16.972	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	0.839	8.164E0	2.963E0	-16.101	±30	Linear
Perfluorobutane sulfonic acid (PFBS)	0.887	0.906	8.472E-1	8.651E-1	2.12	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	0.790	1.071E0	7.953E-1	-20.967	±30	Quadratic
Perfluoroheptanoic acid (PFHpA)	1.00	0.853	1.099E0	9.371E-1	-14.697	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.913	0.725	1.387E0	1.101E0	-20.620	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	0.808	1.264E0	1.021E0	-19.206	±30	Average RF
Perfluoroheptane sulfonic acid (PFHpS)	0.953	0.933	1.089E0	1.066E0	-2.157	±30	Average RF
Perfluorononanoic acid (PFNA)	1.00	0.785	1.102E0	8.652E-1	-21.468	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	0.897	8.11E-1	7.829E-1	-3.460	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	0.832	1.369E0	1.139E0	-16.801	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	0.791	1.154E0	9.126E-1	-20.897	±30	Average RF
Perfluorooctane sulfonamide (FOSA)	1.00	0.976	1.536E0	1.498E0	-2.423	±30	Average RF
Perfluorododecanoic acid (PFDoDA)	1.00	0.759	6.531E-1	4.957E-1	-24.101	±30	Average RF
Perfluorotridecanoic acid (PFTrDA)	1.00	0.849	9.948E-1	8.449E-1	-15.067	±30	Average RF
N-Methyl perfluorooctane sulfonamide (MeFOSA)	1.00	0.910	1.214E0	1.105E0	-9.002	±30	Average RF
N-Methyl perfluorooctane sulfonamidoethanol	1.00	0.864	1.757E0	1.518E0	-13.582	±30	Average RF
Perfluorotetradecanoic acid (PFTeDA)	1.00	0.769	1.429E0	4.568E-1	-23.104	±30	Linear
N-Ethyl perfluorooctane sulfonamidoethanol	1.00	0.886	1.569E0	1.391E0	-11.374	±30	Average RF
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	1.00	0.955	1.849E-1	1.766E-1	-4.475	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	0.845	9.641E-1	8.482E-1	-12.023	±30	Average RF
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	0.914	1.318E0	1.267E0	-3.856	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	0.917	9.57E-1	9.101E-1	-4.908	±30	Average RF
13C4-PFBA	5.00	5.04	5.599E0	5.647E0	0.849	±30	Average RF
13C2-PFHxA	5.00	5.44	7.86E0	8.557E0	8.87	±30	Average RF
18O2-PFHxS	5.00	4.81	1.164E0	1.12E0	-3.719	±30	Average RF
13C2-6:2 FTS	5.00	4.77	7.61E-1	7.257E-1	-4.639	±30	Average RF
13C4-PFOA	5.00	4.99	1.018E1	1.015E1	-0.244	±30	Average RF
13C5-PFNA	5.00	5.30	9.135E0	9.68E0	5.97	±30	Average RF
13C4-PFOS	5.00	5.00	1.27E0	1.27E0	-0.010	±30	Average RF
13C2-PFDA	5.00	5.08	7.543E0	7.671E0	1.70	±30	Average RF
13C2-PFUnDA	5.00	5.27	8.978E0	9.469E0	5.47	±30	Average RF
13C2-PFDoDA	5.00	5.25	1.137E1	1.195E1	5.05	±30	Average RF
D7-MeFOSE	5.00	5.36	1.312E0	1.406E0	7.24	±30	Average RF
D9-EtFOSE	5.00	5.37	1.582E0	1.698E0	7.34	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/17/2017

Initial Calibration Verification Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700121 **Signal ID:** 1
Instrument ID: K-LCMS-06

#	Lab Code	Sample Name	File Location	Aquisition Date
11	KC1700121-11	1 ppb ICV	071717_118	07/17/2017 15:26

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
D5-EtFOSA	5.00	5.35	1.351E0	1.445E0	6.95	±30	Average RF
13C2-8:2 FTS	5.00	5.13	6.857E-1	7.037E-1	2.63	±30	Average RF
13C2-PFTeDA	5.00	5.12	9.197E0	9.422E0	2.45	±30	Average RF
13C4-PFHpA	5.00	5.20	7.927E0	8.245E0	4.01	±30	Average RF
13C5-PFPeA	5.00	4.98	2.769E0	2.76E0	-0.328	±30	Average RF
13C3-PFBS	5.00	5.04	1.954E0	1.97E0	0.827	±30	Average RF
13C8-FOSA	5.00	5.18	3.451E0	3.577E0	3.67	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/17/2017

Initial Calibration Verification Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700129 **Signal ID:** 1
Instrument ID: K-LCMS-06

#	Lab Code	Sample Name	File Location	Aquisition Date
11	KC1700129-11	1 ppb ICV	071717_118	07/17/2017 15:26

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	0.866	6.613E-1	5.968E-1	-9.747	±30	Average RF
13C2-8:2 FTS	5.00	5.13	6.857E-1	7.037E-1	2.63	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/27/2017

Initial Calibration Verification Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700133 **Signal ID:** 1
Instrument ID: K-LCMS-06

#	Lab Code	Sample Name	File Location	Aquisition Date
11	KC1700133-11	1 ppb ICV	072717_118	07/27/2017 12:45

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Perfluorobutanoic acid (PFBA)	1.00	0.804	1.264E0	1.016E0	-19.624	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	0.797	5.71E0	2.665E0	-20.326	±30	Linear
Perfluorobutane sulfonic acid (PFBS)	0.887	0.704	9.506E-1	7.539E-1	-20.687	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	0.773	1.022E0	7.9E-1	-22.703	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	1.00	0.778	1.322E0	8.486E-1	-22.212	±30	Linear
Perfluorohexane sulfonic acid (PFHxS)	0.913	0.817	1.495E0	1.337E0	-10.569	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	0.788	1.338E0	1.054E0	-21.247	±30	Average RF
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.02	9.68E-1	1.038E0	7.22	±30	Average RF
Perfluorononanoic acid (PFNA)	1.00	0.849	1.048E0	8.897E-1	-15.074	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	0.860	7.962E-1	7.372E-1	-7.408	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	0.801	1.355E0	1.085E0	-19.902	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	0.786	1.139E0	8.947E-1	-21.449	±30	Average RF
Perfluorooctane sulfonamide (FOSA)	1.00	1.02	1.461E0	1.484E0	1.54	±30	Average RF
Perfluorododecanoic acid (PFDoDA)	1.00	0.783	6.757E-1	5.29E-1	-21.704	±30	Average RF
Perfluorotridecanoic acid (PFTrDA)	1.00	0.763	1.094E0	8.346E-1	-23.686	±30	Average RF
N-Methyl perfluorooctane sulfonamide (MeFOSA)	1.00	0.900	1.634E0	1.47E0	-10.046	±30	Average RF
N-Methyl perfluorooctane sulfonamidoethanol	1.00	0.867	2.112E0	1.832E0	-13.287	±30	Average RF
Perfluorotetradecanoic acid (PFTeDA)	1.00	0.813	8.622E-1	4.483E-1	-18.732	±30	Linear
N-Ethyl perfluorooctane sulfonamidoethanol	1.00	0.852	2.026E0	1.726E0	-14.816	±30	Average RF
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	1.00	0.938	1.9E-1	1.783E-1	-6.189	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	0.874	1.036E0	9.43E-1	-8.950	±30	Average RF
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	0.841	1.263E0	1.117E0	-11.549	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	0.905	9.177E-1	8.606E-1	-6.218	±30	Average RF
13C4-PFBA	5.00	4.85	6.773E0	6.568E0	-3.027	±30	Average RF
13C2-PFHxA	5.00	4.65	9.013E0	8.387E0	-6.944	±30	Average RF
18O2-PFHxS	5.00	4.90	1.219E0	1.194E0	-2.079	±30	Average RF
13C2-6:2 FTS	5.00	5.22	1.304E0	1.361E0	4.41	±30	Average RF
13C4-PFOA	5.00	5.10	1.048E1	1.068E1	1.92	±30	Average RF
13C5-PFNA	5.00	4.89	9.603E0	9.388E0	-2.239	±30	Average RF
13C4-PFOS	5.00	4.96	1.333E0	1.324E0	-0.703	±30	Average RF
13C2-PFDA	5.00	4.98	8.241E0	8.201E0	-0.485	±30	Average RF
13C2-PFUnDA	5.00	4.95	9.261E0	9.167E0	-1.009	±30	Average RF
13C2-PFDoDA	5.00	5.02	1.156E1	1.161E1	0.474	±30	Average RF
D7-MeFOSE	5.00	5.10	9.921E-1	1.012E0	1.97	±30	Average RF
D9-EtFOSE	5.00	5.25	1.168E0	1.227E0	5.04	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/27/2017

Initial Calibration Verification Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700133 **Signal ID:** 1
Instrument ID: K-LCMS-06

#	Lab Code	Sample Name	File Location	Aquisition Date
11	KC1700133-11	1 ppb ICV	072717_118	07/27/2017 12:45

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
D5-EtFOSA	5.00	5.11	1.373E0	1.404E0	2.21	±30	Average RF
13C2-8:2 FTS	5.00	4.56	1.202E0	1.097E0	-8.769	±30	Average RF
13C2-PFTeDA	5.00	4.98	9.146E0	9.117E0	-0.313	±30	Average RF
13C4-PFHpA	5.00	4.97	9.14E0	9.089E0	-0.558	±30	Average RF
13C5-PFPeA	5.00	4.86	3.29E0	3.197E0	-2.817	±30	Average RF
13C3-PFBS	5.00	4.83	2.073E0	2.004E0	-3.304	±30	Average RF
13C8-FOSA	5.00	4.94	3.478E0	3.438E0	-1.146	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/28/2017

Initial Calibration Verification Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700134 **Signal ID:** 1
Instrument ID: K-LCMS-06

#	Lab Code	Sample Name	File Location	Aquisition Date
11	KC1700134-11	1 ppb ICV	072817_118	07/28/2017 11:46

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Perfluorobutanoic acid (PFBA)	1.00	0.955	1.059E0	1.012E0	-4.482	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	0.989	5.194E0	2.924E0	-1.136	±30	Linear
Perfluorobutane sulfonic acid (PFBS)	0.887	0.941	8.783E-1	9.319E-1	6.10	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	0.971	9.937E-1	8.135E-1	-2.870	±30	Linear
Perfluoroheptanoic acid (PFHpA)	1.00	1.04	1.046E0	1.016E0	3.68	±30	Linear
Perfluorohexane sulfonic acid (PFHxS)	0.913	0.833	1.219E0	1.111E0	-8.787	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	0.894	1.119E0	1.001E0	-10.567	±30	Average RF
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.03	1.005E0	9.554E-1	7.93	±30	Quadratic
Perfluorononanoic acid (PFNA)	1.00	1.01	8.437E-1	8.483E-1	0.538	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	0.878	7.521E-1	7.11E-1	-5.467	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	0.902	1.116E0	1.006E0	-9.803	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	0.985	1.275E0	8.705E-1	-1.464	±30	Linear
Perfluorooctane sulfonamide (FOSA)	1.00	1.12	1.463E0	1.631E0	11.50	±30	Average RF
Perfluorododecanoic acid (PFDoDA)	1.00	0.929	5.429E-1	5.045E-1	-7.073	±30	Average RF
Perfluorotridecanoic acid (PFTrDA)	1.00	0.872	1.013E0	8.831E-1	-12.788	±30	Average RF
N-Methyl perfluorooctane sulfonamide (MeFOSA)	1.00	0.901	1.637E0	1.475E0	-9.860	±30	Average RF
N-Methyl perfluorooctane sulfonamidoethanol	1.00	0.964	2.046E0	1.972E0	-3.623	±30	Average RF
Perfluorotetradecanoic acid (PFTeDA)	1.00	1.06	6.399E-1	5.09E-1	6.11	±30	Linear
N-Ethyl perfluorooctane sulfonamidoethanol	1.00	0.890	2.349E0	2.09E0	-11.041	±30	Average RF
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	1.00	0.844	2.136E-1	1.801E-1	-15.641	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	0.881	1.013E0	9.298E-1	-8.185	±30	Average RF
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	1.12	1.266E0	1.357E0	18.01	±30	Linear
Perfluorodecane sulfonic acid (PFDS)	0.965	1.02	7.858E-1	8.347E-1	6.22	±30	Average RF
13C4-PFBA	5.00	4.97	6.196E0	6.161E0	-0.562	±30	Average RF
13C2-PFHxA	5.00	4.92	8.276E0	8.144E0	-1.602	±30	Average RF
18O2-PFHxS	5.00	4.82	1.157E0	1.116E0	-3.552	±30	Average RF
13C2-6:2 FTS	5.00	4.37	7.173E-1	6.272E-1	-12.562	±30	Average RF
13C4-PFOA	5.00	4.98	9.764E0	9.72E0	-0.456	±30	Average RF
13C5-PFNA	5.00	5.03	9.633E0	9.691E0	0.610	±30	Average RF
13C4-PFOS	5.00	4.85	1.325E0	1.285E0	-3.010	±30	Average RF
13C2-PFDA	5.00	5.14	8.45E0	8.688E0	2.82	±30	Average RF
13C2-PFUnDA	5.00	5.30	9.359E0	9.925E0	6.05	±30	Average RF
13C2-PFDoDA	5.00	5.06	1.199E1	1.213E1	1.16	±30	Average RF
D7-MeFOSE	5.00	5.27	1.01E0	1.063E0	5.34	±30	Average RF
D9-EtFOSE	5.00	5.23	1.051E0	1.099E0	4.58	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:** K1707681
Project: City of Galveston **Calibration Date:** 7/28/2017

Initial Calibration Verification Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1700134 **Signal ID:** 1
Instrument ID: K-LCMS-06

#	Lab Code	Sample Name	File Location	Aquisition Date
11	KC1700134-11	1 ppb ICV	072817_118	07/28/2017 11:46

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
D5-EtFOSA	5.00	5.07	1.354E0	1.372E0	1.36	±30	Average RF
13C2-8:2 FTS	5.00	5.07	7.034E-1	7.133E-1	1.41	±30	Average RF
13C2-PFTeDA	5.00	5.24	8.203E0	8.601E0	4.86	±30	Average RF
13C4-PFHpA	5.00	5.31	7.579E0	8.051E0	6.23	±30	Average RF
13C5-PFPeA	5.00	4.93	2.776E0	2.737E0	-1.398	±30	Average RF
13C3-PFBS	5.00	4.91	1.794E0	1.763E0	-1.704	±30	Average RF
13C8-FOSA	5.00	4.96	3.321E0	3.294E0	-0.820	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Analyzed:**	07/24/17 15:42

Continuing Calibration Verification (CCV) Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method:	PFC/537M	**Calibration Date:**	7/17/2017
File ID:	J:\LCMS06\Data\072417_b1\072417_106	**Calibration ID:**	KC1700121
		Analysis Lot:	554762
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Perfluorobutanoic acid (PFBA)	1.00	0.936	1.2869	1.2041	-6.4	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	0.883	8.1645	3.1064	NA	-11.7	±30	Linear
Perfluorobutane sulfonic acid (PFBS)	0.887	0.849	0.8472	0.8102	-4.4	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	1.15	1.0706	1.1455	NA	15.3	±30	Quadratic
Perfluoroheptanoic acid (PFHpA)	1.00	1.05	1.0985	1.1491	4.6	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.913	0.742	1.3875	1.1269	-18.8	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	0.744	1.2639	0.9406	-25.6	NA	±30	Average RF
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.26	1.0894	1.439	32.1*	NA	±30	Average RF
Perfluorononanoic acid (PFNA)	1.00	0.818	1.1017	0.9009	-18.2	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	0.682	0.811	0.5951	-26.6	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	0.751	1.3694	1.0277	-24.9	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	0.749	1.1536	0.8638	-25.1	NA	±30	Average RF
Perfluorooctane sulfonamide (FOSA)	1.00	0.991	1.5356	1.5212	-0.9	NA	±30	Average RF
Perfluorododecanoic acid (PFDoDA)	1.00	1.01	0.6531	0.6579	0.7	NA	±30	Average RF
Perfluorotridecanoic acid (PFTrDA)	1.00	0.895	0.9948	0.8906	-10.5	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamide (MeFOSA)	1.00	0.880	1.2141	1.0688	-12.0	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamidoethanol	1.00	0.957	1.7569	1.681	-4.3	NA	±30	Average RF
Perfluorotetradecanoic acid (PFTeDA)	1.00	1.04	1.429	0.6022	NA	4.2	±30	Linear
N-Ethyl perfluorooctane sulfonamidoethanol	1.00	0.923	1.5691	1.4485	-7.7	NA	±30	Average RF
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	1.00	0.901	0.1849	0.1666	-9.9	NA	±30	Average RF
13C4-PFBA	5.00	4.60	5.599	5.1517	-8.0	NA	±30	Average RF
13C2-PFHxA	5.00	4.88	7.86	7.6659	-2.5	NA	±30	Average RF
18O2-PFHxS	5.00	4.42	1.1636	1.0293	-11.5	NA	±30	Average RF
13C2-6:2 FTS	5.00	5.41	0.761	0.8234	8.2	NA	±30	Average RF
13C4-PFOA	5.00	5.42	10.1781	11.0291	8.4	NA	±30	Average RF
13C5-PFNA	5.00	5.03	9.135	9.1808	0.5	NA	±30	Average RF
13C4-PFOS	5.00	5.17	1.2703	1.3133	3.4	NA	±30	Average RF
13C2-PFDA	5.00	5.13	7.5427	7.7348	2.5	NA	±30	Average RF
13C2-PFUnDA	5.00	5.44	8.9783	9.7683	8.8	NA	±30	Average RF
13C2-PFDoDA	5.00	5.33	11.3721	12.1194	6.6	NA	±30	Average RF
D7-MeFOSE	5.00	4.70	1.3115	1.2336	-5.9	NA	±30	Average RF
D9-EtFOSE	5.00	4.61	1.5817	1.4585	-7.8	NA	±30	Average RF
D5-EtFOSA	5.00	4.62	1.3513	1.2485	-7.6	NA	±30	Average RF
13C2-8:2 FTS	5.00	5.07	0.6857	0.695	1.4	NA	±30	Average RF
13C2-PFTeDA	5.00	5.15	9.1967	9.4766	3.0	NA	±30	Average RF
13C4-PFHpA	5.00	4.54	7.9267	7.2024	-9.1	NA	±30	Average RF
13C5-PFPeA	5.00	4.65	2.7686	2.5725	-7.1	NA	±30	Average RF

Client: AECOM/URS Corporation
Project: City of Galveston

Service Request: K1707681
Date Analyzed: 07/24/17 15:42

Continuing Calibration Verification (CCV) Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
File ID: J:\LCMS06\Data\072417_b1\072417_106

Calibration Date: 7/17/2017
Calibration ID: KC1700121
Analysis Lot: 554762
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
13C3-PFBS	5.00	5.12	1.9535	1.9992	2.3	NA	±30	Average RF
13C8-FOSA	5.00	4.51	3.4509	3.1097	-9.9	NA	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	0.993	0.9641	0.9974	3.5	NA	±30	Average RF
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	0.926	1.3181	1.2833	-2.6	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	1.03	0.957	1.0175	6.3	NA	±30	Average RF

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Analyzed:**	07/24/17 15:42

Continuing Calibration Verification (CCV) Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method:	PFC/537M	**Calibration Date:**	7/17/2017
File ID:	J:\LCMS06\Data\072417_b1_IS\072417_106	**Calibration ID:**	KC1700129
		Analysis Lot:	554813
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
13C2-8:2 FTS	5.00	5.07	0.6857	0.695	1.4	NA	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	0.993	0.6613	0.6932	4.8	NA	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Analyzed:**	07/26/17 12:01

Continuing Calibration Verification (CCV) Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method:	PFC/537M	**Calibration Date:**	7/17/2017
File ID:	J:\LCMS06\Data\072617_b2\072617_117	**Calibration ID:**	KC1700121
		Analysis Lot:	555050
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Perfluorobutanoic acid (PFBA)	1.00	0.866	1.2869	1.1139	-13.4	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	0.845	8.1645	2.9822	NA	-15.5	±30	Linear
Perfluorobutane sulfonic acid (PFBS)	0.887	0.947	0.8472	0.9037	6.7	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	0.855	1.0706	0.8573	NA	-14.6	±30	Quadratic
Perfluoroheptanoic acid (PFHpA)	1.00	0.873	1.0985	0.9585	-12.7	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.913	0.770	1.3875	1.17	-15.7	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	0.921	1.2639	1.1634	-8.0	NA	±30	Average RF
Perfluoroheptane sulfonic acid (PFHpS)	0.953	0.930	1.0894	1.0628	-2.4	NA	±30	Average RF
Perfluorononanoic acid (PFNA)	1.00	0.899	1.1017	0.9899	-10.2	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	0.809	0.811	0.706	-12.9	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	0.861	1.3694	1.179	-13.9	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	0.794	1.1536	0.9163	-20.6	NA	±30	Average RF
Perfluorooctane sulfonamide (FOSA)	1.00	0.863	1.5356	1.325	-13.7	NA	±30	Average RF
Perfluorododecanoic acid (PFDoDA)	1.00	0.908	0.6531	0.5927	-9.2	NA	±30	Average RF
Perfluorotridecanoic acid (PFTrDA)	1.00	0.969	0.9948	0.9635	-3.1	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamide (MeFOSA)	1.00	0.964	1.2141	1.1701	-3.6	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamidoethanol	1.00	1.07	1.7569	1.8836	7.2	NA	±30	Average RF
Perfluorotetradecanoic acid (PFTeDA)	1.00	0.915	1.429	0.5347	NA	-8.5	±30	Linear
N-Ethyl perfluorooctane sulfonamidoethanol	1.00	1.04	1.5691	1.6257	3.6	NA	±30	Average RF
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	1.00	0.881	0.1849	0.1628	-11.9	NA	±30	Average RF
13C4-PFBA	5.00	6.00	5.599	6.7228	20.1	NA	±30	Average RF
13C2-PFHxA	5.00	5.42	7.86	8.5243	8.5	NA	±30	Average RF
18O2-PFHxS	5.00	5.24	1.1636	1.2194	4.8	NA	±30	Average RF
13C2-6:2 FTS	5.00	9.25	0.761	1.4076	85.0*	NA	±30	Average RF
13C4-PFOA	5.00	5.42	10.1781	11.0361	8.4	NA	±30	Average RF
13C5-PFNA	5.00	5.28	9.135	9.644	5.6	NA	±30	Average RF
13C4-PFOS	5.00	5.21	1.2703	1.3225	4.1	NA	±30	Average RF
13C2-PFDA	5.00	5.60	7.5427	8.4528	12.1	NA	±30	Average RF
13C2-PFUnDA	5.00	5.49	8.9783	9.8589	9.8	NA	±30	Average RF
13C2-PFDoDA	5.00	5.32	11.3721	12.1027	6.4	NA	±30	Average RF
D7-MeFOSE	5.00	4.28	1.3115	1.1235	-14.3	NA	±30	Average RF
D9-EtFOSE	5.00	4.37	1.5817	1.3833	-12.5	NA	±30	Average RF
D5-EtFOSA	5.00	5.03	1.3513	1.3587	0.5	NA	±30	Average RF
13C2-8:2 FTS	5.00	8.47	0.6857	1.1615	69.4*	NA	±30	Average RF
13C2-PFTeDA	5.00	5.10	9.1967	9.3848	2.0	NA	±30	Average RF
13C4-PFHpA	5.00	5.36	7.9267	8.501	7.2	NA	±30	Average RF
13C5-PFPeA	5.00	5.63	2.7686	3.1154	12.5	NA	±30	Average RF

Client: AECOM/URS Corporation
Project: City of Galveston

Service Request: K1707681
Date Analyzed: 07/26/17 12:01

Continuing Calibration Verification (CCV) Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
File ID: J:\LCMS06\Data\072617_b2\072617_117

Calibration Date: 7/17/2017
Calibration ID: KC1700121
Analysis Lot: 555050
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
13C3-PFBS	5.00	5.25	1.9535	2.0498	4.9	NA	±30	Average RF
13C8-FOSA	5.00	5.14	3.4509	3.548	2.8	NA	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	0.995	0.9641	0.9995	3.7	NA	±30	Average RF
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	0.856	1.3181	1.1868	-10.0	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	0.861	0.957	0.8546	-10.7	NA	±30	Average RF

Client: AECOM/URS Corporation
Project: City of Galveston

Service Request: K1707681
Date Analyzed: 07/27/17 12:45

Continuing Calibration Verification (CCV) Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
File ID: J:\LCMS06\Data\072717_b1\072717_118

Calibration Date: 7/27/2017
Calibration ID: KC1700133
Analysis Lot: 555244
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Perfluorobutanoic acid (PFBA)	1.00	0.804	1.2639	1.0159	-19.6	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	0.797	5.7105	2.6647	NA	-20.3	±30	Linear
Perfluorobutane sulfonic acid (PFBS)	0.887	0.704	0.9506	0.7539	-20.7	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	0.773	1.022	0.79	-22.7	NA	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	1.00	0.778	1.322	0.8486	NA	-22.2	±30	Linear
Perfluorohexane sulfonic acid (PFHxS)	0.913	0.817	1.4947	1.3368	-10.6	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	0.788	1.3378	1.0536	-21.2	NA	±30	Average RF
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.02	0.968	1.038	7.2	NA	±30	Average RF
Perfluorononanoic acid (PFNA)	1.00	0.849	1.0476	0.8897	-15.1	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	0.860	0.7962	0.7372	-7.4	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	0.801	1.3546	1.085	-19.9	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	0.786	1.139	0.8947	-21.4	NA	±30	Average RF
Perfluorooctane sulfonamide (FOSA)	1.00	1.02	1.4614	1.4838	1.5	NA	±30	Average RF
Perfluorododecanoic acid (PFDoDA)	1.00	0.783	0.6757	0.529	-21.7	NA	±30	Average RF
Perfluorotridecanoic acid (PFTrDA)	1.00	0.763	1.0936	0.8346	-23.7	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamide (MeFOSA)	1.00	0.900	1.6343	1.4702	-10.0	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamidoethanol	1.00	0.867	2.1123	1.8316	-13.3	NA	±30	Average RF
Perfluorotetradecanoic acid (PFTeDA)	1.00	0.813	0.8622	0.4483	NA	-18.7	±30	Linear
N-Ethyl perfluorooctane sulfonamidoethanol	1.00	0.852	2.0262	1.726	-14.8	NA	±30	Average RF
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	1.00	0.938	0.19	0.1783	-6.2	NA	±30	Average RF
13C4-PFBA	5.00	4.85	6.7731	6.5681	-3.0	NA	±30	Average RF
13C2-PFHxA	5.00	4.65	9.0127	8.3868	-6.9	NA	±30	Average RF
18O2-PFHxS	5.00	4.90	1.2191	1.1938	-2.1	NA	±30	Average RF
13C2-6:2 FTS	5.00	5.22	1.3036	1.3611	4.4	NA	±30	Average RF
13C4-PFOA	5.00	5.10	10.4776	10.6789	1.9	NA	±30	Average RF
13C5-PFNA	5.00	4.89	9.603	9.388	-2.2	NA	±30	Average RF
13C4-PFOS	5.00	4.96	1.3331	1.3237	-0.7	NA	±30	Average RF
13C2-PFDA	5.00	4.98	8.2413	8.2014	-0.5	NA	±30	Average RF
13C2-PFUnDA	5.00	4.95	9.2608	9.1674	-1.0	NA	±30	Average RF
13C2-PFDoDA	5.00	5.02	11.5564	11.6112	0.5	NA	±30	Average RF
D7-MeFOSE	5.00	5.10	0.9921	1.0116	2.0	NA	±30	Average RF
D9-EtFOSE	5.00	5.25	1.1685	1.2273	5.0	NA	±30	Average RF
D5-EtFOSA	5.00	5.11	1.3735	1.4038	2.2	NA	±30	Average RF
13C2-8:2 FTS	5.00	4.56	1.2024	1.097	-8.8	NA	±30	Average RF
13C2-PFTeDA	5.00	4.98	9.1458	9.1172	-0.3	NA	±30	Average RF
13C4-PFHpA	5.00	4.97	9.14	9.0891	-0.6	NA	±30	Average RF
13C5-PFPeA	5.00	4.86	3.2901	3.1974	-2.8	NA	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Analyzed:**	07/27/17 12:45

Continuing Calibration Verification (CCV) Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method:	PFC/537M	**Calibration Date:**	7/27/2017
File ID:	J:\LCMS06\Data\072717_b1\072717_118	**Calibration ID:**	KC1700133
		Analysis Lot:	555244
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
13C3-PFBS	5.00	4.83	2.0726	2.0041	-3.3	NA	±30	Average RF
13C8-FOSA	5.00	4.94	3.478	3.4382	-1.1	NA	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	0.874	1.0357	0.943	-9.0	NA	±30	Average RF
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	0.841	1.2634	1.1175	-11.5	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	0.905	0.9177	0.8606	-6.2	NA	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Analyzed:**	07/26/17 14:07

Continuing Calibration Verification (CCV) Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method:	PFC/537M	**Calibration Date:**	7/17/2017
File ID:	J:\LCMS06\Data\072617_b3\072617_129	**Calibration ID:**	KC1700121
		Analysis Lot:	555060
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Perfluorobutanoic acid (PFBA)	1.00	0.866	1.2869	1.115	-13.4	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	0.826	8.1645	2.9224	NA	-17.4	±30	Linear
Perfluorobutane sulfonic acid (PFBS)	0.887	1.00	0.8472	0.9554	12.8	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	0.858	1.0706	0.8607	NA	-14.2	±30	Quadratic
Perfluoroheptanoic acid (PFHpA)	1.00	0.916	1.0985	1.0063	-8.4	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.913	0.783	1.3875	1.1892	-14.3	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	0.903	1.2639	1.1418	-9.7	NA	±30	Average RF
Perfluoroheptane sulfonic acid (PFHpS)	0.953	0.845	1.0894	0.9654	-11.4	NA	±30	Average RF
Perfluorononanoic acid (PFNA)	1.00	0.901	1.1017	0.9921	-10.0	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	0.752	0.811	0.6561	-19.1	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	0.794	1.3694	1.0874	-20.6	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	0.764	1.1536	0.8811	-23.6	NA	±30	Average RF
Perfluorooctane sulfonamide (FOSA)	1.00	0.873	1.5356	1.3401	-12.7	NA	±30	Average RF
Perfluorododecanoic acid (PFDoDA)	1.00	0.898	0.6531	0.5862	-10.2	NA	±30	Average RF
Perfluorotridecanoic acid (PFTrDA)	1.00	0.992	0.9948	0.9868	-0.8	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamide (MeFOSA)	1.00	1.01	1.2141	1.2255	0.9	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamidoethanol	1.00	1.09	1.7569	1.912	8.8	NA	±30	Average RF
Perfluorotetradecanoic acid (PFTeDA)	1.00	0.842	1.429	0.4956	NA	-15.8	±30	Linear
N-Ethyl perfluorooctane sulfonamidoethanol	1.00	1.01	1.5691	1.5884	1.2	NA	±30	Average RF
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	1.00	0.894	0.1849	0.1653	-10.6	NA	±30	Average RF
13C4-PFBA	5.00	5.64	5.599	6.3142	12.8	NA	±30	Average RF
13C2-PFHxA	5.00	5.10	7.86	8.0103	1.9	NA	±30	Average RF
18O2-PFHxS	5.00	5.04	1.1636	1.1737	0.9	NA	±30	Average RF
13C2-6:2 FTS	5.00	8.88	0.761	1.3519	77.6*	NA	±30	Average RF
13C4-PFOA	5.00	5.22	10.1781	10.6186	4.3	NA	±30	Average RF
13C5-PFNA	5.00	4.93	9.135	9.0102	-1.4	NA	±30	Average RF
13C4-PFOS	5.00	5.15	1.2703	1.3094	3.1	NA	±30	Average RF
13C2-PFDA	5.00	5.40	7.5427	8.1395	7.9	NA	±30	Average RF
13C2-PFUnDA	5.00	5.21	8.9783	9.353	4.2	NA	±30	Average RF
13C2-PFDoDA	5.00	4.99	11.3721	11.345	-0.2	NA	±30	Average RF
D7-MeFOSE	5.00	3.97	1.3115	1.0418	-20.6	NA	±30	Average RF
D9-EtFOSE	5.00	4.14	1.5817	1.3108	-17.1	NA	±30	Average RF
D5-EtFOSA	5.00	4.83	1.3513	1.3049	-3.4	NA	±30	Average RF
13C2-8:2 FTS	5.00	8.50	0.6857	1.1658	70.0*	NA	±30	Average RF
13C2-PFTeDA	5.00	4.80	9.1967	8.8231	-4.1	NA	±30	Average RF
13C4-PFHpA	5.00	4.95	7.9267	7.8457	-1.0	NA	±30	Average RF
13C5-PFPeA	5.00	5.30	2.7686	2.9327	5.9	NA	±30	Average RF

Client: AECOM/URS Corporation
Project: City of Galveston

Service Request: K1707681
Date Analyzed: 07/26/17 14:07

Continuing Calibration Verification (CCV) Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
File ID: J:\LCMS06\Data\072617_b3\072617_129

Calibration Date: 7/17/2017
Calibration ID: KC1700121
Analysis Lot: 555060
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
13C3-PFBS	5.00	4.74	1.9535	1.8503	-5.3	NA	±30	Average RF
13C8-FOSA	5.00	4.65	3.4509	3.2125	-6.9	NA	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	0.917	0.9641	0.9209	-4.5	NA	±30	Average RF
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	0.851	1.3181	1.1788	-10.6	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	0.905	0.957	0.8982	-6.1	NA	±30	Average RF

Client: AECOM/URS Corporation
Project: City of Galveston

Service Request: K1707681
Date Analyzed: 07/28/17 11:46

Continuing Calibration Verification (CCV) Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
File ID: J:\LCMS06\Data\072817_b1\072817_118

Calibration Date: 7/28/2017
Calibration ID: KC1700134
Analysis Lot: 555465
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Perfluorobutanoic acid (PFBA)	1.00	0.955	1.0594	1.0119	-4.5	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	0.989	5.1944	2.9241	NA	-1.1	±30	Linear
Perfluorobutane sulfonic acid (PFBS)	0.887	0.942	0.8783	0.9319	6.1	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	0.971	0.9937	0.8135	NA	-2.9	±30	Linear
Perfluoroheptanoic acid (PFHpA)	1.00	1.04	1.0461	1.0164	NA	3.7	±30	Linear
Perfluorohexane sulfonic acid (PFHxS)	0.913	0.833	1.2185	1.1114	-8.8	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	0.894	1.1189	1.0007	-10.6	NA	±30	Average RF
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.03	1.005	0.9554	NA	7.9	±30	Quadratic
Perfluorononanoic acid (PFNA)	1.00	1.01	0.8437	0.8483	0.5	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	0.879	0.7521	0.711	-5.5	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	0.902	1.1155	1.0062	-9.8	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	0.985	1.2746	0.8705	NA	-1.5	±30	Linear
Perfluorooctane sulfonamide (FOSA)	1.00	1.12	1.4631	1.6314	11.5	NA	±30	Average RF
Perfluorododecanoic acid (PFDoDA)	1.00	0.929	0.5429	0.5045	-7.1	NA	±30	Average RF
Perfluorotridecanoic acid (PFTrDA)	1.00	0.872	1.0126	0.8831	-12.8	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamide (MeFOSA)	1.00	0.901	1.6365	1.4752	-9.9	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamidoethanol	1.00	0.964	2.0461	1.972	-3.6	NA	±30	Average RF
Perfluorotetradecanoic acid (PFTeDA)	1.00	1.06	0.6399	0.509	NA	6.1	±30	Linear
N-Ethyl perfluorooctane sulfonamidoethanol	1.00	0.890	2.3491	2.0898	-11.0	NA	±30	Average RF
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	1.00	0.844	0.2136	0.1801	-15.6	NA	±30	Average RF
13C4-PFBA	5.00	4.97	6.1962	6.1614	-0.6	NA	±30	Average RF
13C2-PFHxA	5.00	4.92	8.2763	8.1437	-1.6	NA	±30	Average RF
18O2-PFHxS	5.00	4.82	1.1575	1.1164	-3.6	NA	±30	Average RF
13C2-6:2 FTS	5.00	4.37	0.7173	0.6272	-12.6	NA	±30	Average RF
13C4-PFOA	5.00	4.98	9.7642	9.7196	-0.5	NA	±30	Average RF
13C5-PFNA	5.00	5.03	9.6325	9.6913	0.6	NA	±30	Average RF
13C4-PFOS	5.00	4.85	1.3246	1.2847	-3.0	NA	±30	Average RF
13C2-PFDA	5.00	5.14	8.4504	8.6883	2.8	NA	±30	Average RF
13C2-PFUnDA	5.00	5.30	9.359	9.9253	6.1	NA	±30	Average RF
13C2-PFDoDA	5.00	5.06	11.9875	12.1259	1.2	NA	±30	Average RF
D7-MeFOSE	5.00	5.27	1.0095	1.0634	5.3	NA	±30	Average RF
D9-EtFOSE	5.00	5.23	1.0506	1.0987	4.6	NA	±30	Average RF
D5-EtFOSA	5.00	5.07	1.3538	1.3723	1.4	NA	±30	Average RF
13C2-8:2 FTS	5.00	5.07	0.7034	0.7133	1.4	NA	±30	Average RF
13C2-PFTeDA	5.00	5.24	8.203	8.6014	4.9	NA	±30	Average RF
13C4-PFHpA	5.00	5.31	7.5792	8.0514	6.2	NA	±30	Average RF
13C5-PFPeA	5.00	4.93	2.7762	2.7374	-1.4	NA	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Analyzed:**	07/28/17 11:46

Continuing Calibration Verification (CCV) Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method:	PFC/537M	**Calibration Date:**	7/28/2017
File ID:	J:\LCMS06\Data\072817_b1\072817_118	**Calibration ID:**	KC1700134
		Analysis Lot:	555465
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
13C3-PFBS	5.00	4.91	1.7937	1.7631	-1.7	NA	±30	Average RF
13C8-FOSA	5.00	4.96	3.321	3.2938	-0.8	NA	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	0.882	1.0127	0.9298	-8.2	NA	±30	Average RF
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	1.12	1.2663	1.3565	NA	18.0	±30	Linear
Perfluorodecane sulfonic acid (PFDS)	0.965	1.02	0.7858	0.8347	6.2	NA	±30	Average RF

Client: AECOM/URS Corporation
Project: City of Galveston

Service Request: K1707681
Date Analyzed: 07/28/17 13:41

Continuing Calibration Verification (CCV) Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
File ID: J:\LCMS06\Data\072817_b2\072817_129

Calibration Date: 7/28/2017
Calibration ID: KC1700134
Analysis Lot: 555466
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Perfluorobutanoic acid (PFBA)	1.00	1.05	1.0594	1.115	5.2	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	1.08	5.1944	3.1736	NA	8.1	±30	Linear
Perfluorobutane sulfonic acid (PFBS)	0.887	0.994	0.8783	0.9839	12.0	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	1.10	0.9937	0.9155	NA	9.6	±30	Linear
Perfluoroheptanoic acid (PFHpA)	1.00	1.09	1.0461	1.0675	NA	9.1	±30	Linear
Perfluorohexane sulfonic acid (PFHxS)	0.913	0.927	1.2185	1.2368	1.5	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	0.943	1.1189	1.0552	-5.7	NA	±30	Average RF
Perfluoroheptane sulfonic acid (PFHpS)	0.953	0.820	1.005	0.7639	NA	-14.0	±30	Quadratic
Perfluorononanoic acid (PFNA)	1.00	1.16	0.8437	0.9785	16.0	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	0.933	0.7521	0.755	0.4	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	0.928	1.1155	1.035	-7.2	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	1.06	1.2746	0.9338	NA	5.9	±30	Linear
Perfluorooctane sulfonamide (FOSA)	1.00	1.07	1.4631	1.5691	7.2	NA	±30	Average RF
Perfluorododecanoic acid (PFDoDA)	1.00	1.03	0.5429	0.5612	3.4	NA	±30	Average RF
Perfluorotridecanoic acid (PFTrDA)	1.00	1.02	1.0126	1.0311	1.8	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamide (MeFOSA)	1.00	0.948	1.6365	1.5509	-5.2	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamidoethanol	1.00	1.03	2.0461	2.1087	3.1	NA	±30	Average RF
Perfluorotetradecanoic acid (PFTeDA)	1.00	1.08	0.6399	0.5187	NA	8.3	±30	Linear
N-Ethyl perfluorooctane sulfonamidoethanol	1.00	0.992	2.3491	2.3299	-0.8	NA	±30	Average RF
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	1.00	0.969	0.2136	0.207	-3.1	NA	±30	Average RF
13C4-PFBA	5.00	4.50	6.1962	5.5769	-10.0	NA	±30	Average RF
13C2-PFHxA	5.00	4.56	8.2763	7.5459	-8.8	NA	±30	Average RF
18O2-PFHxS	5.00	4.77	1.1575	1.1042	-4.6	NA	±30	Average RF
13C2-6:2 FTS	5.00	4.35	0.7173	0.6236	-13.1	NA	±30	Average RF
13C4-PFOA	5.00	4.73	9.7642	9.2422	-5.3	NA	±30	Average RF
13C5-PFNA	5.00	4.61	9.6325	8.8797	-7.8	NA	±30	Average RF
13C4-PFOS	5.00	4.73	1.3246	1.2542	-5.3	NA	±30	Average RF
13C2-PFDA	5.00	4.70	8.4504	7.9499	-5.9	NA	±30	Average RF
13C2-PFUnDA	5.00	4.72	9.359	8.8402	-5.5	NA	±30	Average RF
13C2-PFDoDA	5.00	4.68	11.9875	11.2091	-6.5	NA	±30	Average RF
D7-MeFOSE	5.00	4.88	1.0095	0.9855	-2.4	NA	±30	Average RF
D9-EtFOSE	5.00	4.88	1.0506	1.0263	-2.3	NA	±30	Average RF
D5-EtFOSA	5.00	4.69	1.3538	1.2709	-6.1	NA	±30	Average RF
13C2-8:2 FTS	5.00	4.54	0.7034	0.6382	-9.3	NA	±30	Average RF
13C2-PFTeDA	5.00	4.75	8.203	7.7948	-5.0	NA	±30	Average RF
13C4-PFHpA	5.00	4.51	7.5792	6.8366	-9.8	NA	±30	Average RF
13C5-PFPeA	5.00	4.46	2.7762	2.4751	-10.8	NA	±30	Average RF

Client: AECOM/URS Corporation
Project: City of Galveston

Service Request: K1707681
Date Analyzed: 07/28/17 13:41

Continuing Calibration Verification (CCV) Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
File ID: J:\LCMS06\Data\072817_b2\072817_129

Calibration Date: 7/28/2017
Calibration ID: KC1700134
Analysis Lot: 555466
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
13C3-PFBS	5.00	4.65	1.7937	1.6694	-6.9	NA	±30	Average RF
13C8-FOSA	5.00	4.41	3.321	2.9297	-11.8	NA	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	1.02	1.0127	1.0791	6.6	NA	±30	Average RF
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	1.31	1.2663	1.5757	NA	38.1*	±30	Linear
Perfluorodecane sulfonic acid (PFDS)	0.965	1.02	0.7858	0.8341	6.1	NA	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	AECOM/URS Corporation	**Service Request:**	K1707681
Project:	City of Galveston	**Date Analyzed:**	07/28/17 16:19

Continuing Calibration Verification (CCV) Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method:	PFC/537M	**Calibration Date:**	7/28/2017
File ID:	J:\LCMS06\Data\072817_b2\072817_144	**Calibration ID:**	KC1700134
		Analysis Lot:	555466
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Perfluorobutanoic acid (PFBA)	1.00	1.04	1.0594	1.0977	3.6	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	1.03	5.1944	3.0265	NA	2.7	±30	Linear
Perfluorobutane sulfonic acid (PFBS)	0.887	0.894	0.8783	0.8848	0.7	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	1.06	0.9937	0.8885	NA	6.3	±30	Linear
Perfluoroheptanoic acid (PFHpA)	1.00	1.09	1.0461	1.066	NA	9.0	±30	Linear
Perfluorohexane sulfonic acid (PFHxS)	0.913	0.956	1.2185	1.2754	4.7	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	0.951	1.1189	1.0646	-4.9	NA	±30	Average RF
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.40	1.005	1.3047	NA	47.2*	±30	Quadratic
Perfluorononanoic acid (PFNA)	1.00	1.00	0.8437	0.8472	0.4	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	1.02	0.7521	0.8276	10.0	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	0.916	1.1155	1.0216	-8.4	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	0.976	1.2746	0.8622	NA	-2.4	±30	Linear
Perfluorooctane sulfonamide (FOSA)	1.00	1.08	1.4631	1.584	8.3	NA	±30	Average RF
Perfluorododecanoic acid (PFDoDA)	1.00	1.04	0.5429	0.566	4.3	NA	±30	Average RF
Perfluorotridecanoic acid (PFTrDA)	1.00	0.978	1.0126	0.9903	-2.2	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamide (MeFOSA)	1.00	0.884	1.6365	1.4469	-11.6	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamidoethanol	1.00	1.04	2.0461	2.1299	4.1	NA	±30	Average RF
Perfluorotetradecanoic acid (PFTeDA)	1.00	1.05	0.6399	0.5053	NA	5.3	±30	Linear
N-Ethyl perfluorooctane sulfonamidoethanol	1.00	0.970	2.3491	2.279	-3.0	NA	±30	Average RF
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	1.00	0.985	0.2136	0.2103	-1.5	NA	±30	Average RF
13C4-PFBA	5.00	4.16	6.1962	5.1592	-16.7	NA	±30	Average RF
13C2-PFHxA	5.00	4.45	8.2763	7.3597	-11.1	NA	±30	Average RF
18O2-PFHxS	5.00	3.99	1.1575	0.9226	-20.3	NA	±30	Average RF
13C2-6:2 FTS	5.00	4.20	0.7173	0.6019	-16.1	NA	±30	Average RF
13C4-PFOA	5.00	4.95	9.7642	9.6758	-0.9	NA	±30	Average RF
13C5-PFNA	5.00	4.40	9.6325	8.4765	-12.0	NA	±30	Average RF
13C4-PFOS	5.00	4.23	1.3246	1.1198	-15.5	NA	±30	Average RF
13C2-PFDA	5.00	4.46	8.4504	7.5357	-10.8	NA	±30	Average RF
13C2-PFUnDA	5.00	4.51	9.359	8.4438	-9.8	NA	±30	Average RF
13C2-PFDoDA	5.00	4.38	11.9875	10.4977	-12.4	NA	±30	Average RF
D7-MeFOSE	5.00	4.60	1.0095	0.9297	-7.9	NA	±30	Average RF
D9-EtFOSE	5.00	4.77	1.0506	1.0016	-4.7	NA	±30	Average RF
D5-EtFOSA	5.00	4.15	1.3538	1.1224	-17.1	NA	±30	Average RF
13C2-8:2 FTS	5.00	4.39	0.7034	0.617	-12.3	NA	±30	Average RF
13C2-PFTeDA	5.00	4.44	8.203	7.2853	-11.2	NA	±30	Average RF
13C4-PFHpA	5.00	4.07	7.5792	6.1681	-18.6	NA	±30	Average RF
13C5-PFPeA	5.00	4.11	2.7762	2.2795	-17.9	NA	±30	Average RF

Client: AECOM/URS Corporation
Project: City of Galveston

Service Request: K1707681
Date Analyzed: 07/28/17 16:19

Continuing Calibration Verification (CCV) Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
File ID: J:\LCMS06\Data\072817_b2\072817_144

Calibration Date: 7/28/2017
Calibration ID: KC1700134
Analysis Lot: 555466
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
13C3-PFBS	5.00	4.61	1.7937	1.6539	-7.8	NA	±30	Average RF
13C8-FOSA	5.00	4.02	3.321	2.67	-19.6	NA	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	1.03	1.0127	1.0853	7.2	NA	±30	Average RF
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	1.26	1.2663	1.5093	NA	32.0*	±30	Linear
Perfluorodecane sulfonic acid (PFDS)	0.965	1.06	0.7858	0.8613	9.6	NA	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:**K1707681
Project: City of Galveston

Analysis Run Log
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M **Analysis Lot:**554762
Instrument ID:K-LCMS-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS06\Data\072417_b1\072417_106	Continuing Calibration Verification	KQ1710165-01	7/24/2017	15:42	
J:\LCMS06\Data\072417_b1\072417_108	Method Blank	KQ1709896-04	7/24/2017	16:03	
J:\LCMS06\Data\072417_b1\072417_109	Lab Control Sample	KQ1709896-03	7/24/2017	16:13	
J:\LCMS06\Data\072417_b1\072417_110	Batch QC	K1707559-001	7/24/2017	16:24	
J:\LCMS06\Data\072417_b1\072417_111	Batch QC MS	KQ1709896-01	7/24/2017	16:34	
J:\LCMS06\Data\072417_b1\072417_112	Batch QC DMS	KQ1709896-02	7/24/2017	16:45	
J:\LCMS06\Data\072417_b1\072417_113	ZZZZZZZ	ZZZZZZZ	7/24/2017	16:55	
J:\LCMS06\Data\072417_b1\072417_114	ZZZZZZZ	ZZZZZZZ	7/24/2017	17:06	
J:\LCMS06\Data\072417_b1\072417_115	ZZZZZZZ	ZZZZZZZ	7/24/2017	17:16	
J:\LCMS06\Data\072417_b1\072417_116	PEC-1	K1707681-001	7/24/2017	17:26	
J:\LCMS06\Data\072417_b1\072417_117	PEC-1 DUP	K1707681-002	7/24/2017	17:37	
J:\LCMS06\Data\072617_b2\072617_117	ZZZZZZZ	ZZZZZZZ	7/26/2017	12:01	
J:\LCMS06\Data\072617_b2\072617_125	ZZZZZZZ	ZZZZZZZ	7/26/2017	13:25	
J:\LCMS06\Data\072617_b2\072617_126	ZZZZZZZ	ZZZZZZZ	7/26/2017	13:35	
J:\LCMS06\Data\072617_b2\072617_127	ZZZZZZZ	ZZZZZZZ	7/26/2017	13:46	
J:\LCMS06\Data\072617_b2\072617_128	ZZZZZZZ	ZZZZZZZ	7/26/2017	13:56	
J:\LCMS06\Data\072617_b3\072617_134	ZZZZZZZ	ZZZZZZZ	7/26/2017	14:59	
J:\LCMS06\Data\072617_b3\072617_135	ZZZZZZZ	ZZZZZZZ	7/26/2017	15:09	
J:\LCMS06\Data\072617_b3\072617_136	ZZZZZZZ	ZZZZZZZ	7/26/2017	15:20	
J:\LCMS06\Data\072617_b3\072617_137	ZZZZZZZ	ZZZZZZZ	7/26/2017	15:30	
J:\LCMS06\Data\072617_b3\072617_138	ZZZZZZZ	ZZZZZZZ	7/26/2017	15:41	
J:\LCMS06\Data\072617_b3\072617_139	ZZZZZZZ	ZZZZZZZ	7/26/2017	15:51	
J:\LCMS06\Data\072617_b3\072617_140	ZZZZZZZ	ZZZZZZZ	7/26/2017	16:02	
J:\LCMS06\Data\072617_b3\072617_141	ZZZZZZZ	ZZZZZZZ	7/26/2017	16:12	
J:\LCMS06\Data\072617_b3\072617_142	ZZZZZZZ	ZZZZZZZ	7/26/2017	16:22	
J:\LCMS06\Data\072617_b3\072617_143	ZZZZZZZ	ZZZZZZZ	7/26/2017	16:33	
J:\LCMS06\Data\072617_b3\072617_144	ZZZZZZZ	ZZZZZZZ	7/26/2017	16:43	
J:\LCMS06\Data\072617_b3\072617_145	ZZZZZZZ	ZZZZZZZ	7/26/2017	16:54	
J:\LCMS06\Data\072617_b3\072617_146	ZZZZZZZ	ZZZZZZZ	7/26/2017	17:04	
J:\LCMS06\Data\072617_b3\072617_147	ZZZZZZZ	ZZZZZZZ	7/26/2017	17:15	
J:\LCMS06\Data\072617_b3\072617_148	ZZZZZZZ	ZZZZZZZ	7/26/2017	17:25	
J:\LCMS06\Data\072617_b3\072617_149	ZZZZZZZ	ZZZZZZZ	7/26/2017	17:36	
J:\LCMS06\Data\072617_b3\072617_150	ZZZZZZZ	ZZZZZZZ	7/26/2017	17:46	
J:\LCMS06\Data\072617_b3\072617_151	ZZZZZZZ	ZZZZZZZ	7/26/2017	17:57	
J:\LCMS06\Data\072817_b1\072817_123	ZZZZZZZ	ZZZZZZZ	7/28/2017	12:38	
J:\LCMS06\Data\072817_b1\072817_124	ZZZZZZZ	ZZZZZZZ	7/28/2017	12:49	
J:\LCMS06\Data\072817_b1\072817_125	ZZZZZZZ	ZZZZZZZ	7/28/2017	12:59	
J:\LCMS06\Data\072817_b1\072817_126	ZZZZZZZ	ZZZZZZZ	7/28/2017	13:10	
J:\LCMS06\Data\072817_b1\072817_127	ZZZZZZZ	ZZZZZZZ	7/28/2017	13:20	
J:\LCMS06\Data\072817_b1\072817_128	ZZZZZZZ	ZZZZZZZ	7/28/2017	13:31	
J:\LCMS06\Data\072817_b2\072817_129	ZZZZZZZ	ZZZZZZZ	7/28/2017	13:41	
J:\LCMS06\Data\072817_b2\072817_129	ZZZZZZZ	ZZZZZZZ	7/28/2017	13:41	
J:\LCMS06\Data\072817_b2\072817_131	ZZZZZZZ	ZZZZZZZ	7/28/2017	14:02	
J:\LCMS06\Data\072817_b2\072817_132	ZZZZZZZ	ZZZZZZZ	7/28/2017	14:13	
J:\LCMS06\Data\072817_b2\072817_133	ZZZZZZZ	ZZZZZZZ	7/28/2017	14:23	
J:\LCMS06\Data\072817_b2\072817_134	ZZZZZZZ	ZZZZZZZ	7/28/2017	14:34	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:**K1707681
Project: City of Galveston

Analysis Run Log
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M **Analysis Lot:**554762
Instrument ID:K-LCMS-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS06\Data\072817_b2\072817_135	ZZZZZZZ	ZZZZZZZ	7/28/2017	14:44	
J:\LCMS06\Data\072817_b2\072817_138	ZZZZZZZ	ZZZZZZZ	7/28/2017	15:16	
J:\LCMS06\Data\072817_b2\072817_139	ZZZZZZZ	ZZZZZZZ	7/28/2017	15:26	
J:\LCMS06\Data\072817_b2\072817_140	ZZZZZZZ	ZZZZZZZ	7/28/2017	15:37	
J:\LCMS06\Data\072817_b2\072817_142	ZZZZZZZ	ZZZZZZZ	7/28/2017	15:58	
J:\LCMS06\Data\072817_b2\072817_143	ZZZZZZZ	ZZZZZZZ	7/28/2017	16:08	
J:\LCMS06\Data\072817_b2\072817_144	ZZZZZZZ	ZZZZZZZ	7/28/2017	16:19	
J:\LCMS06\Data\072817_b2\072817_144	ZZZZZZZ	ZZZZZZZ	7/28/2017	16:19	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:**K1707681
Project: City of Galveston

Analysis Run Log
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M **Analysis Lot:**554813
Instrument ID:K-LCMS-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS06\Data\072417_b1_IS\072417_106	Continuing Calibration Verification	KQ1710170-01	7/24/2017	15:42	
J:\LCMS06\Data\072417_b1_IS\072417_116	PEC-1	K1707681-001	7/24/2017	17:26	
J:\LCMS06\Data\072417_b1_IS\072417_117	PEC-1 DUP	K1707681-002	7/24/2017	17:37	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:**K1707681
Project: City of Galveston

Analysis Run Log
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M **Analysis Lot:**555050
Instrument ID:K-LCMS-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS06\Data\072617_b2\072617_117	Continuing Calibration Verification	KQ1710331-01	7/26/2017	12:01	
J:\LCMS06\Data\072617_b2\072617_119	Method Blank	KQ1710166-03	7/26/2017	12:22	
J:\LCMS06\Data\072617_b2\072617_120	Lab Control Sample	KQ1710166-01	7/26/2017	12:32	
J:\LCMS06\Data\072617_b2\072617_121	Duplicate Lab Control Sample	KQ1710166-02	7/26/2017	12:43	
J:\LCMS06\Data\072617_b2\072617_122	EB-1-SOIL-72017	K1707681-006	7/26/2017	12:53	
J:\LCMS06\Data\072617_b2\072617_123	MW-10	K1707681-007	7/26/2017	13:04	
J:\LCMS06\Data\072617_b2\072617_124	EB-2-WATER-72017	K1707681-009	7/26/2017	13:14	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:**K1707681
Project: City of Galveston

Analysis Run Log
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M **Analysis Lot:**555060
Instrument ID:K-LCMS-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS06\Data\072617_b3\072617_129	Continuing Calibration Verification	KQ1710347-01	7/26/2017	14:07	
J:\LCMS06\Data\072617_b3\072617_131	Method Blank	KQ1710167-03	7/26/2017	14:27	
J:\LCMS06\Data\072617_b3\072617_132	Lab Control Sample	KQ1710167-01	7/26/2017	14:38	
J:\LCMS06\Data\072617_b3\072617_133	Duplicate Lab Control Sample	KQ1710167-02	7/26/2017	14:48	
J:\LCMS06\Data\072617_b3\072617_152	MW-10, DUP	K1707681-008	7/26/2017	18:07	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:**K1707681
Project: City of Galveston

Analysis Run Log
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M **Analysis Lot:**555244
Instrument ID:K-LCMS-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS06\Data\072717_b1\072717_118	Continuing Calibration Verification	KQ1710339-01	7/27/2017	12:45	
J:\LCMS06\Data\072717_b1\072717_121	Lab Control Sample	KQ1710166-01	7/27/2017	13:16	
J:\LCMS06\Data\072717_b1\072717_122	Duplicate Lab Control Sample	KQ1710166-02	7/27/2017	13:27	
J:\LCMS06\Data\072717_b1\072717_123	MW-10	K1707681-007	7/27/2017	13:37	
J:\LCMS06\Data\072717_b1\072717_124	MW-10	K1707681-007	7/27/2017	13:48	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:**K1707681
Project: City of Galveston

Analysis Run Log
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M **Analysis Lot:**555465
Instrument ID:K-LCMS-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS06\Data\072817_b1\072817_118	Continuing Calibration Verification	KQ1710463-01	7/28/2017	11:46	
J:\LCMS06\Data\072817_b1\072817_121	Lab Control Sample	KQ1710166-01	7/28/2017	12:18	
J:\LCMS06\Data\072817_b1\072817_122	Duplicate Lab Control Sample	KQ1710166-02	7/28/2017	12:28	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: AECOM/URS Corporation **Service Request:**K1707681
Project: City of Galveston

Analysis Run Log
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M **Analysis Lot:**555466
Instrument ID:K-LCMS-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS06\Data\072817_b2\072817_129	Continuing Calibration Verification	KQ1710515-02	7/28/2017	13:41	
J:\LCMS06\Data\072817_b2\072817_136	Lab Control Sample	KQ1710167-01	7/28/2017	14:55	
J:\LCMS06\Data\072817_b2\072817_137	Duplicate Lab Control Sample	KQ1710167-02	7/28/2017	15:05	
J:\LCMS06\Data\072817_b2\072817_141	MW-10, DUP	K1707681-008	7/28/2017	15:47	
J:\LCMS06\Data\072817_b2\072817_144	Continuing Calibration Verification	KQ1710515-05	7/28/2017	16:19	

ALS Group USA, Corp.
dba ALS Environmental

Prep Summary Report

Client: AECOM/URS Corporation **Service Request:**K1707681
Project: City of Galveston
Sample Matrix: Soil

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Prep Method: EPA 3550B **Extraction Lot:**293302
Analytical Method: PFC/537M

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
Batch QC	K1707559-001	NA	NA	1.011 g	8 mL	74.3
PEC-1	K1707681-001	7/20/17	7/21/17	1.004 g	8 mL	74.3
PEC-1	K1707681-001	7/20/17	7/21/17	1.004 g	8 mL	74.3
PEC-1 DUP	K1707681-002	7/20/17	7/21/17	1.118 g	8 mL	68.8
PEC-1 DUP	K1707681-002	7/20/17	7/21/17	1.118 g	8 mL	68.8
Batch QC	KQ1709896-01MS	NA	NA	1.090 g	8 mL	74.3
Batch QC	KQ1709896-02DMS	NA	NA	1.082 g	8 mL	74.3
Lab Control Sample	KQ1709896-03LCS	NA	NA	1 g	8 mL	
Method Blank	KQ1709896-04MB	NA	NA	1 g	8 mL	

ALS Group USA, Corp.
dba ALS Environmental

Prep Summary Report

Client: AECOM/URS Corporation **Service Request:**K1707681
Project: City of Galveston
Sample Matrix: Water

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Prep Method: EPA 3535A **Extraction Lot:**293672
Analytical Method: PFC/537M

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
EB-1-SOIL-72017	K1707681-006	7/20/17	7/21/17	148.0000 mL	4 mL	
MW-10	K1707681-007	7/20/17	7/21/17	148.0000 mL	4 mL	
MW-10	K1707681-007	7/20/17	7/21/17	148.0000 mL	4 mL	
MW-10	K1707681-007	7/20/17	7/21/17	148.0000 mL	4 mL	
EB-2-WATER-72017	K1707681-009	7/20/17	7/21/17	148.0000 mL	4 mL	
Lab Control Sample	KQ1710166-01LCS	NA	NA	125.0000 mL	4 mL	
Lab Control Sample	KQ1710166-01LCS	NA	NA	125.0000 mL	4 mL	
Lab Control Sample	KQ1710166-01LCS	NA	NA	125.0000 mL	4 mL	
Duplicate Lab Control Sample	KQ1710166-02DLCS	NA	NA	125.0000 mL	4 mL	
Duplicate Lab Control Sample	KQ1710166-02DLCS	NA	NA	125.0000 mL	4 mL	
Duplicate Lab Control Sample	KQ1710166-02DLCS	NA	NA	125.0000 mL	4 mL	
Method Blank	KQ1710166-03MB	NA	NA	125.0000 mL	4 mL	

ALS Group USA, Corp.
dba ALS Environmental

Prep Summary Report

Client: AECOM/URS Corporation **Service Request:**K1707681
Project: City of Galveston
Sample Matrix: Water

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Prep Method: EPA 3535A **Extraction Lot:**293673
Analytical Method: PFC/537M

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
MW-10, DUP	K1707681-008	7/20/17	7/21/17	71.0000 mL	2 mL	
MW-10, DUP	K1707681-008	7/20/17	7/21/17	71.0000 mL	2 mL	
Lab Control Sample	KQ1710167-01LCS	NA	NA	60 mL	2 mL	
Lab Control Sample	KQ1710167-01LCS	NA	NA	60 mL	2 mL	
Duplicate Lab Control Sample	KQ1710167-02DLCS	NA	NA	60 mL	2 mL	
Duplicate Lab Control Sample	KQ1710167-02DLCS	NA	NA	60 mL	2 mL	
Method Blank	KQ1710167-03MB	NA	NA	60 mL	2 mL	

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Benchsheet

Service Request #:	**K1707554, KQ1709973, K1707436, K1707606, K1707566, K1707681**	**Run #:**	**554461**
Test:	**TS**	**Balance ID:**	**K-BALANCE-47**
Method:	**160.3 Modified**		

Pan ID:	Lab Code:	Tare (g)	Wet Wt. (g)	Tare + Dry Wt. (g)	Dry Weight (g)	% Total Solids	RPD
	K1707554-001	1.303	10.077	9.237	7.93	78.7	
	K1707554-001DUP	1.303	10.085	9.025	7.72	76.6	3
	K1707554-002	1.306	10.222	8.258	6.95	68.0	
	K1707554-003	1.296	10.210	9.112	7.82	76.6	
	K1707436-001	1.289	10.354	11.609	10.3	99.7	
	K1707436-002	1.287	10.176	11.435	10.1	99.7	
	K1707606-001	1.300	7.507	5.216	3.92	52.2	
	K1707606-002	1.295	3.030	4.226	2.93	96.7	
	K1707606-004	1.291	10.109	7.096	5.81	57.4	
	K1707566-001	1.289	10.217	10.509	9.22	90.2	
	K1707566-001DUP	1.299	10.112	10.414	9.12	90.1	<1
	K1707566-002	1.299	10.151	10.599	9.30	91.6	
	K1707566-003	1.300	10.243	10.741	9.44	92.2	
	K1707681-001	1.286	10.046	8.748	7.46	74.3	
	K1707681-002	1.289	10.003	8.171	6.88	68.8	
	K1707681-003	1.273	10.304	8.068	6.80	65.9	
	K1707681-004	1.300	10.290	10.287	8.99	87.3	
	K1707681-005	1.291	10.031	9.056	7.77	77.4	

	Oven ID	Temp In	Temp Out	Date In	Time In	Date Out	Time Out	Thermometer ID
Oven1	**K-OVEN-07**	**105**	**105**	**7/21/2017**	**12:20**	**7/24/2017**	**08:00**	

	Cal EQID	Cal Start Value	Cal End Value	Start Date	Start Time	End Date	End Time
Calibration1	**K-BALANCE-47**	**1.000, 100.001**	**1.000, 100.001**	**7/21/2017**	**08:37**	**7/21/2017**	**12:20**
Calibration2	**K-BALANCE-47**	**1.000, 0.999**	**1.000, 10.000**	**7/24/2017**	**08:39**	**7/24/2017**	**08:44**

Comments: KM, Calibration Weight SN: 7135W Reviewed by SC 7/24/17

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Validation Report

Data File: J:\LCMS06\Data\072417_b1\072417_116
Lab ID: K1707681-001
RunType: N/A
Matrix: Soil

Date Acquired: 7/24/17 17:26
Batch ID: 554762
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	Perfluoroheptane sulfonic acid (PFHpS)	132	70	130	Nonrate ↑ bias, ND
Surrogates	13C2-8:2 FTS	165	50	150	Quant by ES

Primary Review: JT 7/25/17
JUL 2 5 2017

Secondary Review: [signature]

Printed: 7/25/17 8:15
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072417_b1\072417_116	**Instrument:**	K-LCMS-06
Acqu Date:	7/24/17 17:26	**Vial:**	10
Run Type:	N/A	**Dilution:**	1
Lab ID:	K1707681-001	**Raw Units:**	ng/mL

Bottle ID:	K1707681-001.01	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	554762	**Prep Lot:**	293302	**Report Group:**	K1707681
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3550B		
		Prep Date:	7/24/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.701	461626	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.416	1890001	3.6562	73	50 - 150	Y
13C2-PFHxA	4.248	2899194	3.9952	80	50 - 150	Y
18O2-PFHxS	4.437	432434	4.0251	81	50 - 150	Y
13C2-6:2 FTS	4.604	341269	4.8572	97	50 - 150	Y
13C4-PFOA	4.616	4308089	4.5846	92	50 - 150	Y
13C5-PFNA	4.794	3793421	4.4978	90	50 - 150	Y
13C4-PFOS	4.779	445464	3.7984	76	50 - 150	Y
13C2-PFDA	4.983	3434166	4.9314	99	50 - 150	Y
13C2-PFUnDA	5.171	4178497	5.0409	101	50 - 150	Y
13C2-PFDoDA	5.353	4974686	4.7381	95	50 - 150	Y
D7-MeFOSE	5.675	445002	3.6751	74	50 - 150	Y
D9-EtFOSE	5.809	436160	2.9867	60	50 - 150	Y
D5-EtFOSA	5.842	452887	3.6300	73	50 - 150	Y
13C2-8:2 FTS	4.981	522574	8.2551	165 * Quant by IS	50 - 150	Y
13C2-PFTeDA	5.667	3242590	3.8189	76	50 - 150	Y
13C4-PFHpA	4.438	2693370	3.6803	74	50 - 150	Y
13C5-PFPeA	3.987	945278	3.6981	74	50 - 150	Y
13C3-PFBS	4.035	624652	3.4634	69	50 - 150	Y
13C8-FOSA	5.314	1108705	3.4799	70	50 - 150	Y

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.417	23669	0.0487	0.52	U	Y
Perfluoropentanoic acid (PFPeA)	3.987	67456	0.0288	0.31	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/25/17 8:15

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072417_b1\072417_116	**Instrument:**	K-LCMS-06
Acqu Date:	7/24/17 17:26	**Vial:**	10
Run Type:	N/A	**Dilution:**	1
Lab ID:	K1707681-001	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	3.999	1674	0.0158	0.17	U	Y
Perfluorohexanoic acid (PFHxA)	4.238	35758	0.0265	0.28	U	Y
Perfluoroheptanoic acid (PFHpA)	4.435	35612	0.0602	0.65	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.434	51713	0.4310	4.6		Y
Perfluorooctanoic acid (PFOA)	4.616	61383	0.0564	0.60	U	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.605	3433	0.0364	0.39	U	Y
Perfluorononanoic acid (PFNA)	4.792	57072	0.0683	0.73	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.778	506859	7.0152	75		Y
Perfluorodecanoic acid (PFDA)	4.983	230756	0.2453	2.6		Y
Perfluoroundecanoic acid (PFUnDA)	5.171	1648115	1.7095	18		Y
Perfluorooctane sulfonamide (FOSA)	5.314	126976	0.3729	4.0		Y
Perfluorododecanoic acid (PFDoDA)	5.353	349306	0.5376	5.8		Y
Perfluorotridecanoic acid (PFTrDA)	5.517	1933445	2.9970	32		Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.703	1584	0.0147	0.16	U	Y
N-Methyl perfluorooctane sulfonamidoethanol	0	0	0	0	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.665	93696	0.1816	1.9		Y
N-Ethyl perfluorooctane sulfonamidoethanol	0	0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0	0	0	0	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.981	59699	0.5925	6.4		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.602	6020	0.0669	0.72	U	Y
Perfluorodecane sulfonic acid (PFDS)	5.146	114600	1.3441	14		Y

Prep Amount:	1.004 g	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	74.30

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/25/17 8:15

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072417_116

Sample ID: K1707681-001
Date acquired: 7/24/2017 5:26:58 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_116.lcd
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 2

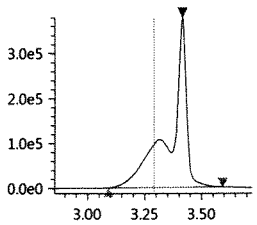
Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.416	1890001	1890001	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.416	1890001	461626	1	3.6562	ng/mL	----	----	Auto
PFBA	3.417	23669	1890001	2	0.0487	ng/mL	----	----	M
PFPeA-13C_IS	3.987	945278	945278	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.987	945278	461626	1	3.6981	ng/mL	----	----	Auto
PFPeA	3.987	67456	945278	4	0.0288	ng/mL	----	----	Auto
PFBS_1	3.999	1674	624652	16	0.0158	ng/mL	----	----	Auto
PFBS-13C	4.035	624652	461626	1	3.4634	ng/mL	----	----	Auto
PFBS-13C_IS	4.035	624652	624652	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.248	2899194	2899194	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.248	2899194	461626	1	3.9952	ng/mL	----	----	Auto
PFHxA	4.238	35758	2899194	6	0.0265	ng/mL	----	----	Auto
HPFO_DA	----	----	----	3	----	ng/mL	----	----	NI
HFPO_DA-13C_IS	4.315	668143	668143	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.315	668143	461626	1	3.7143	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.223	433947	433947	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.223	433947	461626	1	3.7015	ng/mL	----	----	Auto
4_2-FTS_1	4.241	630	433947	5	0.0057	ng/mL	----	----	M
PFHpA	4.435	35612	2693370	8	0.0602	ng/mL	----	----	Auto
PFHpA-13C_IS	4.438	2693370	2693370	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.438	2693370	461626	1	3.6803	ng/mL	----	----	Auto
PFHxS-18O_IS	4.437	432434	432434	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.437	432434	461626	1	4.0251	ng/mL	----	----	Auto
PFHxS_1	4.434	51713	432434	7	0.4310	ng/mL	----	----	Auto
6_2-FTS-13C	4.604	341269	461626	1	4.8572	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.604	341269	341269	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.602	6020	341269	10	0.0669	ng/mL	----	----	Auto
PFHpS_1	4.605	3433	432434	7	0.0364	ng/mL	----	----	Auto
PFOA-13C_IS	4.616	4308089	4308089	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.616	4308089	461626	1	4.5846	ng/mL	----	----	Auto
PFOA	4.616	61383	4308089	9	0.0564	ng/mL	----	----	Auto
PFOS_1	4.778	506859	445464	13	7.0152	ng/mL	----	----	Auto
PFOS-13C_IS	4.779	445464	445464	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.779	445464	461626	1	3.7984	ng/mL	----	----	Auto
PFNA-13C_IS	4.794	3793421	3793421	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.794	3793421	461626	1	4.4978	ng/mL	----	----	Auto
PFNA	4.792	57072	3793421	11	0.0683	ng/mL	----	----	M
PFDA-13C_IS	4.983	3434166	3434166	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.983	3434166	461626	1	4.9314	ng/mL	----	----	Auto
PFDA	4.983	230756	3434166	12	0.2453	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.981	522574	522574	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.981	522574	461626	1	8.2551	ng/mL	----	----	Auto
8_2-FTS_1	4.981	59699	522574	15	0.5925	ng/mL	----	----	Auto
PFDS_1	5.146	114600	445464	13	1.3441	ng/mL	----	----	M
PFUnA	5.171	1648115	4178497	14	1.7095	ng/mL	----	----	Auto
PFUnA-13C_IS	5.171	4178497	4178497	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.171	4178497	461626	1	5.0409	ng/mL	----	----	Auto
PFDoA	5.353	349306	4974686	17	0.5376	ng/mL	----	----	Auto
PFDoA-13C	5.353	4974686	461626	1	4.7381	ng/mL	----	----	Auto
PFDoA-13C_IS	5.353	4974686	4974686	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	5.361	525997	522574	15	5.3231	ng/mL	----	----	Auto
PFTrDA	5.517	1933445	3242590	22	2.9970	ng/mL	----	----	Auto
PFTeDA	5.665	93696	3242590	22	0.1816	ng/mL	----	----	M
PFTeDA-13C	5.667	3242590	461626	1	3.8189	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.667	3242590	3242590	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.314	1108705	1108705	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.314	1108705	461626	1	3.4799	ng/mL	----	----	Auto
FOSA	5.314	126976	1108705	18	0.3729	ng/mL	----	----	M
N-MeFOSAA	5.092	949	972591	19	0.0061	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.089	972591	461626	1	4.7137	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.089	972591	972591	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.701	461626	461626	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.703	1584	445002	20	0.0147	ng/mL	----	----	M
N-MeFOSE-d7	5.675	445002	461626	1	3.6751	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.675	445002	445002	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	----	----	----	20	----	ng/mL	----	----	NI
N-EtFOSAA	----	----	----	21	----	ng/mL	----	----	NI

JT

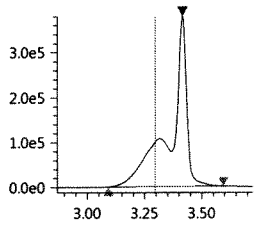
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.188	1052452	1052452	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.188	1052452	461626	1	5.6227	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.842	452887	452887	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.842	452887	461626	1	3.6300	ng/mL	----	----	Auto
N-EtFOSA	----	----	----	23	----	ng/mL	----	----	NI
N-EtFOSE-d9_IS	5.809	436160	436160	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.809	436160	461626	1	2.9867	ng/mL	----	----	Auto
N-EtFOSE	----	----	----	24	----	ng/mL	----	----	NI

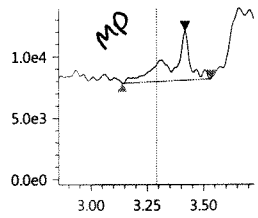
PFBA-13C_IS
Conc 5.0000
RT 3.416 Area 1890001
ISTD 216.90>172.15 3.80e5



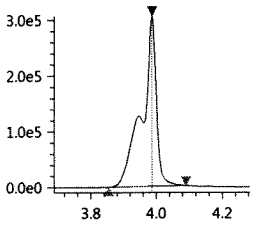
PFBA-13C
Conc 3.6562
RT 3.416 Area 1890001
Q 216.90>172.15 3.80e5



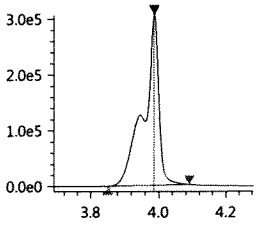
PFBA
Conc 0.0487
RT 3.417 Area 23669
Q 213.00>169.10 1.39e4



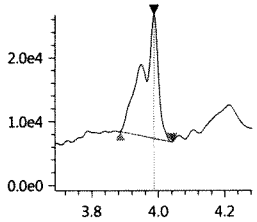
PFPeA-13C_IS
Conc 5.0000
RT 3.987 Area 945278
ISTD 267.90>223.00 3.07e5



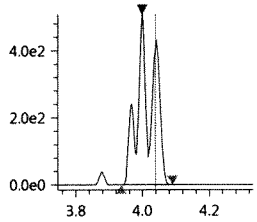
PFPeA-13C
Conc 3.6981
RT 3.987 Area 945278
Q 267.90>223.00 3.07e5



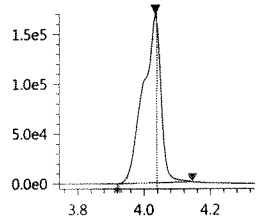
PFPeA
Conc 0.0288
RT 3.987 Area 67456
Q 263.05>219.10 2.67e4



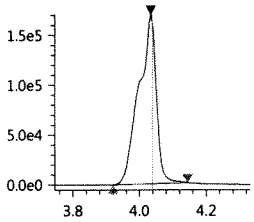
PFBS_1
Conc 0.0158
RT 3.999 Area 1674
Q 299.00>80.00 5.09e2



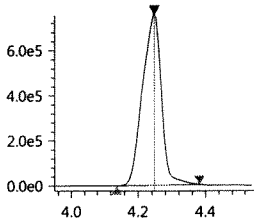
PFBS-13C
Conc 3.4634
RT 4.035 Area 624652
Q 301.80>80.00 1.71e5



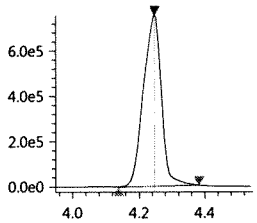
PFBS-13C_IS
Conc 5.0000
RT 4.035 Area 624652
ISTD 301.80>80.00 1.71e5



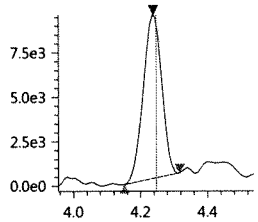
PFHxA-13C_IS
Conc 5.0000
RT 4.248 Area 2899194
ISTD 314.90>270.10 7.58e5



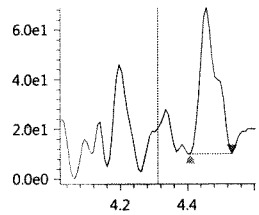
PFHxA-13C
Conc 3.9952
RT 4.248 Area 2899194
Q 314.90>270.10 7.58e5



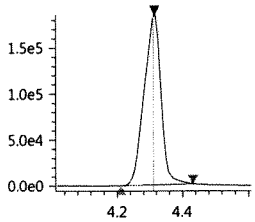
PFHxA
Conc 0.0265
RT 4.238 Area 35758
Q 313.00>269.00 9.65e3



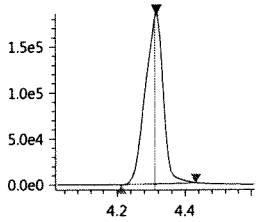
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 6.90e1



HFPO_DA-13C_IS
Conc 5.0000
RT 4.315 Area 668143
ISTD 332.00>286.80 1.87e5

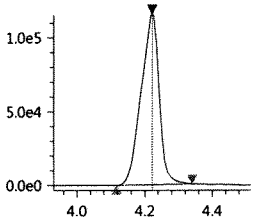


HFPO_DA-13C
Conc 3.7143
RT 4.315 Area 668143
Q 332.00>286.80 1.87e5

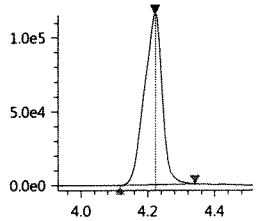


JUL 2 5 2017

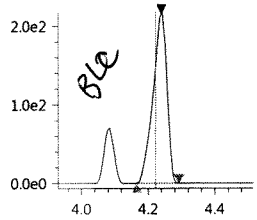
4_2-FTS-13C_IS
Conc 5.0000
RT 4.223 Area 433947
ISTD 328.80>309.05 1.15e5



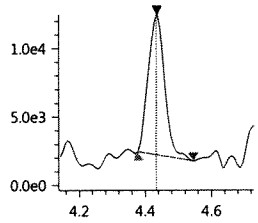
4_2-FTS-13C
Conc 3.7015
RT 4.223 Area 433947
Q 328.80>309.05 1.15e5



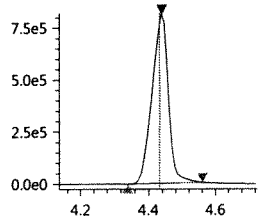
4_2-FTS_1
Conc 0.0057
RT 4.241 Area 630
Q 327.00>307.05 2.17e2



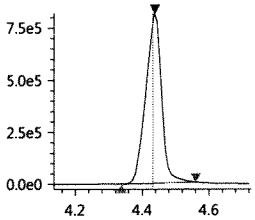
PFHpA
Conc 0.0602
RT 4.435 Area 35612
Q 362.90>319.00 1.25e4



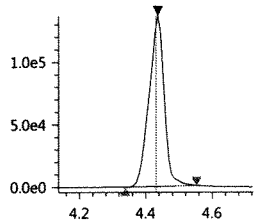
PFHpA-13C_IS
Conc 5.0000
RT 4.438 Area 2693370
ISTD 366.90>322.10 8.22e5



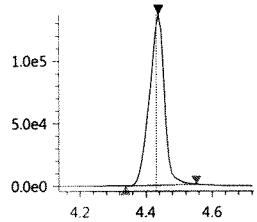
PFHpA-13C
Conc 3.6803
RT 4.438 Area 2693370
Q 366.90>322.10 8.22e5



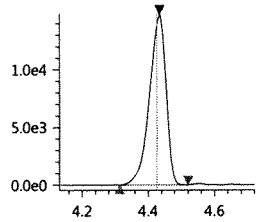
PFHxS-18O_IS
Conc 5.0000
RT 4.437 Area 432434
ISTD 402.70>84.05 1.37e5



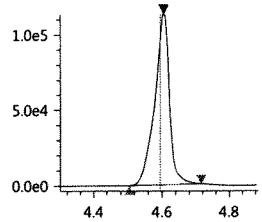
PFHxS-18O
Conc 4.0251
RT 4.437 Area 432434
Q 402.70>84.05 1.37e5



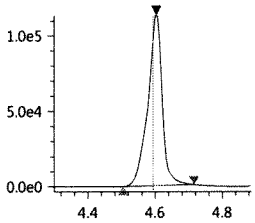
PFHxS_1
Conc 0.4310
RT 4.434 Area 51713
Q 399.00>80.00 1.49e4



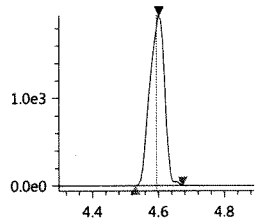
6_2-FTS-13C
Conc 4.8572
RT 4.604 Area 341269
Q 428.90>409.00 1.14e5



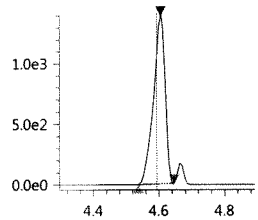
6_2-FTS-13C_IS
Conc 5.0000
RT 4.604 Area 341269
ISTD 428.90>409.00 1.14e5



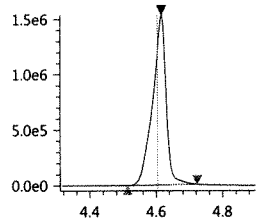
6_2-FTS_1
Conc 0.0669
RT 4.602 Area 6020
Q 427.00>407.00 1.96e3



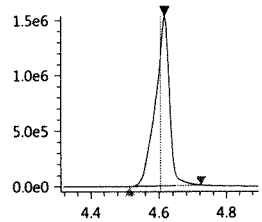
PFHpS_1
Conc 0.0364
RT 4.605 Area 3433
Q 449.00>80.15 1.42e3



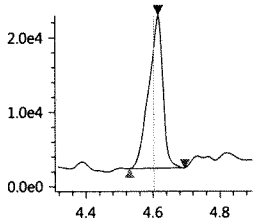
PFOA-13C_IS
Conc 5.0000
RT 4.616 Area 4308089
ISTD 416.80>372.05 1.54e6



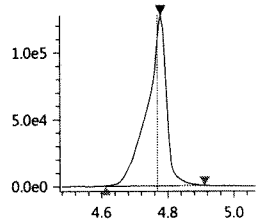
PFOA-13C
Conc 4.5846
RT 4.616 Area 4308089
Q 416.80>372.05 1.54e6



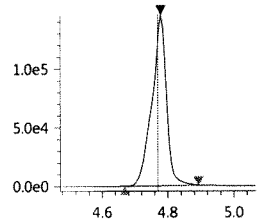
PFOA
Conc 0.0564
RT 4.616 Area 61383
Q 413.00>369.00 2.30e4



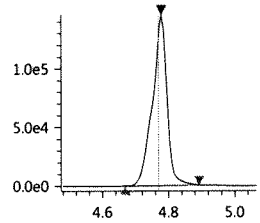
PFOS_1
Conc 7.0152
RT 4.778 Area 506859
Q 499.00>80.00 1.28e5



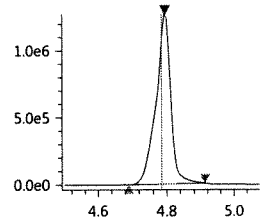
PFOS-13C_IS
Conc 5.0000
RT 4.779 Area 445464
ISTD 502.80>80.05 1.46e5



PFOS-13C
Conc 3.7984
RT 4.779 Area 445464
Q 502.80>80.05 1.46e5



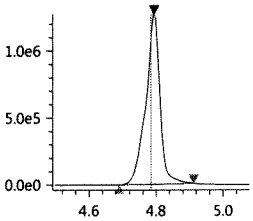
PFNA-13C_IS
Conc 5.0000
RT 4.794 Area 3793421
ISTD 467.80>423.00 1.28e6



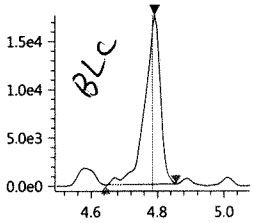
JUL 25 2017

JT

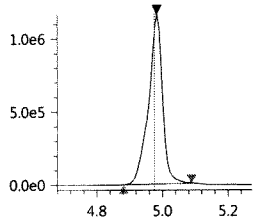
PFNA-13C
Conc 4.4978
RT 4.794 Area 3793421
Q 467.80>423.00 1.28e6



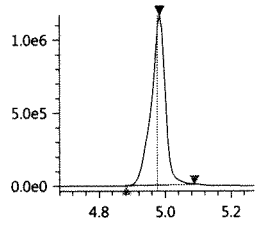
PFNA
Conc 0.0683
RT 4.792 Area 57072
Q 463.00>418.90 1.77e4



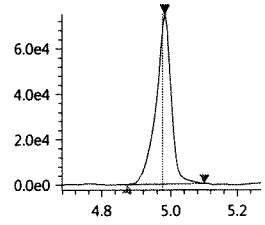
PFDA-13C_IS
Conc 5.0000
RT 4.983 Area 3434166
ISTD 514.80>469.95 1.17e6



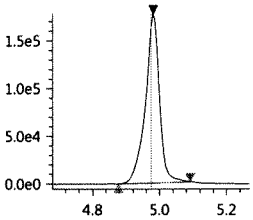
PFDA-13C
Conc 4.9314
RT 4.983 Area 3434166
Q 514.80>469.95 1.17e6



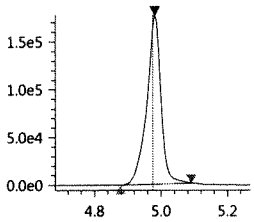
PFDA
Conc 0.2453
RT 4.983 Area 230756
Q 513.00>468.80 7.54e4



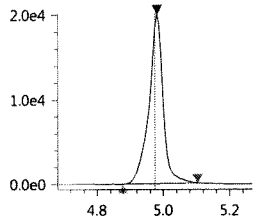
8_2-FTS-13C_IS
Conc 5.0000
RT 4.981 Area 522574
ISTD 528.80>509.00 1.78e5



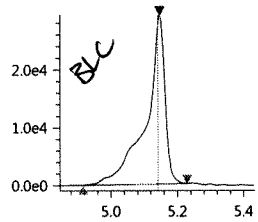
8_2-FTS-13C
Conc 8.2551
RT 4.981 Area 522574
Q 528.80>509.00 1.78e5



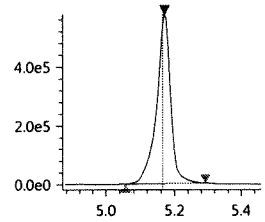
8_2-FTS_1
Conc 0.5925
RT 4.981 Area 59699
Q 526.90>506.90 2.02e4



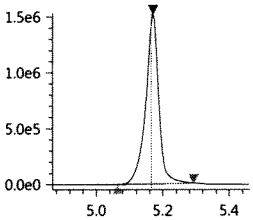
PFDS_1
Conc 1.3441
RT 5.146 Area 114600
Q 599.00>79.90 2.94e4



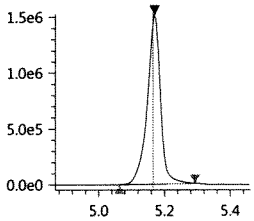
PFUnA
Conc 1.7095
RT 5.171 Area 1648115
Q 563.00>518.90 5.79e5



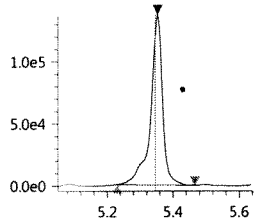
PFUnA-13C_IS
Conc 5.0000
RT 5.171 Area 4178497
ISTD 564.80>519.95 1.53e6



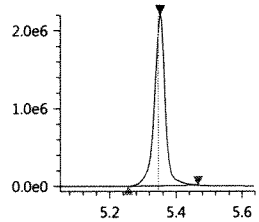
PFUnA-13C
Conc 5.0409
RT 5.171 Area 4178497
Q 564.80>519.95 1.53e6



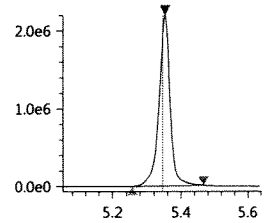
PFDoA
Conc 0.5376
RT 5.353 Area 349306
Q 613.05>569.00 1.38e5



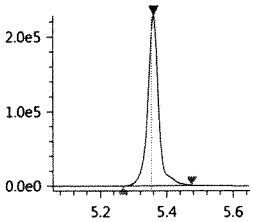
PFDoA-13C
Conc 4.7381
RT 5.353 Area 4974686
Q 614.80>569.95 2.20e6



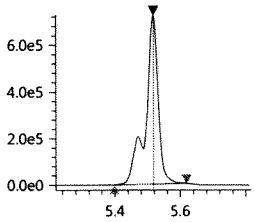
PFDoA-13C_IS
Conc 5.0000
RT 5.353 Area 4974686
ISTD 614.80>569.95 2.20e6



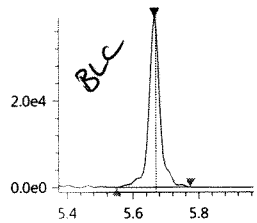
10_2-FtS_1
Conc 5.3231
RT 5.361 Area 525997
Q 627.00>606.95 2.28e5



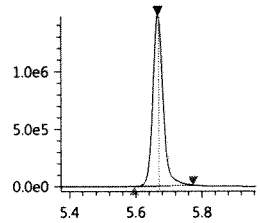
PFTrDA
Conc 2.9970
RT 5.517 Area 1933445
Q 663.00>618.90 7.29e5



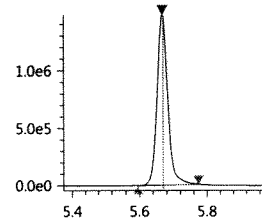
PFTeDA
Conc 0.1816
RT 5.665 Area 93696
Q 713.40>669.00 3.93e4



PFTeDA-13C
Conc 3.8189
RT 5.667 Area 3242590
Q 714.70>669.90 1.48e6



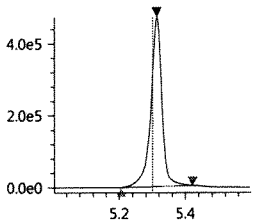
PFTeDA-13C_IS
Conc 5.0000
RT 5.667 Area 3242590
ISTD 714.70>669.90 1.48e6



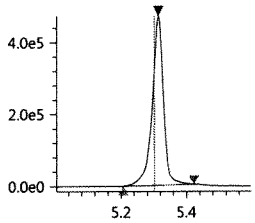
JUL 2 5 2017

JT

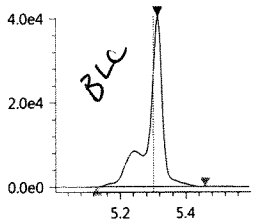
FOSA-13C_IS
Conc 5.0000
RT 5.314 Area 1108705
ISTD 506.00>78.05 4.74e5



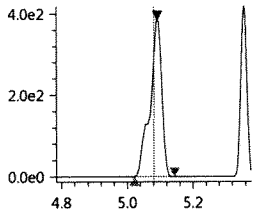
FOSA-13C
Conc 3.4799
RT 5.314 Area 1108705
Q 506.00>78.05 4.74e5



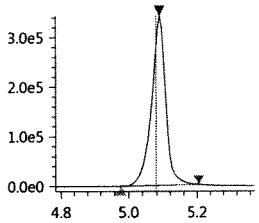
FOSA
Conc 0.3729
RT 5.314 Area 126976
Q 498.00>78.00 4.05e4



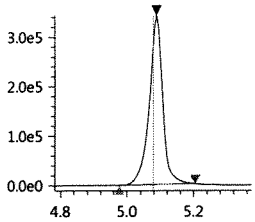
N-MeFOSAA
Conc 0.0061
RT 5.092 Area 949
Q 570.20>419.00 4.19e2



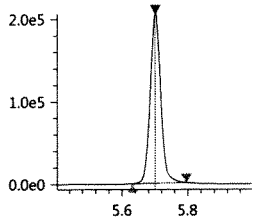
N-MeFOSAA-d3
Conc 4.7137
RT 5.089 Area 972591
Q 572.80>419.05 3.44e5



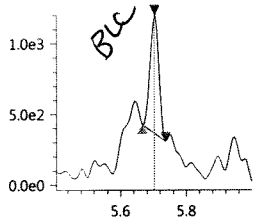
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.089 Area 972591
ISTD 572.80>419.05 3.44e5



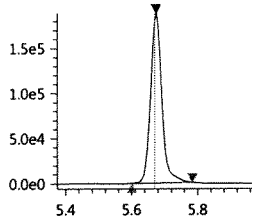
N-MeFOSA_IS
Conc 5.0000
RT 5.701 Area 461626
ISTD 514.90>168.90 2.06e5



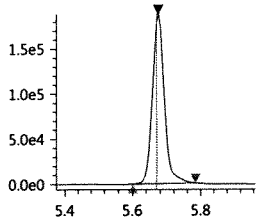
N-MeFOSA
Conc 0.0147
RT 5.703 Area 1584
Q 512.00>169.10 1.21e3



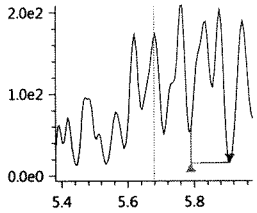
N-MeFOSE-d7
Conc 3.6751
RT 5.675 Area 445002
Q 622.70>59.10 1.89e5



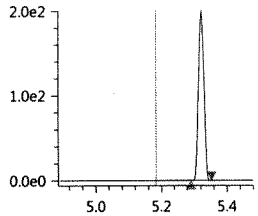
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.675 Area 445002
ISTD 622.70>59.10 1.89e5



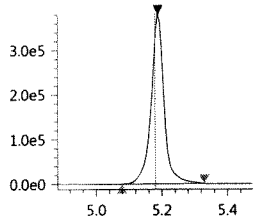
N-MeFOSE
Conc ----
RT ---- Area ----
Q 616.00>59.00 2.09e2



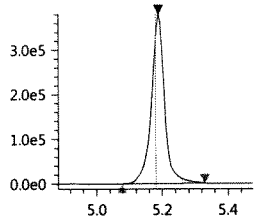
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 2.01e2



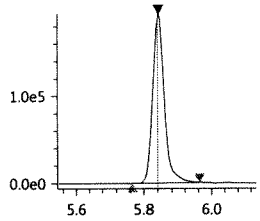
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.188 Area 1052452
ISTD 588.80>419.00 3.82e5



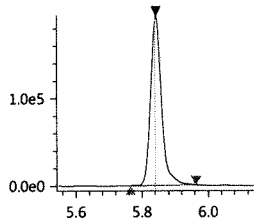
N-EtFOSAA-d5
Conc 5.6227
RT 5.188 Area 1052452
Q 588.80>419.00 3.82e5



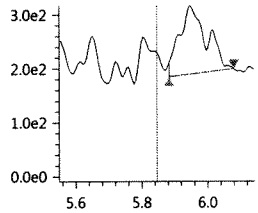
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.842 Area 452887
ISTD 530.90>169.15 1.96e5



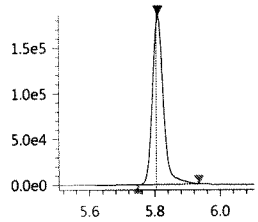
N-EtFOSA-d9
Conc 3.6300
RT 5.842 Area 452887
Q 530.90>169.15 1.96e5



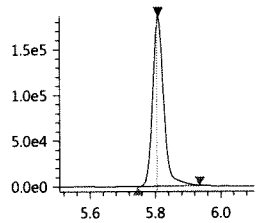
N-EtFOSA
Conc ----
RT ---- Area ----
Q 526.90>169.10 3.17e2



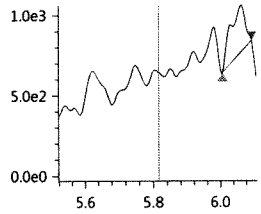
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.809 Area 436160
ISTD 638.70>59.10 1.87e5



N-EtFOSE-d9
Conc 2.9867
RT 5.809 Area 436160
Q 638.70>59.10 1.87e5



N-EtFOSE
Conc ----
RT ---- Area ----
Q 630.00>58.90 1.06e3



JUL 2 5 2017

Insight Report

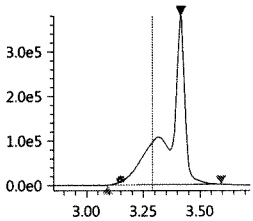
Befores Printed at 7/25/2017 7:34:49 AM

JT

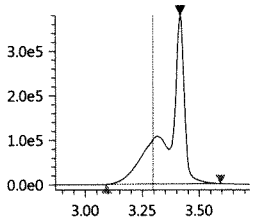
072417_116

Sample ID: K1707681-001
Date acquired: 7/24/2017 5:26:58 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_116.lcd
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 2

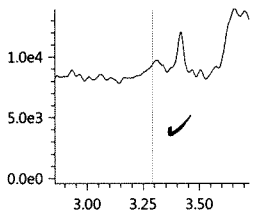
PFBA-13C_IS
Conc 5.0000
RT 3.416 Area 1890001
ISTD 216.90>172.15 3.80e5



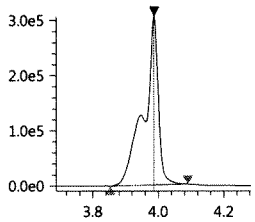
PFBA-13C
Conc 3.6562
RT 3.416 Area 1890001
Q 216.90>172.15 3.80e5



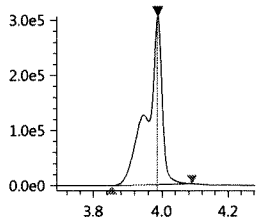
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 1.39e4



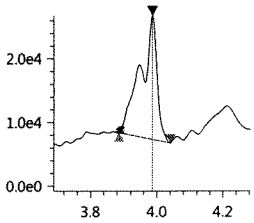
PFPeA-13C_IS
Conc 5.0000
RT 3.987 Area 945278
ISTD 267.90>223.00 3.07e5



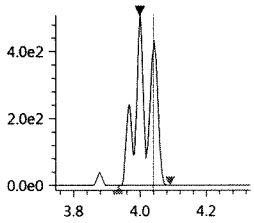
PFPeA-13C
Conc 3.6981
RT 3.987 Area 945278
Q 267.90>223.00 3.07e5



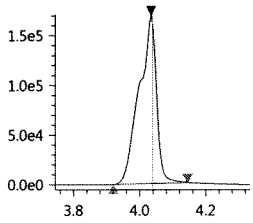
PFPeA
Conc 0.0288
RT 3.987 Area 67456
Q 263.05>219.10 2.67e4



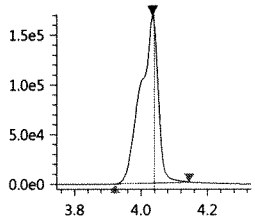
PFBS_1
Conc 0.0158
RT 3.999 Area 1674
Q 299.00>80.00 5.09e2



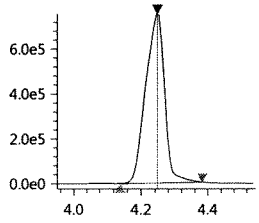
PFBS-13C
Conc 3.4634
RT 4.035 Area 624652
Q 301.80>80.00 1.71e5



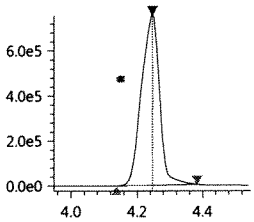
PFBS-13C_IS
Conc 5.0000
RT 4.035 Area 624652
ISTD 301.80>80.00 1.71e5



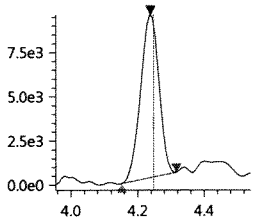
PFHxA-13C_IS
Conc 5.0000
RT 4.248 Area 2899194
ISTD 314.90>270.10 7.58e5



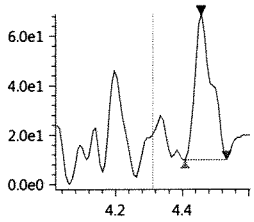
PFHxA-13C
Conc 3.9952
RT 4.248 Area 2899194
Q 314.90>270.10 7.58e5



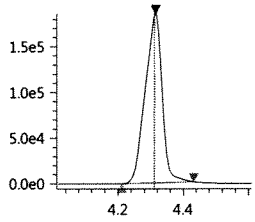
PFHxA
Conc 0.0265
RT 4.238 Area 35758
Q 313.00>269.00 9.65e3



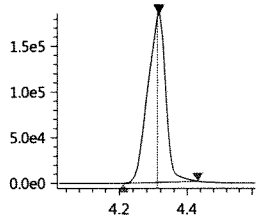
HPFO_DA
Conc 0.0016
RT 4.457 Area 203
Q 329.00>169.00 6.90e1



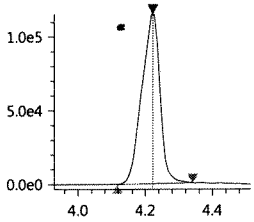
HFPO_DA-13C_IS
Conc 5.0000
RT 4.315 Area 668143
ISTD 332.00>286.80 1.87e5



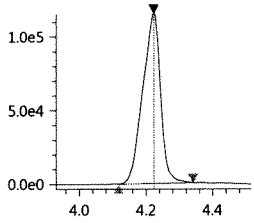
HFPO_DA-13C
Conc 3.7143
RT 4.315 Area 668143
Q 332.00>286.80 1.87e5



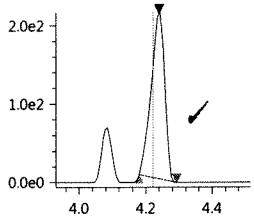
4_2-FTS-13C_IS
Conc 5.0000
RT 4.223 Area 433947
ISTD 328.80>309.05 1.15e5



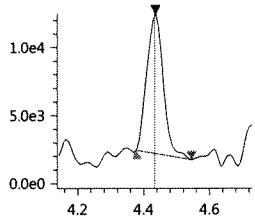
4_2-FTS-13C
Conc 3.7015
RT 4.223 Area 433947
Q 328.80>309.05 1.15e5



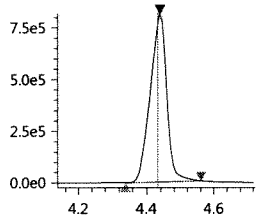
4_2-FTS_1
Conc 0.0054
RT 4.241 Area 593
Q 327.00>307.05 2.17e2



PFHpA
Conc 0.0602
RT 4.435 Area 35612
Q 362.90>319.00 1.25e4

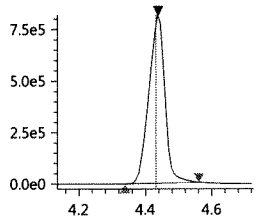


PFHpA-13C_IS
Conc 5.0000
RT 4.438 Area 2693370
ISTD 366.90>322.10 8.22e5

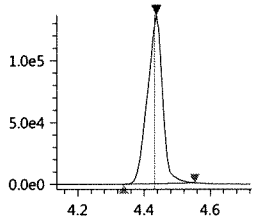


JUL 25 2017

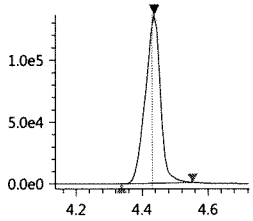
PFHpA-13C
Conc 3.6803
RT 4.438 Area 2603370
Q 366.90>322.10 8.22e5



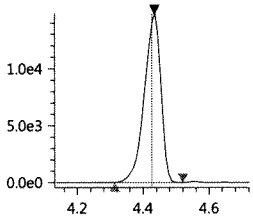
PFHxS-18O_IS
Conc 5.0000
RT 4.437 Area 432434
ISTD 402.70>84.05 1.37e5



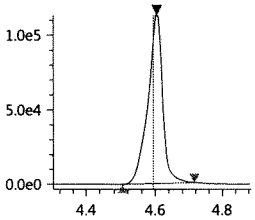
PFHxS-18O
Conc 4.0251
RT 4.437 Area 432434
Q 402.70>84.05 1.37e5



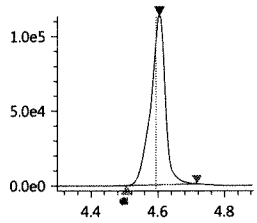
PFHxS_1
Conc 0.4310
RT 4.434 Area 51713
Q 399.00>80.00 1.49e4



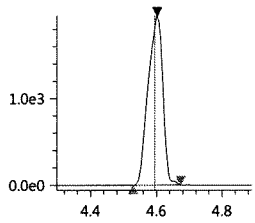
6_2-FTS-13C
Conc 4.8572
RT 4.604 Area 341269
Q 428.90>409.00 1.14e5



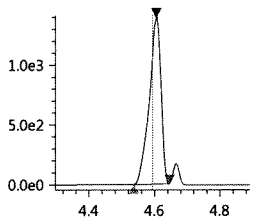
6_2-FTS-13C_IS
Conc 5.0000
RT 4.604 Area 341269
ISTD 428.90>409.00 1.14e5



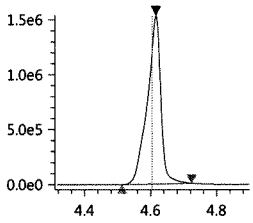
6_2-FTS_1
Conc 0.0669
RT 4.602 Area 6020
Q 427.00>407.00 1.96e3



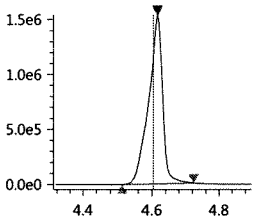
PFHpS_1
Conc 0.0364
RT 4.605 Area 3433
Q 449.00>80.15 1.42e3



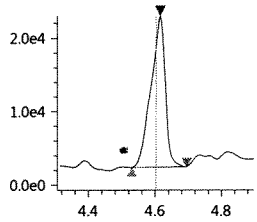
PFOA-13C_IS
Conc 5.0000
RT 4.616 Area 4308089
ISTD 416.80>372.05 1.54e6



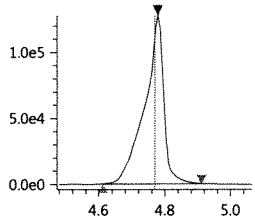
PFOA-13C
Conc 4.5846
RT 4.616 Area 4308089
Q 416.80>372.05 1.54e6



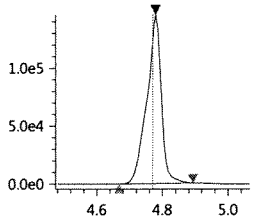
PFOA
Conc 0.0564
RT 4.616 Area 61383
Q 413.00>369.00 2.30e4



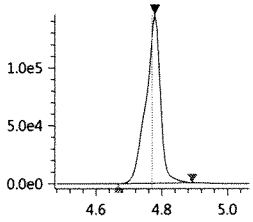
PFOS_1
Conc 7.0152
RT 4.778 Area 506859
Q 499.00>80.00 1.28e5



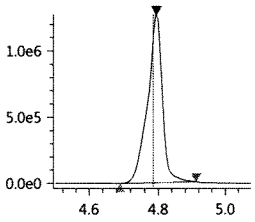
PFOS-13C_IS
Conc 5.0000
RT 4.779 Area 445464
ISTD 502.80>80.05 1.46e5



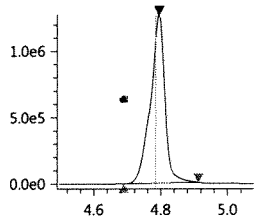
PFOS-13C
Conc 3.7984
RT 4.779 Area 445464
Q 502.80>80.05 1.46e5



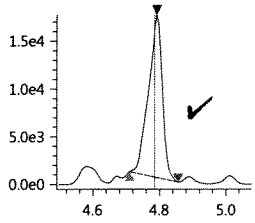
PFNA-13C_IS
Conc 5.0000
RT 4.794 Area 3793421
ISTD 467.80>423.00 1.28e6



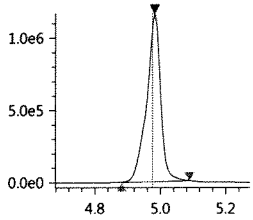
PFNA-13C
Conc 4.4978
RT 4.794 Area 3793421
Q 467.80>423.00 1.28e6



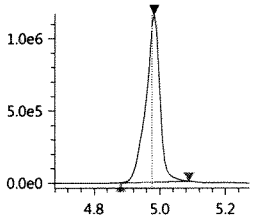
PFNA
Conc 0.0597
RT 4.792 Area 49860
Q 463.00>418.90 1.77e4



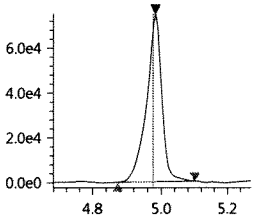
PFDA-13C_IS
Conc 5.0000
RT 4.983 Area 3434166
ISTD 514.80>469.95 1.17e6



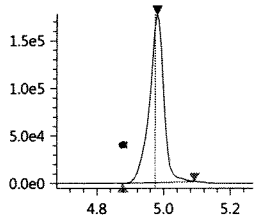
PFDA-13C
Conc 4.9314
RT 4.983 Area 3434166
Q 514.80>469.95 1.17e6



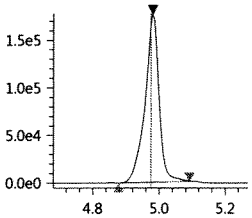
PFDA
Conc 0.2453
RT 4.983 Area 230756
Q 513.00>468.80 7.54e4



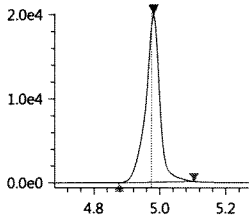
8_2-FTS-13C_IS
Conc 5.0000
RT 4.981 Area 522574
ISTD 528.80>509.00 1.78e5



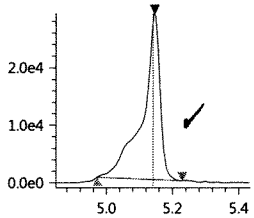
8_2-FTS-13C
Conc 8.2551
RT 4.981 Area 522574
Q 528.80>509.00 1.78e5



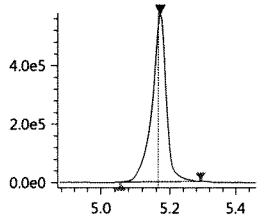
8_2-FTS_1
Conc 0.5925
RT 4.981 Area 59699
Q 526.90>506.90 2.02e4



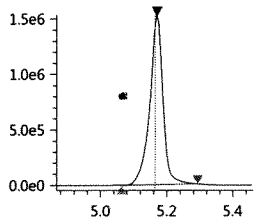
PFDS_1
Conc 1.2566
RT 5.146 Area 107143
Q 599.00>79.90 2.94e4



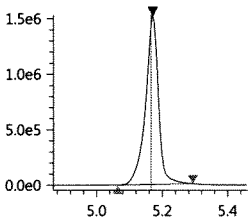
PFUnA
Conc 1.7095
RT 5.171 Area 1648115
Q 563.00>518.90 5.79e5



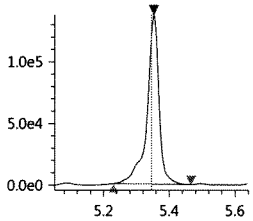
PFUnA-13C_IS
Conc 5.0000
RT 5.171 Area 4178497
ISTD 564.80>519.95 1.53e6



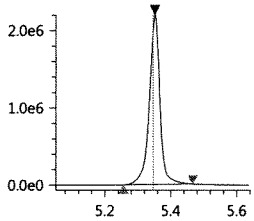
PFUnA-13C
Conc 5.0409
RT 5.171 Area 4178497
Q 564.80>519.95 1.53e6



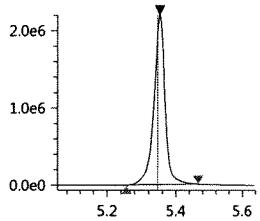
PFDoA
Conc 0.5376
RT 5.353 Area 349306
Q 613.05>569.00 1.38e5



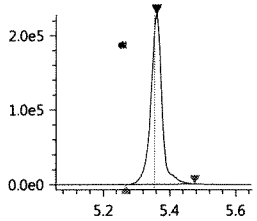
PFDoA-13C
Conc 4.7381
RT 5.353 Area 4974686
Q 614.80>569.95 2.20e6



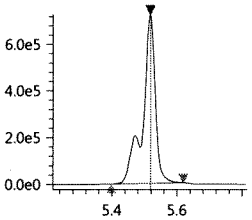
PFDoA-13C_IS
Conc 5.0000
RT 5.353 Area 4974686
ISTD 614.80>569.95 2.20e6



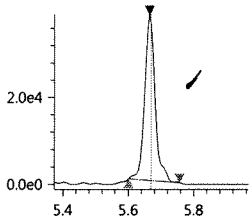
10_2-FtS_1
Conc 5.3231
RT 5.361 Area 525997
Q 627.00>606.95 2.28e5



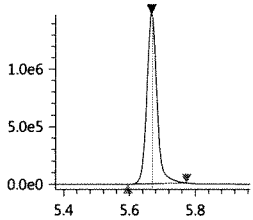
PFTrDA
Conc 2.9970
RT 5.517 Area 1933445
Q 663.00>618.90 7.29e5



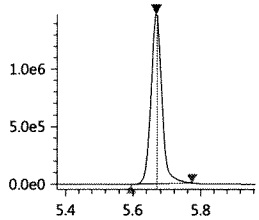
PFTeDA
Conc 0.1555
RT 5.665 Area 84679
Q 713.40>669.00 3.93e4



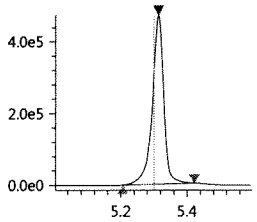
PFTeDA-13C
Conc 3.8189
RT 5.667 Area 3242590
Q 714.70>669.90 1.48e6



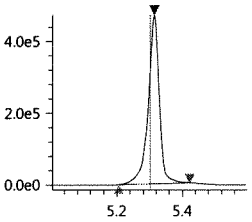
PFTeDA-13C_IS
Conc 5.0000
RT 5.667 Area 3242590
ISTD 714.70>669.90 1.48e6



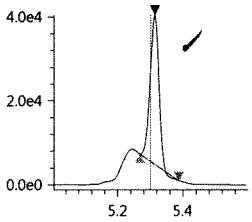
FOSA-13C_IS
Conc 5.0000
RT 5.314 Area 1108705
ISTD 506.00>78.05 4.74e5



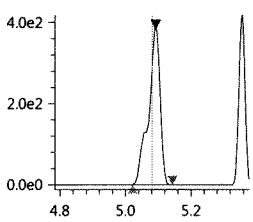
FOSA-13C
Conc 3.4799
RT 5.314 Area 1108705
Q 506.00>78.05 4.74e5



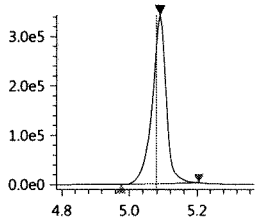
FOSA
Conc 0.1949
RT 5.314 Area 66357
Q 498.00>78.00 4.05e4



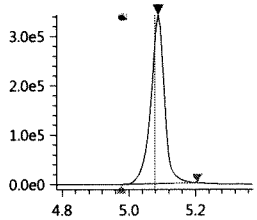
N-MeFOSAA
Conc 0.0061
RT 5.092 Area 949
Q 570.20>419.00 4.19e2



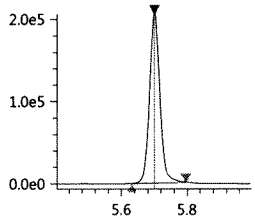
N-MeFOSAA-d3
Conc 4.7137
RT 5.089 Area 972591
Q 572.80>419.05 3.44e5



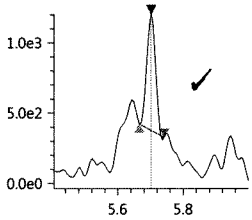
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.089 Area 972591
ISTD 572.80>419.05 3.44e5



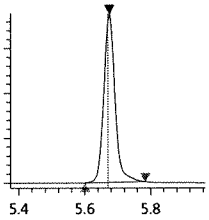
N-MeFOSA_IS
Conc 5.0000
RT 5.701 Area 461626
ISTD 514.90>168.90 2.06e5



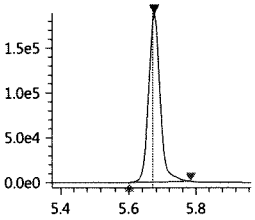
N-MeFOSA
Conc 0.0142
RT 5.703 Area 1529
Q 512.00>169.10 1.21e3



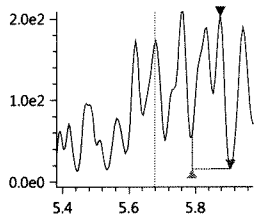
N-MeFOSE-d7
Conc 3.6751
RT 5.675 Area 445002
Q 622.70>59.10 1.89e5



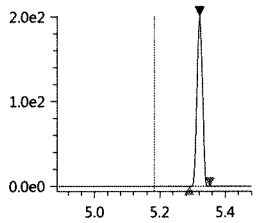
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.675 Area 445002
ISTD 622.70>59.10 1.89e5



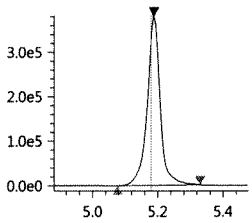
N-MeFOSE
Conc 0.0053
RT 5.876 Area 826
Q 616.00>59.00 2.09e2



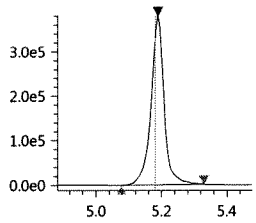
N-EtFOSAA
Conc 0.0013
RT 5.322 Area 234
Q 584.20>418.95 2.01e2



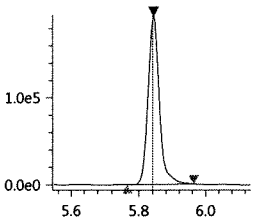
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.188 Area 1052452
ISTD 588.80>419.00 3.82e5



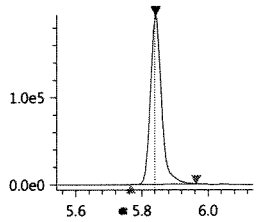
N-EtFOSAA-d5
Conc 5.6227
RT 5.188 Area 1052452
Q 588.80>419.00 3.82e5



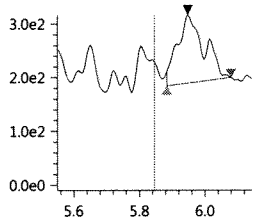
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.842 Area 452887
ISTD 530.90>169.15 1.96e5



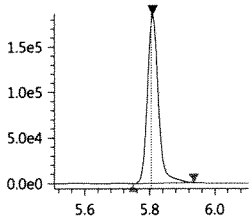
N-EtFOSA-d9
Conc 3.6300
RT 5.842 Area 452887
Q 530.90>169.15 1.96e5



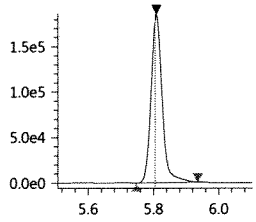
N-EtFOSA
Conc 0.0428
RT 5.948 Area 717
Q 526.90>169.10 3.17e2



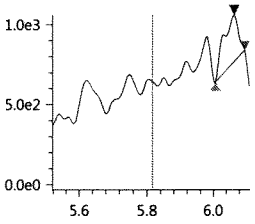
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.809 Area 436160
ISTD 638.70>59.10 1.87e5



N-EtFOSE-d9
Conc 2.9867
RT 5.809 Area 436160
Q 638.70>59.10 1.87e5



N-EtFOSE
Conc 0.0070
RT 6.064 Area 963
Q 630.00>58.90 1.06e3



Validation Report

Data File: J:\LCMS06\Data\072417_b1_IS\072417_116
Lab ID: K1707681-001
RunType: N/A
Matrix: Soil

Date Acquired: 7/24/17 17:26
Batch ID: 554813
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Surrogates	13C2-8:2 FTS	165	50	150	Quant by IS

Primary Review: JT 7/25/17

Secondary Review: JUL 25 2017

Printed: 7/25/17 9:18
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072417_b1_IS\072417_116	**Instrument:**	K-LCMS-06
Acqu Date:	7/24/17 17:26	**Vial:**	2
Run Type:	N/A	**Dilution:**	1
Lab ID:	K1707681-001	**Raw Units:**	ng/mL

Bottle ID:	K1707681-001.01	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	554813	**Prep Lot:**	293302	**Report Group:**	K1707681
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3550B		
		Prep Date:	7/24/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700129
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.701	461626	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	Quant Rpt	% Rec Criteria	Rpt?
13C2-8:2 FTS	4.981	522574	8.2551	165	*	50 - 150	Y

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.981	59699	0.5925	6.4		Y

Prep Amount:	1.004 g	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	74.30

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/25/17 9:18

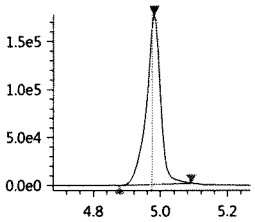
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072417_116

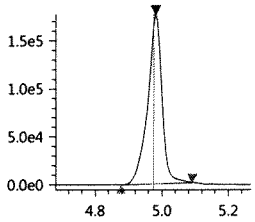
Sample ID: K1707681-001
Date acquired: 7/24/2017 5:26:58 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_116.lcd
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
8_2-FTS-13C_IS	4.981	522574	522574	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.981	522574	461626	1	8.2551	ng/mL	----	----	Auto
8_2-FTS_1	4.981	59699	461626	1	0.9778	ng/mL	----	----	Auto
N-MeFOSA_IS	5.701	461626	461626	1	5.0000	ng/mL	----	----	Auto

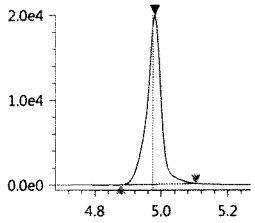
8_2-FTS-13C_IS
Conc 5.0000
RT 4.981 Area 522574
ISTD 528.80>509.00 1.78e5



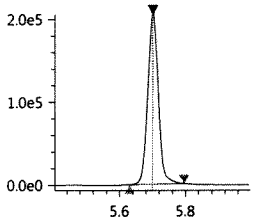
8_2-FTS-13C
Conc 8.2551
RT 4.981 Area 522574
Q 528.80>509.00 1.78e5



8_2-FTS_1
Conc 0.9778
RT 4.981 Area 59699
Q 526.90>506.90 2.02e4



N-MeFOSA_IS
Conc 5.0000
RT 5.701 Area 461626
ISTD 514.90>168.90 2.06e5



Validation Report

Data File: J:\LCMS06\Data\072417_b1\072417_117
Lab ID: K1707681-002
RunType: N/A
Matrix: Soil

Date Acquired: 7/24/17 17:37
Batch ID: 554762
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	Perfluoroheptane sulfonic acid (PFHpS)	132	70	130	Nonstd ↑ bias, ND
Surrogates	13C2-8:2 FTS	205	50	150	Quant by IS

Primary Review: JT 7/25/17
JUL 2 5 2017

Secondary Review: [signature]

Printed: 7/25/17 8:15
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072417_b1\072417_117	**Instrument:**	K-LCMS-06
Acqu Date:	7/24/17 17:37	**Vial:**	11
Run Type:	N/A	**Dilution:**	1
Lab ID:	K1707681-002	**Raw Units:**	ng/mL

Bottle ID:	K1707681-002.01	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	554762	**Prep Lot:**	293302	**Report Group:**	K1707681
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3550B		
		Prep Date:	7/24/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.704	450810	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.418	1889789	3.7435	75	50 - 150	Y
13C2-PFHxA	4.254	3141035	4.4323	89	50 - 150	Y
18O2-PFHxS	4.440	360918	3.4401	69	50 - 150	Y
13C2-6:2 FTS	4.608	448860	6.5418	131	50 - 150	Y
13C4-PFOA	4.619	4251349	4.6327	93	50 - 150	Y
13C5-PFNA	4.797	3660678	4.4446	89	50 - 150	Y
13C4-PFOS	4.781	446695	3.9002	78	50 - 150	Y
13C2-PFDA	4.985	3536537	5.2003	104	50 - 150	Y
13C2-PFUnDA	5.172	4086957	5.0487	101	50 - 150	Y
13C2-PFDoDA	5.355	4839843	4.7203	94	50 - 150	Y
D7-MeFOSE	5.678	416648	3.5234	70	50 - 150	Y
D9-EtFOSE	5.812	384492	2.6961	54	50 - 150	Y
D5-EtFOSA	5.845	429249	3.5231	70	50 - 150	Y
13C2-8:2 FTS	4.983	632395	10.2297	205 *	50 - 150	Y
13C2-PFTeDA	5.670	2969880	3.5816	72	50 - 150	Y
13C4-PFHpA	4.444	2501888	3.5007	70	50 - 150	Y
13C5-PFPeA	3.990	908473	3.6394	73	50 - 150	Y
13C3-PFBS	4.039	646729	3.6719	73	50 - 150	Y
13C8-FOSA	5.316	1037048	3.3330	67	50 - 150	Y

Quant by IS

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.418	25700	0.0528	0.55	U	Y
Perfluoropentanoic acid (PFPeA)	3.991	83439	0.0607	0.63	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/25/17 8:15

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072417_b1\072417_117	**Instrument:**	K-LCMS-06
Acqu Date:	7/24/17 17:37	**Vial:**	11
Run Type:	N/A	**Dilution:**	1
Lab ID:	K1707681-002	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.033	3461	0.0316	0.33	U	Y
Perfluorohexanoic acid (PFHxA)	4.252	69418	0.0775	0.81	U	Y
Perfluoroheptanoic acid (PFHpA)	4.440	64160	0.1167	1.2	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.440	66118	0.6602	6.9		Y
Perfluorooctanoic acid (PFOA)	4.619	86037	0.0801	0.83	U	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.613	9253	0.1177	1.2	U	Y
Perfluorononanoic acid (PFNA)	4.797	74061	0.0918	0.95	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.781	748952	10.3373	110		Y
Perfluorodecanoic acid (PFDA)	4.984	246341	0.2543	2.6		Y
Perfluoroundecanoic acid (PFUnDA)	5.172	1456683	1.5448	16		Y
Perfluorooctane sulfonamide (FOSA)	5.316	112133	0.3521	3.7		Y
Perfluorododecanoic acid (PFDoDA)	5.355	454260	0.7186	7.5		Y
Perfluorotridecanoic acid (PFTrDA)	5.521	2684334	4.5430	47		Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.709	2260	0.0223	0.23	U	Y
N-Methyl perfluorooctane sulfonamidoethanol	0	0	0	0	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.670	93298	0.2053	2.1		Y
N-Ethyl perfluorooctane sulfonamidoethanol	0	0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0	0	0	0	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.983	106494	0.8734	9.1		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.606	9267	0.0783	0.81	U	Y
Perfluorodecane sulfonic acid (PFDS)	5.147	121413	1.4200	15		Y

Prep Amount:	1.118 g	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	68.80

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/25/17 8:15

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072417_117

Sample ID: K1707681-002
Date acquired: 7/24/2017 5:37:25 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_117.lcd
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 2

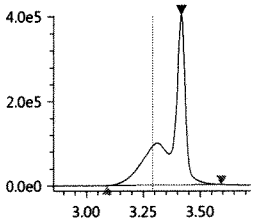
Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.418	1889789	1889789	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.418	1889789	450810	1	3.7435	ng/mL	----	----	Auto
PFBA	3.418	25700	1889789	2	0.0528	ng/mL	----	----	M
PFPeA-13C_IS	3.990	908473	908473	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.990	908473	450810	1	3.6394	ng/mL	----	----	Auto
PFPeA	3.991	83439	908473	4	0.0607	ng/mL	----	----	M
PFBS_1	4.033	3461	646729	16	0.0316	ng/mL	----	----	Auto
PFBS-13C	4.039	646729	450810	1	3.6719	ng/mL	----	----	Auto
PFBS-13C_IS	4.039	646729	646729	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.254	3141035	3141035	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.254	3141035	450810	1	4.4323	ng/mL	----	----	Auto
PFHxA	4.252	69418	3141035	6	0.0775	ng/mL	----	----	Auto
HPFO_DA	----	----	----	3	----	ng/mL	----	----	NI
HFPO_DA-13C_IS	4.320	669845	669845	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.320	669845	450810	1	3.8131	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.229	477113	477113	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.229	477113	450810	1	4.1674	ng/mL	----	----	Auto
4_2-FTS_1	4.192	457	477113	5	0.0038	ng/mL	----	----	Auto
PFHpA	4.440	64160	2501888	8	0.1167	ng/mL	----	----	Auto
PFHpA-13C_IS	4.444	2501888	2501888	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.444	2501888	450810	1	3.5007	ng/mL	----	----	Auto
PFHxS-18O_IS	4.440	360918	360918	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.440	360918	450810	1	3.4401	ng/mL	----	----	Auto
PFHxS_1	4.440	66118	360918	7	0.6602	ng/mL	----	----	Auto
6_2-FTS-13C	4.608	448860	450810	1	6.5418	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.608	448860	448860	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.606	9267	448860	10	0.0783	ng/mL	----	----	Auto
PFHpS_1	4.613	9253	360918	7	0.1177	ng/mL	----	----	M
PFOA-13C_IS	4.619	4251349	4251349	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.619	4251349	450810	1	4.6327	ng/mL	----	----	Auto
PFOA	4.619	86037	4251349	9	0.0801	ng/mL	----	----	Auto
PFOS_1	4.781	748952	446695	13	10.3373	ng/mL	----	----	Auto
PFOS-13C_IS	4.781	446695	446695	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.781	446695	450810	1	3.9002	ng/mL	----	----	Auto
PFNA-13C_IS	4.797	3660678	3660678	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.797	3660678	450810	1	4.4446	ng/mL	----	----	Auto
PFNA	4.797	74061	3660678	11	0.0918	ng/mL	----	----	Auto
PFDA-13C_IS	4.985	3536537	3536537	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.985	3536537	450810	1	5.2003	ng/mL	----	----	Auto
PFDA	4.984	246341	3536537	12	0.2543	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.983	632395	632395	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.983	632395	450810	1	10.2297	ng/mL	----	----	Auto
8_2-FTS_1	4.983	106494	632395	15	0.8734	ng/mL	----	----	Auto
PFDS_1	5.147	121413	446695	13	1.4200	ng/mL	----	----	M
PFUnA	5.172	1456683	4086957	14	1.5448	ng/mL	----	----	Auto
PFUnA-13C_IS	5.172	4086957	4086957	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.172	4086957	450810	1	5.0487	ng/mL	----	----	Auto
PFDoA	5.355	454260	4839843	17	0.7186	ng/mL	----	----	M
PFDoA-13C	5.355	4839843	450810	1	4.7203	ng/mL	----	----	Auto
PFDoA-13C_IS	5.355	4839843	4839843	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	5.363	639800	632395	15	5.3504	ng/mL	----	----	Auto
PFTrDA	5.521	2684334	2969880	22	4.5430	ng/mL	----	----	Auto
PFTeDA	5.670	93298	2969880	22	0.2053	ng/mL	----	----	Auto
PFTeDA-13C	5.670	2969880	450810	1	3.5816	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.670	2969880	2969880	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.316	1037048	1037048	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.316	1037048	450810	1	3.3330	ng/mL	----	----	Auto
FOSA	5.316	112133	1037048	18	0.3521	ng/mL	----	----	M
N-MeFOSAA	5.086	1135	1134143	19	0.0062	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.090	1134143	450810	1	5.6285	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.090	1134143	1134143	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.704	450810	450810	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.709	2260	416648	20	0.0223	ng/mL	----	----	M
N-MeFOSE-d7	5.678	416648	450810	1	3.5234	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.678	416648	416648	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	----	----	----	20	----	ng/mL	----	----	NI
N-EtFOSAA	5.203	732	1116314	21	0.0039	ng/mL	----	----	Auto

JT

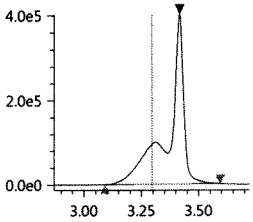
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.191	1116314	1116314	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.191	1116314	450810	1	6.1069	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.845	429249	429249	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.845	429249	450810	1	3.5231	ng/mL	----	----	Auto
N-EtFOSA	----	----	----	23	----	ng/mL	----	----	NI
N-EtFOSE-d9_IS	5.812	384492	384492	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.812	384492	450810	1	2.6961	ng/mL	----	----	Auto
N-EtFOSE	----	----	----	24	----	ng/mL	----	----	NI

PFBA-13C_IS
Conc 5.0000
RT 3.418 Area 1889789
ISTD 216.90>172.15 4.04e5

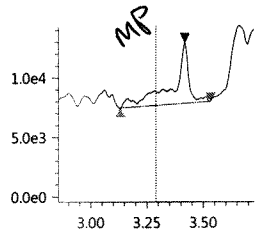


PFBA-13C
Conc 3.7435
RT 3.418 Area 1889789
Q 216.90>172.15 4.04e5

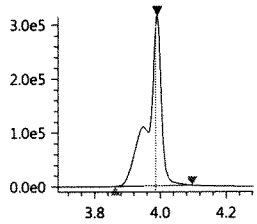


PFBA
Conc 0.0528
RT 3.418 Area 25700
Q 213.00>169.10 1.43e4

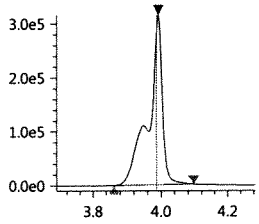
MP



PFPeA-13C_IS
Conc 5.0000
RT 3.990 Area 908473
ISTD 267.90>223.00 3.16e5

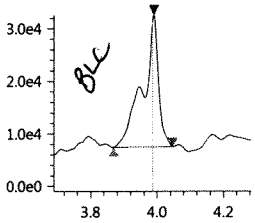


PFPeA-13C
Conc 3.6394
RT 3.990 Area 908473
Q 267.90>223.00 3.16e5

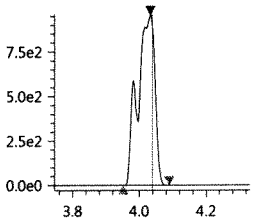


PFPeA
Conc 0.0607
RT 3.991 Area 83439
Q 263.05>219.10 3.26e4

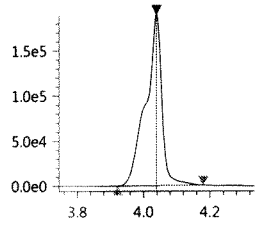
BLC



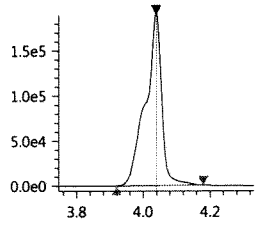
PFBS_1
Conc 0.0316
RT 4.033 Area 3461
Q 299.00>80.00 9.61e2



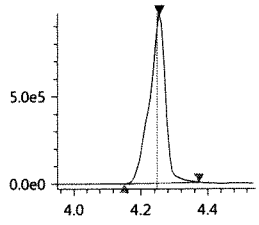
PFBS-13C
Conc 3.6719
RT 4.039 Area 646729
Q 301.80>80.00 1.90e5



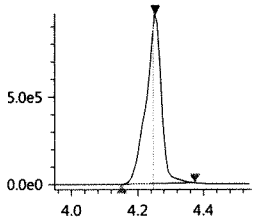
PFBS-13C_IS
Conc 5.0000
RT 4.039 Area 646729
ISTD 301.80>80.00 1.90e5



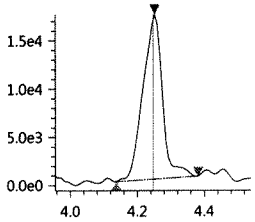
PFHxA-13C_IS
Conc 5.0000
RT 4.254 Area 3141035
ISTD 314.90>270.10 9.76e5



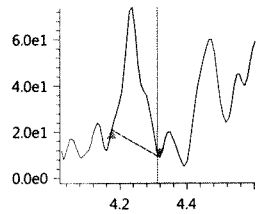
PFHxA-13C
Conc 4.4323
RT 4.254 Area 3141035
Q 314.90>270.10 9.76e5



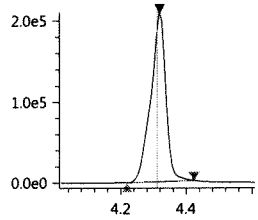
PFHxA
Conc 0.0775
RT 4.252 Area 69418
Q 313.00>269.00 1.77e4



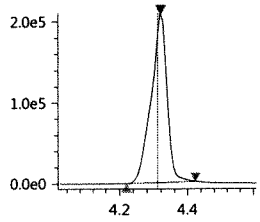
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 7.40e1



HFPO_DA-13C_IS
Conc 5.0000
RT 4.320 Area 669845
ISTD 332.00>286.80 2.11e5

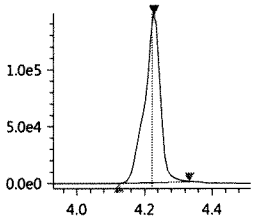


HFPO_DA-13C
Conc 3.8131
RT 4.320 Area 669845
Q 332.00>286.80 2.11e5

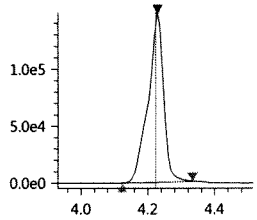


JUL 25 2017

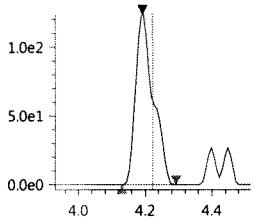
4_2-FTS-13C_IS
Conc 5.0000
RT 4.229 Area 477113
ISTD 328.80>309.05 1.49e5



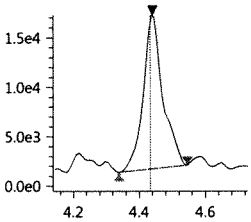
4_2-FTS-13C
Conc 4.1674
RT 4.229 Area 477113
Q 328.80>309.05 1.49e5



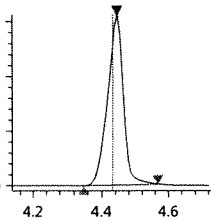
4_2-FTS_1
Conc 0.0038
RT 4.192 Area 457
Q 327.00>307.05 1.24e2



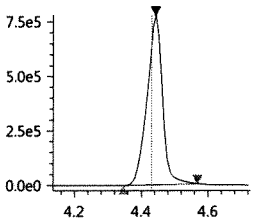
PFHpA
Conc 0.1167
RT 4.440 Area 64160
Q 362.90>319.00 1.73e4



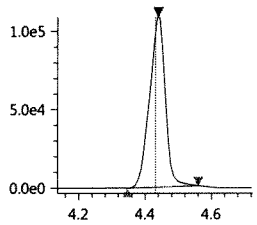
PFHpA-13C_IS
Conc 5.0000
RT 4.444 Area 2501888
ISTD 366.90>322.10 7.82e5



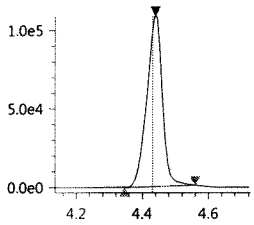
PFHpA-13C
Conc 3.5007
RT 4.444 Area 2501888
Q 366.90>322.10 7.82e5



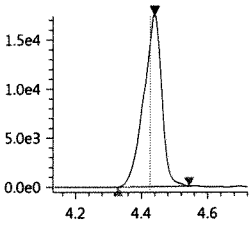
PFHxS-18O_IS
Conc 5.0000
RT 4.440 Area 360918
ISTD 402.70>84.05 1.09e5



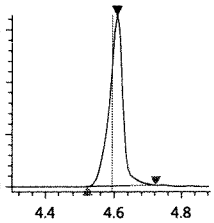
PFHxS-18O
Conc 3.4401
RT 4.440 Area 360918
Q 402.70>84.05 1.09e5



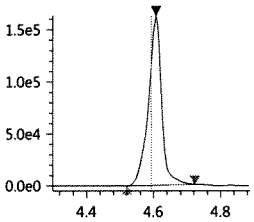
PFHxS_1
Conc 0.6602
RT 4.440 Area 66118
Q 399.00>80.00 1.75e4



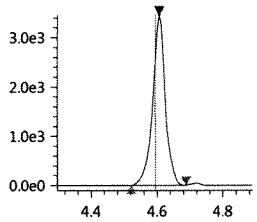
6_2-FTS-13C
Conc 6.5418
RT 4.608 Area 448860
Q 428.90>409.00 1.64e5



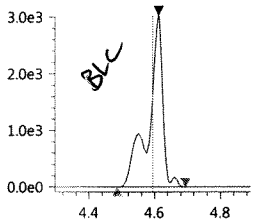
6_2-FTS-13C_IS
Conc 5.0000
RT 4.608 Area 448860
ISTD 428.90>409.00 1.64e5



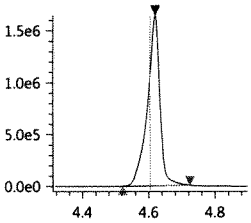
6_2-FTS_1
Conc 0.0783
RT 4.606 Area 9267
Q 427.00>407.00 3.46e3



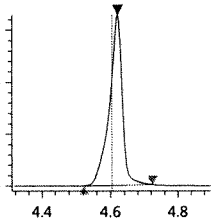
PFHpS_1
Conc 0.1177
RT 4.613 Area 9253
Q 449.00>80.15 3.02e3



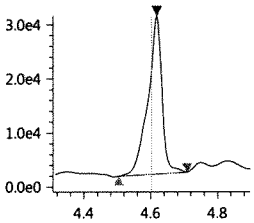
PFOA-13C_IS
Conc 5.0000
RT 4.619 Area 4251349
ISTD 416.80>372.05 1.65e6



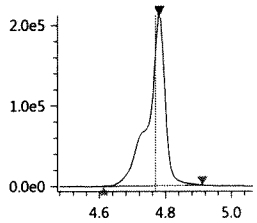
PFOA-13C
Conc 4.6327
RT 4.619 Area 4251349
Q 416.80>372.05 1.65e6



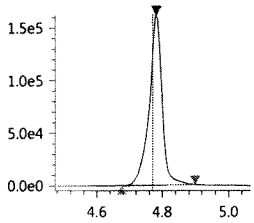
PFOA
Conc 0.0801
RT 4.619 Area 86037
Q 413.00>369.00 3.16e4



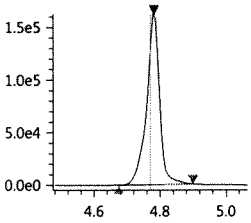
PFOS_1
Conc 10.3373
RT 4.781 Area 748952
Q 499.00>80.00 2.12e5



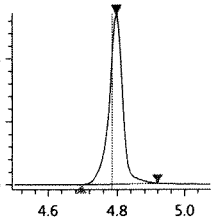
PFOS-13C_IS
Conc 5.0000
RT 4.781 Area 446695
ISTD 502.80>80.05 1.63e5



PFOS-13C
Conc 3.9002
RT 4.781 Area 446695
Q 502.80>80.05 1.63e5



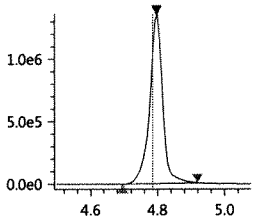
PFNA-13C_IS
Conc 5.0000
RT 4.797 Area 3660678
ISTD 467.80>423.00 1.36e6



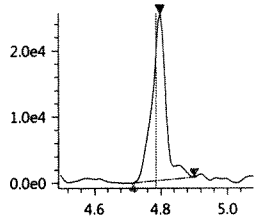
JUL 25 2017

JK

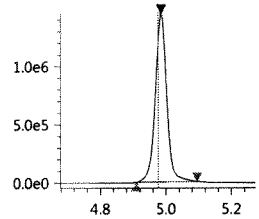
PFNA-13C
Conc 4.4446
RT 4.797 Area 3660678
Q 467.80>423.00 1.36e6



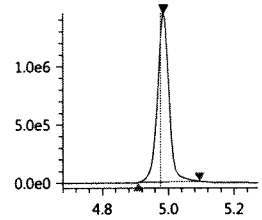
PFNA
Conc 0.0918
RT 4.797 Area 74061
Q 463.00>418.90 2.57e4



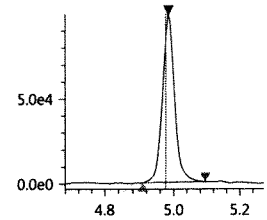
PFDA-13C_IS
Conc 5.0000
RT 4.985 Area 3536537
ISTD 514.80>469.95 1.46e6



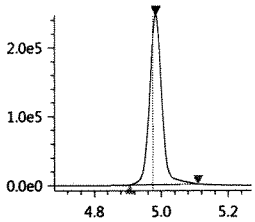
PFDA-13C
Conc 5.2003
RT 4.985 Area 3536537
Q 514.80>469.95 1.46e6



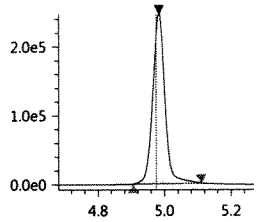
PFDA
Conc 0.2543
RT 4.984 Area 246341
Q 513.00>468.80 9.99e4



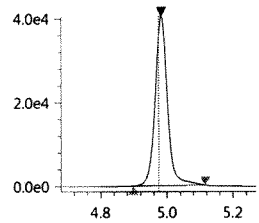
8_2-FTS-13C_IS
Conc 5.0000
RT 4.983 Area 632395
ISTD 528.80>509.00 2.47e5



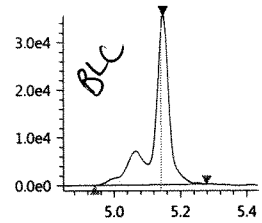
8_2-FTS-13C
Conc 10.2297
RT 4.983 Area 632395
Q 528.80>509.00 2.47e5



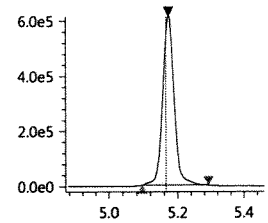
8_2-FTS_1
Conc 0.8734
RT 4.983 Area 106494
Q 526.90>506.90 4.06e4



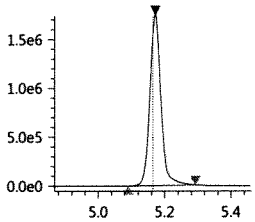
PFDS_1
Conc 1.4200
RT 5.147 Area 121413
Q 599.00>79.90 3.56e4



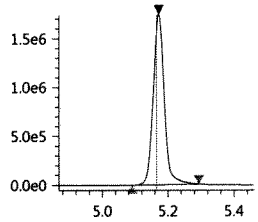
PFUnA
Conc 1.5448
RT 5.172 Area 1456683
Q 563.00>518.90 6.17e5



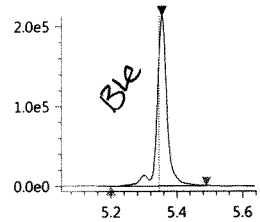
PFUnA-13C_IS
Conc 5.0000
RT 5.172 Area 4086957
ISTD 564.80>519.95 1.74e6



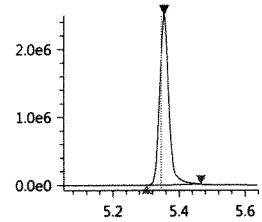
PFUnA-13C
Conc 5.0487
RT 5.172 Area 4086957
Q 564.80>519.95 1.74e6



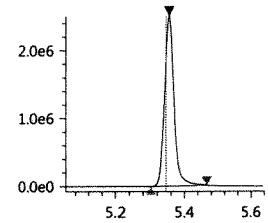
PFDoA
Conc 0.7186
RT 5.355 Area 454260
Q 613.05>569.00 2.13e5



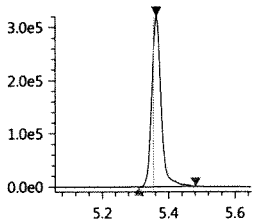
PFDoA-13C
Conc 4.7203
RT 5.355 Area 4839843
Q 614.80>569.95 2.50e6



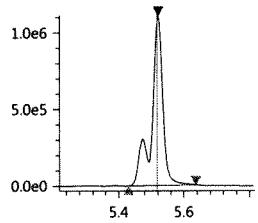
PFDoA-13C_IS
Conc 5.0000
RT 5.355 Area 4839843
ISTD 614.80>569.95 2.50e6



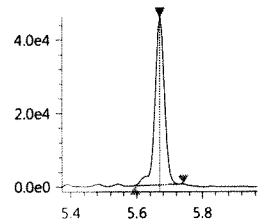
10_2-FtS_1
Conc 5.3504
RT 5.363 Area 639800
Q 627.00>606.95 3.21e5



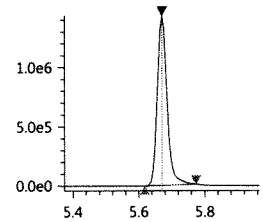
PFTrDA
Conc 4.5430
RT 5.521 Area 2684334
Q 663.00>618.90 1.11e6



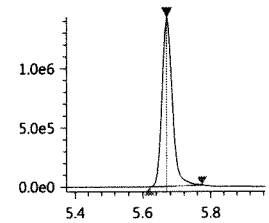
PFTeDA
Conc 0.2053
RT 5.670 Area 93298
Q 713.40>669.00 4.64e4



PFTeDA-13C
Conc 3.5816
RT 5.670 Area 2969880
Q 714.70>669.90 1.44e6

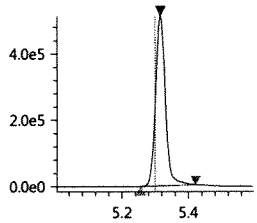


PFTeDA-13C_IS
Conc 5.0000
RT 5.670 Area 2969880
ISTD 714.70>669.90 1.44e6

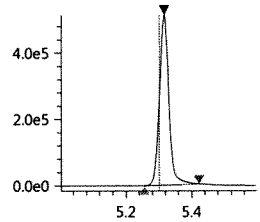


JUL 2 5 2017

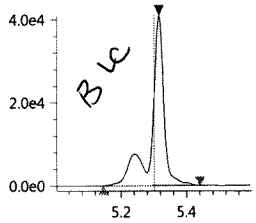
FOSA-13C_IS
Conc 5.0000
RT 5.316 Area 1037048
ISTD 506.00>78.05 5.14e5



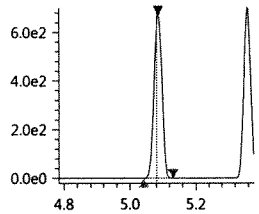
FOSA-13C
Conc 3.3330
RT 5.316 Area 1037048
Q 506.00>78.05 5.14e5



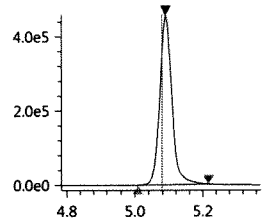
FOSA
Conc 0.3521
RT 5.316 Area 112133
Q 498.00>78.00 4.11e4



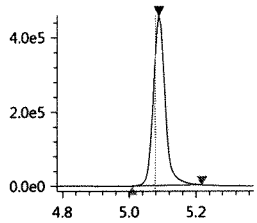
N-MeFOSAA
Conc 0.0062
RT 5.086 Area 1135
Q 570.20>419.00 7.03e2



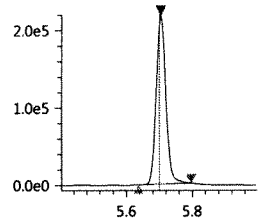
N-MeFOSAA-d3
Conc 5.6285
RT 5.090 Area 1134143
Q 572.80>419.05 4.61e5



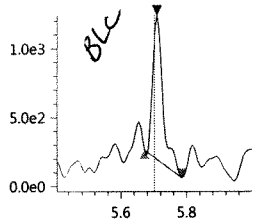
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.090 Area 1134143
ISTD 572.80>419.05 4.61e5



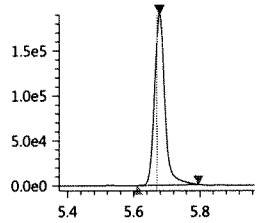
N-MeFOSA_IS
Conc 5.0000
RT 5.704 Area 450810
ISTD 514.90>168.90 2.21e5



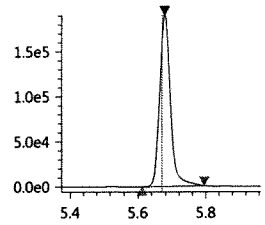
N-MeFOSA
Conc 0.0223
RT 5.709 Area 2260
Q 512.00>169.10 1.24e3



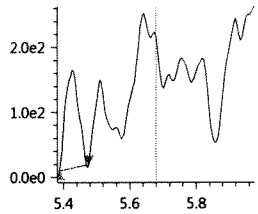
N-MeFOSE-d7
Conc 3.5234
RT 5.678 Area 416648
Q 622.70>59.10 1.91e5



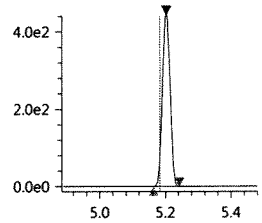
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.678 Area 416648
ISTD 622.70>59.10 1.91e5



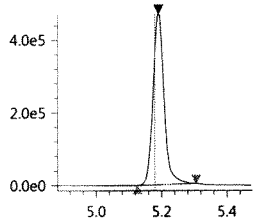
N-MeFOSE
Conc ----
RT ---- Area ----
Q 616.00>59.00 2.63e2



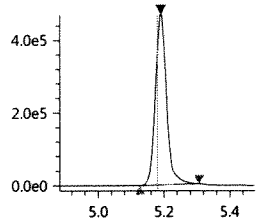
N-EtFOSAA
Conc 0.0039
RT 5.203 Area 732
Q 584.20>418.95 4.42e2



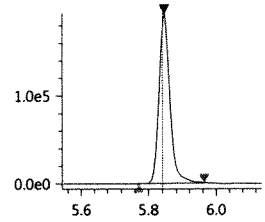
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.191 Area 1116314
ISTD 588.80>419.00 4.70e5



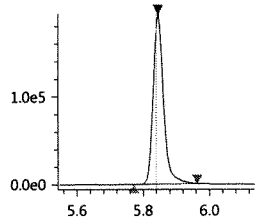
N-EtFOSAA-d5
Conc 6.1069
RT 5.191 Area 1116314
Q 588.80>419.00 4.70e5



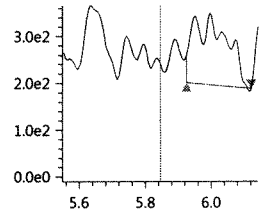
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.845 Area 429249
ISTD 530.90>169.15 1.95e5



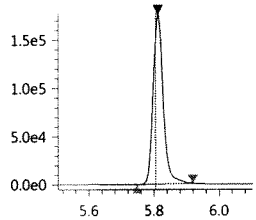
N-EtFOSA-d9
Conc 3.5231
RT 5.845 Area 429249
Q 530.90>169.15 1.95e5



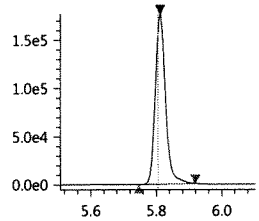
N-EtFOSA
Conc ----
RT ---- Area ----
Q 526.90>169.10 3.66e2



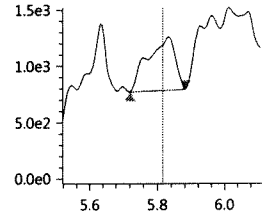
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.812 Area 384492
ISTD 638.70>59.10 1.78e5



N-EtFOSE-d9
Conc 2.6961
RT 5.812 Area 384492
Q 638.70>59.10 1.78e5



N-EtFOSE
Conc ----
RT ---- Area ----
Q 630.00>58.90 1.52e3

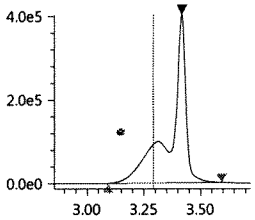


JUL 2 5 2017

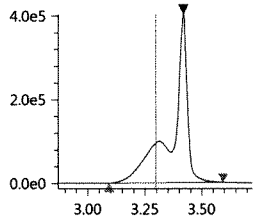
072417_117

Sample ID: K1707681-002
Date acquired: 7/24/2017 5:37:25 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_117.lcd
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 2

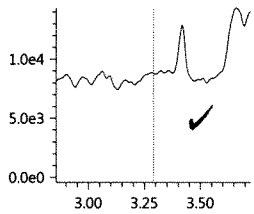
PFBA-13C_IS
Conc 5.0000
RT 3.418 Area 1889789
ISTD 216.90>172.15 4.04e5



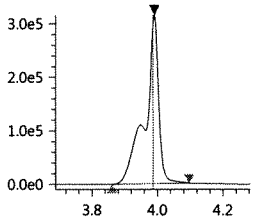
PFBA-13C
Conc 3.7435
RT 3.418 Area 1889789
Q 216.90>172.15 4.04e5



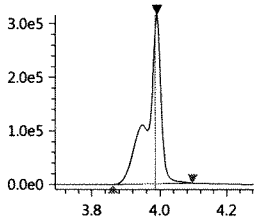
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 1.43e4



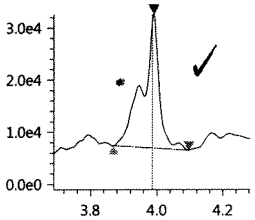
PFPeA-13C_IS
Conc 5.0000
RT 3.990 Area 908473
ISTD 267.90>223.00 3.16e5



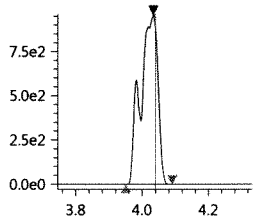
PFPeA-13C
Conc 3.6394
RT 3.990 Area 908473
Q 267.90>223.00 3.16e5



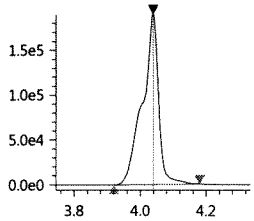
PFPeA
Conc 0.0717
RT 3.991 Area 89872
Q 263.05>219.10 3.26e4



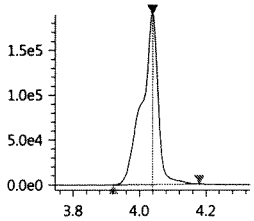
PFBS_1
Conc 0.0316
RT 4.033 Area 3461
Q 299.00>80.00 9.61e2



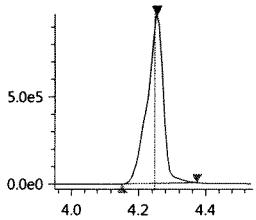
PFBS-13C
Conc 3.6719
RT 4.039 Area 646729
Q 301.80>80.00 1.90e5



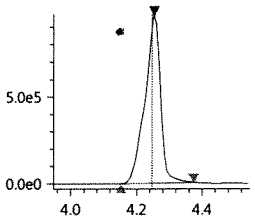
PFBS-13C_IS
Conc 5.0000
RT 4.039 Area 646729
ISTD 301.80>80.00 1.90e5



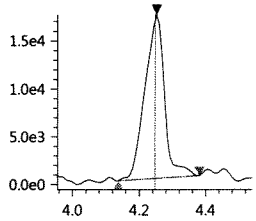
PFHxA-13C_IS
Conc 5.0000
RT 4.254 Area 3141035
ISTD 314.90>270.10 9.76e5



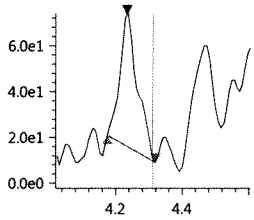
PFHxA-13C
Conc 4.4323
RT 4.254 Area 3141035
Q 314.90>270.10 9.76e5



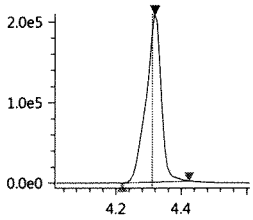
PFHxA
Conc 0.0775
RT 4.252 Area 69418
Q 313.00>269.00 1.77e4



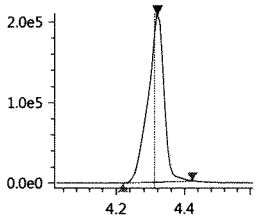
HPFO_DA
Conc 0.0017
RT 4.235 Area 211
Q 329.00>169.00 7.40e1



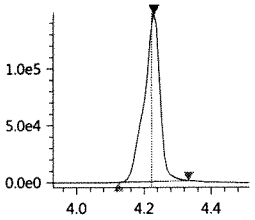
HFPO_DA-13C_IS
Conc 5.0000
RT 4.320 Area 669845
ISTD 332.00>286.80 2.11e5



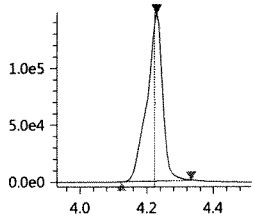
HFPO_DA-13C
Conc 3.8131
RT 4.320 Area 669845
Q 332.00>286.80 2.11e5



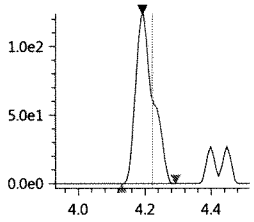
4_2-FTS-13C_IS
Conc 5.0000
RT 4.229 Area 477113
ISTD 328.80>309.05 1.49e5



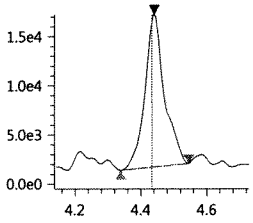
4_2-FTS-13C
Conc 4.1674
RT 4.229 Area 477113
Q 328.80>309.05 1.49e5



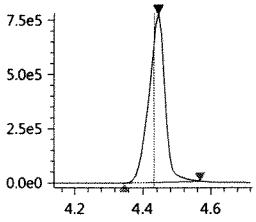
4_2-FTS_1
Conc 0.0038
RT 4.192 Area 457
Q 327.00>307.05 1.24e2



PFHpA
Conc 0.1167
RT 4.440 Area 64160
Q 362.90>319.00 1.73e4

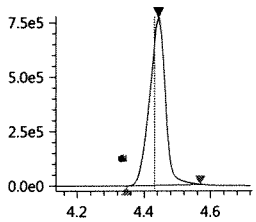


PFHpA-13C_IS
Conc 5.0000
RT 4.444 Area 2501888
ISTD 366.90>322.10 7.82e5

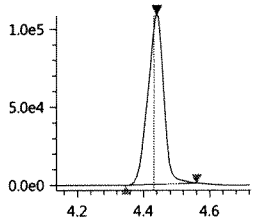


JUL 25 2017

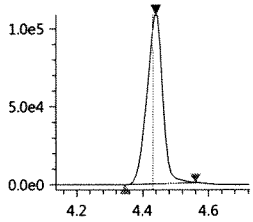
PFHpA-13C
Conc 3.5007
RT 4.444 Area 2501888
Q 366.90>322.10 7.82e5



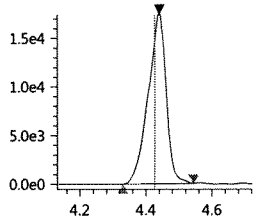
PFHxS-18O_IS
Conc 5.0000
RT 4.440 Area 360918
ISTD 402.70>84.05 1.09e5



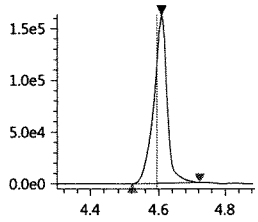
PFHxS-18O
Conc 3.4401
RT 4.440 Area 360918
Q 402.70>84.05 1.09e5



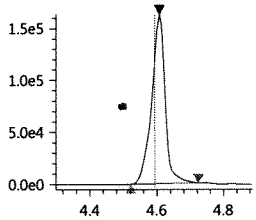
PFHxS_1
Conc 0.6602
RT 4.440 Area 66118
Q 399.00>80.00 1.75e4



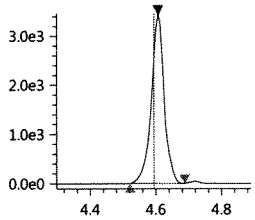
6_2-FTS-13C
Conc 6.5418
RT 4.608 Area 448860
Q 428.90>409.00 1.64e5



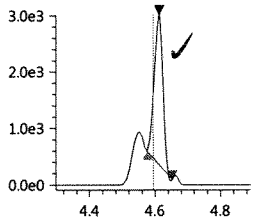
6_2-FTS-13C_IS
Conc 5.0000
RT 4.608 Area 448860
ISTD 428.90>409.00 1.64e5



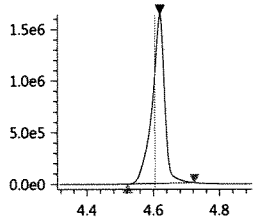
6_2-FTS_1
Conc 0.0783
RT 4.606 Area 9267
Q 427.00>407.00 3.46e3



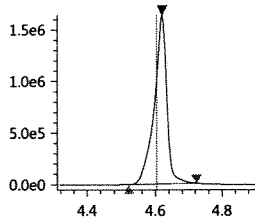
PFHpS_1
Conc 0.0632
RT 4.613 Area 4967
Q 449.00>80.15 3.02e3



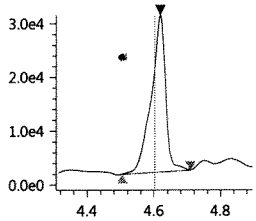
PFOA-13C_IS
Conc 5.0000
RT 4.619 Area 4251349
ISTD 416.80>372.05 1.65e6



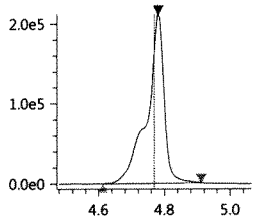
PFOA-13C
Conc 4.6327
RT 4.619 Area 4251349
Q 416.80>372.05 1.65e6



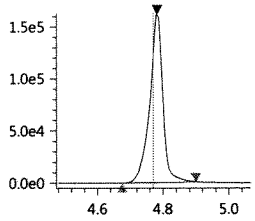
PFOA
Conc 0.0801
RT 4.619 Area 86037
Q 413.00>369.00 3.16e4



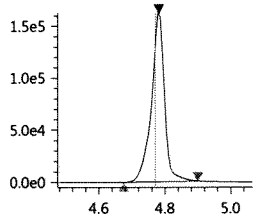
PFOS_1
Conc 10.3373
RT 4.781 Area 748952
Q 499.00>80.00 2.12e5



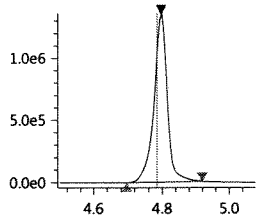
PFOS-13C_IS
Conc 5.0000
RT 4.781 Area 446695
ISTD 502.80>80.05 1.63e5



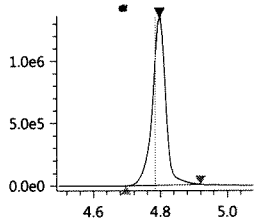
PFOS-13C
Conc 3.9002
RT 4.781 Area 446695
Q 502.80>80.05 1.63e5



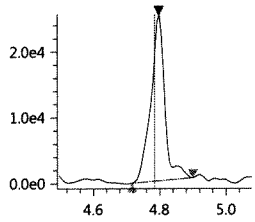
PFNA-13C_IS
Conc 5.0000
RT 4.797 Area 3660678
ISTD 467.80>423.00 1.36e6



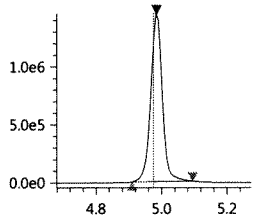
PFNA-13C
Conc 4.4446
RT 4.797 Area 3660678
Q 467.80>423.00 1.36e6



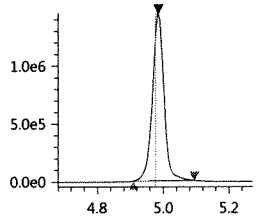
PFNA
Conc 0.0918
RT 4.797 Area 74061
Q 463.00>418.90 2.57e4



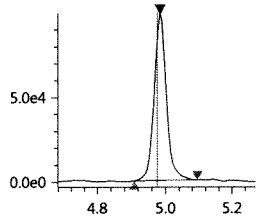
PFDA-13C_IS
Conc 5.0000
RT 4.985 Area 3536537
ISTD 514.80>469.95 1.46e6



PFDA-13C
Conc 5.2003
RT 4.985 Area 3536537
Q 514.80>469.95 1.46e6



PFDA
Conc 0.2543
RT 4.984 Area 246341
Q 513.00>468.80 9.99e4

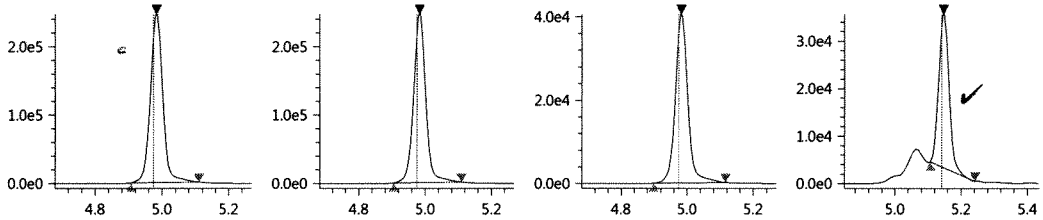


8_2-FTS-13C_IS
Conc 5.0000
RT 4.983 Area 632395
ISTD 528.80>509.00 2.47e5

8_2-FTS-13C
Conc 10.2297
RT 4.983 Area 632395
Q 528.80>509.00 2.47e5

8_2-FTS_1
Conc 0.8734
RT 4.983 Area 106494
Q 526.90>506.90 4.06e4

PFDS_1
Conc 0.8336
RT 5.147 Area 71268
Q 599.00>79.90 3.56e4



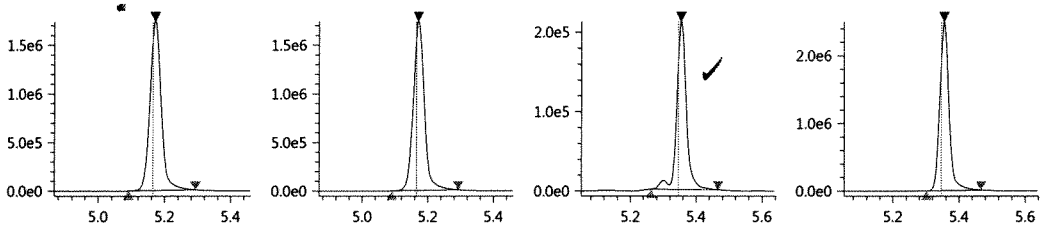
PFUnA
Conc 1.5448
RT 5.172 Area 1456683
Q 563.00>518.90 6.17e5

PFUnA-13C_IS
Conc 5.0000
RT 5.172 Area 4086957
ISTD 564.80>519.95 1.74e6

PFUnA-13C
Conc 5.0487
RT 5.172 Area 4086957
Q 564.80>519.95 1.74e6

PFDoA
Conc 0.6844
RT 5.355 Area 432648
Q 613.05>569.00 2.13e5

PFDoA-13C
Conc 4.7203
RT 5.355 Area 4839843
Q 614.80>569.95 2.50e6



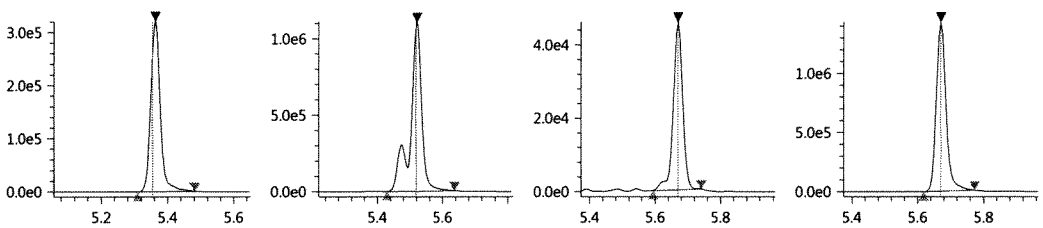
PFDoA-13C_IS
Conc 5.0000
RT 5.355 Area 4839843
ISTD 614.80>569.95 2.50e6

10_2-FtS_1
Conc 5.3504
RT 5.363 Area 639800
Q 627.00>606.95 3.21e5

PFTrDA
Conc 4.5430
RT 5.521 Area 2684334
Q 663.00>618.90 1.11e6

PFTeDA
Conc 0.2053
RT 5.670 Area 93298
Q 713.40>669.00 4.64e4

PFTeDA-13C
Conc 3.5816
RT 5.670 Area 2969880
Q 714.70>669.90 1.44e6



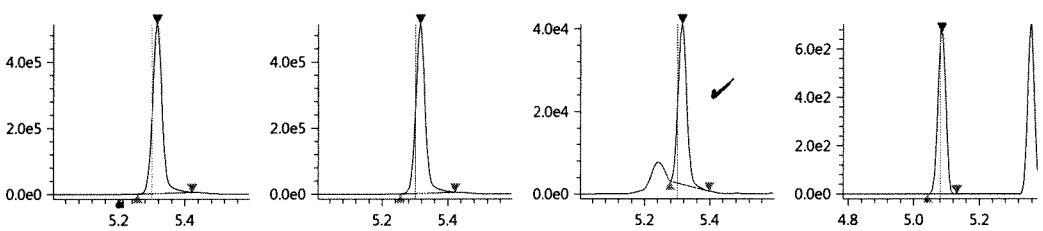
PFTeDA-13C_IS
Conc 5.0000
RT 5.670 Area 2969880
ISTD 714.70>669.90 1.44e6

FOSA-13C_IS
Conc 5.0000
RT 5.316 Area 1037048
ISTD 506.00>78.05 5.14e5

FOSA-13C
Conc 3.3330
RT 5.316 Area 1037048
Q 506.00>78.05 5.14e5

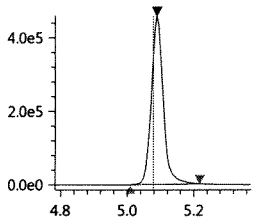
FOSA
Conc 0.2302
RT 5.316 Area 73321
Q 498.00>78.00 4.11e4

N-MeFOSAA
Conc 0.0062
RT 5.086 Area 1135
Q 570.20>419.00 7.03e2

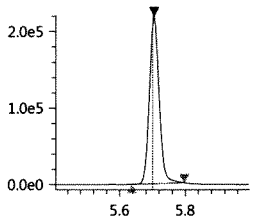


N-MeFOSAA-d3
Conc 5.6285
RT 5.090 Area 1134143
Q 572.80>419.05 4.61e5

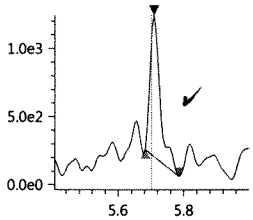
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.090 Area 1134143
ISTD 572.80>419.05 4.61e5



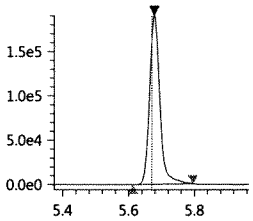
N-MeFOSA_IS
Conc 5.0000
RT 5.704 Area 450810
ISTD 514.90>168.90 2.21e5



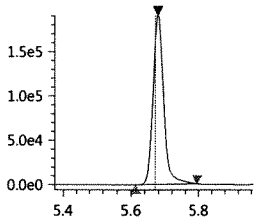
N-MeFOSA
Conc 0.0220
RT 5.709 Area 2229
Q 512.00>169.10 1.24e3



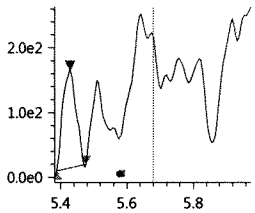
N-MeFOSE-d7
Conc 3.5234
RT 5.678 Area 416648
Q 622.70>59.10 1.91e5



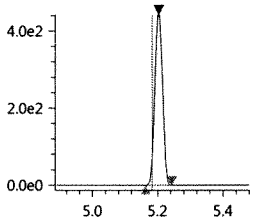
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.678 Area 416648
ISTD 622.70>59.10 1.91e5



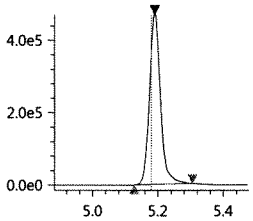
N-MeFOSE
Conc 0.0028
RT 5.428 Area 414
Q 616.00>59.00 2.63e2



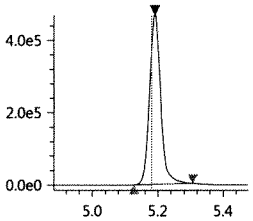
N-EtFOSAA
Conc 0.0039
RT 5.203 Area 732
Q 584.20>418.95 4.42e2



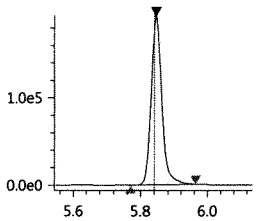
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.191 Area 1116314
ISTD 588.80>419.00 4.70e5



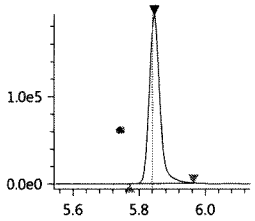
N-EtFOSAA-d5
Conc 6.1069
RT 5.191 Area 1116314
Q 588.80>419.00 4.70e5



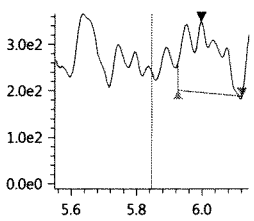
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.845 Area 429249
ISTD 530.90>169.15 1.95e5



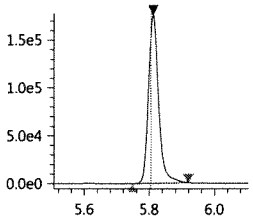
N-EtFOSA-d9
Conc 3.5231
RT 5.845 Area 429249
Q 530.90>169.15 1.95e5



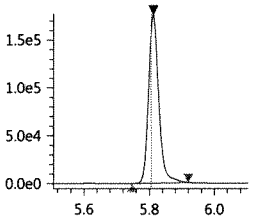
N-EtFOSA
Conc 0.0665
RT 5.997 Area 1055
Q 526.90>169.10 3.66e2



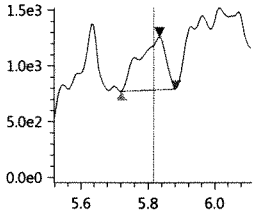
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.812 Area 384492
ISTD 638.70>59.10 1.78e5



N-EtFOSE-d9
Conc 2.6961
RT 5.812 Area 384492
Q 638.70>59.10 1.78e5



N-EtFOSE
Conc 0.0217
RT 5.833 Area 2614
Q 630.00>58.90 1.52e3



Validation Report

Data File: J:\LCMS06\Data\072417_b1_IS\072417_117
Lab ID: K1707681-002
RunType: N/A
Matrix: Soil

Date Acquired: 7/24/17 17:37
Batch ID: 554813
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Surrogates	13C2-8:2 FTS	205	50	150	Quant by IS

Primary Review: JT 7/25/17

Secondary Review: JUL 25 2017

Printed: 7/25/17 9:18
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072417_b1_IS\072417_117	**Instrument:**	K-LCMS-06
Acqu Date:	7/24/17 17:37	**Vial:**	3
Run Type:	N/A	**Dilution:**	1
Lab ID:	K1707681-002	**Raw Units:**	ng/mL

Bottle ID:	K1707681-002.01	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	554813	**Prep Lot:**	293302	**Report Group:**	K1707681
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3550B		
		Prep Date:	7/24/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700129
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.704	450810	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec		% Rec Criteria	Rpt?
13C2-8:2 FTS	4.983	632395	10.2297	205	*	50 - 150	Y

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.983	106494	0.8734	9.1		Y

Prep Amount:	1.118 g	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	68.80

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/25/17 9:18

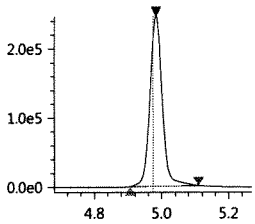
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072417_117

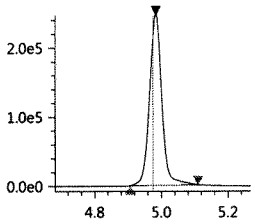
Sample ID: K1707681-002
Date acquired: 7/24/2017 5:37:25 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_117.lcd
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
8_2-FTS-13C_IS	4.983	632395	632395	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.983	632395	450810	1	10.2297	ng/mL	----	----	Auto
8_2-FTS_1	4.983	106494	450810	1	1.7861	ng/mL	----	----	Auto
N-MeFOSA_IS	5.704	450810	450810	1	5.0000	ng/mL	----	----	Auto

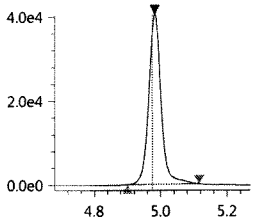
8_2-FTS-13C_IS
Conc 5.0000
RT 4.983 Area 632395
ISTD 528.80>509.00 2.47e5



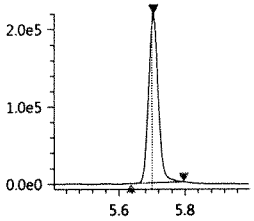
8_2-FTS-13C
Conc 10.2297
RT 4.983 Area 632395
Q 528.80>509.00 2.47e5



8_2-FTS_1
Conc 1.7861
RT 4.983 Area 106494
Q 526.90>506.90 4.06e4



N-MeFOSA_IS
Conc 5.0000
RT 5.704 Area 450810
ISTD 514.90>168.90 2.21e5



Validation Report

Data File: J:\LCMS06\Data\072617_b2\072617_122
Lab ID: K1707681-006
RunType: N/A
Matrix: Water

Date Acquired: 7/26/17 12:53
Batch ID: 555050
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Lab Control Sample Recovery		X
Duplicate Lab Control Sample Recovery		X
Method Blank	X	
Method Blank Surrogates		X
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-6:2 FTS	185	70	130	Nonrate-native on
	13C2-8:2 FTS	169	70	130	↓
Lab Control Sample Recovery	Perfluorohexane sulfonic acid (PFHxS)	61	71	130	RR to confirm
	Perfluoroheptane sulfonic acid (PFHpS)	66	69	148	
	Perfluorooctane sulfonic acid (PFOS)	69	74	135	
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	73	74	132	
	Perfluorodecane sulfonic acid (PFDS)	61	69	128	
Duplicate Lab Control Sample Recovery	Perfluorohexane sulfonic acid (PFHxS)	66	71	130	
	Perfluorooctane sulfonic acid (PFOS)	70	74	135	
	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	64	69	146	
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	68	74	132	
	Perfluorodecane sulfonic acid (PFDS)	59	69	128	↓
Method Blank Surrogates	13C2-8:2 FTS	161	50	150	Nonrate↑ bias, ND
Surrogates	13C2-8:2 FTS	165	50	150	↓

Primary Review: JT 7/27/17
JUL 27 2017

Secondary Review: [signature]

Printed: 7/27/17 9:27
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072617_b2\072617_122	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 12:53	**Vial:**	6
Run Type:	N/A	**Dilution:**	1
Lab ID:	K1707681-006	**Raw Units:**	ng/mL

Bottle ID:	K1707681-006.01	**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	555050	**Prep Lot:**	293672	**Report Group:**	K1707681
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	7/25/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.697	396205	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.413	2424349	5.4643	109	19 - 126	Y
13C2-PFHxA	4.246	3507719	5.6319	113	10 - 151	Y
18O2-PFHxS	4.433	397945	4.3157	86	20 - 128	Y
13C2-6:2 FTS	4.599	421003	6.9814	140	10 - 187	Y
13C4-PFOA	4.610	4249187	5.2685	105	13 - 142	Y
13C5-PFNA	4.789	3650744	5.0434	101	15 - 143	Y
13C4-PFOS	4.772	458028	4.5504	91	11 - 131	Y
13C2-PFDA	4.977	3119463	5.2192	104	25 - 129	Y
13C2-PFUnDA	5.165	3569654	5.0174	100	16 - 129	Y
13C2-PFDoDA	5.348	4329967	4.8050	96	17 - 114	Y
D7-MeFOSE	5.670	375476	3.6129	72	32 - 113	Y
D9-EtFOSE	5.805	386903	3.0869	62	20 - 113	Y
D5-EtFOSA	5.837	379975	3.5485	71 ↑ bias!	19 - 103	Y
13C2-8:2 FTS	4.975	447400	8.2346	165 * ND	50 - 150	Y
13C2-PFTeDA	5.665	3077153	4.2225	84	50 - 150	Y
13C4-PFHpA	4.436	3040959	4.8414	97	50 - 150	Y
13C5-PFPeA	3.983	1097401	5.0021	100	50 - 150	Y
13C3-PFBS	4.032	553314	3.5744	71	50 - 150	Y
13C8-FOSA	5.308	1130259	4.1333	83	50 - 150	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	0	0	0	0	U	Y
Perfluoropentanoic acid (PFPeA)	3.983	56044	-0.0027	0	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 9:27

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072617_b2\072617_122	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 12:53	**Vial:**	6
Run Type:	N/A	**Dilution:**	1
Lab ID:	K1707681-006	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.027	232	0.0025	0.068	U	Y
Perfluorohexanoic acid (PFHxA)	4.222	22263	-0.0048	0	U	Y
Perfluoroheptanoic acid (PFHpA)	4.428	17385	0.0260	0.70	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.433	3258	0.0295	0.80	U	Y
Perfluorooctanoic acid (PFOA)	4.602	22487	0.0209	0.56	U	Y
Perfluoroheptane sulfonic acid (PFHpS)	0	0	0	0	U	Y
Perfluorononanoic acid (PFNA)	4.782	14100	0.0175	0.47	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.769	1134	0.0153	0.41	U	Y
Perfluorodecanoic acid (PFDA)	4.971	11039	0.0129	0.35	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.163	19638	0.0238	0.64	U	Y
Perfluorooctane sulfonamide (FOSA)	5.309	1853	0.0053	0.14	U	Y
Perfluorododecanoic acid (PFDoDA)	5.344	6597	0.0117	0.32	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.512	13338	0.0218	0.59	U	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.699	1033	0.0113	0.31	U	Y
N-Methyl perfluorooctane sulfonamidoethanol	0	0	0	0	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.664	32533	0.0093	0.25	U	Y
N-Ethyl perfluorooctane sulfonamidoethanol	0	0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0	0	0	0	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0	0	0	0	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.602	409	0.0037	0.10	U	Y
Perfluorodecane sulfonic acid (PFDS)	0	0	0	0	U	Y

Prep Amount:	148.0000 mL	**Dilution:**	1
Prep Final Amount:	4.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 9:27

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072617_122

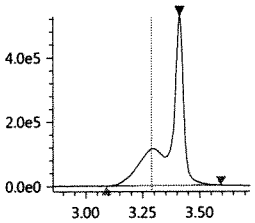
Sample ID: K1707681-006
Date acquired: 7/26/2017 12:53:44 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b2\072617_122.lcd
Vial: 13 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.413	2424349	2424349	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.413	2424349	396205	1	5.4643	ng/mL	----	----	Auto
PFBA	----	----	----	2	----	ng/mL	----	----	ND(W/B)
PFPeA-13C_IS	3.983	1097401	1097401	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.983	1097401	396205	1	5.0021	ng/mL	----	----	Auto
PFPeA	3.983	56044	1097401	4	-0.0027	ng/mL	----	----	Auto
PFBS_1	4.027	232	553314	16	0.0025	ng/mL	----	----	Auto
PFBS-13C	4.032	553314	396205	1	3.5744	ng/mL	----	----	Auto
PFBS-13C_IS	4.032	553314	553314	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.246	3507719	3507719	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.246	3507719	396205	1	5.6319	ng/mL	----	----	Auto
PFHxA	4.222	22263	3507719	6	-0.0048	ng/mL	----	----	M
HPFO_DA	----	----	----	3	----	ng/mL	----	----	NI
HFPO_DA-13C_IS	4.312	652398	652398	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.312	652398	396205	1	4.2257	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.220	480995	480995	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.220	480995	396205	1	4.7803	ng/mL	----	----	Auto
4_2-FTS_1	----	----	----	5	----	ng/mL	----	----	ND(W/B)
PFHpA	4.428	17385	3040959	8	0.0260	ng/mL	----	----	M
PFHpA-13C_IS	4.436	3040959	3040959	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.436	3040959	396205	1	4.8414	ng/mL	----	----	Auto
PFHxS-18O_IS	4.433	397945	397945	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.433	397945	396205	1	4.3157	ng/mL	----	----	Auto
PFHxS_1	4.433	3258	397945	7	0.0295	ng/mL	----	----	Auto
6_2-FTS-13C	4.599	421003	396205	1	6.9814	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.599	421003	421003	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.602	409	421003	10	0.0037	ng/mL	----	----	Auto
PFHpS_1	----	----	----	7	----	ng/mL	----	----	ND(W/B)
PFOA-13C_IS	4.610	4249187	4249187	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.610	4249187	396205	1	5.2685	ng/mL	----	----	Auto
PFOA	4.602	22487	4249187	9	0.0209	ng/mL	----	----	Auto
PFOS_1	4.769	1134	458028	13	0.0153	ng/mL	----	----	M
PFOS-13C_IS	4.772	458028	458028	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.772	458028	396205	1	4.5504	ng/mL	----	----	Auto
PFNA-13C_IS	4.789	3650744	3650744	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.789	3650744	396205	1	5.0434	ng/mL	----	----	Auto
PFNA	4.782	14100	3650744	11	0.0175	ng/mL	----	----	Auto
PFDA-13C_IS	4.977	3119463	3119463	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.977	3119463	396205	1	5.2192	ng/mL	----	----	Auto
PFDA	4.971	11039	3119463	12	0.0129	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.975	447400	447400	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.975	447400	396205	1	8.2346	ng/mL	----	----	Auto
8_2-FTS_1	----	----	----	15	----	ng/mL	----	----	ND(W/B)
PFDS_1	----	----	----	13	----	ng/mL	----	----	NI
PFUnA	5.163	19638	3569654	14	0.0238	ng/mL	----	----	M
PFUnA-13C_IS	5.165	3569654	3569654	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.165	3569654	396205	1	5.0174	ng/mL	----	----	Auto
PFDoA	5.344	6597	4329967	17	0.0117	ng/mL	----	----	Auto
PFDoA-13C	5.348	4329967	396205	1	4.8050	ng/mL	----	----	Auto
PFDoA-13C_IS	5.348	4329967	4329967	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	5.351	705	447400	15	0.0083	ng/mL	----	----	Auto
PFTrDA	5.512	13338	3077153	22	0.0218	ng/mL	----	----	M
PFTeDA	5.664	32533	3077153	22	0.0093	ng/mL	----	----	Auto
PFTeDA-13C	5.665	3077153	396205	1	4.2225	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.665	3077153	3077153	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.308	1130259	1130259	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.308	1130259	396205	1	4.1333	ng/mL	----	----	Auto
FOSA	5.309	1853	1130259	18	0.0053	ng/mL	----	----	Auto
N-MeFOSAA	----	----	----	19	----	ng/mL	----	----	ND(W/B)
N-MeFOSAA-d3	5.084	785489	396205	1	4.4355	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.084	785489	785489	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.697	396205	396205	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.699	1033	375476	20	0.0113	ng/mL	----	----	M
N-MeFOSE-d7	5.670	375476	396205	1	3.6129	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.670	375476	375476	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	----	----	----	20	----	ng/mL	----	----	NI
N-EtFOSAA	5.194	182	728552	21	0.0015	ng/mL	----	----	Auto

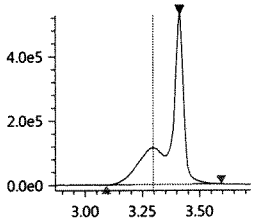
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.183	728552	728552	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.183	728552	396205	1	4.5349	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.837	379975	379975	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.837	379975	396205	1	3.5485	ng/mL	----	----	Auto
N-EtFOSA	----	----	----	23	----	ng/mL	----	----	NI
N-EtFOSE-d9_IS	5.805	386903	386903	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.805	386903	396205	1	3.0869	ng/mL	----	----	Auto
N-EtFOSE	----	----	----	24	----	ng/mL	----	----	NI

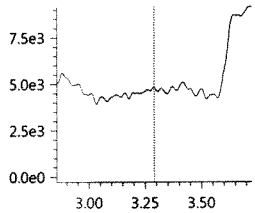
PFBA-13C_IS
Conc 5.0000
RT 3.413 Area 2424349
ISTD 216.90>172.15 5.30e5



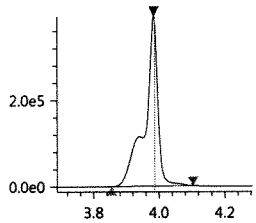
PFBA-13C
Conc 5.4643
RT 3.413 Area 2424349
Q 216.90>172.15 5.30e5



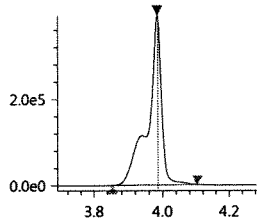
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 9.19e3



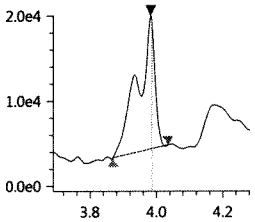
PFPeA-13C_IS
Conc 5.0000
RT 3.983 Area 1097401
ISTD 267.90>223.00 3.94e5



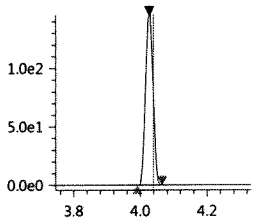
PFPeA-13C
Conc 5.0021
RT 3.983 Area 1097401
Q 267.90>223.00 3.94e5



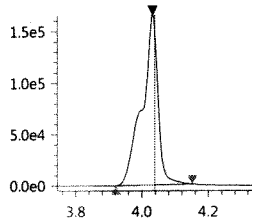
PFPeA
Conc -0.0027
RT 3.983 Area 56044
Q 263.05>219.10 2.00e4



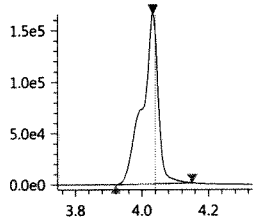
PFBS_1
Conc 0.0025
RT 4.027 Area 232
Q 299.00>80.00 1.46e2



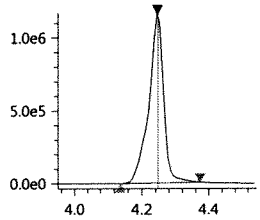
PFBS-13C
Conc 3.5744
RT 4.032 Area 553314
Q 301.80>80.00 1.66e5



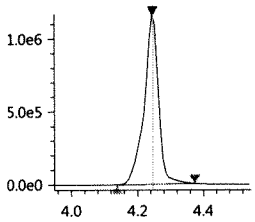
PFBS-13C_IS
Conc 5.0000
RT 4.032 Area 553314
ISTD 301.80>80.00 1.66e5



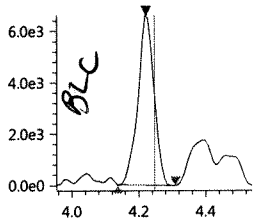
PFHxA-13C_IS
Conc 5.0000
RT 4.246 Area 3507719
ISTD 314.90>270.10 1.17e6



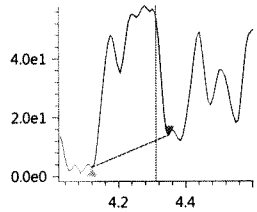
PFHxA-13C
Conc 5.6319
RT 4.246 Area 3507719
Q 314.90>270.10 1.17e6



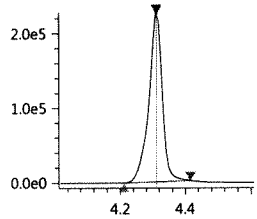
PFHxA
Conc -0.0048
RT 4.222 Area 22263
Q 313.00>269.00 6.64e3



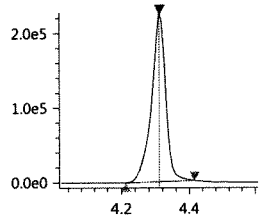
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 5.80e1



HFPO_DA-13C_IS
Conc 5.0000
RT 4.312 Area 652398
ISTD 332.00>286.80 2.28e5



HFPO_DA-13C
Conc 4.2257
RT 4.312 Area 652398
Q 332.00>286.80 2.28e5



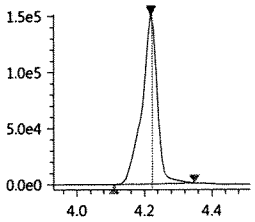
JUL 27 2017

Insight Report

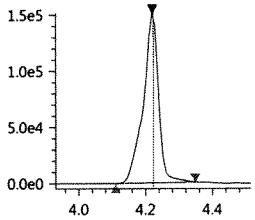
Printed at 7/27/2017 8:55:49 AM

JT

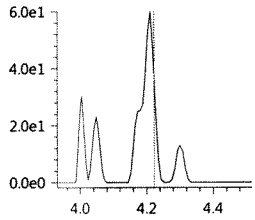
4_2-FTS-13C_IS
Conc 5.0000
RT 4.220 Area 480995
ISTD 328.80>309.05 1.52e5



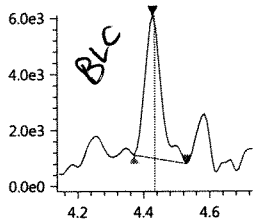
4_2-FTS-13C
Conc 4.7803
RT 4.220 Area 480995
Q 328.80>309.05 1.52e5



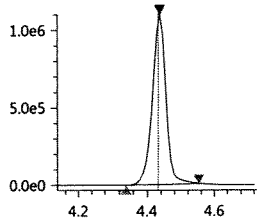
4_2-FTS_1
Conc ----
RT ---- Area ----
Q 327.00>307.05 6.00e1



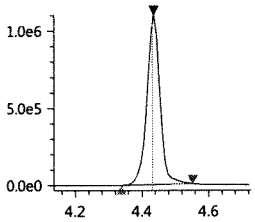
PFHpA
Conc 0.0260
RT 4.428 Area 17385
Q 362.90>319.00 6.11e3



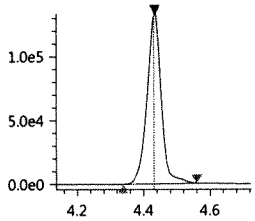
PFHpA-13C_IS
Conc 5.0000
RT 4.436 Area 3040959
ISTD 366.90>322.10 1.11e6



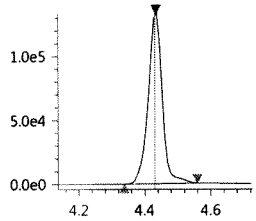
PFHpA-13C
Conc 4.8414
RT 4.436 Area 3040959
Q 366.90>322.10 1.11e6



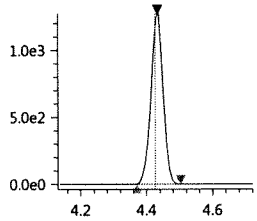
PFHxS-18O_IS
Conc 5.0000
RT 4.433 Area 397945
ISTD 402.70>84.05 1.34e5



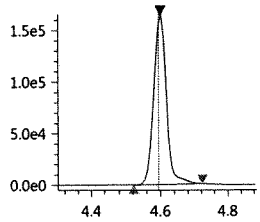
PFHxS-18O
Conc 4.3157
RT 4.433 Area 397945
Q 402.70>84.05 1.34e5



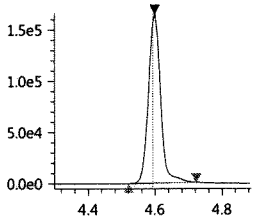
PFHxS_1
Conc 0.0295
RT 4.433 Area 3258
Q 399.00>80.00 1.28e3



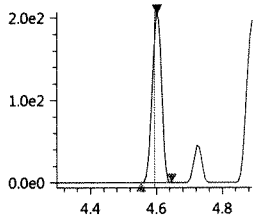
6_2-FTS-13C
Conc 6.9814
RT 4.599 Area 421003
Q 428.90>409.00 1.66e5



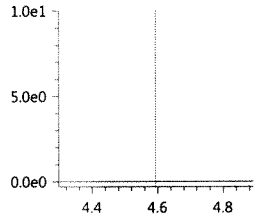
6_2-FTS-13C_IS
Conc 5.0000
RT 4.599 Area 421003
ISTD 428.90>409.00 1.66e5



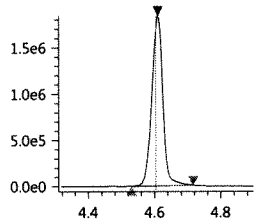
6_2-FTS_1
Conc 0.0037
RT 4.602 Area 409
Q 427.00>407.00 2.07e2



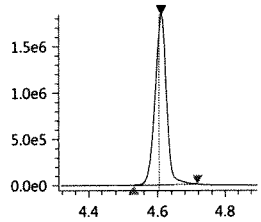
PFHpS_1
Conc ----
RT ---- Area ----
Q 449.00>80.15 0.00e0



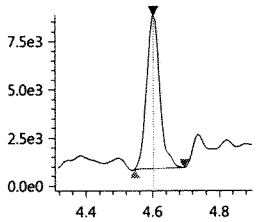
PFOA-13C_IS
Conc 5.0000
RT 4.610 Area 4249187
ISTD 416.80>372.05 1.85e6



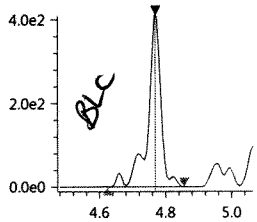
PFOA-13C
Conc 5.2685
RT 4.610 Area 4249187
Q 416.80>372.05 1.85e6



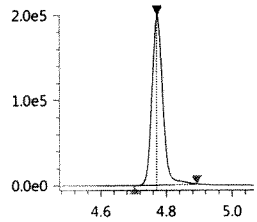
PFOA
Conc 0.0209
RT 4.602 Area 22487
Q 413.00>369.00 8.87e3



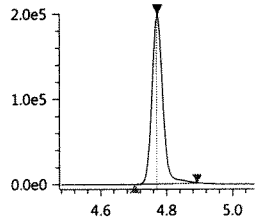
PFOS_1
Conc 0.0153
RT 4.769 Area 1134
Q 499.00>80.00 4.10e2



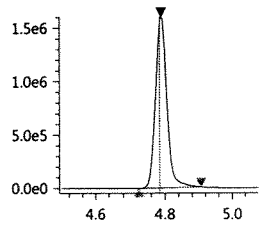
PFOS-13C_IS
Conc 5.0000
RT 4.772 Area 458028
ISTD 502.80>80.05 2.01e5



PFOS-13C
Conc 4.5504
RT 4.772 Area 458028
Q 502.80>80.05 2.01e5



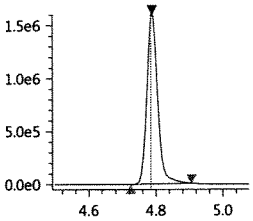
PFNA-13C_IS
Conc 5.0000
RT 4.789 Area 3650744
ISTD 467.80>423.00 1.61e6



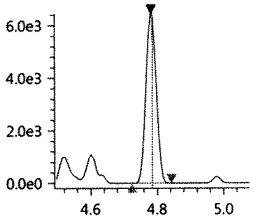
JUL 27 2017

JT

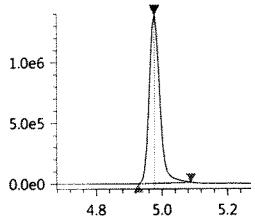
PFNA-13C
Conc 5.0434
RT 4.789 Area 3650744
Q 467.80>423.00 1.61e6



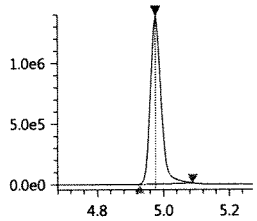
PFNA
Conc 0.0175
RT 4.782 Area 14100
Q 463.00>418.90 6.47e3



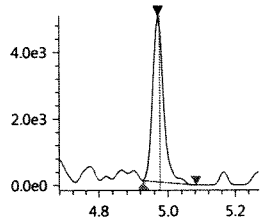
PFDA-13C_IS
Conc 5.0000
RT 4.977 Area 3119463
ISTD 514.80>469.95 1.40e6



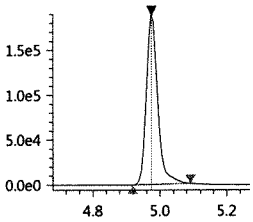
PFDA-13C
Conc 5.2192
RT 4.977 Area 3119463
Q 514.80>469.95 1.40e6



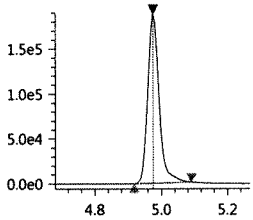
PFDA
Conc 0.0129
RT 4.971 Area 11039
Q 513.00>468.80 5.11e3



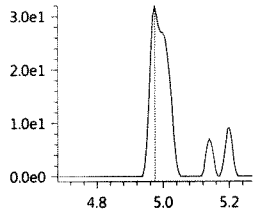
8_2-FTS-13C_IS
Conc 5.0000
RT 4.975 Area 447400
ISTD 528.80>509.00 1.90e5



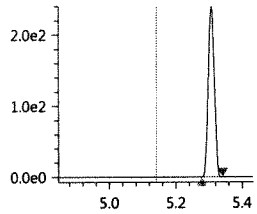
8_2-FTS-13C
Conc 8.2346
RT 4.975 Area 447400
Q 528.80>509.00 1.90e5



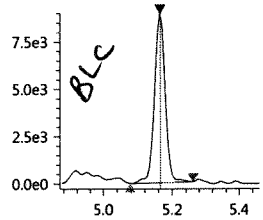
8_2-FTS_1
Conc ----
RT ---- Area ----
Q 526.90>506.90 3.20e1



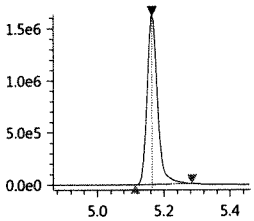
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 2.40e2



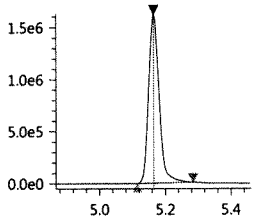
PFUnA
Conc 0.0238
RT 5.163 Area 19638
Q 563.00>518.90 9.01e3



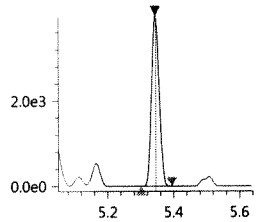
PFUnA-13C_IS
Conc 5.0000
RT 5.165 Area 3569654
ISTD 564.80>519.95 1.64e6



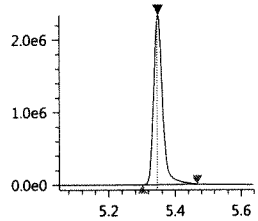
PFUnA-13C
Conc 5.0174
RT 5.165 Area 3569654
Q 564.80>519.95 1.64e6



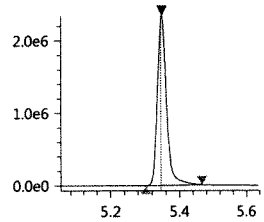
PFDoA
Conc 0.0117
RT 5.344 Area 6597
Q 613.05>569.00 3.99e3



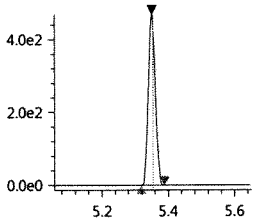
PFDoA-13C
Conc 4.8050
RT 5.348 Area 4329967
Q 614.80>569.95 2.35e6



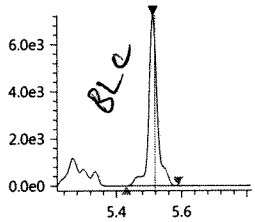
PFDoA-13C_IS
Conc 5.0000
RT 5.348 Area 4329967
ISTD 614.80>569.95 2.35e6



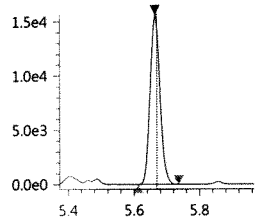
10_2-FtS_1
Conc 0.0083
RT 5.351 Area 705
Q 627.00>606.95 4.69e2



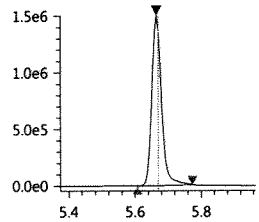
PFTrDA
Conc 0.0218
RT 5.512 Area 13338
Q 663.00>618.90 7.25e3



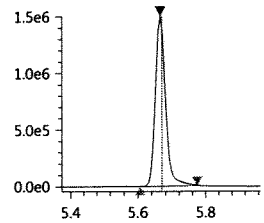
PFTeDA
Conc 0.0093
RT 5.664 Area 32533
Q 713.40>669.00 1.57e4



PFTeDA-13C
Conc 4.2225
RT 5.665 Area 3077153
Q 714.70>669.90 1.51e6

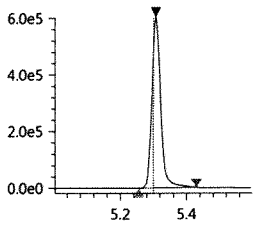


PFTeDA-13C_IS
Conc 5.0000
RT 5.665 Area 3077153
ISTD 714.70>669.90 1.51e6

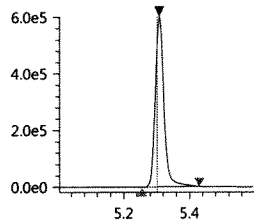


JUL 27 2017

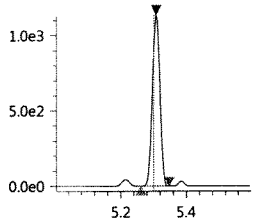
FOSA-13C_IS
Conc 5.0000
RT 5.308 Area 1130259
ISTD 506.00>78.05 6.03e5



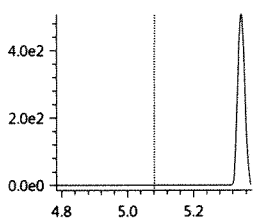
FOSA-13C
Conc 4.1333
RT 5.308 Area 1130259
Q 506.00>78.05 6.03e5



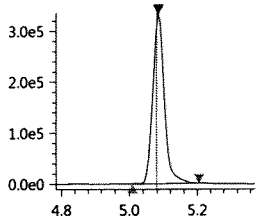
FOSA
Conc 0.0053
RT 5.309 Area 1853
Q 498.00>78.00 1.13e3



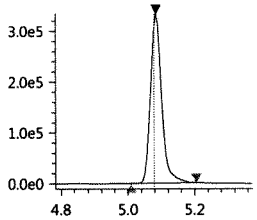
N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 5.08e2



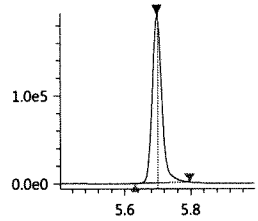
N-MeFOSAA-d3
Conc 4.4355
RT 5.084 Area 785489
Q 572.80>419.05 3.36e5



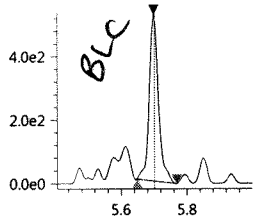
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.084 Area 785489
ISTD 572.80>419.05 3.36e5



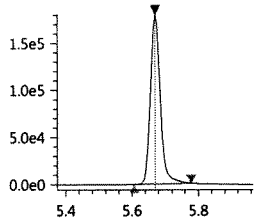
N-MeFOSA_IS
Conc 5.0000
RT 5.697 Area 396205
ISTD 514.90>168.90 1.94e5



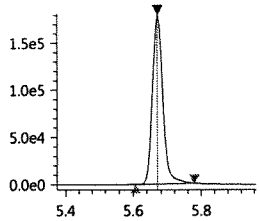
N-MeFOSA
Conc 0.0113
RT 5.699 Area 1033
Q 512.00>169.10 5.38e2



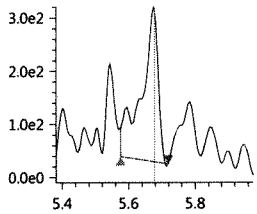
N-MeFOSE-d7
Conc 3.6129
RT 5.670 Area 375476
Q 622.70>59.10 1.81e5



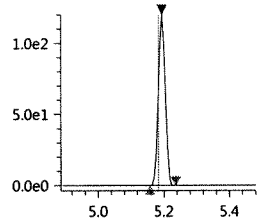
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.670 Area 375476
ISTD 622.70>59.10 1.81e5



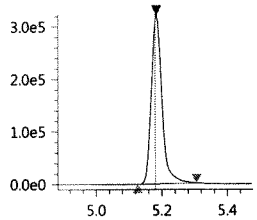
N-MeFOSE
Conc ----
RT ---- Area ----
Q 616.00>59.00 3.21e2



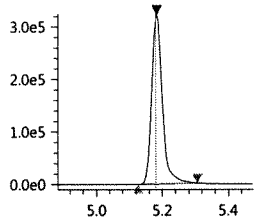
N-EtFOSAA
Conc 0.0015
RT 5.194 Area 182
Q 584.20>418.95 1.20e2



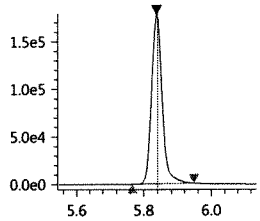
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.183 Area 728552
ISTD 588.80>419.00 3.25e5



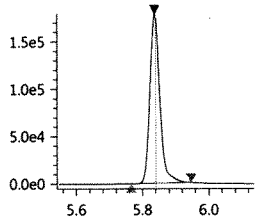
N-EtFOSAA-d5
Conc 4.5349
RT 5.183 Area 728552
Q 588.80>419.00 3.25e5



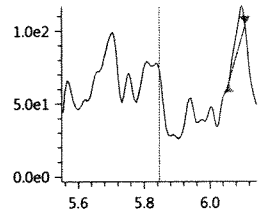
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.837 Area 379975
ISTD 530.90>169.15 1.80e5



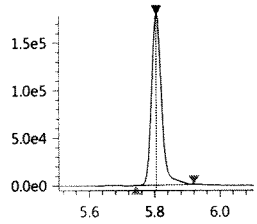
N-EtFOSA-d9
Conc 3.5485
RT 5.837 Area 379975
Q 530.90>169.15 1.80e5



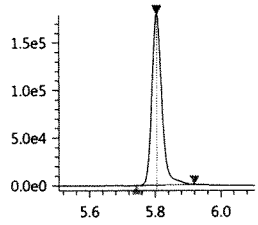
N-EtFOSA
Conc ----
RT ---- Area ----
Q 526.90>169.10 1.17e2



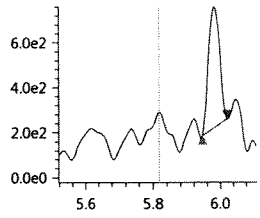
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.805 Area 386903
ISTD 638.70>59.10 1.79e5



N-EtFOSE-d9
Conc 3.0869
RT 5.805 Area 386903
Q 638.70>59.10 1.79e5



N-EtFOSE
Conc ----
RT ---- Area ----
Q 630.00>58.90 7.60e2

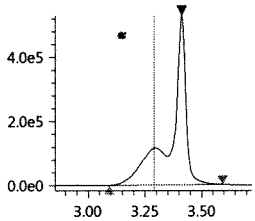


JUL 27 2017

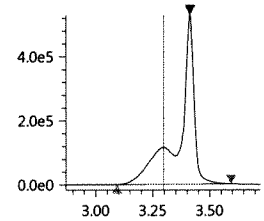
072617_122

Sample ID: K1707681-006
Date acquired: 7/26/2017 12:53:44 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b2\072617_122.lcd
Vial: 13 | Inj. Volume: 15.0000uL | Tray: 2

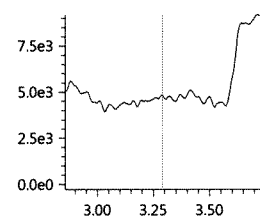
PFBA-13C_IS
Conc 5.0000
RT 3.413 Area 2424349
ISTD 216.90>172.15 5.30e5



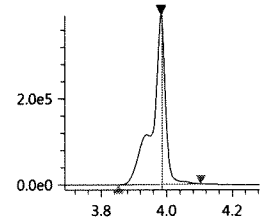
PFBA-13C
Conc 5.4643
RT 3.413 Area 2424349
Q 216.90>172.15 5.30e5



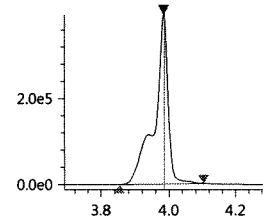
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 9.19e3



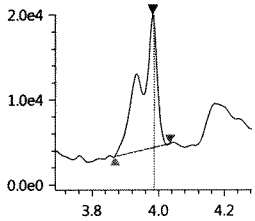
PFPeA-13C_IS
Conc 5.0000
RT 3.983 Area 1097401
ISTD 267.90>223.00 3.94e5



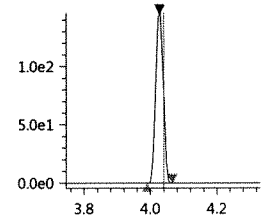
PFPeA-13C
Conc 5.0021
RT 3.983 Area 1097401
Q 267.90>223.00 3.94e5



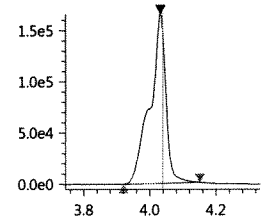
PFPeA
Conc -0.0027
RT 3.983 Area 56044
Q 263.05>219.10 2.00e4



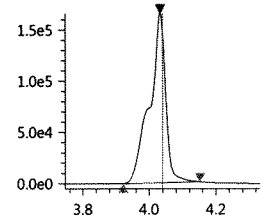
PFBS_1
Conc 0.0025
RT 4.027 Area 232
Q 299.00>80.00 1.46e2



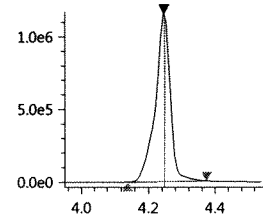
PFBS-13C
Conc 3.5744
RT 4.032 Area 553314
Q 301.80>80.00 1.66e5



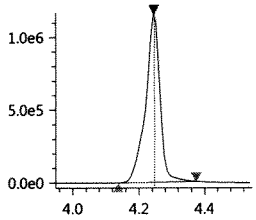
PFBS-13C_IS
Conc 5.0000
RT 4.032 Area 553314
ISTD 301.80>80.00 1.66e5



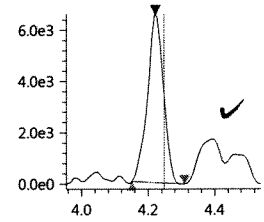
PFHxA-13C_IS
Conc 5.0000
RT 4.246 Area 3507719
ISTD 314.90>270.10 1.17e6



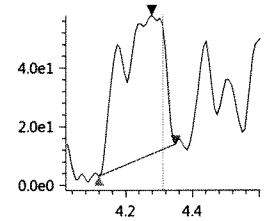
PFHxA-13C
Conc 5.6319
RT 4.246 Area 3507719
Q 314.90>270.10 1.17e6



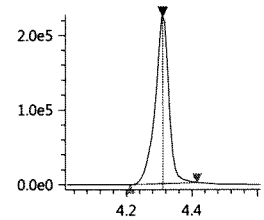
PFHxA
Conc -0.0052
RT 4.222 Area 21977
Q 313.00>269.00 6.64e3



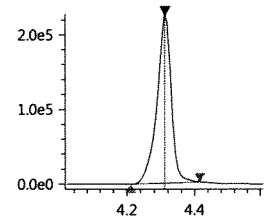
HPFO_DA
Conc 0.0036
RT 4.279 Area 446
Q 329.00>169.00 5.80e1



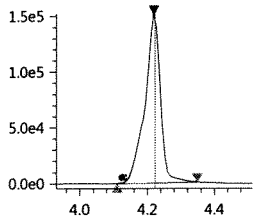
HFPO_DA-13C_IS
Conc 5.0000
RT 4.312 Area 652398
ISTD 332.00>286.80 2.28e5



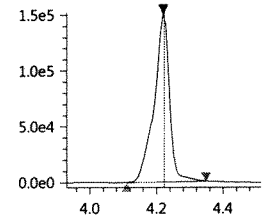
HFPO_DA-13C
Conc 4.2257
RT 4.312 Area 652398
Q 332.00>286.80 2.28e5



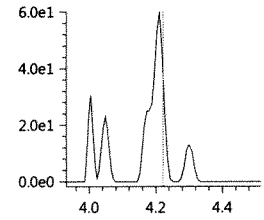
4_2-FTS-13C_IS
Conc 5.0000
RT 4.220 Area 480995
ISTD 328.80>309.05 1.52e5



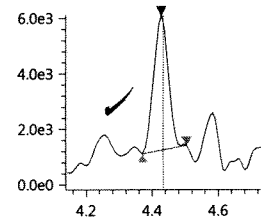
4_2-FTS-13C
Conc 4.7803
RT 4.220 Area 480995
Q 328.80>309.05 1.52e5



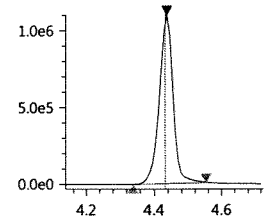
4_2-FTS_1
Conc ----
RT ---- Area ----
Q 327.00>307.05 6.00e1



PFHpA
Conc 0.0221
RT 4.428 Area 14779
Q 362.90>319.00 6.11e3

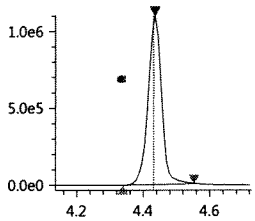


PFHpA-13C_IS
Conc 5.0000
RT 4.436 Area 3040959
ISTD 366.90>322.10 1.11e6

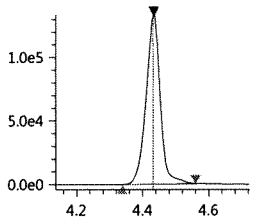


JUL 27 2017

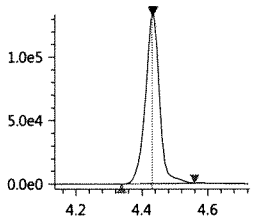
PFHpA-13C
Conc 4.8414
RT 4.436 Area 3040959
Q 366.90>322.10 1.11e6



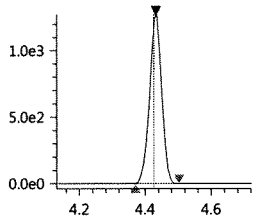
PFHxS-18O_IS
Conc 5.0000
RT 4.433 Area 397945
ISTD 402.70>84.05 1.34e5



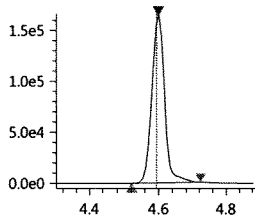
PFHxS-18O
Conc 4.3157
RT 4.433 Area 397945
Q 402.70>84.05 1.34e5



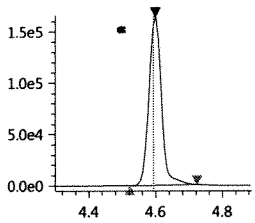
PFHxS_1
Conc 0.0295
RT 4.433 Area 3258
Q 399.00>80.00 1.28e3



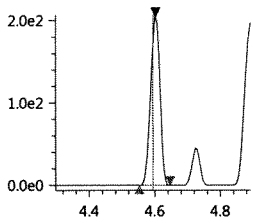
6_2-FTS-13C
Conc 6.9814
RT 4.599 Area 421003
Q 428.90>409.00 1.66e5



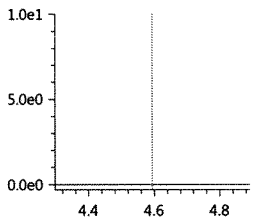
6_2-FTS-13C_IS
Conc 5.0000
RT 4.599 Area 421003
ISTD 428.90>409.00 1.66e5



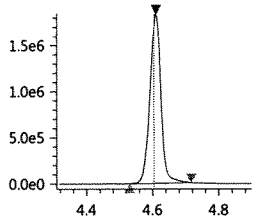
6_2-FTS_1
Conc 0.0037
RT 4.602 Area 409
Q 427.00>407.00 2.07e2



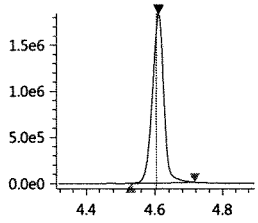
PFHpS_1
Conc ----
RT ---- Area ----
Q 449.00>80.15 0.00e0



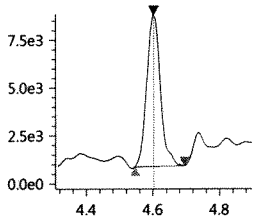
PFOA-13C_IS
Conc 5.0000
RT 4.610 Area 4249187
ISTD 416.80>372.05 1.85e6



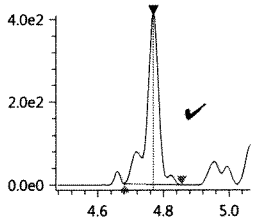
PFOA-13C
Conc 5.2685
RT 4.610 Area 4249187
Q 416.80>372.05 1.85e6



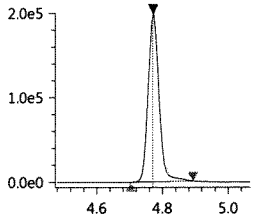
PFOA
Conc 0.0209
RT 4.602 Area 22487
Q 413.00>369.00 8.87e3



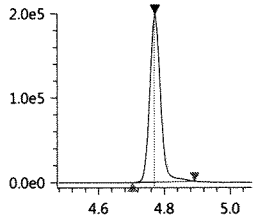
PFOS_1
Conc 0.0145
RT 4.769 Area 1077
Q 499.00>80.00 4.10e2



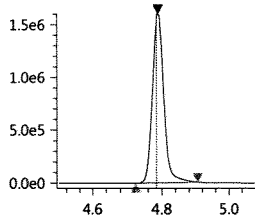
PFOS-13C_IS
Conc 5.0000
RT 4.772 Area 458028
ISTD 502.80>80.05 2.01e5



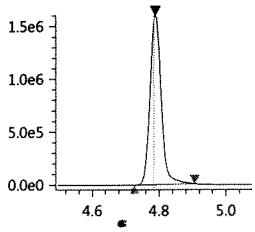
PFOS-13C
Conc 4.5504
RT 4.772 Area 458028
Q 502.80>80.05 2.01e5



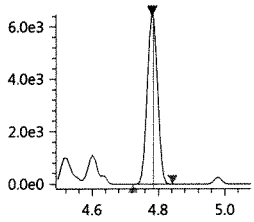
PFNA-13C_IS
Conc 5.0000
RT 4.789 Area 3650744
ISTD 467.80>423.00 1.61e6



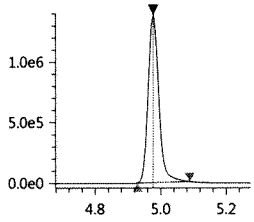
PFNA-13C
Conc 5.0434
RT 4.789 Area 3650744
Q 467.80>423.00 1.61e6



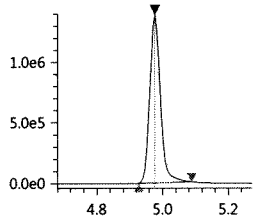
PFNA
Conc 0.0175
RT 4.782 Area 14100
Q 463.00>418.90 6.47e3



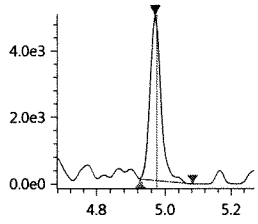
PFDA-13C_IS
Conc 5.0000
RT 4.977 Area 3119463
ISTD 514.80>469.95 1.40e6



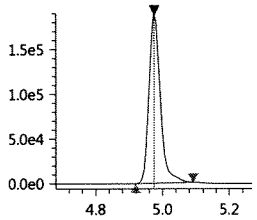
PFDA-13C
Conc 5.2192
RT 4.977 Area 3119463
Q 514.80>469.95 1.40e6



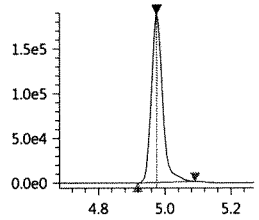
PFDA
Conc 0.0129
RT 4.971 Area 11039
Q 513.00>468.80 5.11e3



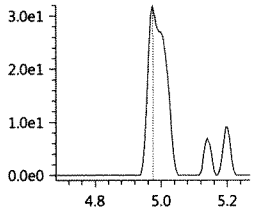
8_2-FTS-13C_IS
Conc 5.0000
RT 4.975 Area 447400
ISTD 528.80>509.00 1.90e5



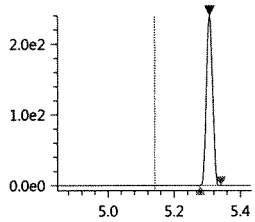
8_2-FTS-13C
Conc 8.2346
RT 4.975 Area 447400
Q 528.80>509.00 1.90e5



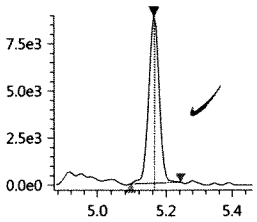
8_2-FTS_1
Conc ----
RT ---- Area ----
Q 526.90>506.90 3.20e1



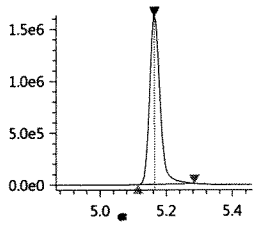
PFDS_1
Conc 0.0036
RT 5.307 Area 312
Q 599.00>79.90 2.40e2



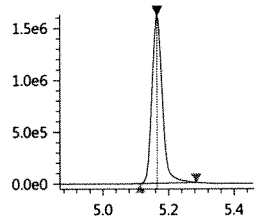
PFUnA
Conc 0.0231
RT 5.163 Area 19049
Q 563.00>518.90 9.01e3



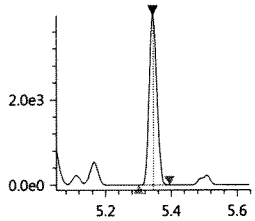
PFUnA-13C_IS
Conc 5.0000
RT 5.165 Area 3569654
ISTD 564.80>519.95 1.64e6



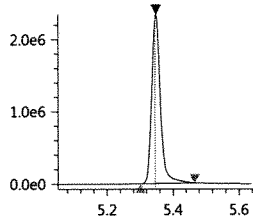
PFUnA-13C
Conc 5.0174
RT 5.165 Area 3569654
Q 564.80>519.95 1.64e6



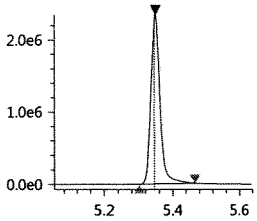
PFDoA
Conc 0.0117
RT 5.344 Area 6597
Q 613.05>569.00 3.99e3



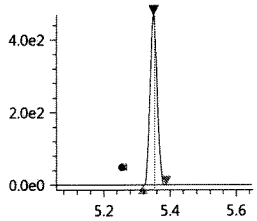
PFDoA-13C
Conc 4.8050
RT 5.348 Area 4329967
Q 614.80>569.95 2.35e6



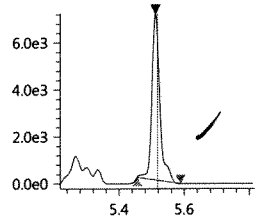
PFDoA-13C_IS
Conc 5.0000
RT 5.348 Area 4329967
ISTD 614.80>569.95 2.35e6



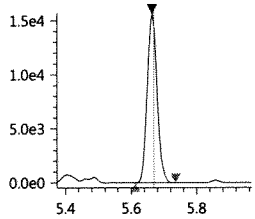
10_2-FtS_1
Conc 0.0083
RT 5.351 Area 705
Q 627.00>606.95 4.69e2



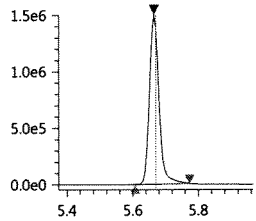
PFTrDA
Conc 0.0198
RT 5.512 Area 12107
Q 663.00>618.90 7.25e3



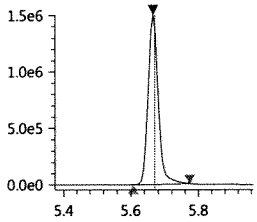
PFTeDA
Conc 0.0093
RT 5.664 Area 32533
Q 713.40>669.00 1.57e4



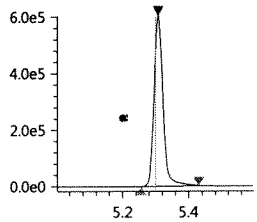
PFTeDA-13C
Conc 4.2225
RT 5.665 Area 3077153
Q 714.70>669.90 1.51e6



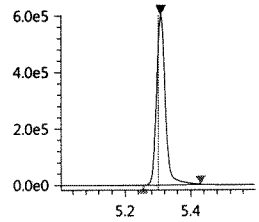
PFTeDA-13C_IS
Conc 5.0000
RT 5.665 Area 3077153
ISTD 714.70>669.90 1.51e6



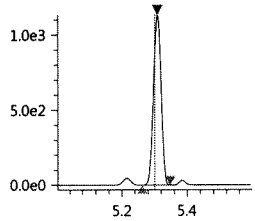
FOSA-13C_IS
Conc 5.0000
RT 5.308 Area 1130259
ISTD 506.00>78.05 6.03e5



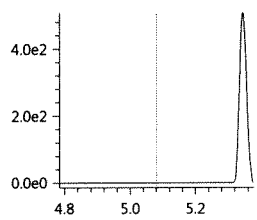
FOSA-13C
Conc 4.1333
RT 5.308 Area 1130259
Q 506.00>78.05 6.03e5



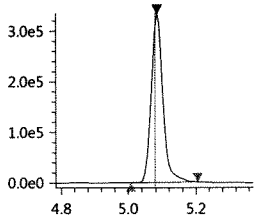
FOSA
Conc 0.0053
RT 5.309 Area 1853
Q 498.00>78.00 1.13e3



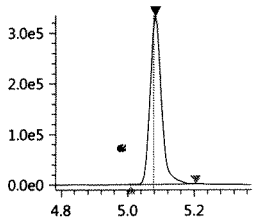
N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 5.08e2



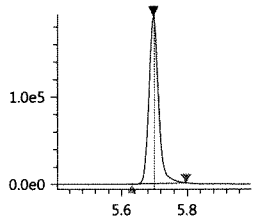
N-MeFOSAA-d3
Conc 4.4355
RT 5.084 Area 785489
Q 572.80>419.05 3.36e5



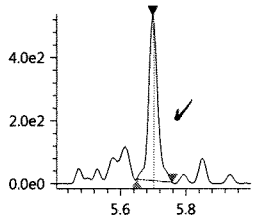
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.084 Area 785489
ISTD 572.80>419.05 3.36e5



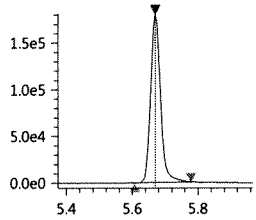
N-MeFOSA_IS
Conc 5.0000
RT 5.697 Area 396205
ISTD 514.90>168.90 1.94e5



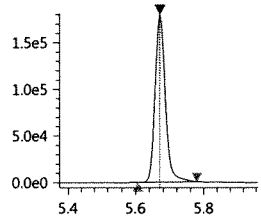
N-MeFOSA
Conc 0.0112
RT 5.699 Area 1024
Q 512.00>169.10 5.38e2



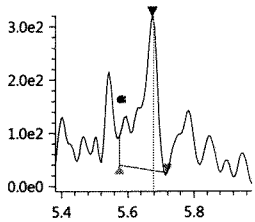
N-MeFOSE-d7
Conc 3.6129
RT 5.670 Area 375476
Q 622.70>59.10 1.81e5



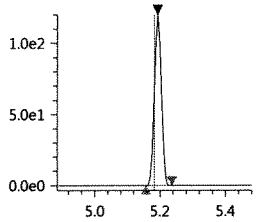
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.670 Area 375476
ISTD 622.70>59.10 1.81e5



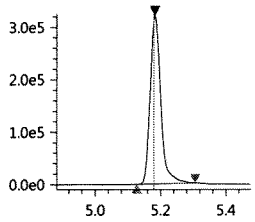
N-MeFOSE
Conc 0.0078
RT 5.675 Area 1031
Q 616.00>59.00 3.21e2



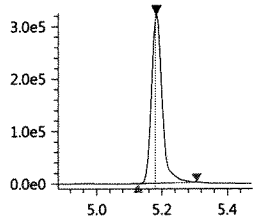
N-EtFOSAA
Conc 0.0015
RT 5.194 Area 182
Q 584.20>418.95 1.20e2



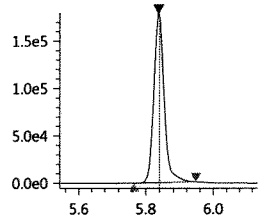
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.183 Area 728552
ISTD 588.80>419.00 3.25e5



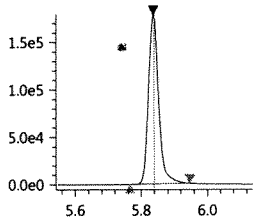
N-EtFOSAA-d5
Conc 4.5349
RT 5.183 Area 728552
Q 588.80>419.00 3.25e5



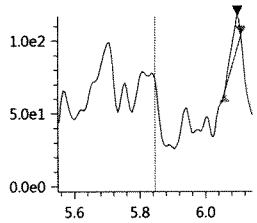
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.837 Area 379975
ISTD 530.90>169.15 1.80e5



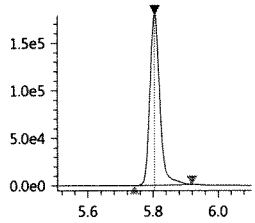
N-EtFOSA-d9
Conc 3.5485
RT 5.837 Area 379975
Q 530.90>169.15 1.80e5



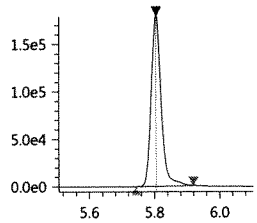
N-EtFOSA
Conc 0.0027
RT 6.097 Area 38
Q 526.90>169.10 1.17e2



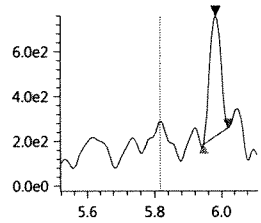
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.805 Area 386903
ISTD 638.70>59.10 1.79e5



N-EtFOSE-d9
Conc 3.0869
RT 5.805 Area 386903
Q 638.70>59.10 1.79e5



N-EtFOSE
Conc 0.0104
RT 5.982 Area 1257
Q 630.00>58.90 7.60e2



Validation Report

Data File: J:\LCMS06\Data\072617_b2\072617_123
Lab ID: K1707681-007
RunType: N/A
Matrix: Water

Date Acquired: 7/26/17 13:04
Batch ID: 555050
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Lab Control Sample Recovery		X
Duplicate Lab Control Sample Recovery		X
Method Blank	X	
Method Blank Surrogates		X
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-6:2 FTS	185	70	130	Narrate-native ok
	13C2-8:2 FTS	169	70	130	
Lab Control Sample Recovery	Perfluorohexane sulfonic acid (PFHxS)	61	71	130	RR to confirm
	Perfluoroheptane sulfonic acid (PFHpS)	66	69	148	
	Perfluorooctane sulfonic acid (PFOS)	69	74	135	
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	73	74	132	
	Perfluorodecane sulfonic acid (PFDS)	61	69	128	
Duplicate Lab Control Sample Recovery	Perfluorohexane sulfonic acid (PFHxS)	66	71	130	
	Perfluorooctane sulfonic acid (PFOS)	70	74	135	
	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	64	69	146	
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	68	74	132	
	Perfluorodecane sulfonic acid (PFDS)	59	69	128	
Method Blank Surrogates	13C2-8:2 FTS	161	50	150	High bias. ND
Surrogates	13C2-6:2 FTS	207	10	187	Quant by IS
	13C2-8:2 FTS	178	50	150	

Primary Review: JT 7/27/17

Secondary Review: JUL 27 2017

Printed: 7/27/17 9:27
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Validation Report

Data File: J:\LCMS06\Data\072617_b2\072617_123
Lab ID: K1707681-007
RunType: N/A
Matrix: Water

Date Acquired: 7/26/17 13:04
Batch ID: 555050
Analysis Method: PFC/537M/PFOA

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
	13C3-PFBS	47	50	150	Narrate-interfm
Above Highest ICAL Level	Perfluorohexane sulfonic acid (PFHxS)	5313860		1986654	see 50X dil

Primary Review: JT 7/27/17

Secondary Review: JUL 27 2017

Printed: 7/27/17 9:27
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072617_b2\072617_123	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 13:04	**Vial:**	7
Run Type:	N/A	**Dilution:**	1
Lab ID:	K1707681-007	**Raw Units:**	ng/mL

Bottle ID:	K1707681-007.01	**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	555050	**Prep Lot:**	293672	**Report Group:**	K1707681
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	7/25/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.698	419866	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec		% Rec Criteria	Rpt?
13C4-PFBA	3.411	1790125	3.8074	76		19 - 126	Y
13C2-PFHxA	4.248	2235989	3.3877	68		10 - 151	Y
18O2-PFHxS	4.437	291990	2.9882	60		20 - 128	Y
13C2-6:2 FTS	4.602	661759	10.3554	207	* Quant by IS	10 - 187	Y
13C4-PFOA	4.612	4022073	4.7059	94		13 - 142	Y
13C5-PFNA	4.792	3368131	4.3908	88		15 - 143	Y
13C4-PFOS	4.776	430868	4.0393	81		11 - 131	Y
13C2-PFDA	4.980	3130470	4.9424	99		25 - 129	Y
13C2-PFUnDA	5.168	3423584	4.5409	91		16 - 129	Y
13C2-PFDoDA	5.351	3735176	3.9114	78		17 - 114	Y
D7-MeFOSE	5.671	285035	2.5881	52		32 - 113	Y
D9-EtFOSE	5.805	344562	2.5942	52		20 - 113	Y
D5-EtFOSA	5.838	348800	3.0738	61		19 - 103	Y
13C2-8:2 FTS	4.978	511437	8.8827	178	* Quant by IS	50 - 150	Y
13C2-PFTeDA	5.666	2302064	2.9809	60		50 - 150	Y
13C4-PFHpA	4.440	1915090	2.8771	58		50 - 150	Y
13C5-PFPeA	3.981	827956	3.5612	71		50 - 150	Y
13C3-PFBS	4.032	387456	2.3619	47	* Narrate interim	50 - 150	Y
13C8-FOSA	5.313	836929	2.8881	58		50 - 150	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.412	1538746	3.3396	90		Y
Perfluoropentanoic acid (PFPeA)	3.982	3555570	6.5914	180		Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 9:27

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072617_b2\072617_123	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 13:04	**Vial:**	7
Run Type:	N/A	**Dilution:**	1
Lab ID:	K1707681-007	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.031	1996372	30.4092	820		Y
Perfluorohexanoic acid (PFHxA)	4.246	10592542	22.3588	600		Y
Perfluoroheptanoic acid (PFHpA)	4.437	2893577	6.8772	190		Y
Perfluorohexane sulfonic acid (PFHxS)	4.436	5313860	65.5834	1800	E 50X dil	Y
Perfluorooctanoic acid (PFOA)	4.612	4598385	4.5228	120		Y
Perfluoroheptane sulfonic acid (PFHpS)	4.602	191347	3.0077	81		Y
Perfluorononanoic acid (PFNA)	4.792	2083805	2.8078	76		Y
Perfluorooctane sulfonic acid (PFOS)	4.714	1321933	18.9160	510		Y
Perfluorodecanoic acid (PFDA)	4.979	18461	0.0215	0.58	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.168	18584	0.0235	0.64	U	Y
Perfluorooctane sulfonamide (FOSA)	5.315	3596	0.0140	0.38	U	Y
Perfluorododecanoic acid (PFDoDA)	5.351	6788	0.0139	0.38	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.516	8686	0.0190	0.51	U	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.698	1006	0.0145	0.39	U	Y
N-Methyl perfluorooctane sulfonamidoethanol	0	0	0	0	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.669	21356	-0.0028	0	U	Y
N-Ethyl perfluorooctane sulfonamidoethanol	0	0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0	0	0	0	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.978	15636	0.1586	4.3		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.602	155788	0.8930	24		Y
Perfluorodecane sulfonic acid (PFDS)	0	0	0	0	U	Y

Prep Amount:	148.0000 mL	**Dilution:**	1
Prep Final Amount:	4.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 9:27

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072617_123

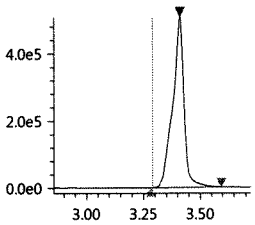
Sample ID: K1707681-007
Date acquired: 7/26/2017 1:04:14 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b2\072617_123.lcd
Vial: 14 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.411	1790125	1790125	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.411	1790125	419866	1	3.8074	ng/mL	----	----	Auto
PFBA	3.412	1538746	1790125	2	3.3396	ng/mL	----	----	Auto
PFPeA-13C_IS	3.981	827956	827956	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.981	827956	419866	1	3.5612	ng/mL	----	----	Auto
PFPeA	3.982	3555570	827956	4	6.5914	ng/mL	----	----	M
PFBS_1	4.031	1996372	387456	16	30.4092	ng/mL	----	----	Auto
PFBS-13C	4.032	387456	419866	1	2.3619	ng/mL	----	----	Auto
PFBS-13C_IS	4.032	387456	387456	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.248	2235989	2235989	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.248	2235989	419866	1	3.3877	ng/mL	----	----	Auto
PFHxA	4.246	10592542	2235989	6	22.3588	ng/mL	----	----	Auto
HPFO_DA	----	----	----	3	----	ng/mL	----	----	NI
HFPO_DA-13C_IS	4.315	475131	475131	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.315	475131	419866	1	2.9041	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.222	801378	801378	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.222	801378	419866	1	7.5155	ng/mL	----	----	Auto
4_2-FTS_1	4.222	2050	801378	5	0.0100	ng/mL	----	----	M
PFHpA	4.437	2893577	1915090	8	6.8772	ng/mL	----	----	Auto
PFHpA-13C_IS	4.440	1915090	1915090	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.440	1915090	419866	1	2.8771	ng/mL	----	----	Auto
PFHxS-18O_IS	4.437	291990	291990	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.437	291990	419866	1	2.9882	ng/mL	----	----	Auto
PFHxS_1	4.436	5313860	291990	7	65.5834	ng/mL	----	----	Auto
6_2-FTS-13C	4.602	661759	419866	1	10.3554	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.602	661759	661759	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.602	155788	661759	10	0.8930	ng/mL	----	----	Auto
PFHpS_1	4.602	191347	291990	7	3.0077	ng/mL	----	----	Auto
PFOA-13C_IS	4.612	4022073	4022073	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.612	4022073	419866	1	4.7059	ng/mL	----	----	Auto
PFOA	4.612	4598385	4022073	9	4.5228	ng/mL	----	----	Auto
PFOS_1	4.714	1321933	430868	13	18.9160	ng/mL	----	----	Auto
PFOS-13C_IS	4.776	430868	430868	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.776	430868	419866	1	4.0393	ng/mL	----	----	Auto
PFNA-13C_IS	4.792	3368131	3368131	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.792	3368131	419866	1	4.3908	ng/mL	----	----	Auto
PFNA	4.792	2083805	3368131	11	2.8078	ng/mL	----	----	M
PFDA-13C_IS	4.980	3130470	3130470	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.980	3130470	419866	1	4.9424	ng/mL	----	----	Auto
PFDA	4.979	18461	3130470	12	0.0215	ng/mL	----	----	M
8_2-FTS-13C_IS	4.978	511437	511437	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.978	511437	419866	1	8.8827	ng/mL	----	----	Auto
8_2-FTS_1	4.978	15636	511437	15	0.1586	ng/mL	----	----	Auto
PFDS_1	----	----	----	13	----	ng/mL	----	----	NI
PFUnA	5.168	18584	3423584	14	0.0235	ng/mL	----	----	Auto
PFUnA-13C_IS	5.168	3423584	3423584	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.168	3423584	419866	1	4.5409	ng/mL	----	----	Auto
PFDoA	5.351	6788	3735176	17	0.0139	ng/mL	----	----	Auto
PFDoA-13C	5.351	3735176	419866	1	3.9114	ng/mL	----	----	Auto
PFDoA-13C_IS	5.351	3735176	3735176	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	5.359	8878	511437	15	0.0918	ng/mL	----	----	Auto
PFTrDA	5.516	8686	2302064	22	0.0190	ng/mL	----	----	Auto
PFTeDA	5.669	21356	2302064	22	-0.0028	ng/mL	----	----	M
PFTeDA-13C	5.666	2302064	419866	1	2.9809	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.666	2302064	2302064	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.313	836929	836929	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.313	836929	419866	1	2.8881	ng/mL	----	----	Auto
FOSA	5.315	3596	836929	18	0.0140	ng/mL	----	----	M
N-MeFOSAA	5.089	373	696625	19	0.0033	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.087	696625	419866	1	3.7120	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.087	696625	696625	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.698	419866	419866	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.698	1006	285035	20	0.0145	ng/mL	----	----	Auto
N-MeFOSE-d7	5.671	285035	419866	1	2.5881	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.671	285035	285035	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	----	----	----	20	----	ng/mL	----	----	NI
N-EtFOSAA	----	----	----	21	----	ng/mL	----	----	ND(W/B)

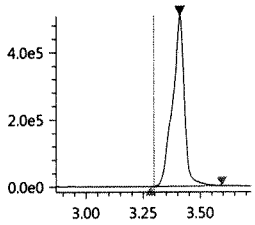
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.186	631683	631683	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.186	631683	419866	1	3.7104	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.838	348800	348800	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.838	348800	419866	1	3.0738	ng/mL	----	----	Auto
N-EtFOSA	----	----	----	23	----	ng/mL	----	----	NI
N-EtFOSE-d9_IS	5.805	344562	344562	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.805	344562	419866	1	2.5942	ng/mL	----	----	Auto
N-EtFOSE	----	----	----	24	----	ng/mL	----	----	NI

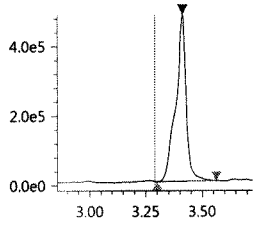
PFBA-13C_IS
Conc 5.0000
RT 3.411 Area 1790125
ISTD 216.90>172.15 5.09e5



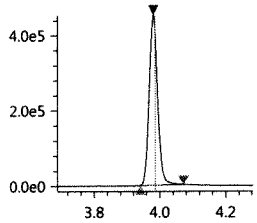
PFBA-13C
Conc 3.8074
RT 3.411 Area 1790125
Q 216.90>172.15 5.09e5



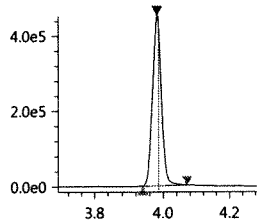
PFBA
Conc 3.3396
RT 3.412 Area 1538746
Q 213.00>169.10 4.92e5



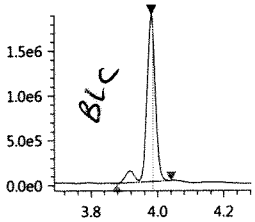
PFPeA-13C_IS
Conc 5.0000
RT 3.981 Area 827956
ISTD 267.90>223.00 4.55e5



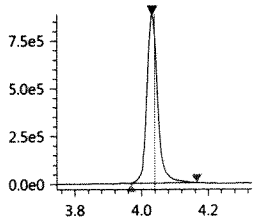
PFPeA-13C
Conc 3.5612
RT 3.981 Area 827956
Q 267.90>223.00 4.55e5



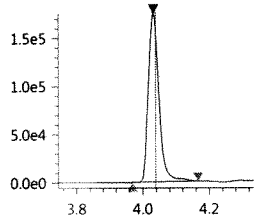
PFPeA
Conc 6.5914
RT 3.982 Area 3555570
Q 263.05>219.10 1.91e6



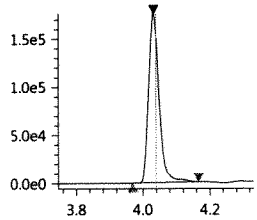
PFBS_1
Conc 30.4092
RT 4.031 Area 1996372
Q 299.00>80.00 8.92e5



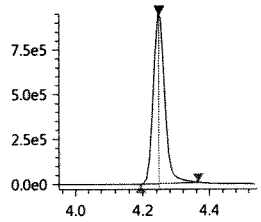
PFBS-13C
Conc 2.3619
RT 4.032 Area 387456
Q 301.80>80.00 1.77e5



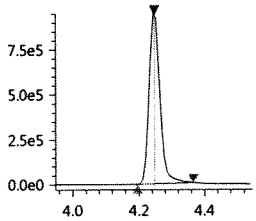
PFBS-13C_IS
Conc 5.0000
RT 4.032 Area 387456
ISTD 301.80>80.00 1.77e5



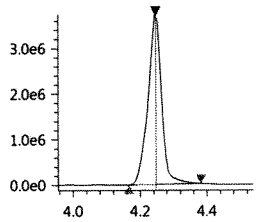
PFHxA-13C_IS
Conc 5.0000
RT 4.248 Area 2235989
ISTD 314.90>270.10 9.51e5



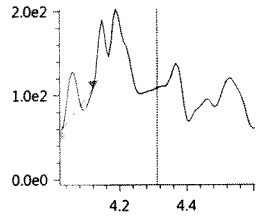
PFHxA-13C
Conc 3.3877
RT 4.248 Area 2235989
Q 314.90>270.10 9.51e5



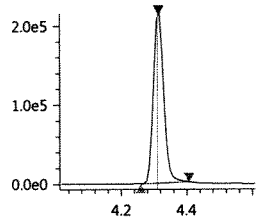
PFHxA
Conc 22.3588
RT 4.246 Area 10592542
Q 313.00>269.00 3.75e6



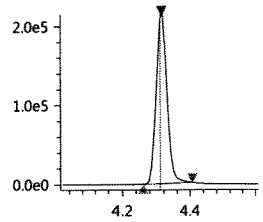
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 2.03e2



HFPO_DA-13C_IS
Conc 5.0000
RT 4.315 Area 475131
ISTD 332.00>286.80 2.16e5

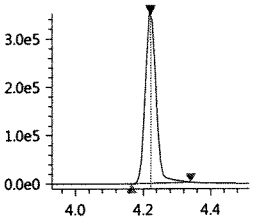


HFPO_DA-13C
Conc 2.9041
RT 4.315 Area 475131
Q 332.00>286.80 2.16e5

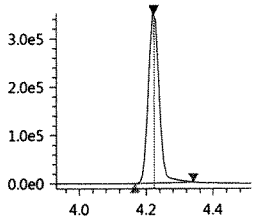


JUL 2 7 2017

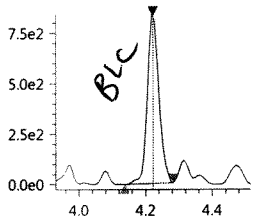
4_2-FTS-13C_IS
Conc 5.0000
RT 4.222 Area 801378
ISTD 328.80>309.05 3.54e5



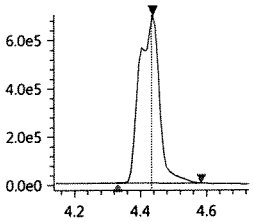
4_2-FTS-13C
Conc 7.5155
RT 4.222 Area 801378
Q 328.80>309.05 3.54e5



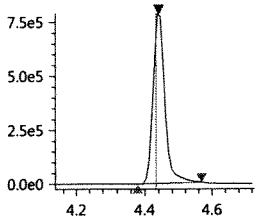
4_2-FTS_1
Conc 0.0100
RT 4.222 Area 2050
Q 327.00>307.05 8.47e2



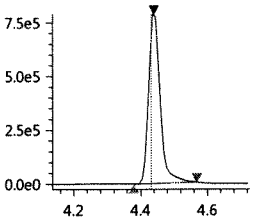
PFHpA
Conc 6.8772
RT 4.437 Area 2893577
Q 362.90>319.00 7.07e5



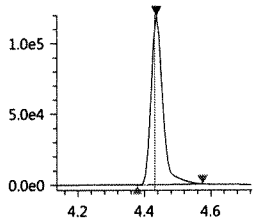
PFHpA-13C_IS
Conc 5.0000
RT 4.440 Area 1915090
ISTD 366.90>322.10 7.91e5



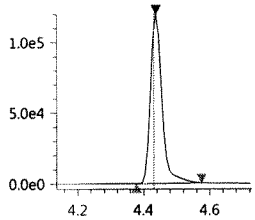
PFHpA-13C
Conc 2.8771
RT 4.440 Area 1915090
Q 366.90>322.10 7.91e5



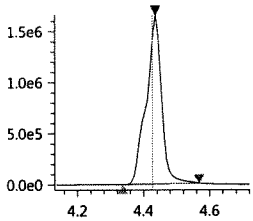
PFHxS-18O_IS
Conc 5.0000
RT 4.437 Area 291990
ISTD 402.70>84.05 1.20e5



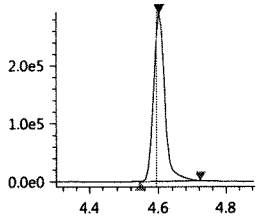
PFHxS-18O
Conc 2.9882
RT 4.437 Area 291990
Q 402.70>84.05 1.20e5



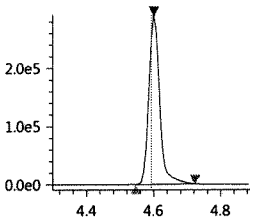
PFHxS_1
Conc 65.5834
RT 4.436 Area 5313860
Q 399.00>80.00 1.67e6



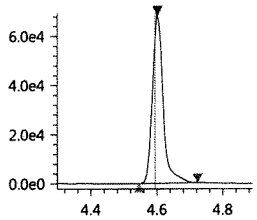
6_2-FTS-13C
Conc 10.3554
RT 4.602 Area 661759
Q 428.90>409.00 2.93e5



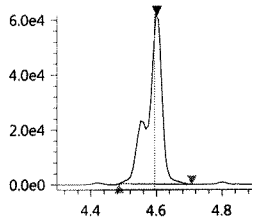
6_2-FTS-13C_IS
Conc 5.0000
RT 4.602 Area 661759
ISTD 428.90>409.00 2.93e5



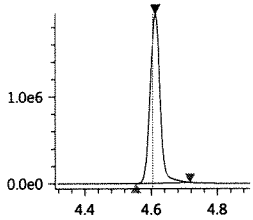
6_2-FTS_1
Conc 0.8930
RT 4.602 Area 155788
Q 427.00>407.00 6.94e4



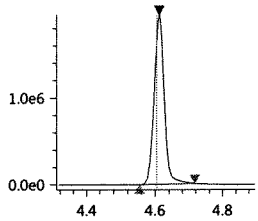
PFHpS_1
Conc 3.0077
RT 4.602 Area 191347
Q 449.00>80.15 6.21e4



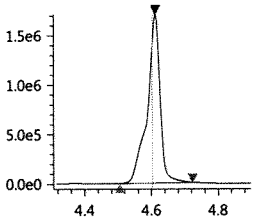
PFOA-13C_IS
Conc 5.0000
RT 4.612 Area 4022073
ISTD 416.80>372.05 1.96e6



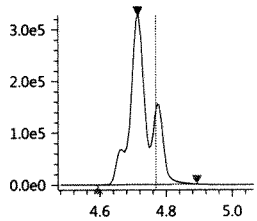
PFOA-13C
Conc 4.7059
RT 4.612 Area 4022073
Q 416.80>372.05 1.96e6



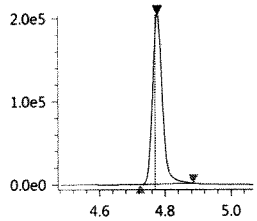
PFOA
Conc 4.5228
RT 4.612 Area 4598385
Q 413.00>369.00 1.72e6



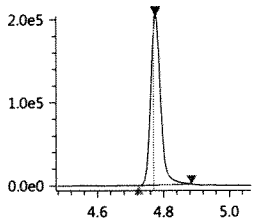
PFOS_1
Conc 18.9160
RT 4.714 Area 1321933
Q 499.00>80.00 3.28e5



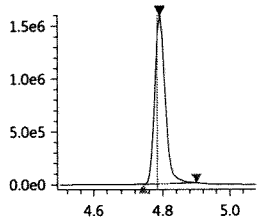
PFOS-13C_IS
Conc 5.0000
RT 4.776 Area 430868
ISTD 502.80>80.05 2.05e5



PFOS-13C
Conc 4.0393
RT 4.776 Area 430868
Q 502.80>80.05 2.05e5

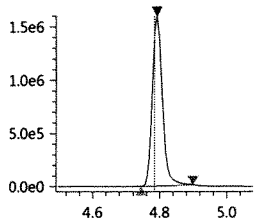


PFNA-13C_IS
Conc 5.0000
RT 4.792 Area 3368131
ISTD 467.80>423.00 1.61e6

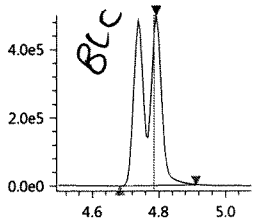


JUL 27 2017

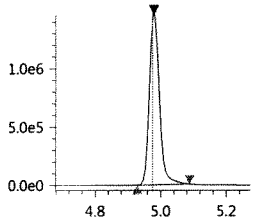
PFNA-13C
Conc 4.3908
RT 4.792 Area 3368131
Q 467.80>423.00 1.61e6



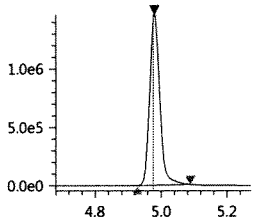
PFNA
Conc 2.8078
RT 4.792 Area 2083805
Q 463.00>418.90 5.02e5



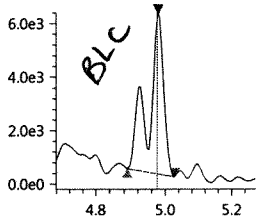
PFDA-13C_IS
Conc 5.0000
RT 4.980 Area 3130470
ISTD 514.80>469.95 1.47e6



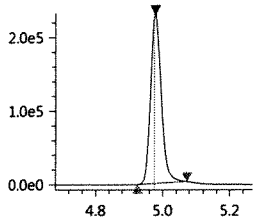
PFDA-13C
Conc 4.9424
RT 4.980 Area 3130470
Q 514.80>469.95 1.47e6



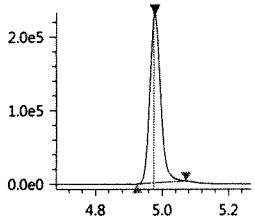
PFDA
Conc 0.0215
RT 4.979 Area 18461
Q 513.00>468.80 6.41e3



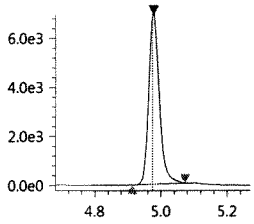
8_2-FTS-13C_IS
Conc 5.0000
RT 4.978 Area 511437
ISTD 528.80>509.00 2.33e5



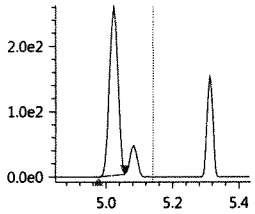
8_2-FTS-13C
Conc 8.8827
RT 4.978 Area 511437
Q 528.80>509.00 2.33e5



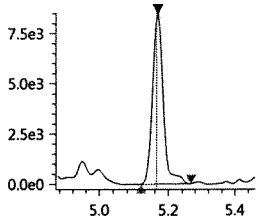
8_2-FTS_1
Conc 0.1586
RT 4.978 Area 15636
Q 526.90>506.90 7.00e3



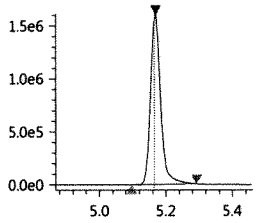
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 2.63e2



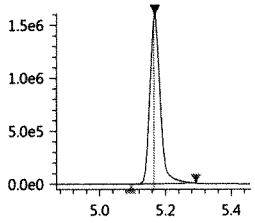
PFUnA
Conc 0.0235
RT 5.168 Area 18584
Q 563.00>518.90 8.55e3



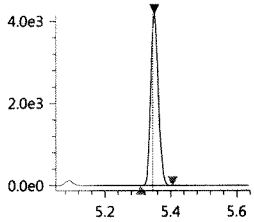
PFUnA-13C_IS
Conc 5.0000
RT 5.168 Area 3423584
ISTD 564.80>519.95 1.62e6



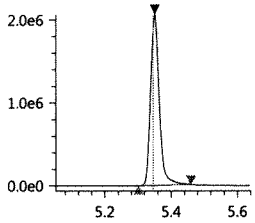
PFUnA-13C
Conc 4.5409
RT 5.168 Area 3423584
Q 564.80>519.95 1.62e6



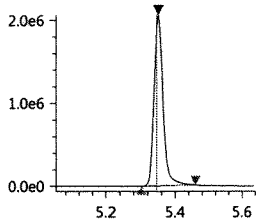
PFDoA
Conc 0.0139
RT 5.351 Area 6788
Q 613.05>569.00 4.17e3



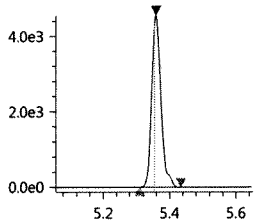
PFDoA-13C
Conc 3.9114
RT 5.351 Area 3735176
Q 614.80>569.95 2.07e6



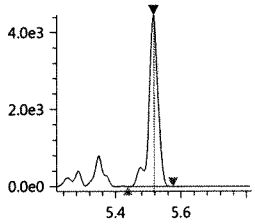
PFDoA-13C_IS
Conc 5.0000
RT 5.351 Area 3735176
ISTD 614.80>569.95 2.07e6



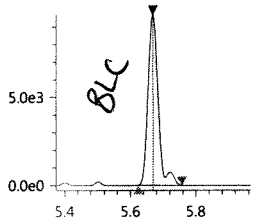
10_2-FtS_1
Conc 0.0918
RT 5.359 Area 8878
Q 627.00>606.95 4.55e3



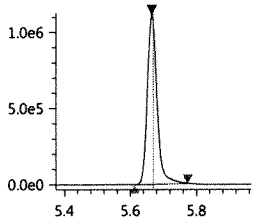
PFTrDA
Conc 0.0190
RT 5.516 Area 8686
Q 663.00>618.90 4.46e3



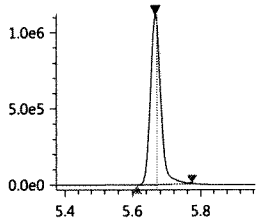
PFTeDA
Conc -0.0028
RT 5.669 Area 21356
Q 713.40>669.00 9.74e3



PFTeDA-13C
Conc 2.9809
RT 5.666 Area 2302064
Q 714.70>669.90 1.13e6

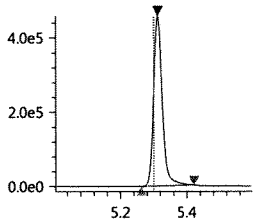


PFTeDA-13C_IS
Conc 5.0000
RT 5.666 Area 2302064
ISTD 714.70>669.90 1.13e6

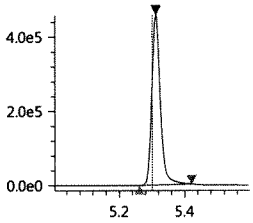


JUL 2 7 2017

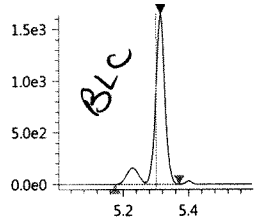
FOSA-13C_IS
Conc 5.0000
RT 5.313 Area 836929
ISTD 506.00>78.05 4.59e5



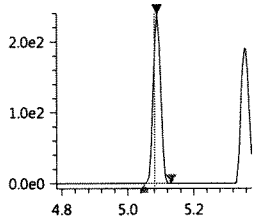
FOSA-13C
Conc 2.8881
RT 5.313 Area 836929
Q 506.00>78.05 4.59e5



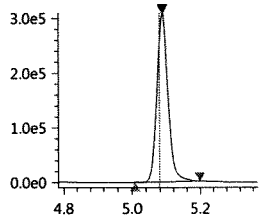
FOSA
Conc 0.0140
RT 5.315 Area 3596
Q 498.00>78.00 1.65e3



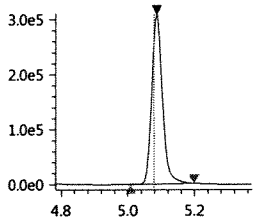
N-MeFOSAA
Conc 0.0033
RT 5.089 Area 373
Q 570.20>419.00 2.40e2



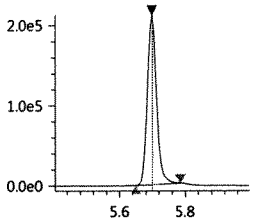
N-MeFOSAA-d3
Conc 3.7120
RT 5.087 Area 696625
Q 572.80>419.05 3.11e5



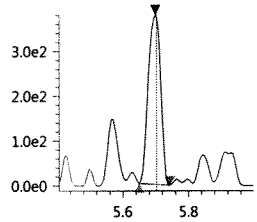
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.087 Area 696625
ISTD 572.80>419.05 3.11e5



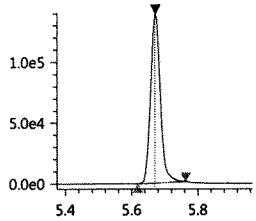
N-MeFOSA_IS
Conc 5.0000
RT 5.698 Area 419866
ISTD 514.90>168.90 2.13e5



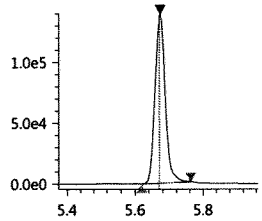
N-MeFOSA
Conc 0.0145
RT 5.698 Area 1006
Q 512.00>169.10 3.81e2



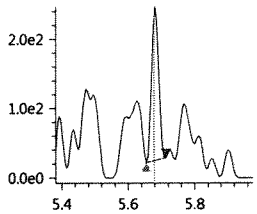
N-MeFOSE-d7
Conc 2.5881
RT 5.671 Area 285035
Q 622.70>59.10 1.41e5



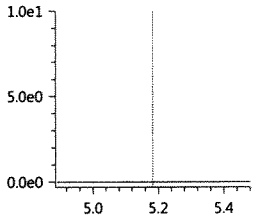
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.671 Area 285035
ISTD 622.70>59.10 1.41e5



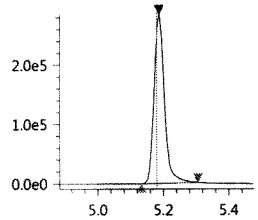
N-MeFOSE
Conc ----
RT ---- Area ----
Q 616.00>59.00 2.47e2



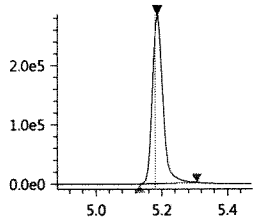
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 0.00e0



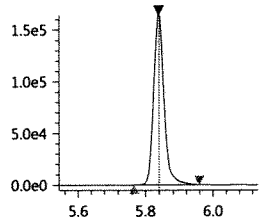
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.186 Area 631683
ISTD 588.80>419.00 2.88e5



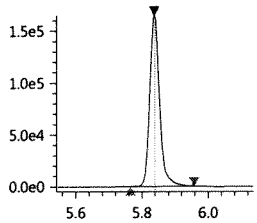
N-EtFOSAA-d5
Conc 3.7104
RT 5.186 Area 631683
Q 588.80>419.00 2.88e5



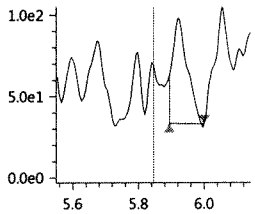
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.838 Area 348800
ISTD 530.90>169.15 1.65e5



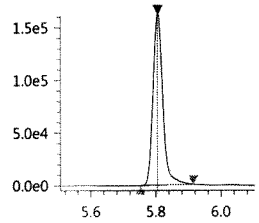
N-EtFOSA-d9
Conc 3.0738
RT 5.838 Area 348800
Q 530.90>169.15 1.65e5



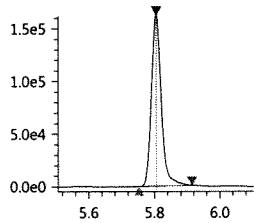
N-EtFOSA
Conc ----
RT ---- Area ----
Q 526.90>169.10 1.05e2



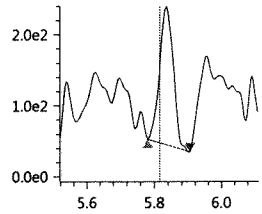
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.805 Area 344562
ISTD 638.70>59.10 1.62e5



N-EtFOSE-d9
Conc 2.5942
RT 5.805 Area 344562
Q 638.70>59.10 1.62e5



N-EtFOSE
Conc ----
RT ---- Area ----
Q 630.00>58.90 2.40e2

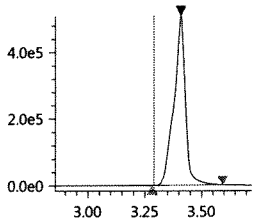


JUL 27 2017

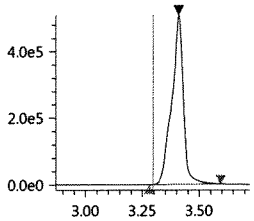
072617_123

Sample ID: K1707681-007
Date acquired: 7/26/2017 1:04:14 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b2\072617_123.lcd
Vial: 14 | Inj. Volume: 15.0000uL | Tray: 2

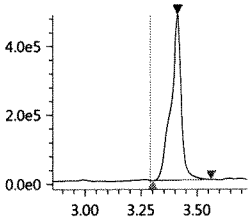
PFBA-13C_IS
Conc 5.0000
RT 3.411 Area 1790125
ISTD 216.90>172.15 5.09e5



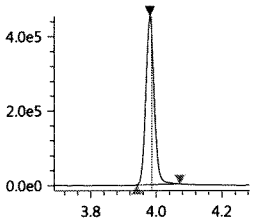
PFBA-13C
Conc 3.8074
RT 3.411 Area 1790125
Q 216.90>172.15 5.09e5



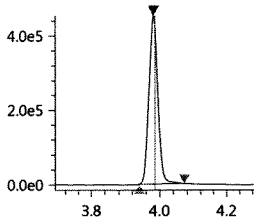
PFBA
Conc 3.3396
RT 3.412 Area 1538746
Q 213.00>169.10 4.92e5



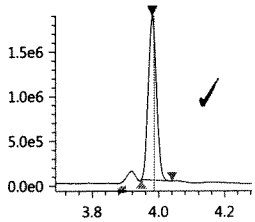
PFPeA-13C_IS
Conc 5.0000
RT 3.981 Area 827956
ISTD 267.90>223.00 4.55e5



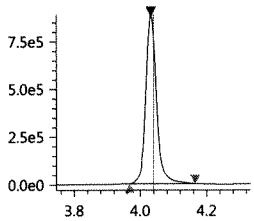
PFPeA-13C
Conc 3.5612
RT 3.981 Area 827956
Q 267.90>223.00 4.55e5



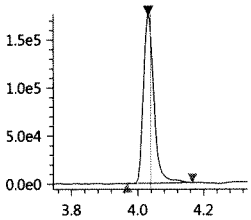
PFPeA
Conc 5.9690
RT 3.982 Area 3223966
Q 263.05>219.10 1.91e6



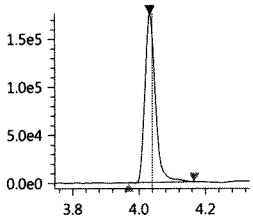
PFBS_1
Conc 30.4092
RT 4.031 Area 1996372
Q 299.00>80.00 8.92e5



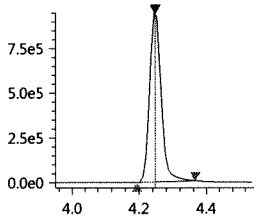
PFBS-13C
Conc 2.3619
RT 4.032 Area 387456
Q 301.80>80.00 1.77e5



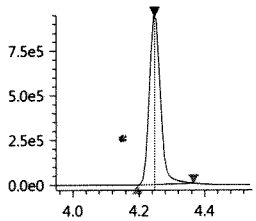
PFBS-13C_IS
Conc 5.0000
RT 4.032 Area 387456
ISTD 301.80>80.00 1.77e5



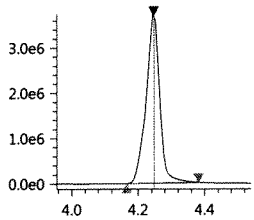
PFHxA-13C_IS
Conc 5.0000
RT 4.248 Area 2235989
ISTD 314.90>270.10 9.51e5



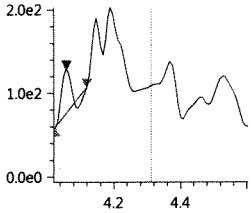
PFHxA-13C
Conc 3.3877
RT 4.248 Area 2235989
Q 314.90>270.10 9.51e5



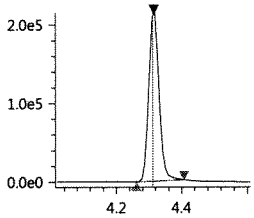
PFHxA
Conc 22.3588
RT 4.246 Area 10592542
Q 313.00>269.00 3.75e6



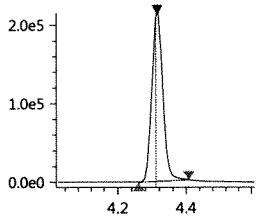
HPFO_DA
Conc 0.0009
RT 4.059 Area 82
Q 329.00>169.00 2.03e2



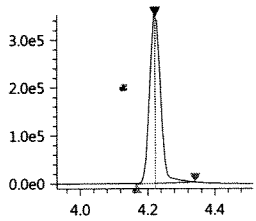
HFPO_DA-13C_IS
Conc 5.0000
RT 4.315 Area 475131
ISTD 332.00>286.80 2.16e5



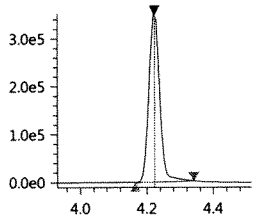
HFPO_DA-13C
Conc 2.9041
RT 4.315 Area 475131
Q 332.00>286.80 2.16e5



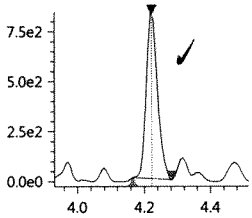
4_2-FTS-13C_IS
Conc 5.0000
RT 4.222 Area 801378
ISTD 328.80>309.05 3.54e5



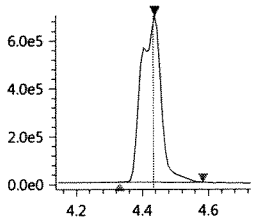
4_2-FTS-13C
Conc 7.5155
RT 4.222 Area 801378
Q 328.80>309.05 3.54e5



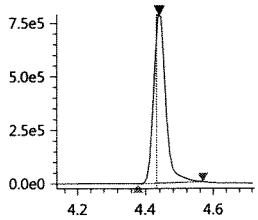
4_2-FTS_1
Conc 0.0097
RT 4.222 Area 1976
Q 327.00>307.05 8.47e2



PFHpA
Conc 6.8772
RT 4.437 Area 2893577
Q 362.90>319.00 7.07e5

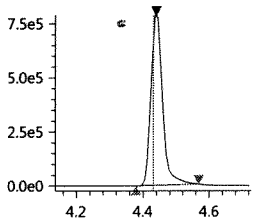


PFHpA-13C_IS
Conc 5.0000
RT 4.440 Area 1915090
ISTD 366.90>322.10 7.91e5

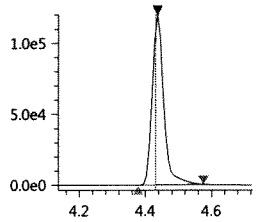


JUL 27 2017

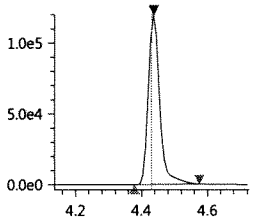
PFHpA-13C
Conc 2.8771
RT 4.440 Area 1915090
Q 366.90>322.10 7.91e5



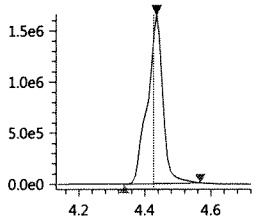
PFHxS-18O_IS
Conc 5.0000
RT 4.437 Area 291990
ISTD 402.70>84.05 1.20e5



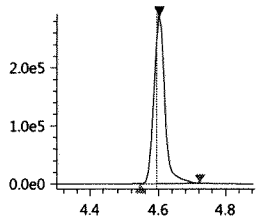
PFHxS-18O
Conc 2.9882
RT 4.437 Area 291990
Q 402.70>84.05 1.20e5



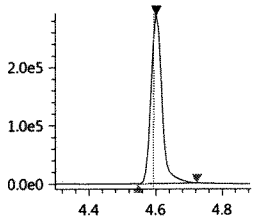
PFHxS_1
Conc 65.5834
RT 4.436 Area 5313860
Q 399.00>80.00 1.67e6



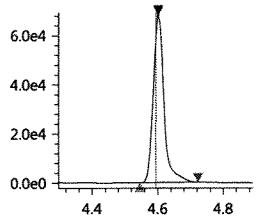
6_2-FTS-13C
Conc 10.3554
RT 4.602 Area 661759
Q 428.90>409.00 2.93e5



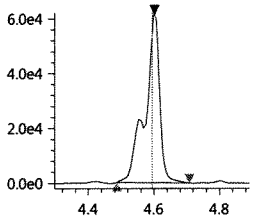
6_2-FTS-13C_IS
Conc 5.0000
RT 4.602 Area 661759
ISTD 428.90>409.00 2.93e5



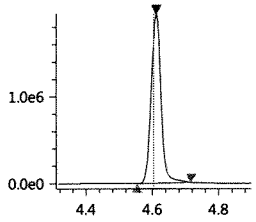
6_2-FTS_1
Conc 0.8930
RT 4.602 Area 155788
Q 427.00>407.00 6.94e4



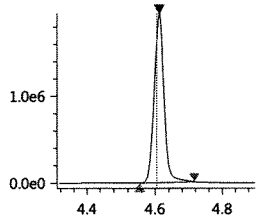
PFHpS_1
Conc 3.0077
RT 4.602 Area 191347
Q 449.00>80.15 6.21e4



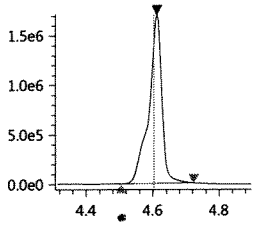
PFOA-13C_IS
Conc 5.0000
RT 4.612 Area 4022073
ISTD 416.80>372.05 1.96e6



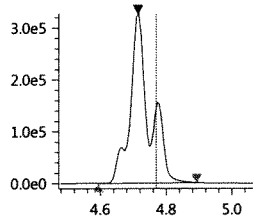
PFOA-13C
Conc 4.7059
RT 4.612 Area 4022073
Q 416.80>372.05 1.96e6



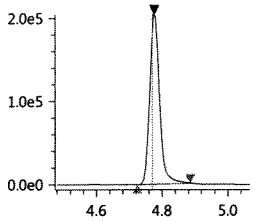
PFOA
Conc 4.5228
RT 4.612 Area 4598385
Q 413.00>369.00 1.72e6



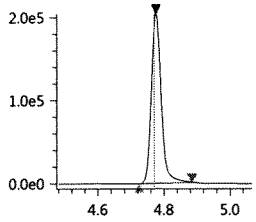
PFOS_1
Conc 18.9160
RT 4.714 Area 1321933
Q 499.00>80.00 3.28e5



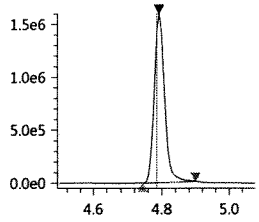
PFOS-13C_IS
Conc 5.0000
RT 4.776 Area 430868
ISTD 502.80>80.05 2.05e5



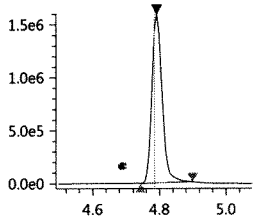
PFOS-13C
Conc 4.0393
RT 4.776 Area 430868
Q 502.80>80.05 2.05e5



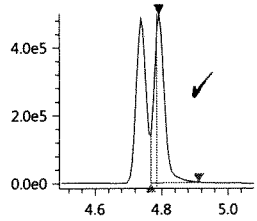
PFNA-13C_IS
Conc 5.0000
RT 4.792 Area 3368131
ISTD 467.80>423.00 1.61e6



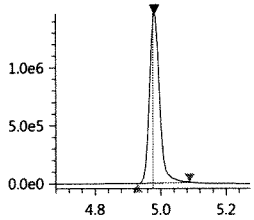
PFNA-13C
Conc 4.3908
RT 4.792 Area 3368131
Q 467.80>423.00 1.61e6



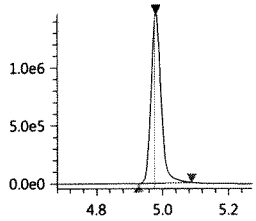
PFNA
Conc 1.4594
RT 4.792 Area 1083089
Q 463.00>418.90 5.02e5



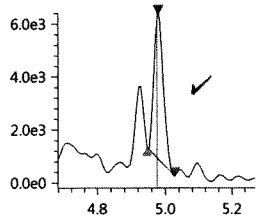
PFDA-13C_IS
Conc 5.0000
RT 4.980 Area 3130470
ISTD 514.80>469.95 1.47e6



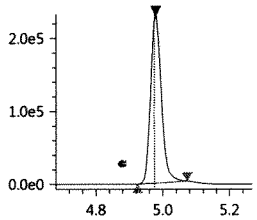
PFDA-13C
Conc 4.9424
RT 4.980 Area 3130470
Q 514.80>469.95 1.47e6



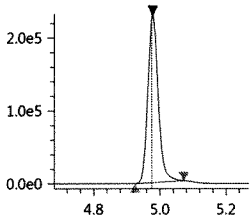
PFDA
Conc 0.0122
RT 4.979 Area 10500
Q 513.00>468.80 6.41e3



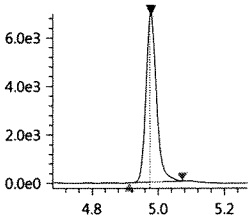
8_2-FTS-13C_IS
Conc 5.0000
RT 4.978 Area 511437
ISTD 528.80>509.00 2.33e5



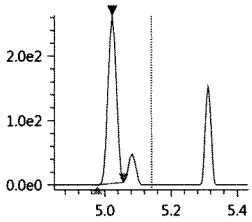
8_2-FTS-13C
Conc 8.8827
RT 4.978 Area 511437
Q 528.80>509.00 2.33e5



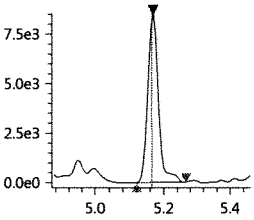
8_2-FTS_1
Conc 0.1586
RT 4.978 Area 15636
Q 526.90>506.90 7.00e3



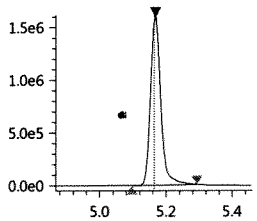
PFDS_1
Conc 0.0057
RT 5.022 Area 469
Q 599.00>79.90 2.63e2



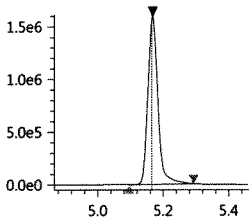
PFUnA
Conc 0.0235
RT 5.168 Area 18584
Q 563.00>518.90 8.55e3



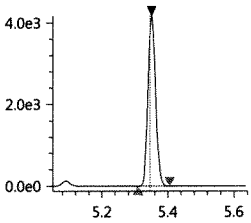
PFUnA-13C_IS
Conc 5.0000
RT 5.168 Area 3423584
ISTD 564.80>519.95 1.62e6



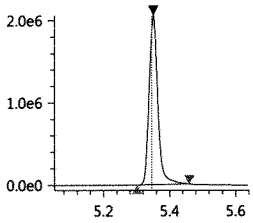
PFUnA-13C
Conc 4.5409
RT 5.168 Area 3423584
Q 564.80>519.95 1.62e6



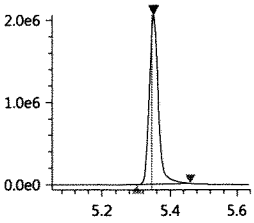
PFDoA
Conc 0.0139
RT 5.351 Area 6788
Q 613.05>569.00 4.17e3



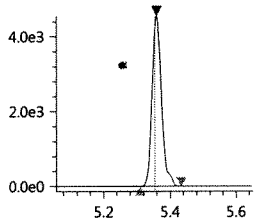
PFDoA-13C
Conc 3.9114
RT 5.351 Area 3735176
Q 614.80>569.95 2.07e6



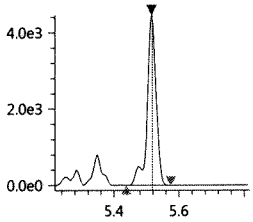
PFDoA-13C_IS
Conc 5.0000
RT 5.351 Area 3735176
ISTD 614.80>569.95 2.07e6



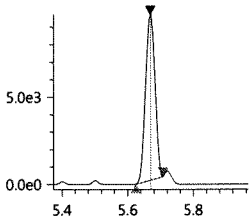
10_2-FtS_1
Conc 0.0918
RT 5.359 Area 8878
Q 627.00>606.95 4.55e3



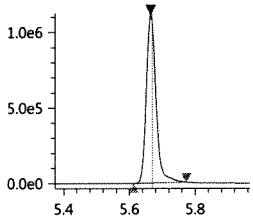
PFTrDA
Conc 0.0190
RT 5.516 Area 8686
Q 663.00>618.90 4.46e3



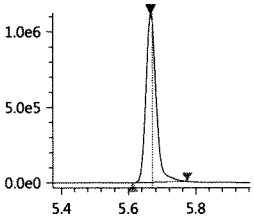
PFTeDA
Conc -0.0122
RT 5.669 Area 19070
Q 713.40>669.00 9.74e3



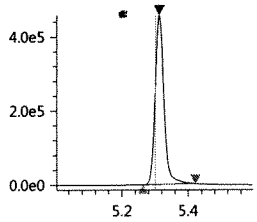
PFTeDA-13C
Conc 2.9809
RT 5.666 Area 2302064
Q 714.70>669.90 1.13e6



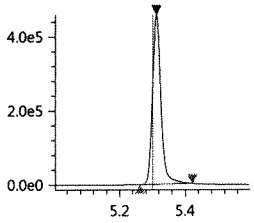
PFTeDA-13C_IS
Conc 5.0000
RT 5.666 Area 2302064
ISTD 714.70>669.90 1.13e6



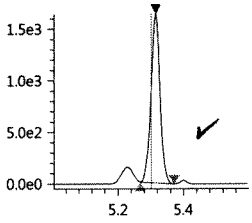
FOSA-13C_IS
Conc 5.0000
RT 5.313 Area 836929
ISTD 506.00>78.05 4.59e5



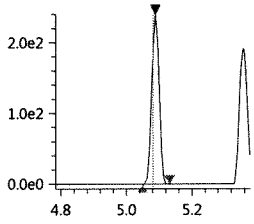
FOSA-13C
Conc 2.8881
RT 5.313 Area 836929
Q 506.00>78.05 4.59e5



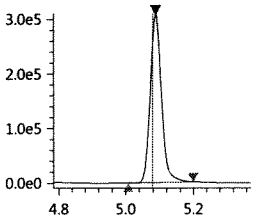
FOSA
Conc 0.0122
RT 5.315 Area 3138
Q 498.00>78.00 1.65e3



N-MeFOSAA
Conc 0.0033
RT 5.089 Area 373
Q 570.20>419.00 2.40e2



N-MeFOSAA-d3
Conc 3.7120
RT 5.087 Area 696625
Q 572.80>419.05 3.11e5



Validation Report

Data File: J:\LCMS06\Data\072717_b1\072717_123
Lab ID: K1707681-007
RunType: N/A
Matrix: Water

Date Acquired: 7/27/17 13:37
Batch ID: 555244
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Lab Control Sample Recovery		X
Duplicate Lab Control Sample Recovery		X
Method Blank	X	
Method Blank Surrogates		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Lab Control Sample Recovery	Perfluorohexane sulfonic acid (PFHxS)	65	71	130	RR off new curve
	Perfluorodecane sulfonic acid (PFDS)	67	69	128	
Duplicate Lab Control Sample Recovery	Perfluorohexane sulfonic acid (PFHxS)	66	71	130	
	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	64	69	146	
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	68	74	132	
	Perfluorodecane sulfonic acid (PFDS)	63	69	128	
Method Blank Surrogates	13C2-8:2 FTS	161	50	150	High bias, ND

Primary Review: JT 7/28/17

Secondary Review: JUL 28 2017

Printed: 7/28/17 10:12
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072717_b1\072717_123	**Instrument:**	K-LCMS-06
Acqu Date:	7/27/17 13:37	**Vial:**	5
Run Type:	N/A	**Dilution:**	50
Lab ID:	K1707681-007	**Raw Units:**	ng/mL

Bottle ID:	K1707681-007.01	**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	555244	**Prep Lot:**	293672	**Report Group:**	K1707681
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	7/25/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700133
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.693	409789	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.407	38602	0.0695	70	19 - 126	N
13C2-PFHxA	4.236	63761	0.0863	86	10 - 151	N
18O2-PFHxS	4.429	9265	0.0927	93	20 - 128	Y
13C2-6:2 FTS	4.594	13452	0.1259	126	10 - 187	N
13C4-PFOA	4.604	81425	0.0948	95	13 - 142	N
13C5-PFNA	4.784	76297	0.0969	97	15 - 143	N
13C4-PFOS	4.769	8539	0.0781	78	11 - 131	N
13C2-PFDA	4.973	54213	0.0803	80	25 - 129	N
13C2-PFUnDA	5.162	70600	0.0930	93	16 - 129	N
13C2-PFDoDA	5.347	81479	0.0860	86	17 - 114	N
D7-MeFOSE	5.663	7883	0.0970	97	32 - 113	N
D9-EtFOSE	5.799	6254	0.0653	65	20 - 113	N
D5-EtFOSA	5.832	5995	0.0533	53	19 - 103	N
13C2-8:2 FTS	4.971	7052	0.0716	72	50 - 150	N
13C2-PFTeDA	5.662	56404	0.0752	75	50 - 150	N
13C4-PFHpA	4.426	66255	0.0884	88	50 - 150	N
13C5-PFPeA	3.980	22163	0.0822	82	50 - 150	N
13C3-PFBS	4.027	15596	0.0918	92	50 - 150	N
13C8-FOSA	5.303	22123	0.0776	78	50 - 150	N

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	0	0	0	0	U	N
Perfluoropentanoic acid (PFPeA)	3.979	103025	7.6719	210		N

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/28/17 10:12

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072717_b1\072717_123	**Instrument:**	K-LCMS-06
Acqu Date:	7/27/17 13:37	**Vial:**	5
Run Type:	N/A	**Dilution:**	50
Lab ID:	K1707681-007	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.028	65998	22.2579	600		N
Perfluorohexanoic acid (PFHxA)	4.239	240776	18.4739	500		N
Perfluoroheptanoic acid (PFHpA)	4.425	76771	5.4625	150	U	N
Perfluorohexane sulfonic acid (PFHxS)	4.424	164906	59.5422	1600		Y
Perfluorooctanoic acid (PFOA)	4.599	93031	4.2702	120		N
Perfluoroheptane sulfonic acid (PFHpS)	4.596	1623	0.9050	24	U	N
Perfluorononanoic acid (PFNA)	4.741	32608	2.0398	55	U	N
Perfluorooctane sulfonic acid (PFOS)	4.710	26118	19.2079	520		N
Perfluorodecanoic acid (PFDA)	4.947	10133	0.6899	19	U	N
Perfluoroundecanoic acid (PFUnDA)	5.133	7736	0.4810	13	U	N
Perfluorooctane sulfonamide (FOSA)	5.310	597	0.0923	2.5	U	N
Perfluorododecanoic acid (PFDoDA)	5.337	5109	0.4640	13	U	N
Perfluorotridecanoic acid (PFTrDA)	5.491	5599	0.4538	12	U	N
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.691	667	0.2588	7.0	U	N
N-Methyl perfluorooctane sulfonamidoethanol	5.564	347	0.1043	2.8	U	N
Perfluorotetradecanoic acid (PFTeDA)	5.662	2470	0.3599	9.7	U	N
N-Ethyl perfluorooctane sulfonamidoethanol	5.782	268	0.1056	2.9	U	N
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.811	192	0.8438	23	U	N
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.976	357	0.2441	6.6	U	N
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.599	3593	1.0570	29	U	N
Perfluorodecane sulfonic acid (PFDS)	0	0	0	0	U	N

Prep Amount:	148.0000 mL	**Dilution:**	50
Prep Final Amount:	4.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/28/17 10:12

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072717_123

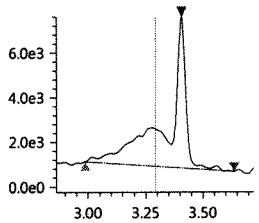
Sample ID: K1707681-007 50X
Date acquired: 7/27/2017 1:37:50 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072717_b1\072717_123.lcd
Vial: 3 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.407	38602	38602	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.407	38602	409789	1	0.0695	ng/mL	----	----	Auto
PFBA	----	----	----	2	----	ng/mL	----	----	ND(W/B)
PFPeA-13C_IS	3.980	22163	22163	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.980	22163	409789	1	0.0822	ng/mL	----	----	Auto
PFPeA	3.979	103025	22163	4	7.6719	ng/mL	----	----	Auto
PFBS_1	4.028	65998	15596	16	22.2579	ng/mL	----	----	Auto
PFBS-13C	4.027	15596	409789	1	0.0918	ng/mL	----	----	Auto
PFBS-13C_IS	4.027	15596	15596	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.236	63761	63761	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.236	63761	409789	1	0.0863	ng/mL	----	----	Auto
PFHxA	4.239	240776	63761	6	18.4739	ng/mL	----	----	Auto
HPFO_DA	----	----	----	3	----	ng/mL	----	----	ND(W/B)
HFPO_DA-13C_IS	4.301	13131	13131	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.301	13131	409789	1	0.0800	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.216	12807	12807	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.216	12807	409789	1	0.0747	ng/mL	----	----	Auto
4_2-FTS_1	4.240	146	12807	5	0.0439	ng/mL	----	----	Auto
PFHpA	4.425	76771	66255	8	5.4625	ng/mL	----	----	Auto
PFHpA-13C_IS	4.426	66255	66255	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.426	66255	409789	1	0.0884	ng/mL	----	----	Auto
PFHxS-18O_IS	4.429	9265	9265	7	5.0000	ng/mL	----	----	M
PFHxS-18O	4.429	9265	409789	1	0.0927	ng/mL	----	----	M
PFHxS_1	4.424	164906	9265	7	59.5422	ng/mL	----	----	Auto
6_2-FTS-13C	4.594	13452	409789	1	0.1259	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.594	13452	13452	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.599	3593	13452	10	1.0570	ng/mL	----	----	Auto
PFHpS_1	4.596	1623	9265	7	0.9050	ng/mL	----	----	Auto
PFOA-13C_IS	4.604	81425	81425	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.604	81425	409789	1	0.0948	ng/mL	----	----	Auto
PFOA	4.599	93031	81425	9	4.2702	ng/mL	----	----	Auto
PFOS_1	4.710	26118	8539	13	19.2079	ng/mL	----	----	Auto
PFOS-13C_IS	4.769	8539	8539	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.769	8539	409789	1	0.0781	ng/mL	----	----	Auto
PFNA-13C_IS	4.784	76297	76297	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.784	76297	409789	1	0.0969	ng/mL	----	----	Auto
PFNA	4.741	32608	76297	11	2.0398	ng/mL	----	----	Auto
PFDA-13C_IS	4.973	54213	54213	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.973	54213	409789	1	0.0803	ng/mL	----	----	Auto
PFDA	4.947	10133	54213	12	0.6899	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.971	7052	7052	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.971	7052	409789	1	0.0716	ng/mL	----	----	Auto
8_2-FTS_1	4.976	357	7052	15	0.2441	ng/mL	----	----	Auto
PFDS_1	----	----	----	13	----	ng/mL	----	----	ND(W/B)
PFUnA	5.133	7736	70600	14	0.4810	ng/mL	----	----	Auto
PFUnA-13C_IS	5.162	70600	70600	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.162	70600	409789	1	0.0930	ng/mL	----	----	Auto
PFDoA	5.337	5109	81479	17	0.4640	ng/mL	----	----	Auto
PFDoA-13C	5.347	81479	409789	1	0.0860	ng/mL	----	----	Auto
PFDoA-13C_IS	5.347	81479	81479	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	----	----	----	15	----	ng/mL	----	----	ND(W/B)
PFTrDA	5.491	5599	56404	22	0.4538	ng/mL	----	----	Auto
PFTeDA	5.662	2470	56404	22	0.3599	ng/mL	----	----	Auto
PFTeDA-13C	5.662	56404	409789	1	0.0752	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.662	56404	56404	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.303	22123	22123	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.303	22123	409789	1	0.0776	ng/mL	----	----	Auto
FOSA	5.310	597	22123	18	0.0923	ng/mL	----	----	Auto
N-MeFOSAA	5.077	1760	16465	19	0.6806	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.082	16465	409789	1	0.0824	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.082	16465	16465	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.693	409789	409789	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.691	667	7883	20	0.2588	ng/mL	----	----	Auto
N-MeFOSE-d7	5.663	7883	409789	1	0.0970	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.663	7883	7883	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	5.564	347	7883	20	0.1043	ng/mL	----	----	Auto
N-EtFOSAA	5.151	182	15045	21	0.0682	ng/mL	----	----	Auto

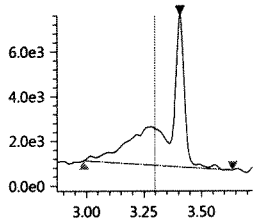
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.182	15045	15045	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.182	15045	409789	1	0.0861	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.832	5995	5995	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.832	5995	409789	1	0.0533	ng/mL	----	----	Auto
N-EtFOSA	5.811	192	5995	23	0.8438	ng/mL	----	----	Auto
N-EtFOSE-d9_IS	5.799	6254	6254	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.799	6254	409789	1	0.0653	ng/mL	----	----	Auto
N-EtFOSE	5.782	268	6254	24	0.1056	ng/mL	----	----	Auto

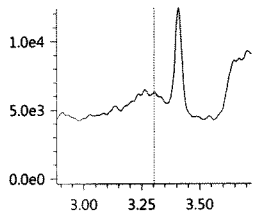
PFBA-13C_IS
Conc 5.0000
RT 3.407 Area 38602
ISTD 216.90>172.15 7.60e3



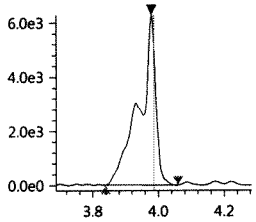
PFBA-13C
Conc 0.0695
RT 3.407 Area 38602
Q 216.90>172.15 7.60e3



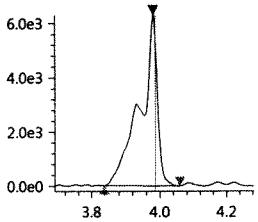
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 1.24e4



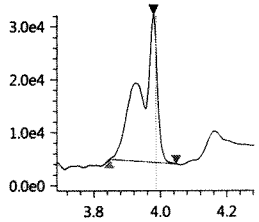
PFPeA-13C_IS
Conc 5.0000
RT 3.980 Area 22163
ISTD 267.90>223.00 6.30e3



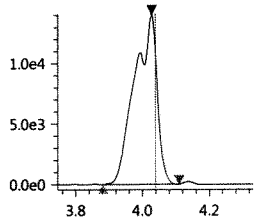
PFPeA-13C
Conc 0.0822
RT 3.980 Area 22163
Q 267.90>223.00 6.30e3



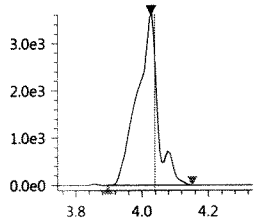
PFPeA
Conc 7.6719
RT 3.979 Area 103025
Q 263.05>219.10 3.22e4



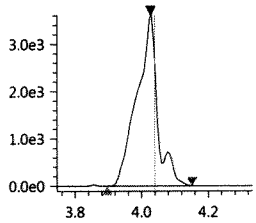
PFBS_1
Conc 22.2579
RT 4.028 Area 65998
Q 299.00>80.00 1.41e4



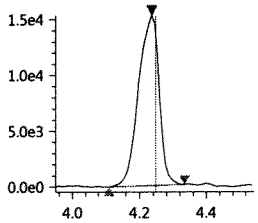
PFBS-13C
Conc 0.0918
RT 4.027 Area 15596
Q 301.80>80.00 3.62e3



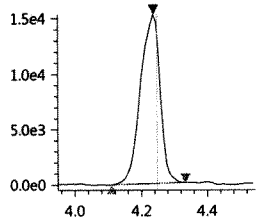
PFBS-13C_IS
Conc 5.0000
RT 4.027 Area 15596
ISTD 301.80>80.00 3.62e3



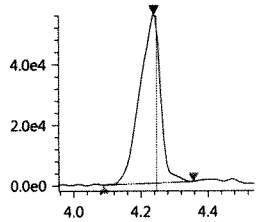
PFHxA-13C_IS
Conc 5.0000
RT 4.236 Area 63761
ISTD 314.90>270.10 1.54e4



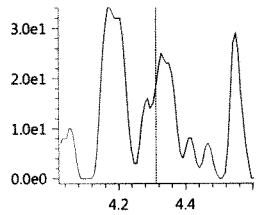
PFHxA-13C
Conc 0.0863
RT 4.236 Area 63761
Q 314.90>270.10 1.54e4



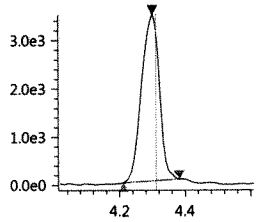
PFHxA
Conc 18.4739
RT 4.239 Area 240776
Q 313.00>269.00 5.61e4



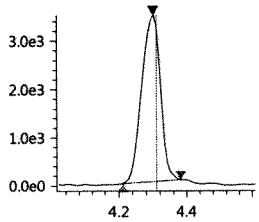
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 3.40e1



HFPO_DA-13C_IS
Conc 5.0000
RT 4.301 Area 13131
ISTD 332.00>286.80 3.53e3

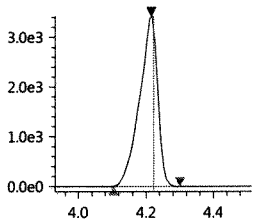


HFPO_DA-13C
Conc 0.0800
RT 4.301 Area 13131
Q 332.00>286.80 3.53e3



JT 7/28/17

4_2-FTS-13C_IS
Conc 5.0000
RT 4.216 Area 12807
ISTD 328.80>309.05 3.43e3



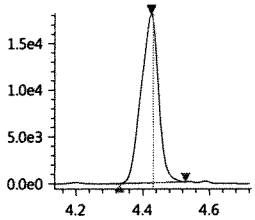
4_2-FTS-13C
Conc 0.0747
RT 4.216 Area 12807
Q 328.80>309.05 3.43e3

4_2-FTS_1
Conc 0.0439
RT 4.240 Area 146
Q 327.00>307.05 7.40e1

PFHpA
Conc 5.4625
RT 4.425 Area 76771
Q 362.90>319.00 1.71e4

PFHpA-13C_IS
Conc 5.0000
RT 4.426 Area 66255
ISTD 366.90>322.10 1.82e4

PFHpA-13C
Conc 0.0884
RT 4.426 Area 66255
Q 366.90>322.10 1.82e4



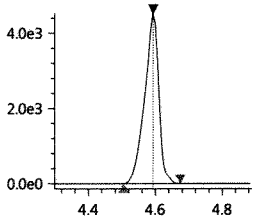
PFHxS-18O_IS
Conc 5.0000
RT 4.429 Area 9265
ISTD 402.70>84.05 2.93e3

PFHxS-18O
Conc 0.0927
RT 4.429 Area 9265
Q 402.70>84.05 2.93e3

PFHxS_1
Conc 59.5422
RT 4.424 Area 164906
Q 399.00>80.00 3.90e4

6_2-FTS-13C
Conc 0.1259
RT 4.594 Area 13452
Q 428.90>409.00 4.54e3

6_2-FTS-13C_IS
Conc 5.0000
RT 4.594 Area 13452
ISTD 428.90>409.00 4.54e3



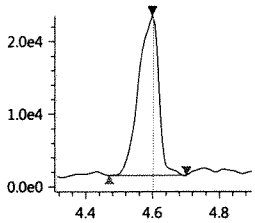
6_2-FTS_1
Conc 1.0570
RT 4.599 Area 3593
Q 427.00>407.00 1.14e3

PFHpS_1
Conc 0.9050
RT 4.596 Area 1623
Q 449.00>80.15 9.75e2

PFOA-13C_IS
Conc 5.0000
RT 4.604 Area 81425
ISTD 416.80>372.05 2.40e4

PFOA-13C
Conc 0.0948
RT 4.604 Area 81425
Q 416.80>372.05 2.40e4

PFOA
Conc 4.2702
RT 4.599 Area 93031
Q 413.00>369.00 2.35e4



PFOS_1
Conc 19.2079
RT 4.710 Area 26118
Q 499.00>80.00 4.56e3

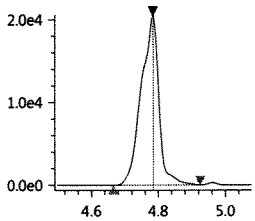
PFOS-13C_IS
Conc 5.0000
RT 4.769 Area 8539
ISTD 502.80>80.05 3.01e3

PFOS-13C
Conc 0.0781
RT 4.769 Area 8539
Q 502.80>80.05 3.01e3

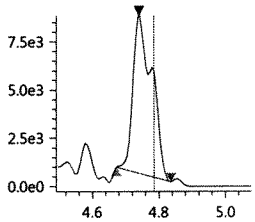
PFNA-13C_IS
Conc 5.0000
RT 4.784 Area 76297
ISTD 467.80>423.00 2.06e4

JUL 28 2017

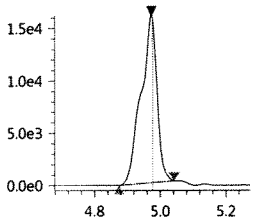
PFNA-13C
Conc 0.0969
RT 4.784 Area 76297
Q 467.80>423.00 2.06e4



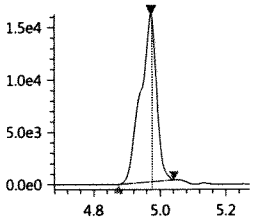
PFNA
Conc 2.0398
RT 4.741 Area 32608
Q 463.00>418.90 8.83e3



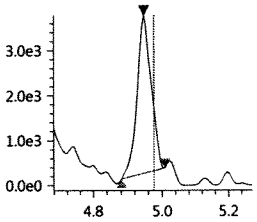
PFDA-13C_IS
Conc 5.0000
RT 4.973 Area 54213
ISTD 514.80>469.95 1.63e4



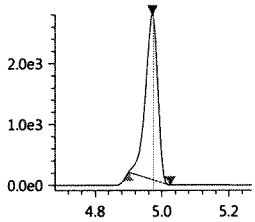
PFDA-13C
Conc 0.0803
RT 4.973 Area 54213
Q 514.80>469.95 1.63e4



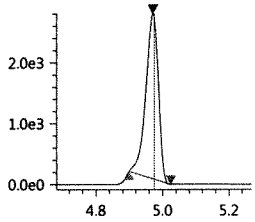
PFDA
Conc 0.6899
RT 4.947 Area 10133
Q 513.00>468.80 3.78e3



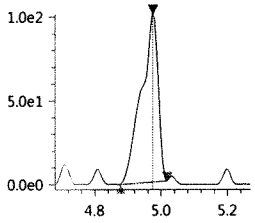
8_2-FTS-13C_IS
Conc 5.0000
RT 4.971 Area 7052
ISTD 528.80>509.00 2.81e3



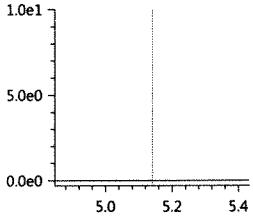
8_2-FTS-13C
Conc 0.0716
RT 4.971 Area 7052
Q 528.80>509.00 2.81e3



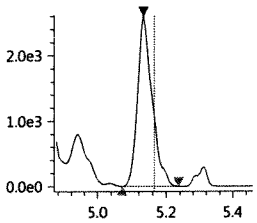
8_2-FTS_1
Conc 0.2441
RT 4.976 Area 357
Q 526.90>506.90 1.02e2



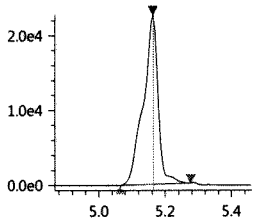
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 0.00e0



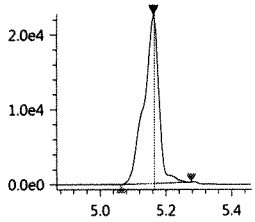
PFUnA
Conc 0.4810
RT 5.133 Area 7736
Q 563.00>518.90 2.61e3



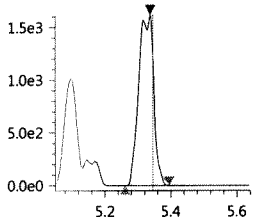
PFUnA-13C_IS
Conc 5.0000
RT 5.162 Area 70600
ISTD 564.80>519.95 2.28e4



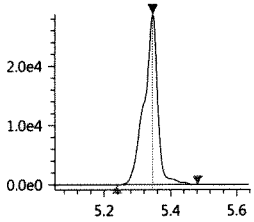
PFUnA-13C
Conc 0.0930
RT 5.162 Area 70600
Q 564.80>519.95 2.28e4



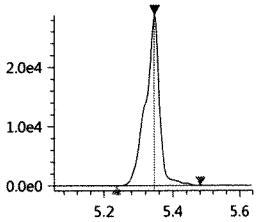
PFDoA
Conc 0.4640
RT 5.337 Area 5109
Q 613.05>569.00 1.62e3



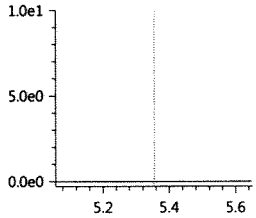
PFDoA-13C
Conc 0.0860
RT 5.347 Area 81479
Q 614.80>569.95 2.88e4



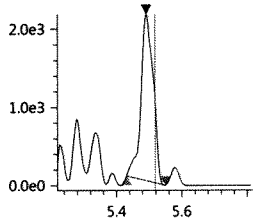
PFDoA-13C_IS
Conc 5.0000
RT 5.347 Area 81479
ISTD 614.80>569.95 2.88e4



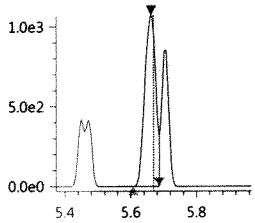
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



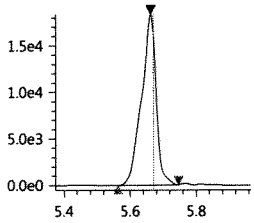
PFTrDA
Conc 0.4538
RT 5.491 Area 5599
Q 663.00>618.90 2.19e3



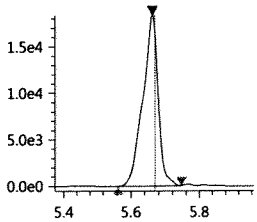
PFTeDA
Conc 0.3599
RT 5.662 Area 2470
Q 713.40>669.00 1.07e3



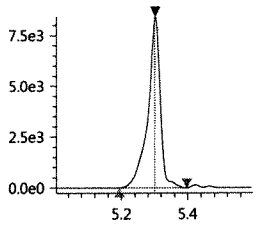
PFTeDA-13C
Conc 0.0752
RT 5.662 Area 56404
Q 714.70>669.90 1.84e4



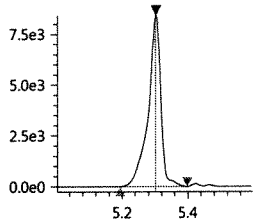
PFTeDA-13C_IS
Conc 5.0000
RT 5.662 Area 56404
ISTD 714.70>669.90 1.84e4



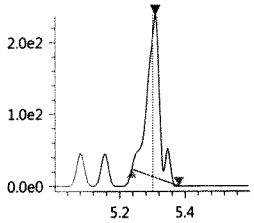
FOSA-13C_IS
Conc 5.0000
RT 5.303 Area 22123
ISTD 506.00>78.05 8.43e3



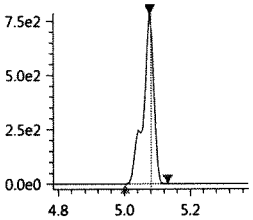
FOSA-13C
Conc 0.0776
RT 5.303 Area 22123
Q 506.00>78.05 8.43e3



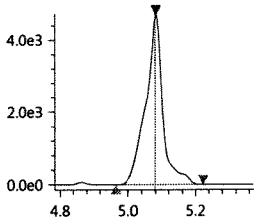
FOSA
Conc 0.0923
RT 5.310 Area 597
Q 498.00>78.00 2.38e2



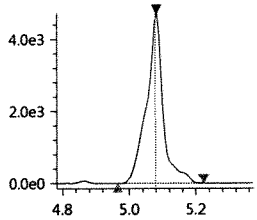
N-MeFOSAA
Conc 0.6806
RT 5.077 Area 1760
Q 570.20>419.00 7.89e2



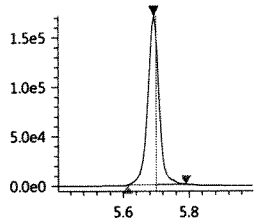
N-MeFOSAA-d3
Conc 0.0824
RT 5.082 Area 16465
Q 572.80>419.05 4.74e3



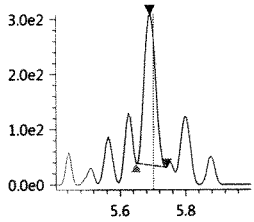
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.082 Area 16465
ISTD 572.80>419.05 4.74e3



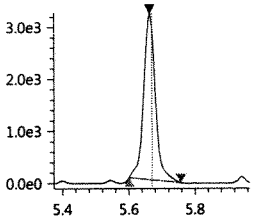
N-MeFOSA_IS
Conc 5.0000
RT 5.693 Area 409789
ISTD 514.90>168.90 1.72e5



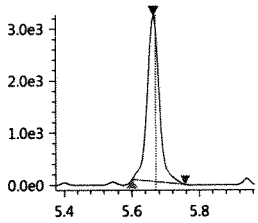
N-MeFOSA
Conc 0.2588
RT 5.691 Area 667
Q 512.00>169.10 3.09e2



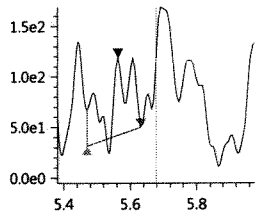
N-MeFOSE-d7
Conc 0.0970
RT 5.663 Area 7883
Q 622.70>59.10 3.28e3



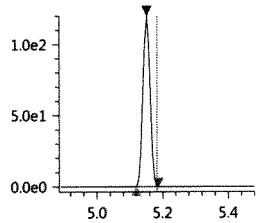
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.663 Area 7883
ISTD 622.70>59.10 3.28e3



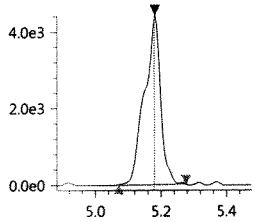
N-MeFOSE
Conc 0.1043
RT 5.564 Area 347
Q 616.00>59.00 1.69e2



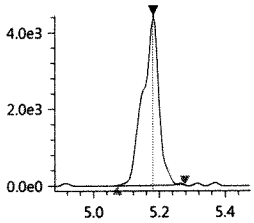
N-EtFOSAA
Conc 0.0682
RT 5.151 Area 182
Q 584.20>418.95 1.20e2



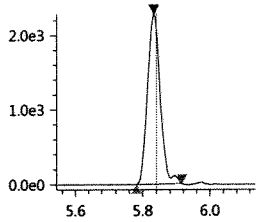
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.182 Area 15045
ISTD 588.80>419.00 4.46e3



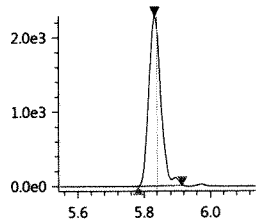
N-EtFOSAA-d5
Conc 0.0861
RT 5.182 Area 15045
Q 588.80>419.00 4.46e3



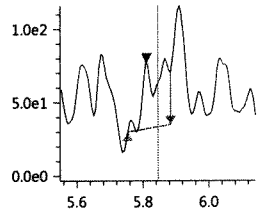
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.832 Area 5995
ISTD 530.90>169.15 2.29e3



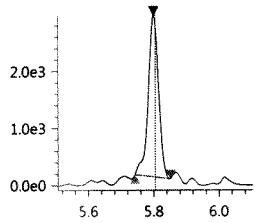
N-EtFOSA-d9
Conc 0.0533
RT 5.832 Area 5995
Q 530.90>169.15 2.29e3



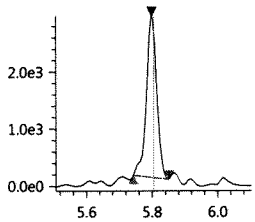
N-EtFOSA
Conc 0.8438
RT 5.811 Area 192
Q 526.90>169.10 1.16e2



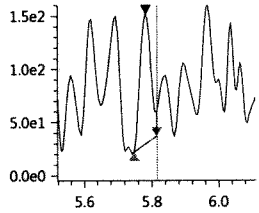
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.799 Area 6254
ISTD 638.70>59.10 2.98e3



N-EtFOSE-d9
Conc 0.0653
RT 5.799 Area 6254
Q 638.70>59.10 2.98e3



N-EtFOSE
Conc 0.1056
RT 5.782 Area 268
Q 630.00>58.90 1.60e2



Insight Report

Befores

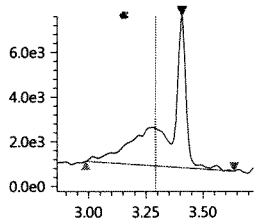
Printed at 7/27/2017 3:05:16 PM

072717_123

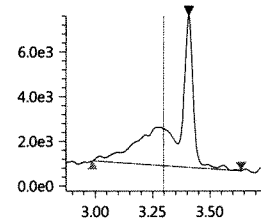
JT 7/28/17

Sample ID: K1707681-007 50X
Date acquired: 7/27/2017 1:37:50 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072717_b1\072717_123.lcd
Vial: 3 | Inj. Volume: 15.0000uL | Tray: 2

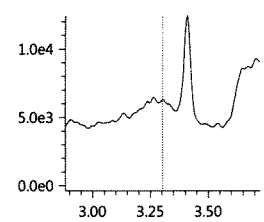
PFBA-13C_IS
Conc 5.0000
RT 3.407 Area 38602
ISTD 216.90>172.15 7.60e3



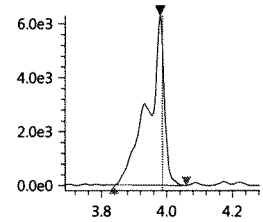
PFBA-13C
Conc 0.0695
RT 3.407 Area 38602
Q 216.90>172.15 7.60e3



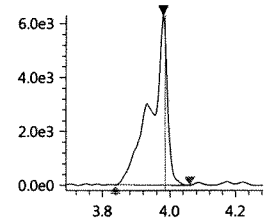
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 1.24e4



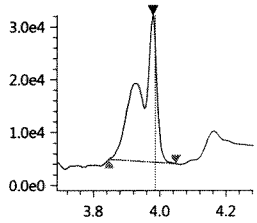
PFPeA-13C_IS
Conc 5.0000
RT 3.980 Area 22163
ISTD 267.90>223.00 6.30e3



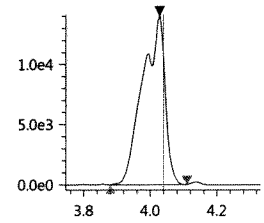
PFPeA-13C
Conc 0.0822
RT 3.980 Area 22163
Q 267.90>223.00 6.30e3



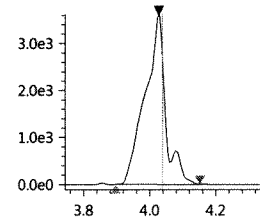
PFPeA
Conc 7.6719
RT 3.979 Area 103025
Q 263.05>219.10 3.22e4



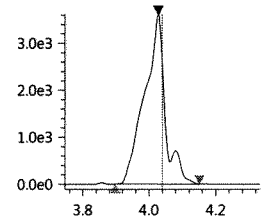
PFBS_1
Conc 22.2579
RT 4.028 Area 65998
Q 299.00>80.00 1.41e4



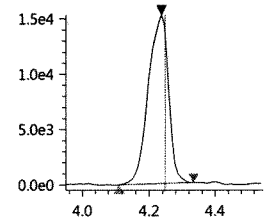
PFBS-13C
Conc 0.0918
RT 4.027 Area 15596
Q 301.80>80.00 3.62e3



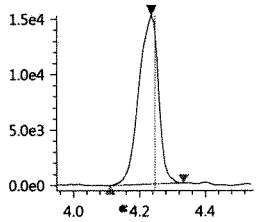
PFBS-13C_IS
Conc 5.0000
RT 4.027 Area 15596
ISTD 301.80>80.00 3.62e3



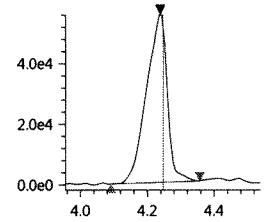
PFHxA-13C_IS
Conc 5.0000
RT 4.236 Area 63761
ISTD 314.90>270.10 1.54e4



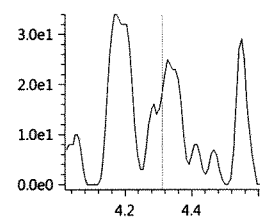
PFHxA-13C
Conc 0.0863
RT 4.236 Area 63761
Q 314.90>270.10 1.54e4



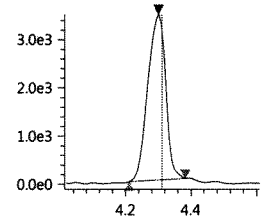
PFHxA
Conc 18.4739
RT 4.239 Area 240776
Q 313.00>269.00 5.61e4



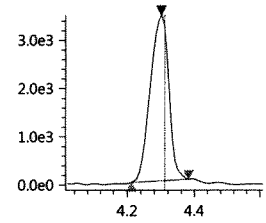
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 3.40e1



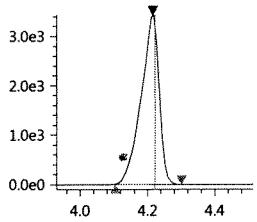
HFPO_DA-13C_IS
Conc 5.0000
RT 4.301 Area 13131
ISTD 332.00>286.80 3.53e3



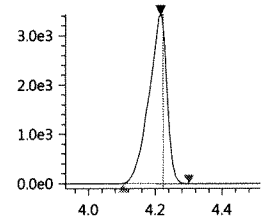
HFPO_DA-13C
Conc 0.0800
RT 4.301 Area 13131
Q 332.00>286.80 3.53e3



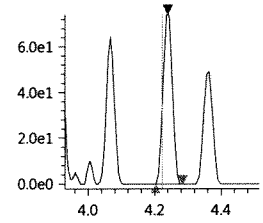
4_2-FTS-13C_IS
Conc 5.0000
RT 4.216 Area 12807
ISTD 328.80>309.05 3.43e3



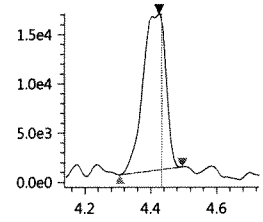
4_2-FTS-13C
Conc 0.0747
RT 4.216 Area 12807
Q 328.80>309.05 3.43e3



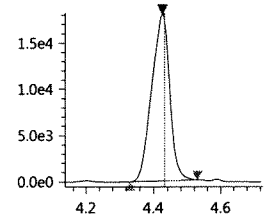
4_2-FTS_1
Conc 0.0439
RT 4.240 Area 146
Q 327.00>307.05 7.40e1



PFHpA
Conc 5.4625
RT 4.425 Area 76771
Q 362.90>319.00 1.71e4

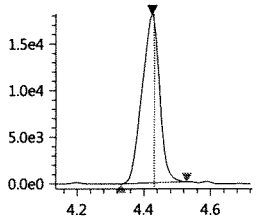


PFHpA-13C_IS
Conc 5.0000
RT 4.426 Area 66255
ISTD 366.90>322.10 1.82e4

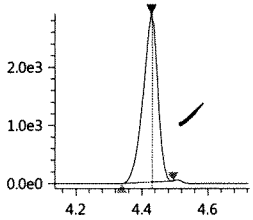


JUL 28 2017

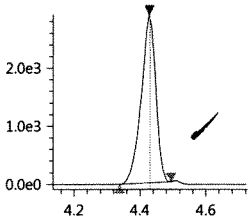
PFHpA-13C
Conc 0.0884
RT 4.426 Area 66255
Q 366.90>322.10 1.82e4



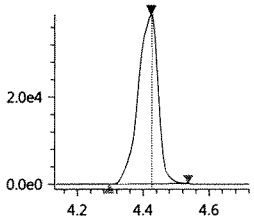
PFHxS-18O_IS
Conc 5.0000
RT 4.429 Area 8949
ISTD 402.70>84.05 2.93e3



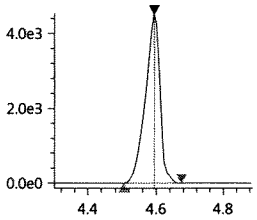
PFHxS-18O
Conc 0.0896
RT 4.429 Area 8949
Q 402.70>84.05 2.93e3



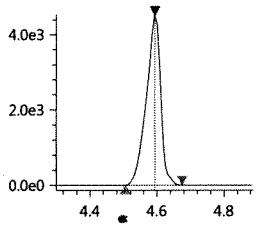
PFHxS_1
Conc 61.6441
RT 4.424 Area 164906
Q 399.00>80.00 3.90e4



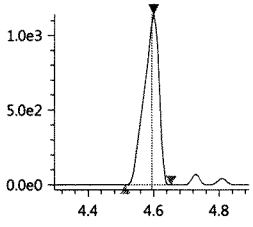
6_2-FTS-13C
Conc 0.1259
RT 4.594 Area 13452
Q 428.90>409.00 4.54e3



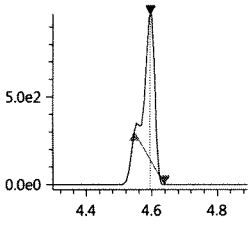
6_2-FTS-13C_IS
Conc 5.0000
RT 4.594 Area 13452
ISTD 428.90>409.00 4.54e3



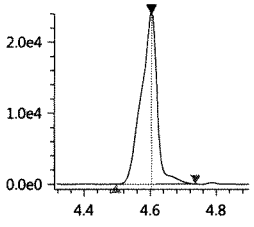
6_2-FTS_1
Conc 1.0570
RT 4.599 Area 3593
Q 427.00>407.00 1.14e3



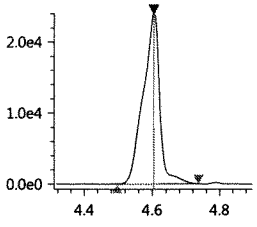
PFHpS_1
Conc 0.9370
RT 4.596 Area 1623
Q 449.00>80.15 9.75e2



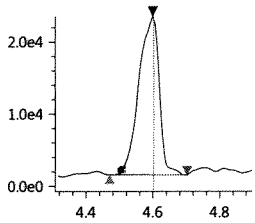
PFOA-13C_IS
Conc 5.0000
RT 4.604 Area 81425
ISTD 416.80>372.05 2.40e4



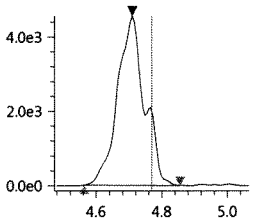
PFOA-13C
Conc 0.0948
RT 4.604 Area 81425
Q 416.80>372.05 2.40e4



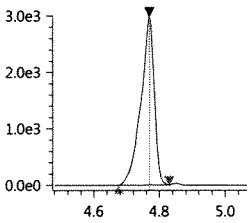
PFOA
Conc 4.2702
RT 4.599 Area 93031
Q 413.00>369.00 2.35e4



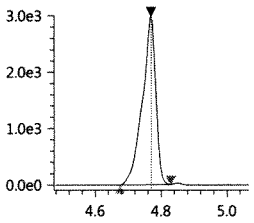
PFOS_1
Conc 19.2079
RT 4.710 Area 26118
Q 499.00>80.00 4.56e3



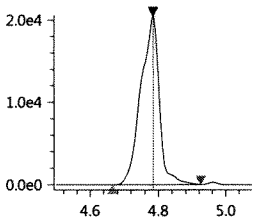
PFOS-13C_IS
Conc 5.0000
RT 4.769 Area 8539
ISTD 502.80>80.05 3.01e3



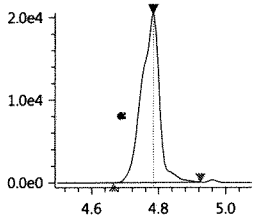
PFOS-13C
Conc 0.0781
RT 4.769 Area 8539
Q 502.80>80.05 3.01e3



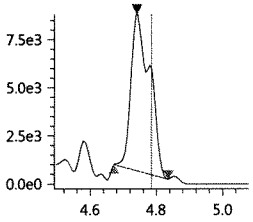
PFNA-13C_IS
Conc 5.0000
RT 4.784 Area 76297
ISTD 467.80>423.00 2.06e4



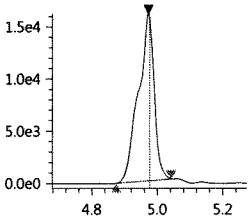
PFNA-13C
Conc 0.0969
RT 4.784 Area 76297
Q 467.80>423.00 2.06e4



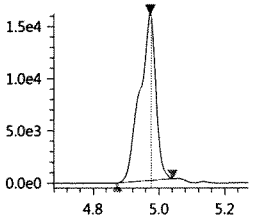
PFNA
Conc 2.0398
RT 4.741 Area 32608
Q 463.00>418.90 8.83e3



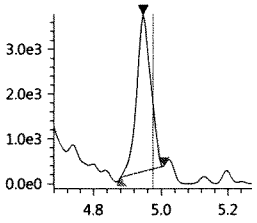
PFDA-13C_IS
Conc 5.0000
RT 4.973 Area 54213
ISTD 514.80>469.95 1.63e4



PFDA-13C
Conc 0.0803
RT 4.973 Area 54213
Q 514.80>469.95 1.63e4



PFDA
Conc 0.6899
RT 4.947 Area 10133
Q 513.00>468.80 3.78e3



Validation Report

Data File: J:\LCMS06\Data\072717_b1\072717_124
Lab ID: K1707681-007.R02
RunType: N/A
Matrix: Water

Date Acquired: 7/27/17 13:48
Batch ID: 555244
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Lab Control Sample Recovery		X
Duplicate Lab Control Sample Recovery		X
Method Blank	X	
Method Blank Surrogates		X
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Lab Control Sample Recovery	Perfluorohexane sulfonic acid (PFHxS)	65	71	130	RR off new curve
	Perfluorodecane sulfonic acid (PFDS)	67	69	128	
Duplicate Lab Control Sample Recovery	Perfluorohexane sulfonic acid (PFHxS)	66	71	130	
	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	64	69	146	
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	68	74	132	
	Perfluorodecane sulfonic acid (PFDS)	63	69	128	
Method Blank Surrogates	13C2-8:2 FTS	161	50	150	High bias, ND
Surrogates	13C3-PFBS	42	50	150	NR from RR
Above Highest ICAL Level	Perfluorohexane sulfonic acid (PFHxS)	5212700		1943285	
	Perfluorooctane sulfonic acid (PFOS)	1384739		1307564	

Primary Review: JT 7/28/17

Secondary Review: JUL 28 2017

Printed: 7/28/17 10:12
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072717_b1\072717_124	**Instrument:**	K-LCMS-06
Acqu Date:	7/27/17 13:48	**Vial:**	4
Run Type:	N/A	**Dilution:**	1
Lab ID:	K1707681-007.R02	**Raw Units:**	ng/mL

Bottle ID:	K1707681-007.01	**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	555244	**Prep Lot:**	293672	**Report Group:**	K1707681
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	7/25/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700133
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.695	408081	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.407	1755841	3.1763	64	19 - 126	N
13C2-PFHxA	4.241	2616494	3.5571	71	10 - 151	N
18O2-PFHxS	4.431	280454	2.8186	56	20 - 128	N
13C2-6:2 FTS	4.595	547474	5.1457	103	10 - 187	Y
13C4-PFOA	4.605	3757669	4.3942	88	13 - 142	N
13C5-PFNA	4.786	3226365	4.1165	82	15 - 143	N
13C4-PFOS	4.770	413939	3.8045	76	11 - 131	N
13C2-PFDA	4.974	2967470	4.4118	88	25 - 129	N
13C2-PFUnDA	5.162	3101902	4.1040	82	16 - 129	N
13C2-PFDoDA	5.347	3634468	3.8534	77	17 - 114	N
D7-MeFOSE	5.668	291039	3.5945	72	32 - 113	N
D9-EtFOSE	5.803	288129	3.0213	60	20 - 113	N
D5-EtFOSA	5.835	339383	3.0276	61	19 - 103	N
13C2-8:2 FTS	4.972	475215	4.8425	97	50 - 150	Y
13C2-PFTeDA	5.664	2190599	2.9347	59	50 - 150	N
13C4-PFHpA	4.433	1936322	2.5957	52	50 - 150	N
13C5-PFPeA	3.976	839663	3.1270	63	50 - 150	N
13C3-PFBS	4.026	356423	2.1071	42 *	50 - 150	N
13C8-FOSA	5.306	820974	2.8921	58	50 - 150	N

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.409	1528213	3.4432	93		N
Perfluoropentanoic acid (PFPeA)	3.976	3320181	6.5119	180		N

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/28/17 10:12

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072717_b1\072717_124	**Instrument:**	K-LCMS-06
Acqu Date:	7/27/17 13:48	**Vial:**	4
Run Type:	N/A	**Dilution:**	1
Lab ID:	K1707681-007.R02	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.026	1791937	26.4443	710		N
Perfluorohexanoic acid (PFHxA)	4.240	9903099	18.5161	500		N
Perfluoroheptanoic acid (PFHpA)	4.431	2698956	6.5763	180		N
Perfluorohexane sulfonic acid (PFHxS)	4.429	5212700	62.1744	1700	E	N
Perfluorooctanoic acid (PFOA)	4.604	4263093	4.2402	110		N
Perfluoroheptane sulfonic acid (PFHpS)	4.595	150160	2.7656	75		N
Perfluorononanoic acid (PFNA)	4.786	998241	1.4767	40		N
Perfluorooctane sulfonic acid (PFOS)	4.708	1384739	21.0067	570	E	N
Perfluorodecanoic acid (PFDA)	4.974	11248	0.0140	0.38	U	N
Perfluoroundecanoic acid (PFUnDA)	5.162	18068	0.0256	0.69	U	N
Perfluorooctane sulfonamide (FOSA)	5.306	2110	0.0088	0.24	U	N
Perfluorododecanoic acid (PFDoDA)	5.345	5925	0.0121	0.33	U	N
Perfluorotridecanoic acid (PFTrDA)	5.515	11993	0.0250	0.68	U	N
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.695	822	0.0086	0.23	U	N
N-Methyl perfluorooctane sulfonamidoethanol	5.592	756	0.0062	0.17	U	N
Perfluorotetradecanoic acid (PFTeDA)	5.665	21133	0.0229	0.62	U	N
N-Ethyl perfluorooctane sulfonamidoethanol	5.782	372	0.0032	0.086	U	N
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0	0	0	0	U	N
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.972	16296	0.1655	4.5		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.594	130890	0.9462	26		Y
Perfluorodecane sulfonic acid (PFDS)	5.031	322	0.0042	0.11	U	N

Prep Amount:	148.0000 mL	**Dilution:**	1
Prep Final Amount:	4.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/28/17 10:12

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072717_124

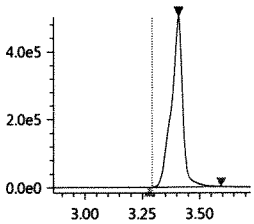
Sample ID: K1707681-007
Date acquired: 7/27/2017 1:48:19 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072717_b1\072717_124.lcd
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.407	1755841	1755841	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.407	1755841	408081	1	3.1763	ng/mL	----	----	Auto
PFBA	3.409	1528213	1755841	2	3.4432	ng/mL	----	----	Auto
PFPeA-13C_IS	3.976	839663	839663	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.976	839663	408081	1	3.1270	ng/mL	----	----	Auto
PFPeA	3.976	3320181	839663	4	6.5119	ng/mL	----	----	Auto
PFBS_1	4.026	1791937	356423	16	26.4443	ng/mL	----	----	Auto
PFBS-13C	4.026	356423	408081	1	2.1071	ng/mL	----	----	Auto
PFBS-13C_IS	4.026	356423	356423	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.241	2616494	2616494	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.241	2616494	408081	1	3.5571	ng/mL	----	----	Auto
PFHxA	4.240	9903099	2616494	6	18.5161	ng/mL	----	----	Auto
HPFO_DA	4.377	173	408955	3	0.0021	ng/mL	----	----	Auto
HFPO_DA-13C_IS	4.308	408955	408955	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.308	408955	408081	1	2.5012	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.216	850484	850484	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.216	850484	408081	1	4.9824	ng/mL	----	----	Auto
4_2-FTS_1	4.215	3542	850484	5	0.0161	ng/mL	----	----	Auto
PFHpA	4.431	2698956	1936322	8	6.5763	ng/mL	----	----	Auto
PFHpA-13C_IS	4.433	1936322	1936322	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.433	1936322	408081	1	2.5957	ng/mL	----	----	Auto
PFHxS-18O_IS	4.431	280454	280454	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.431	280454	408081	1	2.8186	ng/mL	----	----	Auto
PFHxS_1	4.429	5212700	280454	7	62.1744	ng/mL	----	----	Auto
6_2-FTS-13C	4.595	547474	408081	1	5.1457	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.595	547474	547474	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.594	130890	547474	10	0.9462	ng/mL	----	----	Auto
PFHpS_1	4.595	150160	280454	7	2.7656	ng/mL	----	----	Auto
PFOA-13C_IS	4.605	3757669	3757669	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.605	3757669	408081	1	4.3942	ng/mL	----	----	Auto
PFOA	4.604	4263093	3757669	9	4.2402	ng/mL	----	----	Auto
PFOS_1	4.708	1384739	413939	13	21.0067	ng/mL	----	----	Auto
PFOS-13C_IS	4.770	413939	413939	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.770	413939	408081	1	3.8045	ng/mL	----	----	Auto
PFNA-13C_IS	4.786	3226365	3226365	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.786	3226365	408081	1	4.1165	ng/mL	----	----	Auto
PFNA	4.786	998241	3226365	11	1.4767	ng/mL	----	----	Auto
PFDA-13C_IS	4.974	2967470	2967470	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.974	2967470	408081	1	4.4118	ng/mL	----	----	Auto
PFDA	4.974	11248	2967470	12	0.0140	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.972	475215	475215	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.972	475215	408081	1	4.8425	ng/mL	----	----	Auto
8_2-FTS_1	4.972	16296	475215	15	0.1655	ng/mL	----	----	M
PFDS_1	5.031	322	413939	13	0.0042	ng/mL	----	----	Auto
PFUnA	5.162	18068	3101902	14	0.0256	ng/mL	----	----	Auto
PFUnA-13C_IS	5.162	3101902	3101902	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.162	3101902	408081	1	4.1040	ng/mL	----	----	Auto
PFDoA	5.345	5925	3634468	17	0.0121	ng/mL	----	----	Auto
PFDoA-13C	5.347	3634468	408081	1	3.8534	ng/mL	----	----	Auto
PFDoA-13C_IS	5.347	3634468	3634468	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	5.356	7718	475215	15	0.1418	ng/mL	----	----	Auto
PFTrDA	5.515	11993	2190599	22	0.0250	ng/mL	----	----	Auto
PFTeDA	5.665	21133	2190599	22	0.0229	ng/mL	----	----	Auto
PFTeDA-13C	5.664	2190599	408081	1	2.9347	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.664	2190599	2190599	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.306	820974	820974	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.306	820974	408081	1	2.8921	ng/mL	----	----	Auto
FOSA	5.306	2110	820974	18	0.0088	ng/mL	----	----	Auto
N-MeFOSAA	5.086	376	716507	19	0.0033	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.081	716507	408081	1	3.6000	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.081	716507	716507	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.695	408081	408081	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.695	822	291039	20	0.0086	ng/mL	----	----	Auto
N-MeFOSE-d7	5.668	291039	408081	1	3.5945	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.668	291039	291039	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	5.592	756	291039	20	0.0062	ng/mL	----	----	Auto
N-EtFOSAA	----	----	----	21	----	ng/mL	----	----	ND(W/B)

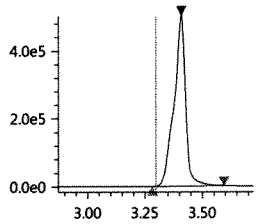
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.181	602297	602297	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.181	602297	408081	1	3.4605	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.835	339383	339383	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.835	339383	408081	1	3.0276	ng/mL	----	----	Auto
N-EtFOSA	----	----	----	23	----	ng/mL	----	----	ND(W/B)
N-EtFOSE-d9_IS	5.803	288129	288129	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.803	288129	408081	1	3.0213	ng/mL	----	----	Auto
N-EtFOSE	5.782	372	288129	24	0.0032	ng/mL	----	----	Auto

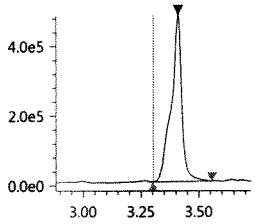
PFBA-13C_IS
Conc 5.0000
RT 3.407 Area 1755841
ISTD 216.90>172.15 5.04e5



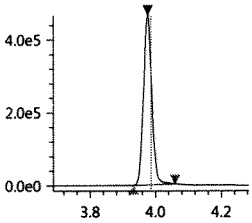
PFBA-13C
Conc 3.1763
RT 3.407 Area 1755841
Q 216.90>172.15 5.04e5



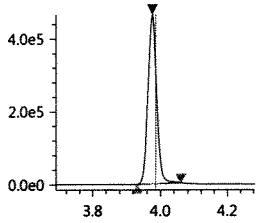
PFBA
Conc 3.4432
RT 3.409 Area 1528213
Q 213.00>169.10 4.91e5



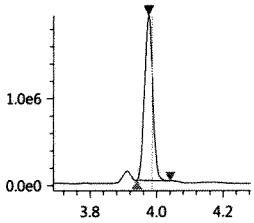
PFPeA-13C_IS
Conc 5.0000
RT 3.976 Area 839663
ISTD 267.90>223.00 4.68e5



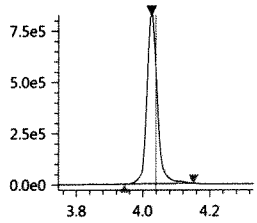
PFPeA-13C
Conc 3.1270
RT 3.976 Area 839663
Q 267.90>223.00 4.68e5



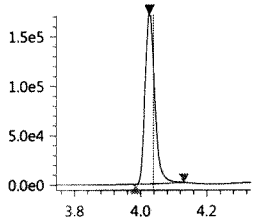
PFPeA
Conc 6.5119
RT 3.976 Area 3320181
Q 263.05>219.10 1.96e6



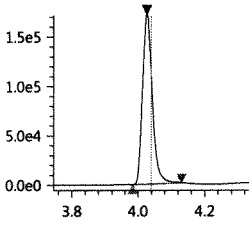
PFBS_1
Conc 26.4443
RT 4.026 Area 1791937
Q 299.00>80.00 8.30e5



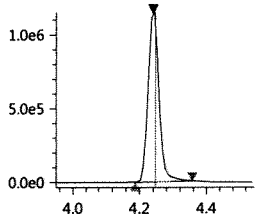
PFBS-13C
Conc 2.1071
RT 4.026 Area 356423
Q 301.80>80.00 1.72e5



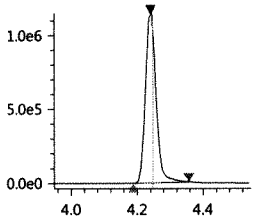
PFBS-13C_IS
Conc 5.0000
RT 4.026 Area 356423
ISTD 301.80>80.00 1.72e5



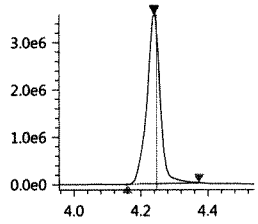
PFHxA-13C_IS
Conc 5.0000
RT 4.241 Area 2616494
ISTD 314.90>270.10 1.15e6



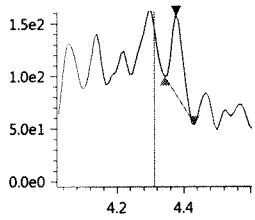
PFHxA-13C
Conc 3.5571
RT 4.241 Area 2616494
Q 314.90>270.10 1.15e6



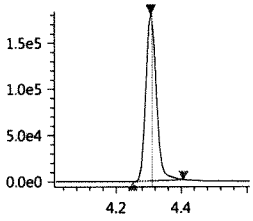
PFHxA
Conc 18.5161
RT 4.240 Area 9903099
Q 313.00>269.00 3.60e6



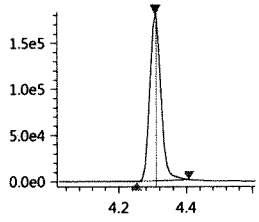
HPFO_DA
Conc 0.0021
RT 4.377 Area 173
Q 329.00>169.00 1.62e2



HFPO_DA-13C_IS
Conc 5.0000
RT 4.308 Area 408955
ISTD 332.00>286.80 1.84e5

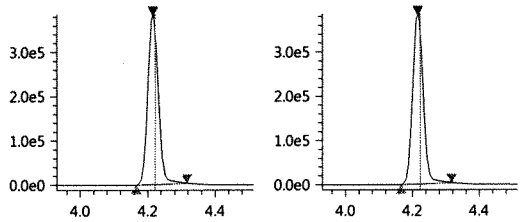


HFPO_DA-13C
Conc 2.5012
RT 4.308 Area 408955
Q 332.00>286.80 1.84e5

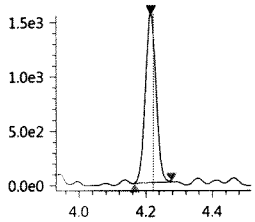


4_2-FTS-13C_IS
Conc 5.0000
RT 4.216 Area 850484
ISTD 328.80>309.05 3.86e5

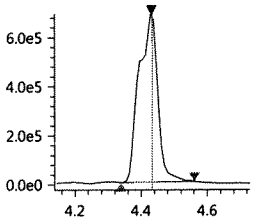
4_2-FTS-13C
Conc 4.9824
RT 4.216 Area 850484
Q 328.80>309.05 3.86e5



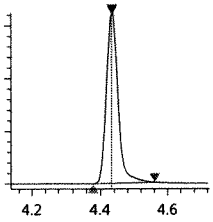
4_2-FTS_1
Conc 0.0161
RT 4.215 Area 3542
Q 327.00>307.05 1.57e3



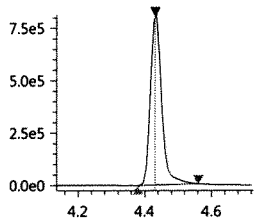
PFHpA
Conc 6.5763
RT 4.431 Area 2698956
Q 362.90>319.00 6.98e5



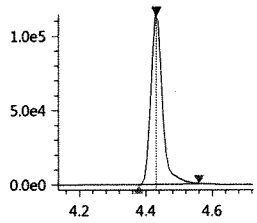
PFHpA-13C_IS
Conc 5.0000
RT 4.433 Area 1936322
ISTD 366.90>322.10 8.12e5



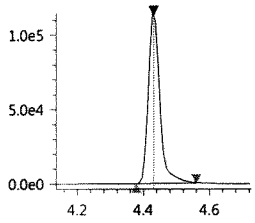
PFHpA-13C
Conc 2.5957
RT 4.433 Area 1936322
Q 366.90>322.10 8.12e5



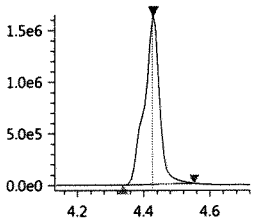
PFHxS-18O_IS
Conc 5.0000
RT 4.431 Area 280454
ISTD 402.70>84.05 1.14e5



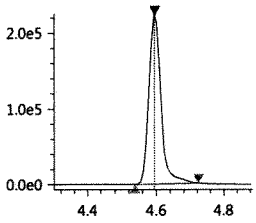
PFHxS-18O
Conc 2.8186
RT 4.431 Area 280454
Q 402.70>84.05 1.14e5



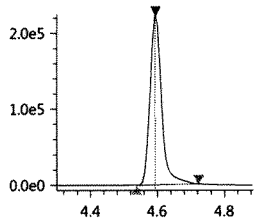
PFHxS_1
Conc 62.1744
RT 4.429 Area 5212700
Q 399.00>80.00 1.65e6



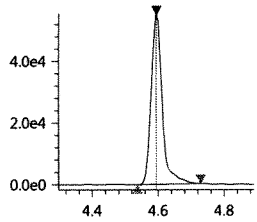
6_2-FTS-13C
Conc 5.1457
RT 4.595 Area 547474
Q 428.90>409.00 2.26e5



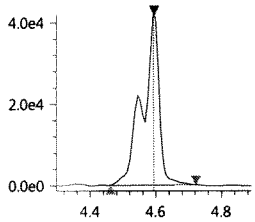
6_2-FTS-13C_IS
Conc 5.0000
RT 4.595 Area 547474
ISTD 428.90>409.00 2.26e5



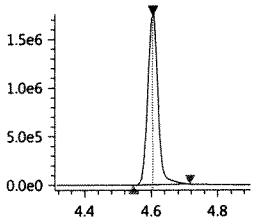
6_2-FTS_1
Conc 0.9462
RT 4.594 Area 130890
Q 427.00>407.00 5.56e4



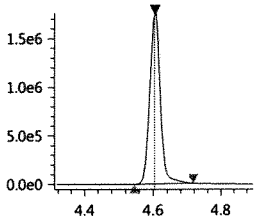
PFHpS_1
Conc 2.7656
RT 4.595 Area 150160
Q 449.00>80.15 4.21e4



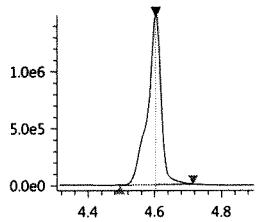
PFOA-13C_IS
Conc 5.0000
RT 4.605 Area 3757669
ISTD 416.80>372.05 1.76e6



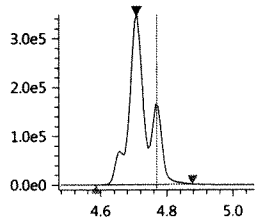
PFOA-13C
Conc 4.3942
RT 4.605 Area 3757669
Q 416.80>372.05 1.76e6



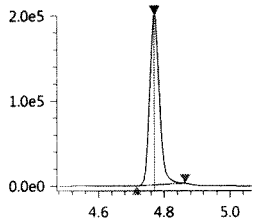
PFOA
Conc 4.2402
RT 4.604 Area 4263093
Q 413.00>369.00 1.49e6



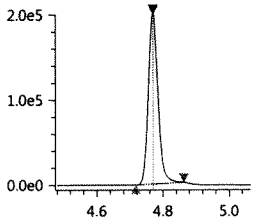
PFOS_1
Conc 21.0067
RT 4.708 Area 1384739
Q 499.00>80.00 3.49e5



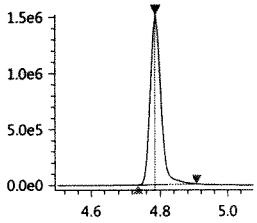
PFOS-13C_IS
Conc 5.0000
RT 4.770 Area 413939
ISTD 502.80>80.05 2.00e5



PFOS-13C
Conc 3.8045
RT 4.770 Area 413939
Q 502.80>80.05 2.00e5

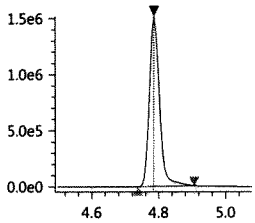


PFNA-13C_IS
Conc 5.0000
RT 4.786 Area 3226365
ISTD 467.80>423.00 1.52e6

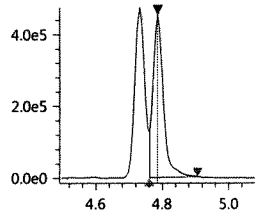


JT 7/28/17

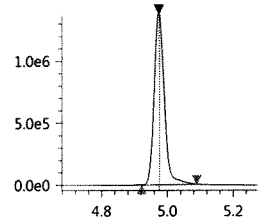
PFNA-13C
Conc 4.1165
RT 4.786 Area 3226365
Q 467.80>423.00 1.52e6



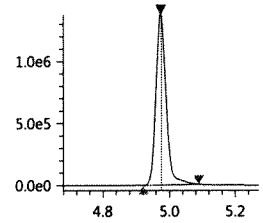
PFNA
Conc 1.4767
RT 4.786 Area 998241
Q 463.00>418.90 4.76e5



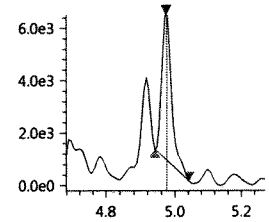
PFDA-13C_IS
Conc 5.0000
RT 4.974 Area 2967470
ISTD 514.80>469.95 1.38e6



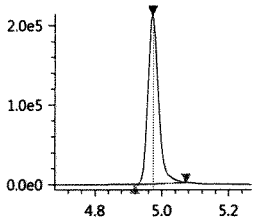
PFDA-13C
Conc 4.4118
RT 4.974 Area 2967470
Q 514.80>469.95 1.38e6



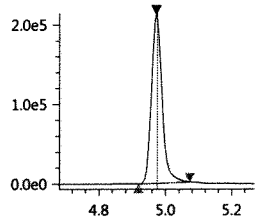
PFDA
Conc 0.0140
RT 4.974 Area 11248
Q 513.00>468.80 6.51e3



8_2-FTS-13C_IS
Conc 5.0000
RT 4.972 Area 475215
ISTD 528.80>509.00 2.15e5

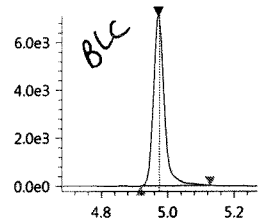


8_2-FTS-13C
Conc 4.8425
RT 4.972 Area 475215
Q 528.80>509.00 2.15e5

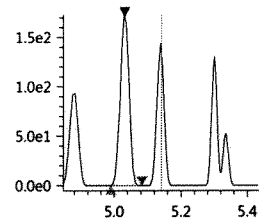


8_2-FTS_1
Conc 0.1655
RT 4.972 Area 16296
Q 526.90>506.90 7.13e3

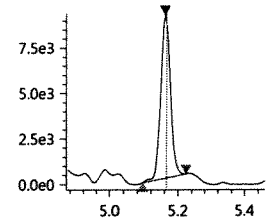
BLC



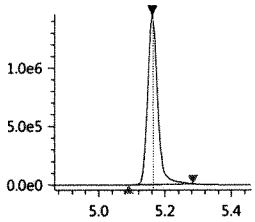
PFDS_1
Conc 0.0042
RT 5.031 Area 322
Q 599.00>79.90 1.73e2



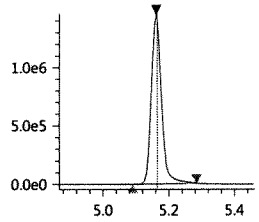
PFUnA
Conc 0.0256
RT 5.162 Area 18068
Q 563.00>518.90 9.39e3



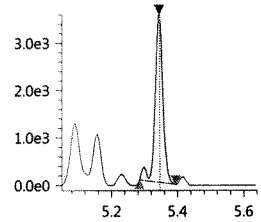
PFUnA-13C_IS
Conc 5.0000
RT 5.162 Area 3101902
ISTD 564.80>519.95 1.46e6



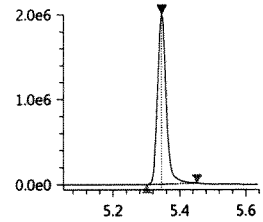
PFUnA-13C
Conc 4.1040
RT 5.162 Area 3101902
Q 564.80>519.95 1.46e6



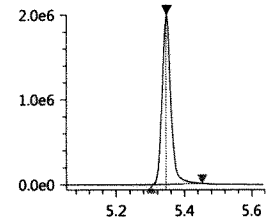
PFDoA
Conc 0.0121
RT 5.345 Area 5925
Q 613.05>569.00 3.60e3



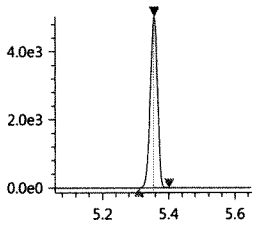
PFDoA-13C
Conc 3.8534
RT 5.347 Area 3634468
Q 614.80>569.95 2.01e6



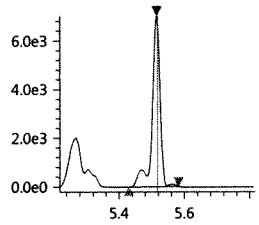
PFDoA-13C_IS
Conc 5.0000
RT 5.347 Area 3634468
ISTD 614.80>569.95 2.01e6



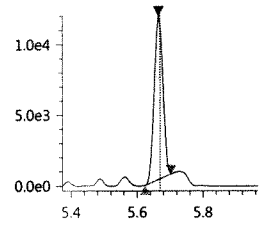
10_2-FtS_1
Conc 0.1418
RT 5.356 Area 7718
Q 627.00>606.95 5.03e3



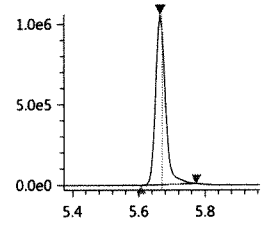
PFTrDA
Conc 0.0250
RT 5.515 Area 11993
Q 663.00>618.90 7.02e3



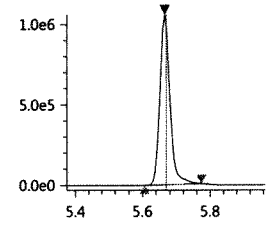
PFTeDA
Conc 0.0229
RT 5.665 Area 21133
Q 713.40>669.00 1.21e4



PFTeDA-13C
Conc 2.9347
RT 5.664 Area 2190599
Q 714.70>669.90 1.06e6



PFTeDA-13C_IS
Conc 5.0000
RT 5.664 Area 2190599
ISTD 714.70>669.90 1.06e6



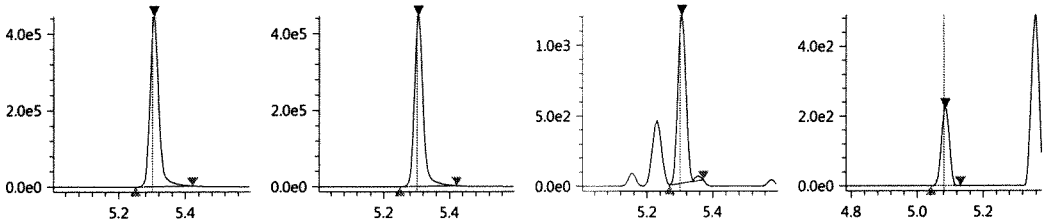
JUL 28 2017

FOSA-13C_IS
Conc 5.0000
RT 5.306 Area 820974
ISTD 506.00>78.05 4.46e5

FOSA-13C
Conc 2.8921
RT 5.306 Area 820974
Q 506.00>78.05 4.46e5

FOSA
Conc 0.0088
RT 5.306 Area 2110
Q 498.00>78.00 1.21e3

N-MeFOSAA
Conc 0.0033
RT 5.086 Area 376
Q 570.20>419.00 4.90e2



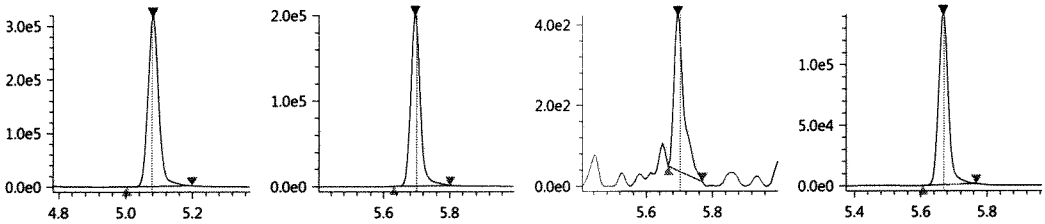
N-MeFOSAA-d3
Conc 3.6000
RT 5.081 Area 716507
Q 572.80>419.05 3.20e5

N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.081 Area 716507
ISTD 572.80>419.05 3.20e5

N-MeFOSA_IS
Conc 5.0000
RT 5.695 Area 408081
ISTD 514.90>168.90 2.00e5

N-MeFOSA
Conc 0.0086
RT 5.695 Area 822
Q 512.00>169.10 4.25e2

N-MeFOSE-d7
Conc 3.5945
RT 5.668 Area 291039
Q 622.70>59.10 1.42e5



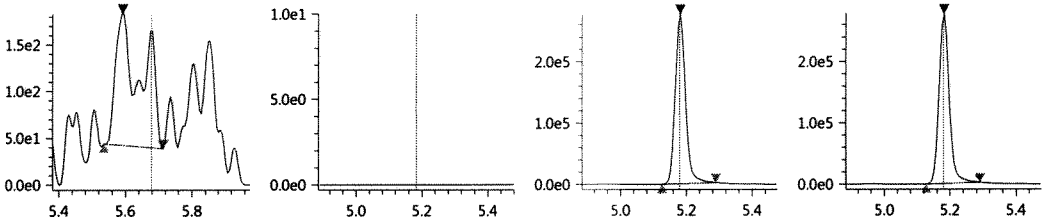
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.668 Area 291039
ISTD 622.70>59.10 1.42e5

N-MeFOSE
Conc 0.0062
RT 5.592 Area 756
Q 616.00>59.00 1.83e2

N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 0.00e0

N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.181 Area 602297
ISTD 588.80>419.00 2.79e5

N-EtFOSAA-d5
Conc 3.4605
RT 5.181 Area 602297
Q 588.80>419.00 2.79e5



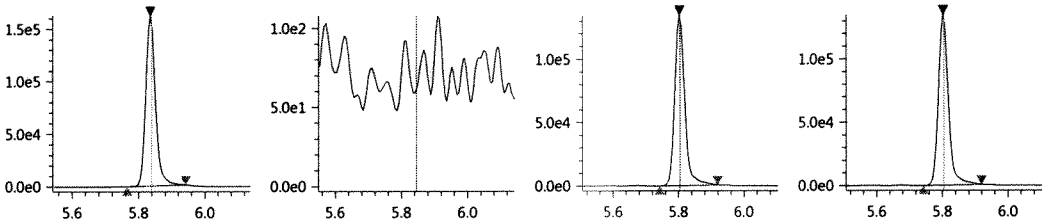
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.835 Area 339383
ISTD 530.90>169.15 1.63e5

N-EtFOSA-d9
Conc 3.0276
RT 5.835 Area 339383
Q 530.90>169.15 1.63e5

N-EtFOSA
Conc ----
RT ---- Area ----
Q 526.90>169.10 1.08e2

N-EtFOSE-d9_IS
Conc 5.0000
RT 5.803 Area 288129
ISTD 638.70>59.10 1.35e5

N-EtFOSE-d9
Conc 3.0213
RT 5.803 Area 288129
Q 638.70>59.10 1.35e5



N-EtFOSE
Conc 0.0032
RT 5.782 Area 372
Q 630.00>58.90 1.74e2

Insight Report

Befores

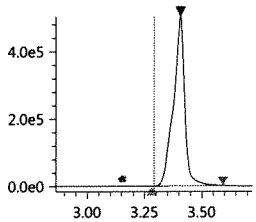
Printed at 7/27/2017 3:05:16 PM

JT 7/28/17

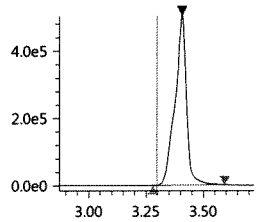
072717_124

Sample ID: K1707681-007
Date acquired: 7/27/2017 1:48:19 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072717_b1\072717_124.lcd
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 2

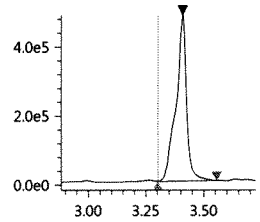
PFBA-13C_IS
Conc 5.0000
RT 3.407 Area 1755841
ISTD 216.90>172.15 5.04e5



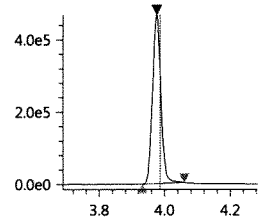
PFBA-13C
Conc 3.1763
RT 3.407 Area 1755841
Q 216.90>172.15 5.04e5



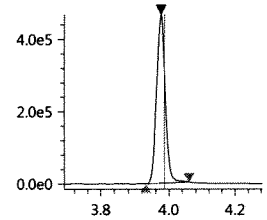
PFBA
Conc 3.4432
RT 3.409 Area 1528213
Q 213.00>169.10 4.91e5



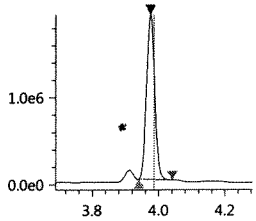
PFPeA-13C_IS
Conc 5.0000
RT 3.976 Area 839663
ISTD 267.90>223.00 4.68e5



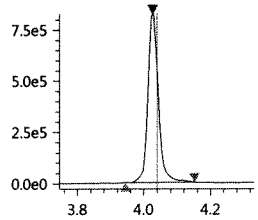
PFPeA-13C
Conc 3.1270
RT 3.976 Area 839663
Q 267.90>223.00 4.68e5



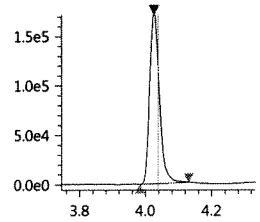
PFPeA
Conc 6.5119
RT 3.976 Area 3320181
Q 263.05>219.10 1.96e6



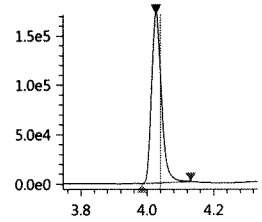
PFBS_1
Conc 26.4443
RT 4.026 Area 1791937
Q 299.00>80.00 8.30e5



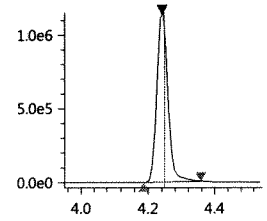
PFBS-13C
Conc 2.1071
RT 4.026 Area 356423
Q 301.80>80.00 1.72e5



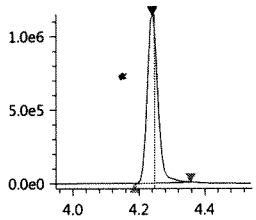
PFBS-13C_IS
Conc 5.0000
RT 4.026 Area 356423
ISTD 301.80>80.00 1.72e5



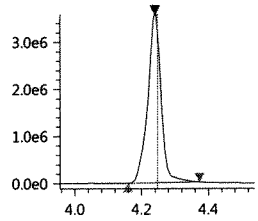
PFHxA-13C_IS
Conc 5.0000
RT 4.241 Area 2616494
ISTD 314.90>270.10 1.15e6



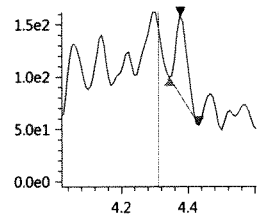
PFHxA-13C
Conc 3.5571
RT 4.241 Area 2616494
Q 314.90>270.10 1.15e6



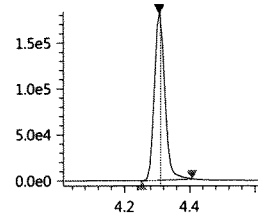
PFHxA
Conc 18.5161
RT 4.240 Area 9903099
Q 313.00>269.00 3.60e6



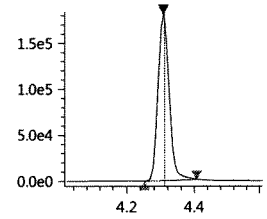
HPFO_DA
Conc 0.0021
RT 4.377 Area 173
Q 329.00>169.00 1.62e2



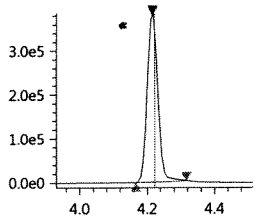
HFPO_DA-13C_IS
Conc 5.0000
RT 4.308 Area 408955
ISTD 332.00>286.80 1.84e5



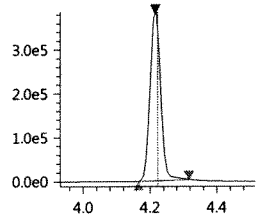
HFPO_DA-13C
Conc 2.5012
RT 4.308 Area 408955
Q 332.00>286.80 1.84e5



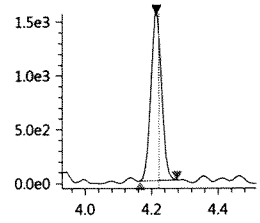
4_2-FTS-13C_IS
Conc 5.0000
RT 4.216 Area 850484
ISTD 328.80>309.05 3.86e5



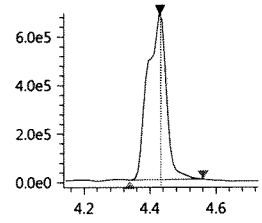
4_2-FTS-13C
Conc 4.9824
RT 4.216 Area 850484
Q 328.80>309.05 3.86e5



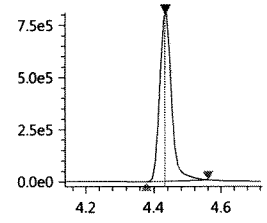
4_2-FTS_1
Conc 0.0161
RT 4.215 Area 3542
Q 327.00>307.05 1.57e3



PFHpA
Conc 6.5763
RT 4.431 Area 2698956
Q 362.90>319.00 6.98e5

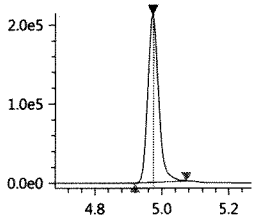


PFHpA-13C_IS
Conc 5.0000
RT 4.433 Area 1936322
ISTD 366.90>322.10 8.12e5

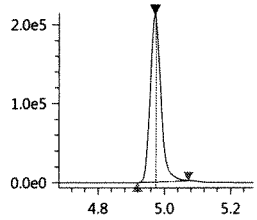


JUL 28 2017

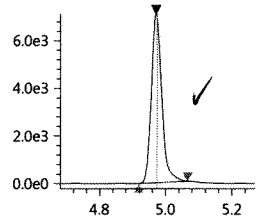
8_2-FTS-13C_IS
Conc 5.0000
RT 4.972 Area 475215
ISTD 528.80>509.00 2.15e5



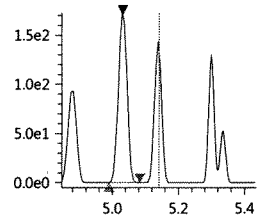
8_2-FTS-13C
Conc 4.8425
RT 4.972 Area 475215
Q 528.80>509.00 2.15e5



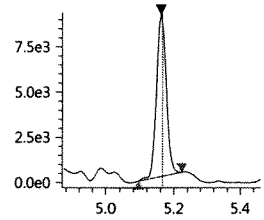
8_2-FTS_1
Conc 0.1601
RT 4.972 Area 15757
Q 526.90>506.90 7.13e3



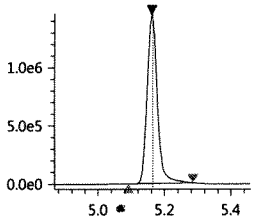
PFDS_1
Conc 0.0042
RT 5.031 Area 322
Q 599.00>79.90 1.73e2



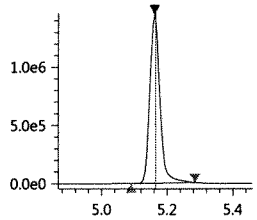
PFUnA
Conc 0.0256
RT 5.162 Area 18068
Q 563.00>518.90 9.39e3



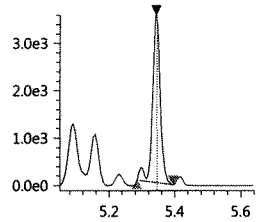
PFUnA-13C_IS
Conc 5.0000
RT 5.162 Area 3101902
ISTD 564.80>519.95 1.46e6



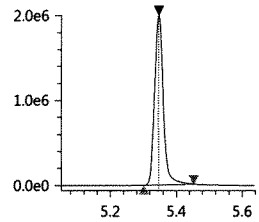
PFUnA-13C
Conc 4.1040
RT 5.162 Area 3101902
Q 564.80>519.95 1.46e6



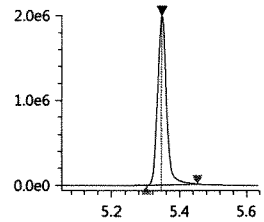
PFDoA
Conc 0.0121
RT 5.345 Area 5925
Q 613.05>569.00 3.60e3



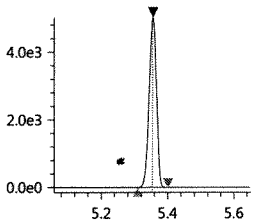
PFDoA-13C
Conc 3.8534
RT 5.347 Area 3634468
Q 614.80>569.95 2.01e6



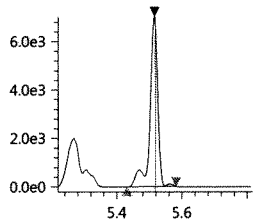
PFDoA-13C_IS
Conc 5.0000
RT 5.347 Area 3634468
ISTD 614.80>569.95 2.01e6



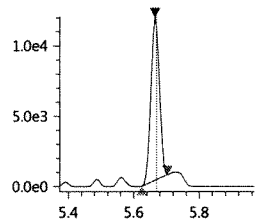
10_2-FtS_1
Conc 0.1418
RT 5.356 Area 7718
Q 627.00>606.95 5.03e3



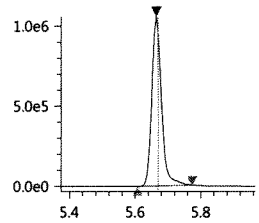
PFTrDA
Conc 0.0250
RT 5.515 Area 11993
Q 663.00>618.90 7.02e3



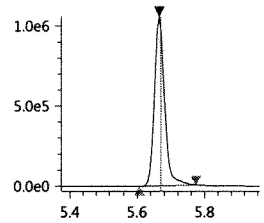
PFTeDA
Conc 0.0229
RT 5.665 Area 21133
Q 713.40>669.00 1.21e4



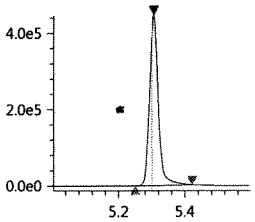
PFTeDA-13C
Conc 2.9347
RT 5.664 Area 2190599
Q 714.70>669.90 1.06e6



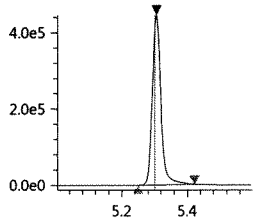
PFTeDA-13C_IS
Conc 5.0000
RT 5.664 Area 2190599
ISTD 714.70>669.90 1.06e6



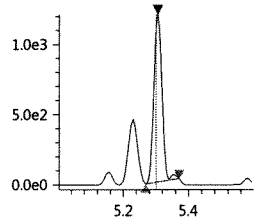
FOSA-13C_IS
Conc 5.0000
RT 5.306 Area 820974
ISTD 506.00>78.05 4.46e5



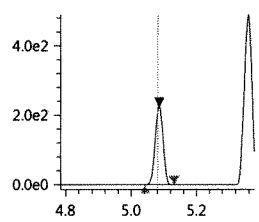
FOSA-13C
Conc 2.8921
RT 5.306 Area 820974
Q 506.00>78.05 4.46e5



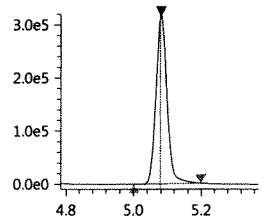
FOSA
Conc 0.0088
RT 5.306 Area 2110
Q 498.00>78.00 1.21e3



N-MeFOSAA
Conc 0.0033
RT 5.086 Area 376
Q 570.20>419.00 4.90e2



N-MeFOSAA-d3
Conc 3.6000
RT 5.081 Area 716507
Q 572.80>419.05 3.20e5



Validation Report

Data File: J:\LCMS06\Data\072617_b3\072617_152
Lab ID: K1707681-008
RunType: N/A
Matrix: Water

Date Acquired: 7/26/17 18:07
Batch ID: 555060
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Lab Control Sample Recovery		X
Duplicate Lab Control Sample Recovery		X
Method Blank	X	
Method Blank Surrogates		X
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-6:2 FTS	178	70	130	Natives ok
	13C2-8:2 FTS	170	70	130	↓
Lab Control Sample Recovery	Perfluorobutanoic acid (PFBA)	69	76	136	RR LCS
	Perfluorodecanoic acid (PFDA)	66	68	135	↓
	Perfluoroundecanoic acid (PFUnDA)	64	66	131	↓
Duplicate Lab Control Sample Recovery	Perfluorobutanoic acid (PFBA)	57	76	136	RR DLCS
	Perfluorohexanoic acid (PFHxA)	63	68	141	↓
	Perfluorooctanoic acid (PFOA)	59	72	130	↓
	Perfluorononanoic acid (PFNA)	63	77	127	↓
	Perfluorodecanoic acid (PFDA)	56	68	135	↓
	Perfluoroundecanoic acid (PFUnDA)	53	66	131	↓
	Perfluorododecanoic acid (PFDoDA)	64	70	133	↓
Method Blank Surrogates	13C2-8:2 FTS	162	50	150	Hi bias, ND
Surrogates	13C3-PFBS	39	50	150	Narr interim
	13C8-FOSA	45	50	150	↓
Above Highest ICAL Level	Perfluorohexane sulfonic acid (PFHxS)	5447786		1986654	RR dilution

Primary Review: 7-27-17 JUL 27 2017

Secondary Review:

Printed: 7/27/17 11:45
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072617_b3\072617_152	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 18:07	**Vial:**	23
Run Type:	N/A	**Dilution:**	1
Lab ID:	K1707681-008	**Raw Units:**	ng/mL

Bottle ID:	K1707681-008.01	**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	555060	**Prep Lot:**	293673	**Report Group:**	K1707681
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	7/25/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.691	377885	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.408	1814137	4.2871	86	19 - 126	Y
13C2-PFHxA	4.244	1790828	3.0147	60	10 - 151	Y
18O2-PFHxS	4.433	270028	3.0704	61	20 - 128	Y
13C2-6:2 FTS	4.598	453090	7.8777	158	10 - 187	Y
13C4-PFOA	4.608	3115269	4.0498	81	13 - 142	Y
13C5-PFNA	4.788	2488535	3.6045	72	15 - 143	Y
13C4-PFOS	4.772	351505	3.6614	73	11 - 131	Y
13C2-PFDA	4.976	2302519	4.0391	81	25 - 129	Y
13C2-PFUnDA	5.164	2338952	3.4470	69	16 - 129	Y
13C2-PFDoDA	5.346	2888269	3.3605	67	17 - 114	Y
D7-MeFOSE	5.665	220795	2.2275	45	32 - 113	Y
D9-EtFOSE	5.799	260689	2.1807	44	20 - 113	Y
D5-EtFOSA	5.831	222210	2.1758	44	19 - 103	Y
13C2-8:2 FTS	4.974	356229	6.8744	137	50 - 150	Y
13C2-PFTeDA	5.661	1967977	2.8314	57	50 - 150	Y
13C4-PFHpA	4.436	1501709	2.5067	50	50 - 150	Y
13C5-PFPeA	3.979	728089	3.4796	70	50 - 150	Y
13C3-PFBS	4.030	291498	1.9744	39 *	50 - 150	Y
13C8-FOSA	5.306	584720	2.2419	45 *	50 - 150	Y

Poor interim

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.410	1811526	3.8796	110		Y
Perfluoropentanoic acid (PFPeA)	3.979	3523327	7.4380	210		Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 11:45

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072617_b3\072617_152	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 18:07	**Vial:**	23
Run Type:	N/A	**Dilution:**	1
Lab ID:	K1707681-008	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.029	1768039	35.7966	1000		Y
Perfluorohexanoic acid (PFHxA)	4.243	8423352	22.2133	630		Y
Perfluoroheptanoic acid (PFHpA)	4.434	2581997	7.8259	220		Y
Perfluorohexane sulfonic acid (PFHxS)	4.432	5447786	72.7048	2000	E	Y
Perfluorooctanoic acid (PFOA)	4.607	4104123	5.2117	150		Y
Perfluoroheptane sulfonic acid (PFHpS)	4.598	188367	3.2017	90		Y
Perfluorononanoic acid (PFNA)	4.734	2078028	3.7897	110		Y
Perfluorooctane sulfonic acid (PFOS)	4.711	1242463	21.7929	610		Y
Perfluorodecanoic acid (PFDA)	4.975	27316	0.0433	1.2	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.164	17622	0.0327	0.92	U	Y
Perfluorooctane sulfonamide (FOSA)	5.306	3484	0.0194	0.55	U	Y
Perfluorododecanoic acid (PFDoDA)	5.345	8089	0.0214	0.60	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.511	10939	0.0279	0.79	U	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.693	762	0.0142	0.40	U	Y
N-Methyl perfluorooctane sulfonamidoethanol	0	0	0	0	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.660	12321	-0.0312	0	U	Y
N-Ethyl perfluorooctane sulfonamidoethanol	0	0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0	0	0	0	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.974	13732	0.1999	5.6		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.597	134989	1.1301	32		Y
Perfluorodecane sulfonic acid (PFDS)	0	0	0	0	U	Y

Prep Amount:	71.0000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 11:45

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072617_152

Sample ID: K1707681-008
Date acquired: 7/26/2017 6:07:38 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b3\072617_152.lcd
Vial: 41 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.408	1814137	1814137	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.408	1814137	377885	1	4.2871	ng/mL	----	----	Auto
PFBA	3.410	1811526	1814137	2	3.8796	ng/mL	----	----	Auto
PFPeA-13C_IS	3.979	728089	728089	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.979	728089	377885	1	3.4796	ng/mL	----	----	Auto
PFPeA	3.979	3523327	728089	4	7.4380	ng/mL	----	----	M
PFBS_1	4.029	1768039	291498	16	35.7966	ng/mL	----	----	Auto
PFBS-13C	4.030	291498	377885	1	1.9744	ng/mL	----	----	Auto
PFBS-13C_IS	4.030	291498	291498	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.244	1790828	1790828	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.244	1790828	377885	1	3.0147	ng/mL	----	----	Auto
PFHxA	4.243	8423352	1790828	6	22.2133	ng/mL	----	----	Auto
HPFO_DA	----	----	----	3	----	ng/mL	----	----	NI
HFPO_DA-13C_IS	4.312	345438	345438	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.312	345438	377885	1	2.3459	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.219	580691	580691	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.219	580691	377885	1	6.0509	ng/mL	----	----	Auto
4_2-FTS_1	4.220	2211	580691	5	0.0149	ng/mL	----	----	M
PFHpA	4.434	2581997	1501709	8	7.8259	ng/mL	----	----	Auto
PFHpA-13C_IS	4.436	1501709	1501709	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.436	1501709	377885	1	2.5067	ng/mL	----	----	Auto
PFHxS-18O_IS	4.433	270028	270028	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.433	270028	377885	1	3.0704	ng/mL	----	----	Auto
PFHxS_1	4.432	5447786	270028	7	72.7048	ng/mL	----	----	Auto
6_2-FTS-13C	4.598	453090	377885	1	7.8777	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.598	453090	453090	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.597	134989	453090	10	1.1301	ng/mL	----	----	Auto
PFHpS_1	4.598	188367	270028	7	3.2017	ng/mL	----	----	Auto
PFOA-13C_IS	4.608	3115269	3115269	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.608	3115269	377885	1	4.0498	ng/mL	----	----	Auto
PFOA	4.607	4104123	3115269	9	5.2117	ng/mL	----	----	Auto
PFOS_1	4.711	1242463	351505	13	21.7929	ng/mL	----	----	Auto
PFOS-13C_IS	4.772	351505	351505	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.772	351505	377885	1	3.6614	ng/mL	----	----	Auto
PFNA-13C_IS	4.788	2488535	2488535	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.788	2488535	377885	1	3.6045	ng/mL	----	----	Auto
PFNA	4.734	2078028	2488535	11	3.7897	ng/mL	----	----	M
PFDA-13C_IS	4.976	2302519	2302519	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.976	2302519	377885	1	4.0391	ng/mL	----	----	Auto
PFDA	4.975	27316	2302519	12	0.0433	ng/mL	----	----	M
8_2-FTS-13C_IS	4.974	356229	356229	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.974	356229	377885	1	6.8744	ng/mL	----	----	Auto
8_2-FTS_1	4.974	13732	356229	15	0.1999	ng/mL	----	----	Auto
PFDS_1	----	----	----	13	----	ng/mL	----	----	NI
PFUnA	5.164	17622	2338952	14	0.0327	ng/mL	----	----	M
PFUnA-13C_IS	5.164	2338952	2338952	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.164	2338952	377885	1	3.4470	ng/mL	----	----	Auto
PFDoA	5.345	8089	2888269	17	0.0214	ng/mL	----	----	Auto
PFDoA-13C	5.346	2888269	377885	1	3.3605	ng/mL	----	----	Auto
PFDoA-13C_IS	5.346	2888269	2888269	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	5.355	10413	356229	15	0.1546	ng/mL	----	----	Auto
PFTrDA	5.511	10939	1967977	22	0.0279	ng/mL	----	----	Auto
PFTeDA	5.660	12321	1967977	22	-0.0312	ng/mL	----	----	M
PFTeDA-13C	5.661	1967977	377885	1	2.8314	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.661	1967977	1967977	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.306	584720	584720	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.306	584720	377885	1	2.2419	ng/mL	----	----	Auto
FOSA	5.306	3484	584720	18	0.0194	ng/mL	----	----	M
N-MeFOSAA	----	----	----	19	----	ng/mL	----	----	ND(W/B)
N-MeFOSAA-d3	5.083	433787	377885	1	2.5682	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.083	433787	433787	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.691	377885	377885	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.693	762	220795	20	0.0142	ng/mL	----	----	M
N-MeFOSE-d7	5.665	220795	377885	1	2.2275	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.665	220795	220795	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	----	----	----	20	----	ng/mL	----	----	NI
N-EtFOSAA	----	----	----	21	----	ng/mL	----	----	ND(W/B)

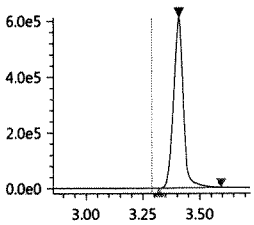
Insight Report

Printed at 7/27/2017 11:05:48 AM

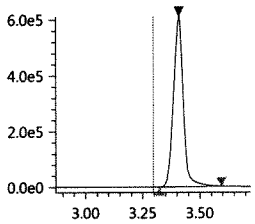
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.182	397466	397466	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.182	397466	377885	1	2.5940	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.831	222210	222210	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.831	222210	377885	1	2.1758	ng/mL	----	----	Auto
N-EtFOSA	----	----	----	23	----	ng/mL	----	----	NI
N-EtFOSE-d9_IS	5.799	260689	260689	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.799	260689	377885	1	2.1807	ng/mL	----	----	Auto
N-EtFOSE	----	----	----	24	----	ng/mL	----	----	NI

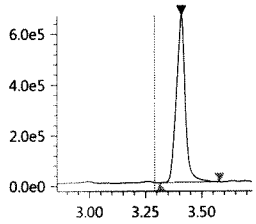
PFBA-13C_IS
Conc 5.0000
RT 3.408 Area 1814137
ISTD 216.90>172.15 6.13e5



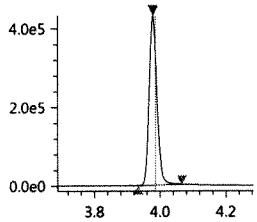
PFBA-13C
Conc 4.2871
RT 3.408 Area 1814137
Q 216.90>172.15 6.13e5



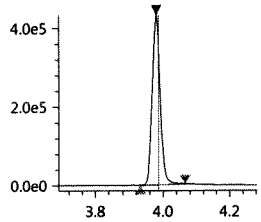
PFBA
Conc 3.8796
RT 3.410 Area 1811526
Q 213.00>169.10 6.73e5



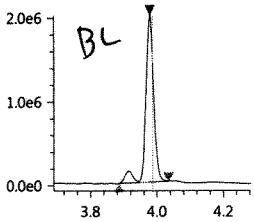
PFPeA-13C_IS
Conc 5.0000
RT 3.979 Area 728089
ISTD 267.90>223.00 4.34e5



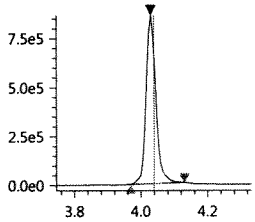
PFPeA-13C
Conc 3.4796
RT 3.979 Area 728089
Q 267.90>223.00 4.34e5



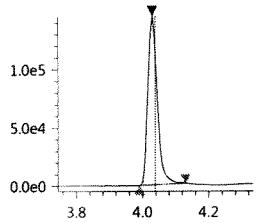
PFPeA
Conc 7.4380
RT 3.979 Area 3523327
Q 263.05>219.10 2.03e6



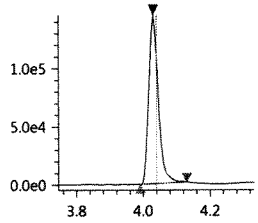
PFBS_1
Conc 35.7966
RT 4.029 Area 1768039
Q 299.00>80.00 8.68e5



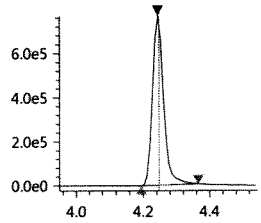
PFBS-13C
Conc 1.9744
RT 4.030 Area 291498
Q 301.80>80.00 1.46e5



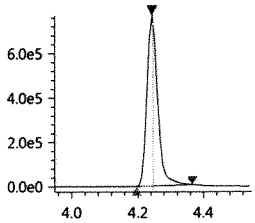
PFBS-13C_IS
Conc 5.0000
RT 4.030 Area 291498
ISTD 301.80>80.00 1.46e5



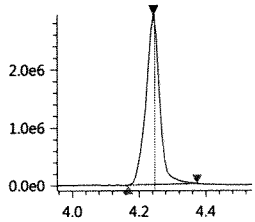
PFHxA-13C_IS
Conc 5.0000
RT 4.244 Area 1790828
ISTD 314.90>270.10 7.70e5



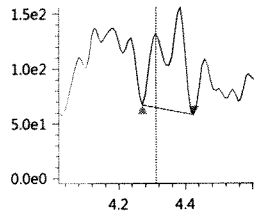
PFHxA-13C
Conc 3.0147
RT 4.244 Area 1790828
Q 314.90>270.10 7.70e5



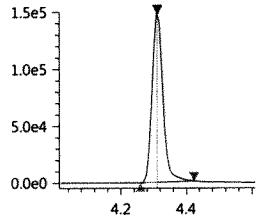
PFHxA
Conc 22.2133
RT 4.243 Area 8423352
Q 313.00>269.00 2.95e6



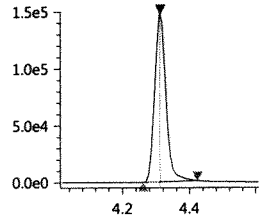
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 1.56e2



HFPO_DA-13C_IS
Conc 5.0000
RT 4.312 Area 345438
ISTD 332.00>286.80 1.50e5

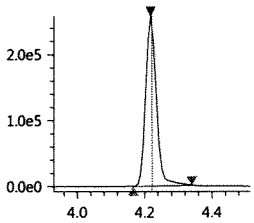


HFPO_DA-13C
Conc 2.3459
RT 4.312 Area 345438
Q 332.00>286.80 1.50e5

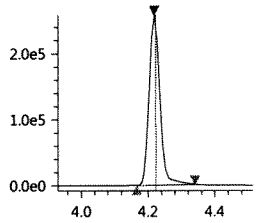


JUL 27 2017

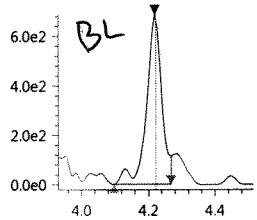
4_2-FTS-13C_IS
Conc 5.0000
RT 4.219 Area 580691
ISTD 328.80>309.05 2.59e5



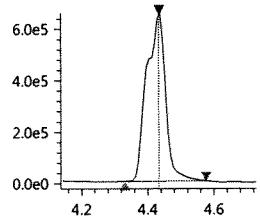
4_2-FTS-13C
Conc 6.0509
RT 4.219 Area 580691
Q 328.80>309.05 2.59e5



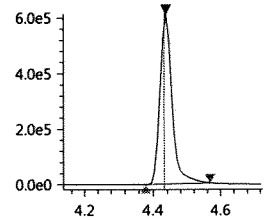
4_2-FTS_1
Conc 0.0149
RT 4.220 Area 2211
Q 327.00>307.05 6.90e2



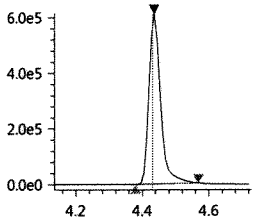
PFHpA
Conc 7.8259
RT 4.434 Area 2581997
Q 362.90>319.00 6.63e5



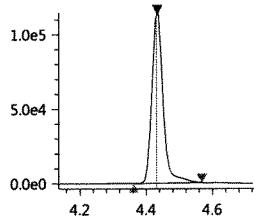
PFHpA-13C_IS
Conc 5.0000
RT 4.436 Area 1501709
ISTD 366.90>322.10 6.14e5



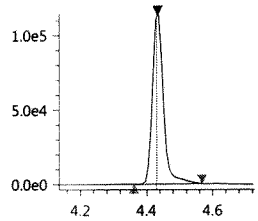
PFHpA-13C
Conc 2.5067
RT 4.436 Area 1501709
Q 366.90>322.10 6.14e5



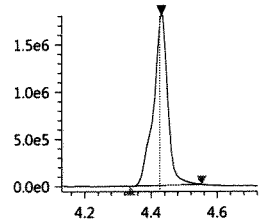
PFHxS-18O_IS
Conc 5.0000
RT 4.433 Area 270028
ISTD 402.70>84.05 1.15e5



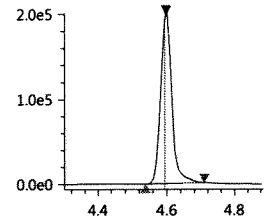
PFHxS-18O
Conc 3.0704
RT 4.433 Area 270028
Q 402.70>84.05 1.15e5



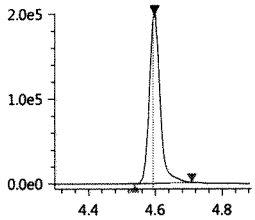
PFHxS_1
Conc 72.7048
RT 4.432 Area 5447786
Q 399.00>80.00 1.81e6



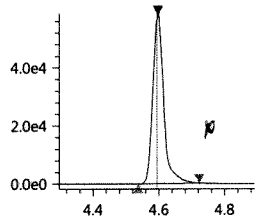
6_2-FTS-13C
Conc 7.8777
RT 4.598 Area 453090
Q 428.90>409.00 2.01e5



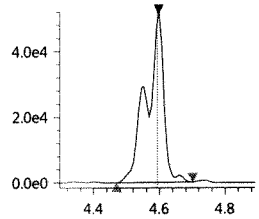
6_2-FTS-13C_IS
Conc 5.0000
RT 4.598 Area 453090
ISTD 428.90>409.00 2.01e5



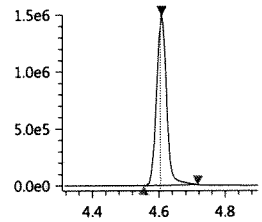
6_2-FTS_1
Conc 1.1301
RT 4.597 Area 134989
Q 427.00>407.00 5.88e4



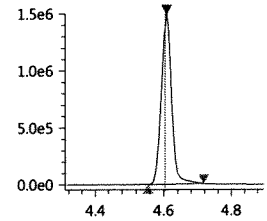
PFHpS_1
Conc 3.2017
RT 4.598 Area 188367
Q 449.00>80.15 5.20e4



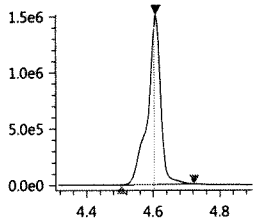
PFOA-13C_IS
Conc 5.0000
RT 4.608 Area 3115269
ISTD 416.80>372.05 1.50e6



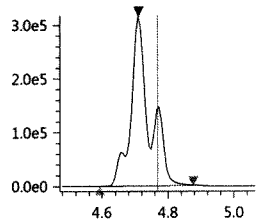
PFOA-13C
Conc 4.0498
RT 4.608 Area 3115269
Q 416.80>372.05 1.50e6



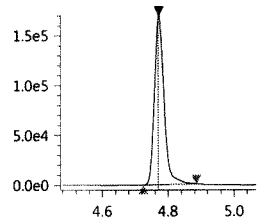
PFOA
Conc 5.2117
RT 4.607 Area 4104123
Q 413.00>369.00 1.52e6



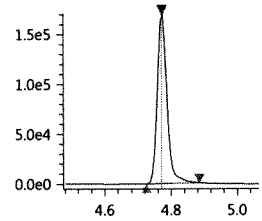
PFOS_1
Conc 21.7929
RT 4.711 Area 1242463
Q 499.00>80.00 3.18e5



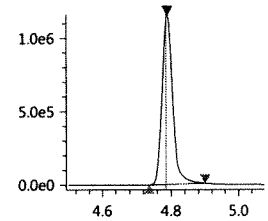
PFOS-13C_IS
Conc 5.0000
RT 4.772 Area 351505
ISTD 502.80>80.05 1.71e5



PFOS-13C
Conc 3.6614
RT 4.772 Area 351505
Q 502.80>80.05 1.71e5

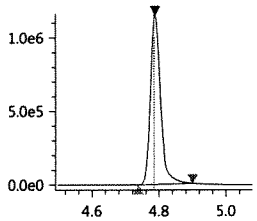


PFNA-13C_IS
Conc 5.0000
RT 4.788 Area 2488535
ISTD 467.80>423.00 1.16e6

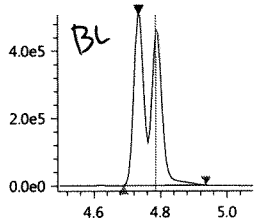


JUL 27 2017

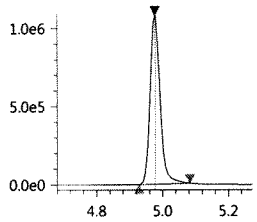
PFNA-13C
Conc 3.6045
RT 4.788 Area 2488535
Q 467.80>423.00 1.16e6



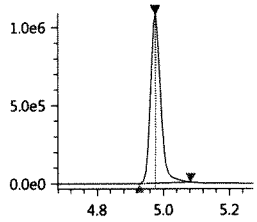
PFNA
Conc 3.7897
RT 4.734 Area 2078028
Q 463.00>418.90 5.07e5



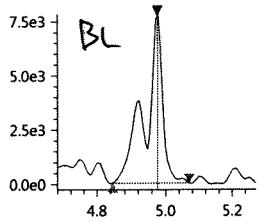
PFDA-13C_IS
Conc 5.0000
RT 4.976 Area 2302519
ISTD 514.80>469.95 1.09e6



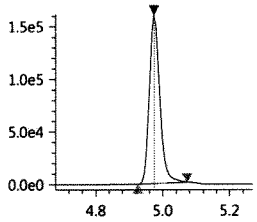
PFDA-13C
Conc 4.0391
RT 4.976 Area 2302519
Q 514.80>469.95 1.09e6



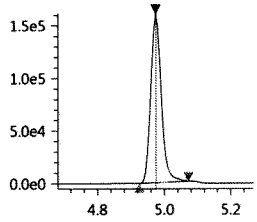
PFDA
Conc 0.0433
RT 4.975 Area 27316
Q 513.00>468.80 7.87e3



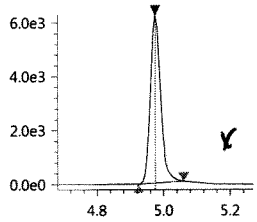
8_2-FTS-13C_IS
Conc 5.0000
RT 4.974 Area 356229
ISTD 528.80>509.00 1.62e5



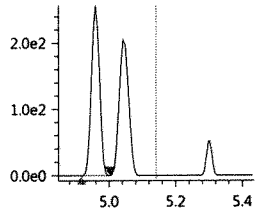
8_2-FTS-13C
Conc 6.8744
RT 4.974 Area 356229
Q 528.80>509.00 1.62e5



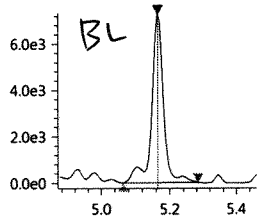
8_2-FTS_1
Conc 0.1999
RT 4.974 Area 13732
Q 526.90>506.90 6.32e3



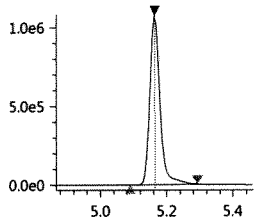
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 2.57e2



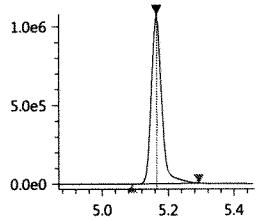
PFUnA
Conc 0.0327
RT 5.164 Area 17622
Q 563.00>518.90 7.34e3



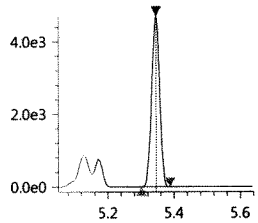
PFUnA-13C_IS
Conc 5.0000
RT 5.164 Area 2338952
ISTD 564.80>519.95 1.08e6



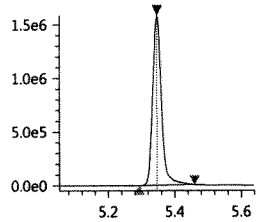
PFUnA-13C
Conc 3.4470
RT 5.164 Area 2338952
Q 564.80>519.95 1.08e6



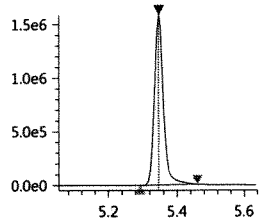
PFDoA
Conc 0.0214
RT 5.345 Area 8089
Q 613.05>569.00 4.70e3



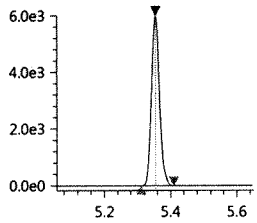
PFDoA-13C
Conc 3.3605
RT 5.346 Area 2888269
Q 614.80>569.95 1.59e6



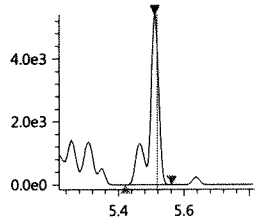
PFDoA-13C_IS
Conc 5.0000
RT 5.346 Area 2888269
ISTD 614.80>569.95 1.59e6



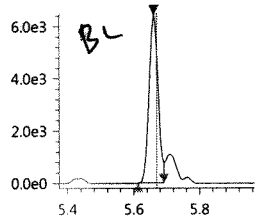
10_2-FtS_1
Conc 0.1546
RT 5.355 Area 10413
Q 627.00>606.95 6.01e3



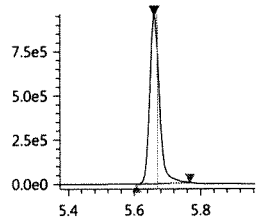
PFTrDA
Conc 0.0279
RT 5.511 Area 10939
Q 663.00>618.90 5.41e3



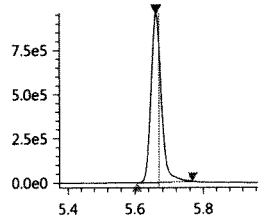
PFTeDA
Conc -0.0312
RT 5.660 Area 12321
Q 713.40>669.00 6.51e3



PFTeDA-13C
Conc 2.8314
RT 5.661 Area 1967977
Q 714.70>669.90 9.62e5



PFTeDA-13C_IS
Conc 5.0000
RT 5.661 Area 1967977
ISTD 714.70>669.90 9.62e5



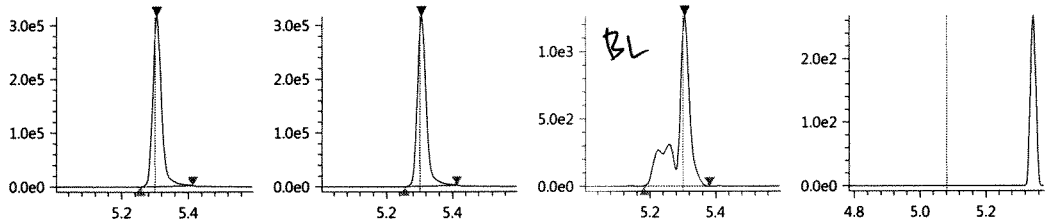
JUL 27 2017

FOSA-13C_IS
Conc 5.0000
RT 5.306 Area 584720
ISTD 506.00>78.05 3.17e5

FOSA-13C
Conc 2.2419
RT 5.306 Area 584720
Q 506.00>78.05 3.17e5

FOSA
Conc 0.0194
RT 5.306 Area 3484
Q 498.00>78.00 1.27e3

N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 2.68e2



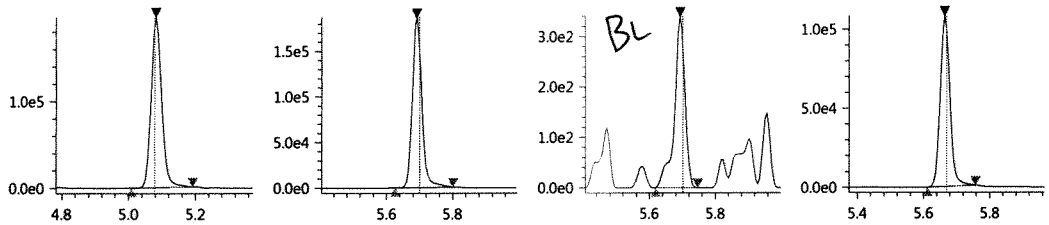
N-MeFOSAA-d3
Conc 2.5682
RT 5.083 Area 433787
Q 572.80>419.05 1.97e5

N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.083 Area 433787
ISTD 572.80>419.05 1.97e5

N-MeFOSA_IS
Conc 5.0000
RT 5.691 Area 377885
ISTD 514.90>168.90 1.88e5

N-MeFOSA
Conc 0.0142
RT 5.693 Area 762
Q 512.00>169.10 3.40e2

N-MeFOSE-d7
Conc 2.2275
RT 5.665 Area 220795
Q 622.70>59.10 1.08e5



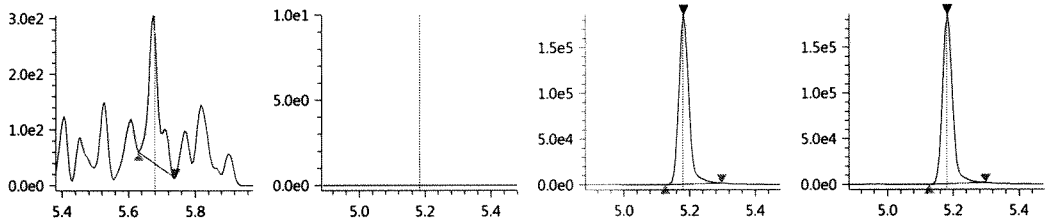
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.665 Area 220795
ISTD 622.70>59.10 1.08e5

N-MeFOSE
Conc ----
RT ---- Area ----
Q 616.00>59.00 3.06e2

N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 0.00e0

N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.182 Area 397466
ISTD 588.80>419.00 1.86e5

N-EtFOSAA-d5
Conc 2.5940
RT 5.182 Area 397466
Q 588.80>419.00 1.86e5



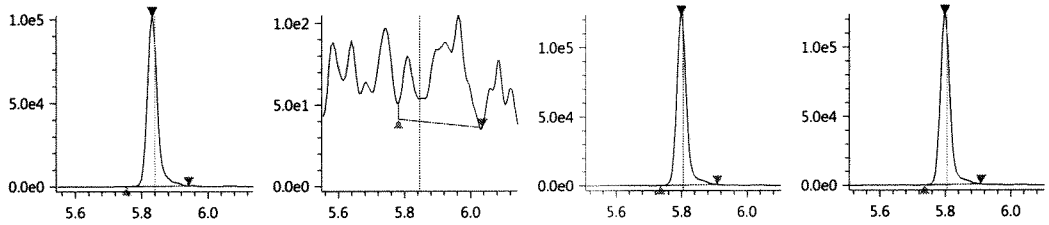
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.831 Area 222210
ISTD 530.90>169.15 1.02e5

N-EtFOSA-d9
Conc 2.1758
RT 5.831 Area 222210
Q 530.90>169.15 1.02e5

N-EtFOSA
Conc ----
RT ---- Area ----
Q 526.90>169.10 1.05e2

N-EtFOSE-d9_IS
Conc 5.0000
RT 5.799 Area 260689
ISTD 638.70>59.10 1.24e5

N-EtFOSE-d9
Conc 2.1807
RT 5.799 Area 260689
Q 638.70>59.10 1.24e5



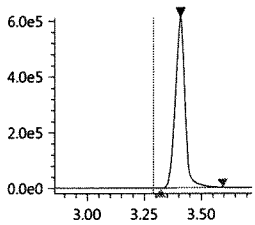
N-EtFOSE
Conc ----
RT ---- Area ----
Q 630.00>58.90 2.03e2

JUL 27 2017

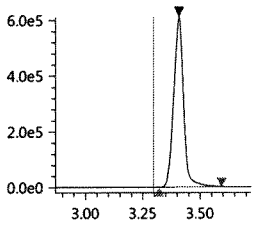
072617_152 B4

Sample ID: K1707681-008
Date acquired: 7/26/2017 6:07:38 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b3\072617_152.lcd
Vial: 41 | Inj. Volume: 15.0000uL | Tray: 2

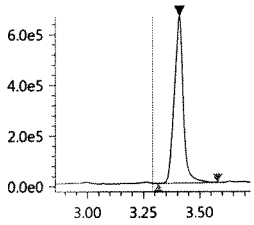
PFBA-13C_IS
Conc 5.0000
RT 3.408 Area 1814137
ISTD 216.90>172.15 6.13e5



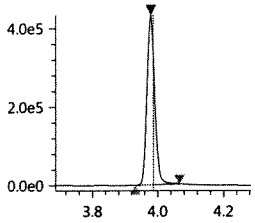
PFBA-13C
Conc 4.2871
RT 3.408 Area 1814137
Q 216.90>172.15 6.13e5



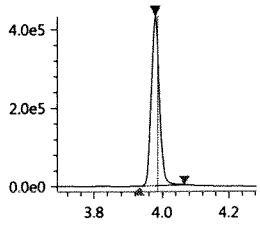
PFBA
Conc 3.8796
RT 3.410 Area 1811526
Q 213.00>169.10 6.73e5



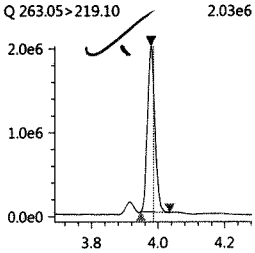
PFPeA-13C_IS
Conc 5.0000
RT 3.979 Area 728089
ISTD 267.90>223.00 4.34e5



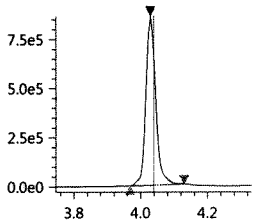
PFPeA-13C
Conc 3.4796
RT 3.979 Area 728089
Q 267.90>223.00 4.34e5



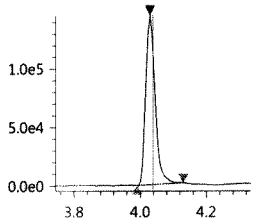
PFPeA
Conc 6.8229
RT 3.979 Area 3235156
Q 263.05>219.10 2.03e6



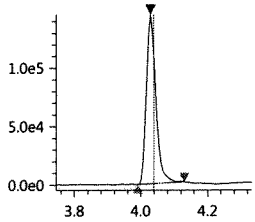
PFBS_1
Conc 35.7966
RT 4.029 Area 1768039
Q 299.00>80.00 8.68e5



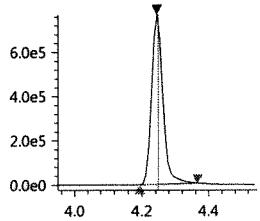
PFBS-13C
Conc 1.9744
RT 4.030 Area 291498
Q 301.80>80.00 1.46e5



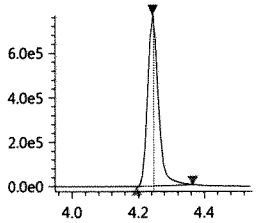
PFBS-13C_IS
Conc 5.0000
RT 4.030 Area 291498
ISTD 301.80>80.00 1.46e5



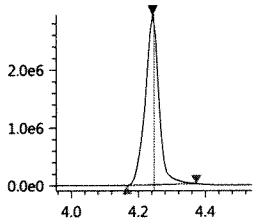
PFHxA-13C_IS
Conc 5.0000
RT 4.244 Area 1790828
ISTD 314.90>270.10 7.70e5



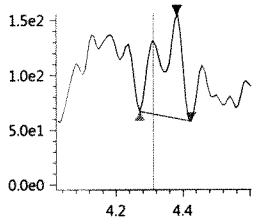
PFHxA-13C
Conc 3.0147
RT 4.244 Area 1790828
Q 314.90>270.10 7.70e5



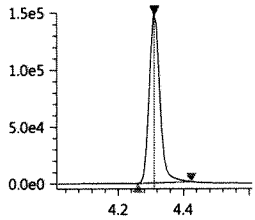
PFHxA
Conc 22.2133
RT 4.243 Area 8423352
Q 313.00>269.00 2.95e6



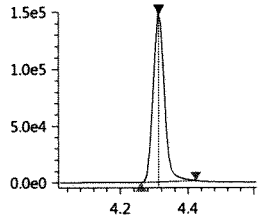
HPFO_DA
Conc 0.0067
RT 4.382 Area 443
Q 329.00>169.00 1.56e2



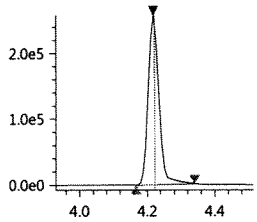
HFPO_DA-13C_IS
Conc 5.0000
RT 4.312 Area 345438
ISTD 332.00>286.80 1.50e5



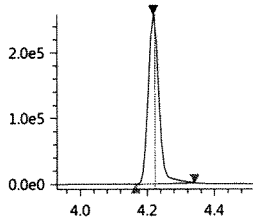
HFPO_DA-13C
Conc 2.3459
RT 4.312 Area 345438
Q 332.00>286.80 1.50e5



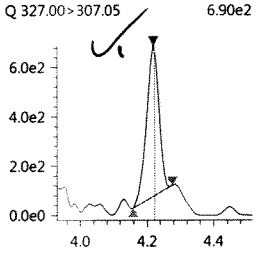
4_2-FTS-13C_IS
Conc 5.0000
RT 4.219 Area 580691
ISTD 328.80>309.05 2.59e5



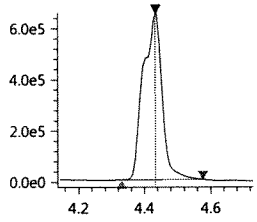
4_2-FTS-13C
Conc 6.0509
RT 4.219 Area 580691
Q 328.80>309.05 2.59e5



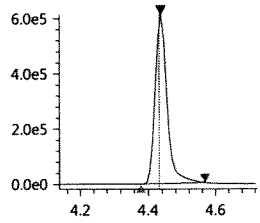
4_2-FTS_1
Conc 0.0110
RT 4.220 Area 1630
Q 327.00>307.05 6.90e2



PFHpA
Conc 7.8259
RT 4.434 Area 2581997
Q 362.90>319.00 6.63e5

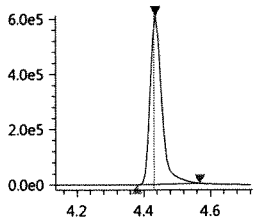


PFHpA-13C_IS
Conc 5.0000
RT 4.436 Area 1501709
ISTD 366.90>322.10 6.14e5

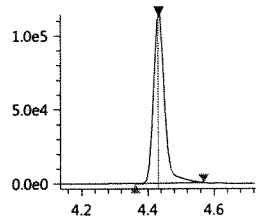


JUL 27 2017

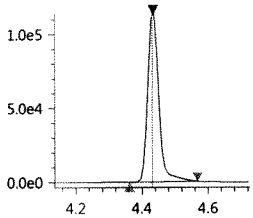
PFHpA-13C
Conc 2.5067
RT 4.436 Area 1501709
Q 366.90>322.10 6.14e5



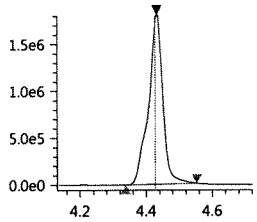
PFHxS-18O_IS
Conc 5.0000
RT 4.433 Area 270028
ISTD 402.70>84.05 1.15e5



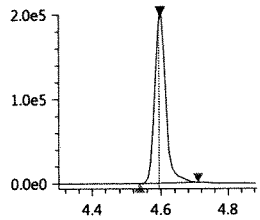
PFHxS-18O
Conc 3.0704
RT 4.433 Area 270028
Q 402.70>84.05 1.15e5



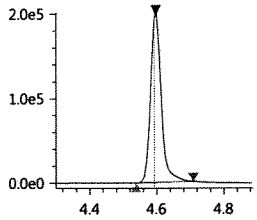
PFHxS_1
Conc 72.7048
RT 4.432 Area 5447786
Q 399.00>80.00 1.81e6



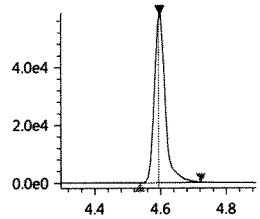
6_2-FTS-13C
Conc 7.8777
RT 4.598 Area 453090
Q 428.90>409.00 2.01e5



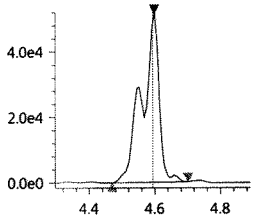
6_2-FTS-13C_IS
Conc 5.0000
RT 4.598 Area 453090
ISTD 428.90>409.00 2.01e5



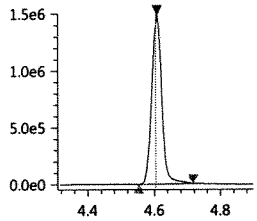
6_2-FTS_1
Conc 1.1301
RT 4.597 Area 134989
Q 427.00>407.00 5.88e4



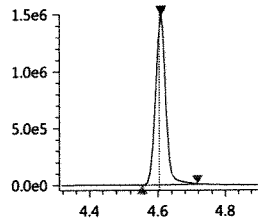
PFHpS_1
Conc 3.2017
RT 4.598 Area 188367
Q 449.00>80.15 5.20e4



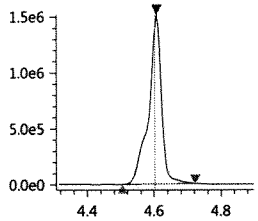
PFOA-13C_IS
Conc 5.0000
RT 4.608 Area 3115269
ISTD 416.80>372.05 1.50e6



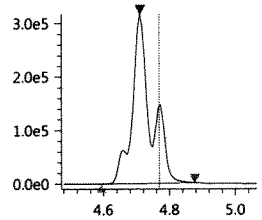
PFOA-13C
Conc 4.0498
RT 4.608 Area 3115269
Q 416.80>372.05 1.50e6



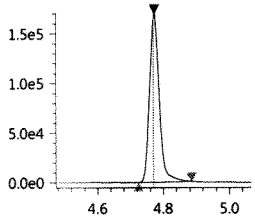
PFOA
Conc 5.2117
RT 4.607 Area 4104123
Q 413.00>369.00 1.52e6



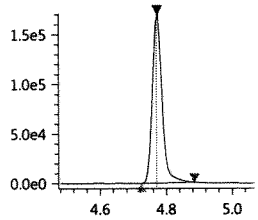
PFOS_1
Conc 21.7929
RT 4.711 Area 1242463
Q 499.00>80.00 3.18e5



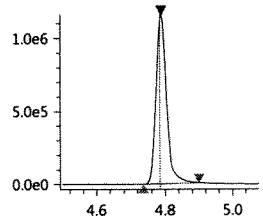
PFOS-13C_IS
Conc 5.0000
RT 4.772 Area 351505
ISTD 502.80>80.05 1.71e5



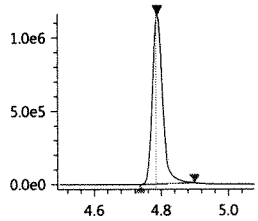
PFOS-13C
Conc 3.6614
RT 4.772 Area 351505
Q 502.80>80.05 1.71e5



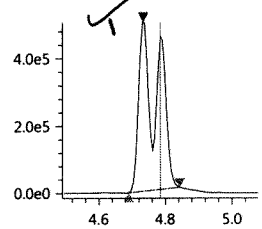
PFNA-13C_IS
Conc 5.0000
RT 4.788 Area 2488535
ISTD 467.80>423.00 1.16e6



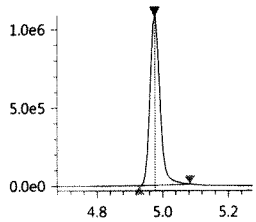
PFNA-13C
Conc 3.6045
RT 4.788 Area 2488535
Q 467.80>423.00 1.16e6



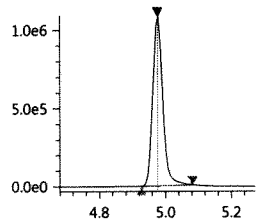
PFNA
Conc 3.5827
RT 4.734 Area 1964503
Q 463.00>418.90 5.07e5



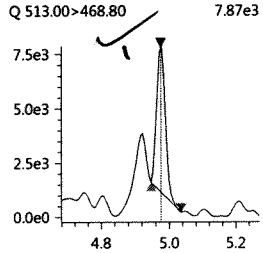
PFDA-13C_IS
Conc 5.0000
RT 4.976 Area 2302519
ISTD 514.80>469.95 1.09e6



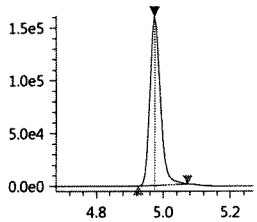
PFDA-13C
Conc 4.0391
RT 4.976 Area 2302519
Q 514.80>469.95 1.09e6



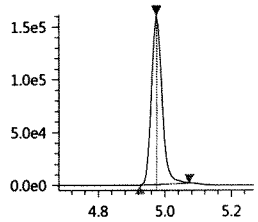
PFDA
Conc 0.0189
RT 4.975 Area 11938
Q 513.00>468.80 7.87e3



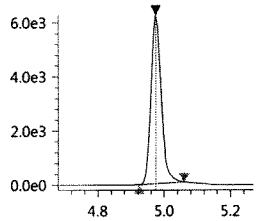
8_2-FTS-13C_IS
Conc 5.0000
RT 4.974 Area 356229
ISTD 528.80>509.00 1.62e5



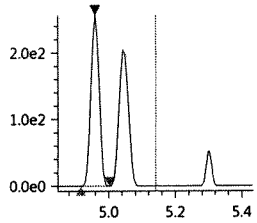
8_2-FTS-13C
Conc 6.8744
RT 4.974 Area 356229
Q 528.80>509.00 1.62e5



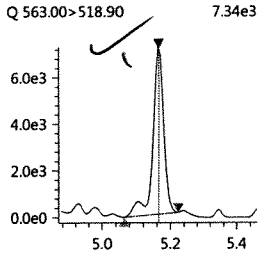
8_2-FTS_1
Conc 0.1999
RT 4.974 Area 13732
Q 526.90>506.90 6.32e3



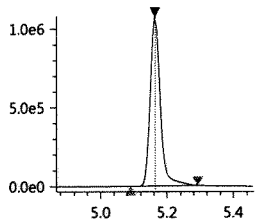
PFDS_1
Conc 0.0066
RT 4.959 Area 441
Q 599.00>79.90 2.57e2



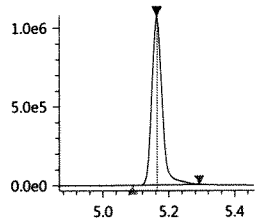
PFUnA
Conc 0.0298
RT 5.164 Area 16093
Q 563.00>518.90 7.34e3



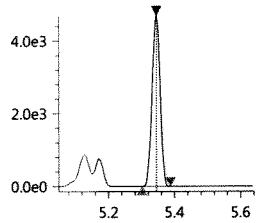
PFUnA-13C_IS
Conc 5.0000
RT 5.164 Area 2338952
ISTD 564.80>519.95 1.08e6



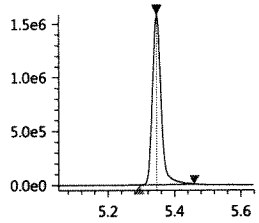
PFUnA-13C
Conc 3.4470
RT 5.164 Area 2338952
Q 564.80>519.95 1.08e6



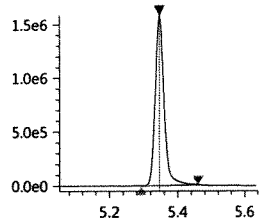
PFDoA
Conc 0.0214
RT 5.345 Area 8089
Q 613.05>569.00 4.70e3



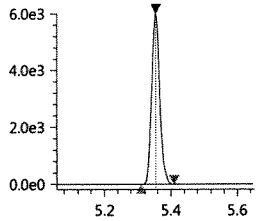
PFDoA-13C
Conc 3.3605
RT 5.346 Area 2888269
Q 614.80>569.95 1.59e6



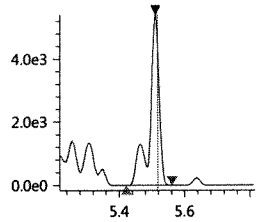
PFDoA-13C_IS
Conc 5.0000
RT 5.346 Area 2888269
ISTD 614.80>569.95 1.59e6



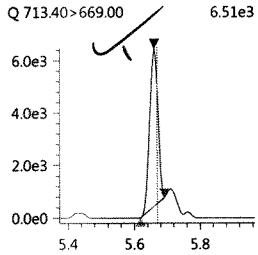
10_2-FtS_1
Conc 0.1546
RT 5.355 Area 10413
Q 627.00>606.95 6.01e3



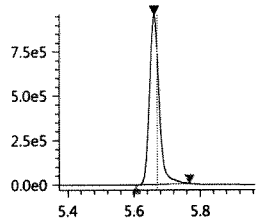
PFTrDA
Conc 0.0279
RT 5.511 Area 10939
Q 663.00>618.90 5.41e3



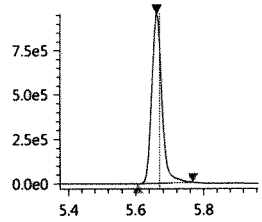
PFTeDA
Conc -0.0392
RT 5.660 Area 10655
Q 713.40>669.00 6.51e3



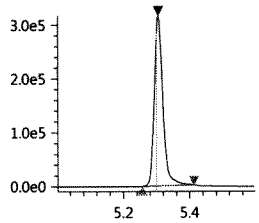
PFTeDA-13C
Conc 2.8314
RT 5.661 Area 1967977
Q 714.70>669.90 9.62e5



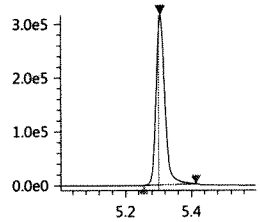
PFTeDA-13C_IS
Conc 5.0000
RT 5.661 Area 1967977
ISTD 714.70>669.90 9.62e5



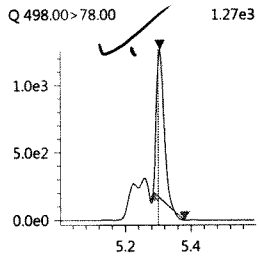
FOSA-13C_IS
Conc 5.0000
RT 5.306 Area 584720
ISTD 506.00>78.05 3.17e5



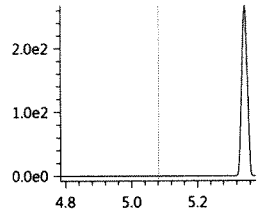
FOSA-13C
Conc 2.2419
RT 5.306 Area 584720
Q 506.00>78.05 3.17e5



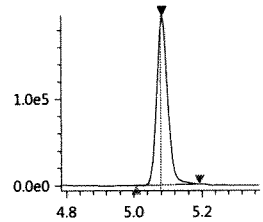
FOSA
Conc 0.0096
RT 5.306 Area 1732
Q 498.00>78.00 1.27e3



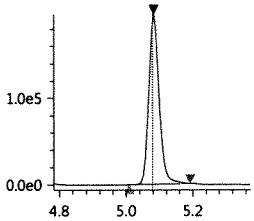
N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 2.68e2



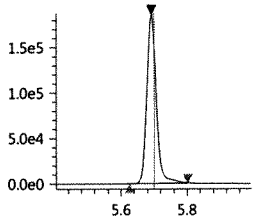
N-MeFOSAA-d3
Conc 2.5682
RT 5.083 Area 433787
Q 572.80>419.05 1.97e5



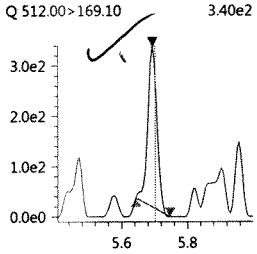
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.083 Area 433787
ISTD 572.80>419.05 1.97e5



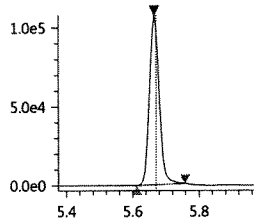
N-MeFOSA_IS
Conc 5.0000
RT 5.691 Area 377885
ISTD 514.90>168.90 1.88e5



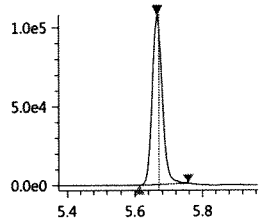
N-MeFOSA
Conc 0.0116
RT 5.693 Area 624
Q 512.00>169.10 3.40e2



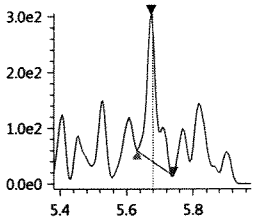
N-MeFOSE-d7
Conc 2.2275
RT 5.665 Area 220795
Q 622.70>59.10 1.08e5



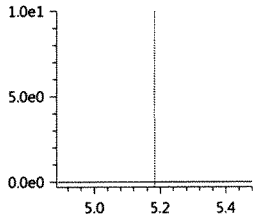
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.665 Area 220795
ISTD 622.70>59.10 1.08e5



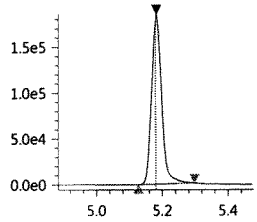
N-MeFOSE
Conc 0.0075
RT 5.674 Area 585
Q 616.00>59.00 3.06e2



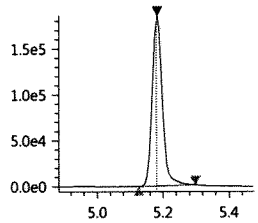
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 0.00e0



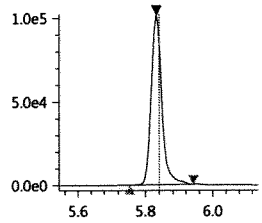
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.182 Area 397466
ISTD 588.80>419.00 1.86e5



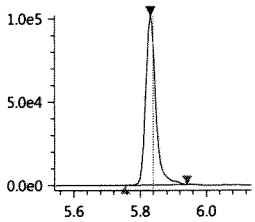
N-EtFOSAA-d5
Conc 2.5940
RT 5.182 Area 397466
Q 588.80>419.00 1.86e5



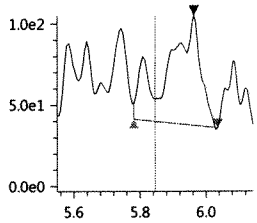
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.831 Area 222210
ISTD 530.90>169.15 1.02e5



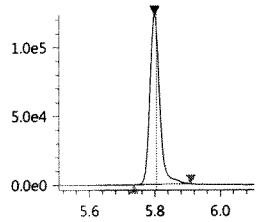
N-EtFOSA-d9
Conc 2.1758
RT 5.831 Area 222210
Q 530.90>169.15 1.02e5



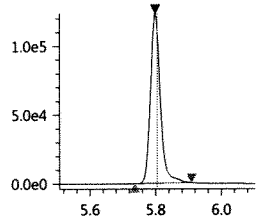
N-EtFOSA
Conc 0.0577
RT 5.963 Area 474
Q 526.90>169.10 1.05e2



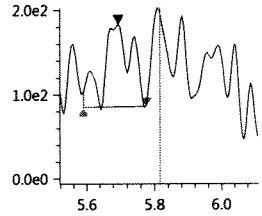
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.799 Area 260689
ISTD 638.70>59.10 1.24e5



N-EtFOSE-d9
Conc 2.1807
RT 5.799 Area 260689
Q 638.70>59.10 1.24e5



N-EtFOSE
Conc 0.0068
RT 5.694 Area 558
Q 630.00>58.90 2.03e2



Validation Report

Data File: J:\LCMS06\Data\072817_b2\072817_141
Lab ID: K1707681-008
RunType: N/A
Matrix: Water

Date Acquired: 7/28/17 15:47
Batch ID: 555466
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Lab Control Sample Recovery		X
Duplicate Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	138	70	130	NR, high bias, ND
Lab Control Sample Recovery	Perfluorobutanoic acid (PFBA)	138	76	136	normal slight high bias
	Perfluoroundecanoic acid (PFUnDA)	149	66	131	high bias, ND
Method Blank Surrogates	13C2-8:2 FTS	162	50	150	↓

Primary Review: ESD 7/31/17

Secondary Review: MJ 7/31/17

Printed: 7/31/17 10:36
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072817_b2\072817_141	**Instrument:**	K-LCMS-06
Acqu Date:	7/28/17 15:47	**Vial:**	14
Run Type:	N/A	**Dilution:**	20
Lab ID:	K1707681-008	**Raw Units:**	ng/mL

Bottle ID:	K1707681-008.01	**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	555466	**Prep Lot:**	293673	**Report Group:**	K1707681
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	7/25/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700134
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.688	381414	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.399	88011	0.1862	74	19 - 126	N
13C2-PFHxA	4.237	139041	0.2202	88	10 - 151	N
18O2-PFHxS	4.420	19453	0.2203	88	20 - 128	Y
13C2-6:2 FTS	4.587	12277	0.2244	90	10 - 187	N
13C4-PFOA	4.600	163003	0.2188	88	13 - 142	N
13C5-PFNA	4.781	145847	0.1985	79	15 - 143	N
13C4-PFOS	4.764	18735	0.1854	74	11 - 131	N
13C2-PFDA	4.970	121902	0.1891	76	25 - 129	N
13C2-PFUnDA	5.157	127577	0.1787	71	16 - 129	N
13C2-PFDoDA	5.342	156079	0.1707	68	17 - 114	N
D7-MeFOSE	5.661	14718	0.1911	76	32 - 113	N
D9-EtFOSE	5.794	12399	0.1547	62	20 - 113	N
D5-EtFOSA	5.827	11897	0.1152	46	19 - 103	N
13C2-8:2 FTS	4.968	14706	0.2741	110	50 - 150	N
13C2-PFTeDA	5.656	111675	0.1785	71	50 - 150	N
13C4-PFHpA	4.421	118525	0.2050	82	50 - 150	N
13C5-PFPeA	3.974	42160	0.1991	80	50 - 150	N
13C3-PFBS	4.024	26584	0.1943	78	50 - 150	N
13C8-FOSA	5.302	40720	0.1607	64	50 - 150	N

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.401	103006	5.5237	160	U	N
Perfluoropentanoic acid (PFPeA)	3.974	219240	9.5435	270		N

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/31/17 10:36

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072817_b2\072817_141	**Instrument:**	K-LCMS-06
Acqu Date:	7/28/17 15:47	**Vial:**	14
Run Type:	N/A	**Dilution:**	20
Lab ID:	K1707681-008	**Raw Units:**	ng/mL

Target Compounds **Final Conc.Units:** ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.024	135862	29.0928	820		N
Perfluorohexanoic acid (PFHxA)	4.233	601228	26.3757	740		N
Perfluoroheptanoic acid (PFHpA)	4.410	196585	8.7913	250		N
Perfluorohexane sulfonic acid (PFHxS)	4.418	312078	65.8302	1900		Y
Perfluorooctanoic acid (PFOA)	4.598	208118	5.7053	160		N
Perfluoroheptane sulfonic acid (PFHpS)	4.560	4533	1.3160	37	U	N
Perfluorononanoic acid (PFNA)	4.731	113026	4.5924	130		N
Perfluorooctane sulfonic acid (PFOS)	4.702	61380	21.7798	610		N
Perfluorodecanoic acid (PFDA)	4.942	7889	0.2901	8.2	U	N
Perfluoroundecanoic acid (PFUnDA)	5.127	9897	0.4248	12	U	N
Perfluorooctane sulfonamide (FOSA)	5.312	551	0.0462	1.3	U	N
Perfluorododecanoic acid (PFDoDA)	5.319	5180	0.3057	8.6	U	N
Perfluorotridecanoic acid (PFTrDA)	0	0	0	0	U	N
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.696	614	0.1274	3.6	U	N
N-Methyl perfluorooctane sulfonamidoethanol	0	0	0	0	U	N
Perfluorotetradecanoic acid (PFTeDA)	5.650	3547	0.2637	7.4	U	N
N-Ethyl perfluorooctane sulfonamidoethanol	0	0	0	0	U	N
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0	0	0	0	U	N
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.967	611	0.2053	5.8	U	N
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.588	3832	1.3709	39	U	N
Perfluorodecane sulfonic acid (PFDS)	0	0	0	0	U	N

Prep Amount:	71.0000 mL	**Dilution:**	20
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/31/17 10:36
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072817_141

Sample ID: K1707681-008 20X
Date acquired: 7/28/2017 3:47:31 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b2\072817_141.lcd
Vial: 19 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.399	88011	88011	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.399	88011	381414	1	0.1862	ng/mL	----	----	Auto
PFBA	3.401	103006	88011	2	5.5237	ng/mL	----	----	M
PFPeA-13C_IS	3.974	42160	42160	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.974	42160	381414	1	0.1991	ng/mL	----	----	Auto
PFPeA	3.974	219240	42160	4	9.5435	ng/mL	----	----	Auto
PFBS_1	4.024	135862	26584	16	29.0928	ng/mL	----	----	Auto
PFBS-13C	4.024	26584	381414	1	0.1943	ng/mL	----	----	Auto
PFBS-13C_IS	4.024	26584	26584	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.237	139041	139041	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.237	139041	381414	1	0.2202	ng/mL	----	----	Auto
PFHxA	4.233	601228	139041	6	26.3757	ng/mL	----	----	Auto
HPFO_DA	----	----	----	3	----	ng/mL	----	----	NP
HFPO_DA-13C_IS	4.301	29748	29748	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.301	29748	381414	1	0.1835	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.207	14621	14621	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.207	14621	381414	1	0.1899	ng/mL	----	----	Auto
4_2-FTS_1	----	----	----	5	----	ng/mL	----	----	NP
PFHpA	4.410	196585	118525	8	8.7913	ng/mL	----	----	Auto
PFHpA-13C_IS	4.421	118525	118525	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.421	118525	381414	1	0.2050	ng/mL	----	----	Auto
PFHxS-18O_IS	4.420	19453	19453	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.420	19453	381414	1	0.2203	ng/mL	----	----	Auto
PFHxS_1	4.418	312078	19453	7	65.8302	ng/mL	----	----	Auto
6_2-FTS-13C	4.587	12277	381414	1	0.2244	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.587	12277	12277	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.588	3832	12277	10	1.3709	ng/mL	----	----	Auto
PFHpS_1	4.560	4533	19453	7	1.3160	ng/mL	----	----	Auto
PFOA-13C_IS	4.600	163003	163003	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.600	163003	381414	1	0.2188	ng/mL	----	----	Auto
PFOA	4.598	208118	163003	9	5.7053	ng/mL	----	----	Auto
PFOS_1	4.702	61380	18735	13	21.7798	ng/mL	----	----	Auto
PFOS-13C_IS	4.764	18735	18735	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.764	18735	381414	1	0.1854	ng/mL	----	----	Auto
PFNA-13C_IS	4.781	145847	145847	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.781	145847	381414	1	0.1985	ng/mL	----	----	Auto
PFNA	4.731	113026	145847	11	4.5924	ng/mL	----	----	Auto
PFDA-13C_IS	4.970	121902	121902	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.970	121902	381414	1	0.1891	ng/mL	----	----	Auto
PFDA	4.942	7889	121902	12	0.2901	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.968	14706	14706	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.968	14706	381414	1	0.2741	ng/mL	----	----	Auto
8_2-FTS_1	4.967	611	14706	15	0.2053	ng/mL	----	----	M
PFDS_1	----	----	----	13	----	ng/mL	----	----	NP
PFUnA	5.127	9897	127577	14	0.4248	ng/mL	----	----	Auto
PFUnA-13C_IS	5.157	127577	127577	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.157	127577	381414	1	0.1787	ng/mL	----	----	Auto
PFDoA	5.319	5180	156079	17	0.3057	ng/mL	----	----	Auto
PFDoA-13C	5.342	156079	381414	1	0.1707	ng/mL	----	----	Auto
PFDoA-13C_IS	5.342	156079	156079	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	----	----	----	15	----	ng/mL	----	----	NP
PFTrDA	----	----	----	22	----	ng/mL	----	----	NI
PFTeDA	5.650	3547	111675	22	0.2637	ng/mL	----	----	Auto
PFTeDA-13C	5.656	111675	381414	1	0.1785	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.656	111675	111675	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.302	40720	40720	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.302	40720	381414	1	0.1607	ng/mL	----	----	Auto
FOSA	5.312	551	40720	18	0.0462	ng/mL	----	----	Auto
N-MeFOSAA	----	----	----	19	----	ng/mL	----	----	NP
N-MeFOSAA-d3	5.075	25198	381414	1	0.1765	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.075	25198	25198	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.688	381414	381414	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.696	614	14718	20	0.1274	ng/mL	----	----	Auto
N-MeFOSE-d7	5.661	14718	381414	1	0.1911	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.661	14718	14718	20	5.0000	ng/mL	----	----	Auto

BJD 7/31/17

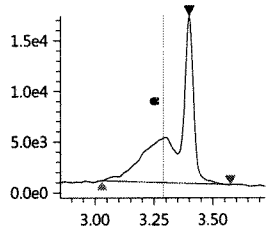
Insight Report

Printed at 7/30/2017 5:55:51 PM

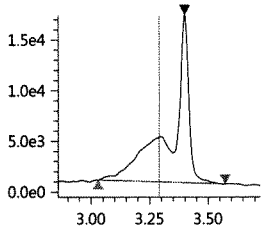
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-MeFOSE	----	----	----	20	----	ng/mL	----	----	NI
N-EtFOSAA	----	----	----	21	----	ng/mL	----	----	NP
N-EtFOSAA-d5_IS	5.176	24769	24769	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.176	24769	381414	1	0.1782	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.827	11897	11897	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.827	11897	381414	1	0.1152	ng/mL	----	----	Auto
N-EtFOSA	----	----	----	23	----	ng/mL	----	----	NP
N-EtFOSE-d9_IS	5.794	12399	12399	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.794	12399	381414	1	0.1547	ng/mL	----	----	Auto
N-EtFOSE	----	----	----	24	----	ng/mL	----	----	NI

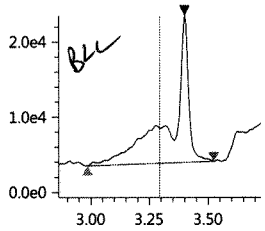
PFBA-13C_IS
Conc 5.0000
RT 3.399 Area 88011
ISTD 216.90>172.15 1.75e4



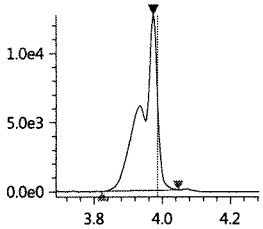
PFBA-13C
Conc 0.1862
RT 3.399 Area 88011
Q 216.90>172.15 1.75e4



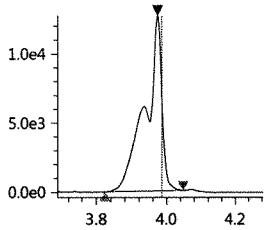
PFBA
Conc 5.5237
RT 3.401 Area 103006
Q 213.00>169.10 2.35e4



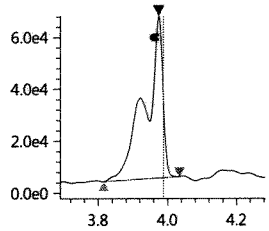
PFPeA-13C_IS
Conc 5.0000
RT 3.974 Area 42160
ISTD 267.90>223.00 1.28e4



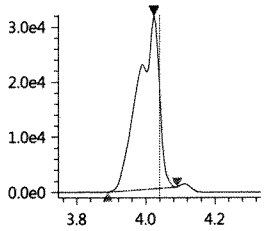
PFPeA-13C
Conc 0.1991
RT 3.974 Area 42160
Q 267.90>223.00 1.28e4



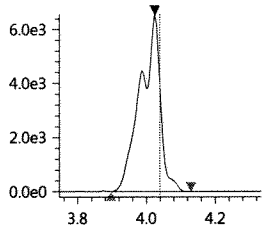
PFPeA
Conc 9.5435
RT 3.974 Area 219240
Q 263.05>219.10 6.84e4



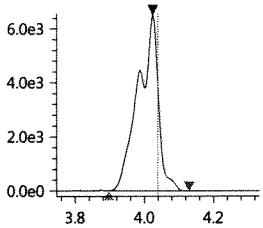
PFBS_1
Conc 29.0928
RT 4.024 Area 135862
Q 299.00>80.00 3.22e4



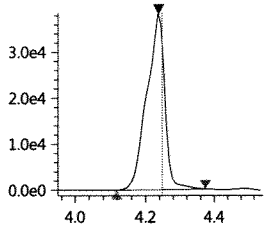
PFBS-13C
Conc 0.1943
RT 4.024 Area 26584
Q 301.80>80.00 6.57e3



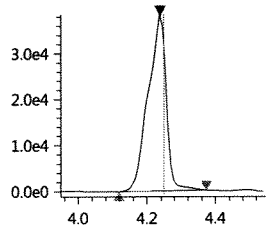
PFBS-13C_IS
Conc 5.0000
RT 4.024 Area 26584
ISTD 301.80>80.00 6.57e3



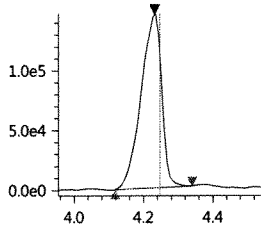
PFHxA-13C_IS
Conc 5.0000
RT 4.237 Area 139041
ISTD 314.90>270.10 3.86e4



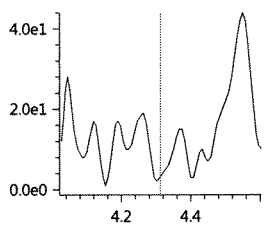
PFHxA-13C
Conc 0.2202
RT 4.237 Area 139041
Q 314.90>270.10 3.86e4



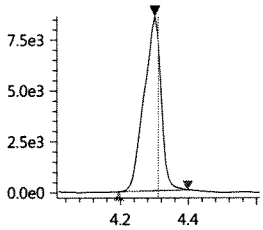
PFHxA
Conc 26.3757
RT 4.233 Area 601228
Q 313.00>269.00 1.48e5



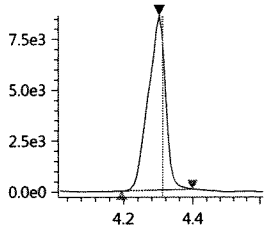
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 4.40e1



HFPO_DA-13C_IS
Conc 5.0000
RT 4.301 Area 29748
ISTD 332.00>286.80 8.69e3

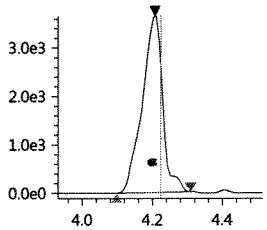


HFPO_DA-13C
Conc 0.1835
RT 4.301 Area 29748
Q 332.00>286.80 8.69e3

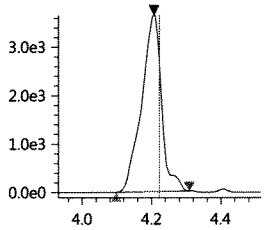


7/31/17

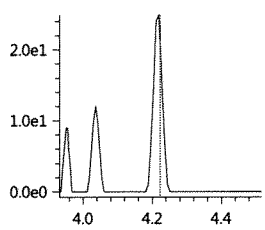
4_2-FTS-13C_IS
Conc 5.0000
RT 4.207 Area 14621
ISTD 328.80>309.05 3.67e3



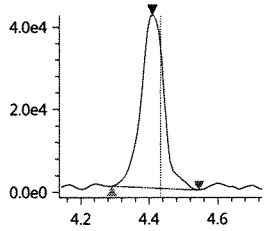
4_2-FTS-13C
Conc 0.1899
RT 4.207 Area 14621
Q 328.80>309.05 3.67e3



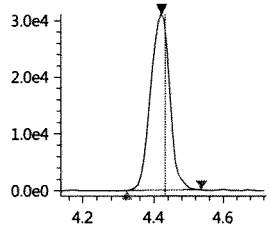
4_2-FTS_1
Conc ----
RT ---- Area ----
Q 327.00>307.05 2.50e1



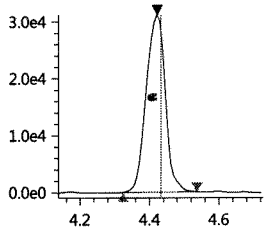
PFHpA
Conc 8.7913
RT 4.410 Area 196585
Q 362.90>319.00 4.29e4



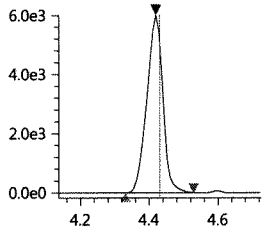
PFHpA-13C_IS
Conc 5.0000
RT 4.421 Area 118525
ISTD 366.90>322.10 3.13e4



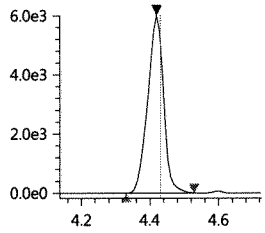
PFHpA-13C
Conc 0.2050
RT 4.421 Area 118525
Q 366.90>322.10 3.13e4



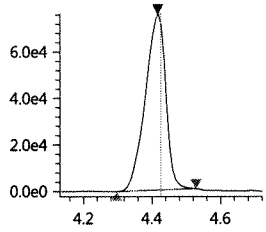
PFHxS-18O_IS
Conc 5.0000
RT 4.420 Area 19453
ISTD 402.70>84.05 6.02e3



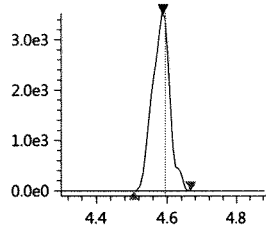
PFHxS-18O
Conc 0.2203
RT 4.420 Area 19453
Q 402.70>84.05 6.02e3



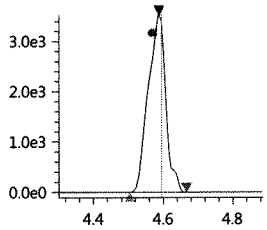
PFHxS_1
Conc 65.8302
RT 4.418 Area 312078
Q 399.00>80.00 7.66e4



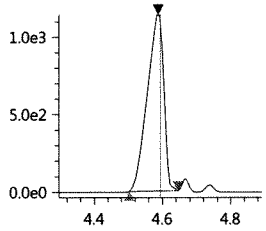
6_2-FTS-13C
Conc 0.2244
RT 4.587 Area 12277
Q 428.90>409.00 3.53e3



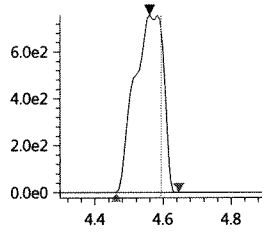
6_2-FTS-13C_IS
Conc 5.0000
RT 4.587 Area 12277
ISTD 428.90>409.00 3.53e3



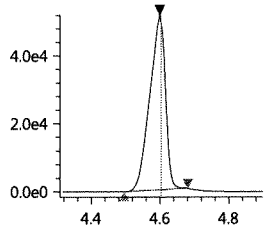
6_2-FTS_1
Conc 1.3709
RT 4.588 Area 3832
Q 427.00>407.00 1.15e3



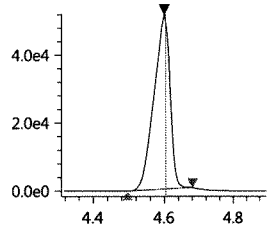
PFHpS_1
Conc 1.3160
RT 4.560 Area 4533
Q 449.00>80.15 7.58e2



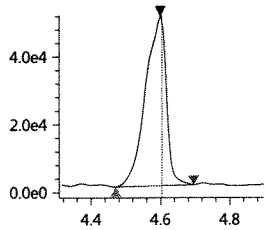
PFOA-13C_IS
Conc 5.0000
RT 4.600 Area 163003
ISTD 416.80>372.05 5.22e4



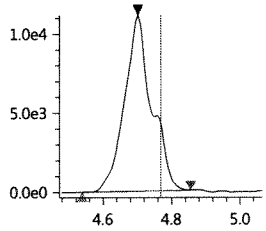
PFOA-13C
Conc 0.2188
RT 4.600 Area 163003
Q 416.80>372.05 5.22e4



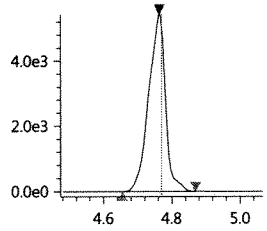
PFOA
Conc 5.7053
RT 4.598 Area 208118
Q 413.00>369.00 5.24e4



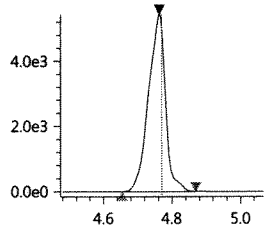
PFOS_1
Conc 21.7798
RT 4.702 Area 61380
Q 499.00>80.00 1.12e4



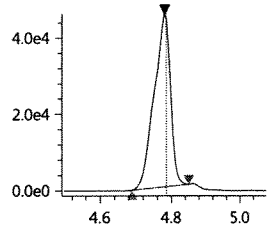
PFOS-13C_IS
Conc 5.0000
RT 4.764 Area 18735
ISTD 502.80>80.05 5.44e3



PFOS-13C
Conc 0.1854
RT 4.764 Area 18735
Q 502.80>80.05 5.44e3



PFNA-13C_IS
Conc 5.0000
RT 4.781 Area 145847
ISTD 467.80>423.00 4.64e4

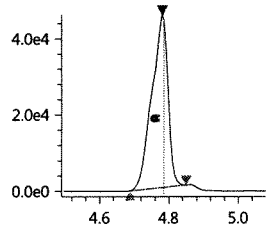


BJD 7/31/17

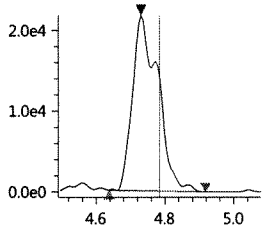
Insight Report

Printed at 7/30/2017 5:55:51 PM

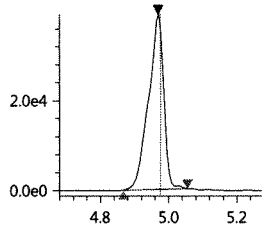
PFNA-13C
Conc 0.1985
RT 4.781 Area 145847
Q 467.80>423.00 4.64e4



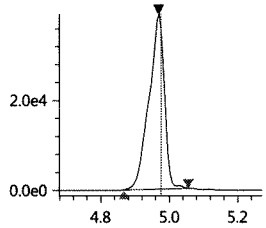
PFNA
Conc 4.5924
RT 4.731 Area 113026
Q 463.00>418.90 2.19e4



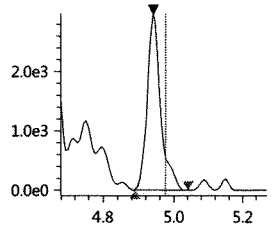
PFDA-13C_IS
Conc 5.0000
RT 4.970 Area 121902
ISTD 514.80>469.95 3.94e4



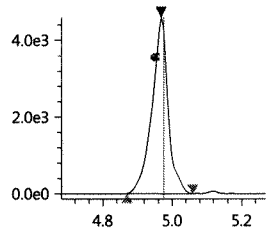
PFDA-13C
Conc 0.1891
RT 4.970 Area 121902
Q 514.80>469.95 3.94e4



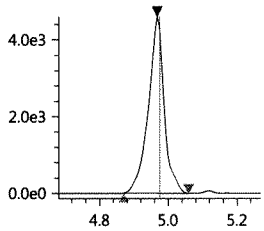
PFDA
Conc 0.2901
RT 4.942 Area 7889
Q 513.00>468.80 2.99e3



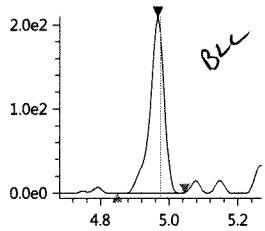
8_2-FTS-13C_IS
Conc 5.0000
RT 4.968 Area 14706
ISTD 528.80>509.00 4.60e3



8_2-FTS-13C
Conc 0.2741
RT 4.968 Area 14706
Q 528.80>509.00 4.60e3

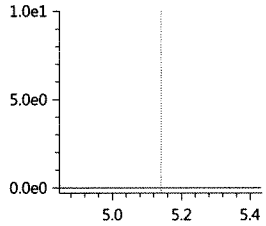


8_2-FTS_1
Conc 0.2053
RT 4.967 Area 611
Q 526.90>506.90 2.10e2

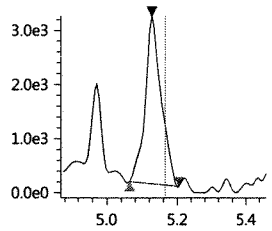


BLC

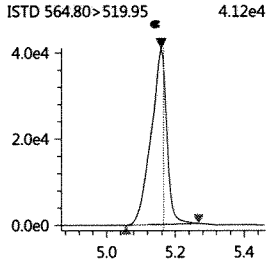
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 0.00e0



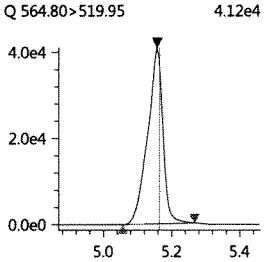
PFUnA
Conc 0.4248
RT 5.127 Area 9897
Q 563.00>518.90 3.26e3



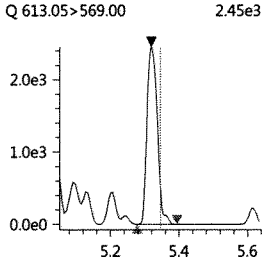
PFUnA-13C_IS
Conc 5.0000
RT 5.157 Area 127577
ISTD 564.80>519.95 4.12e4



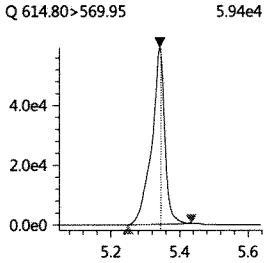
PFUnA-13C
Conc 0.1787
RT 5.157 Area 127577
Q 564.80>519.95 4.12e4



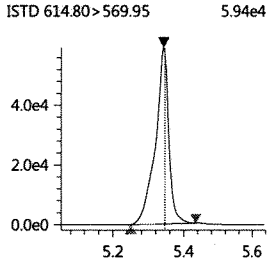
PFDoA
Conc 0.3057
RT 5.319 Area 5180
Q 613.05>569.00 2.45e3



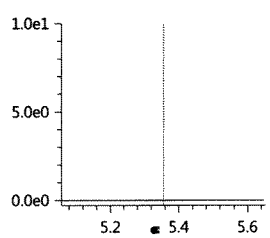
PFDoA-13C
Conc 0.1707
RT 5.342 Area 156079
Q 614.80>569.95 5.94e4



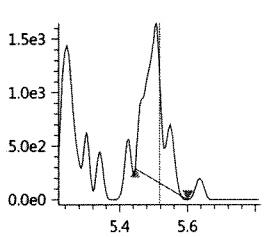
PFDoA-13C_IS
Conc 5.0000
RT 5.342 Area 156079
ISTD 614.80>569.95 5.94e4



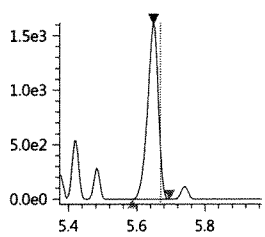
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



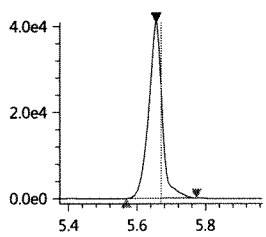
PFTrDA
Conc ----
RT ---- Area ----
Q 663.00>618.90 1.65e3



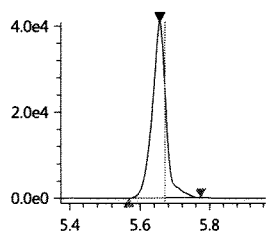
PFTeDA
Conc 0.2637
RT 5.650 Area 3547
Q 713.40>669.00 1.62e3



PFTeDA-13C
Conc 0.1785
RT 5.656 Area 111675
Q 714.70>669.90 4.10e4

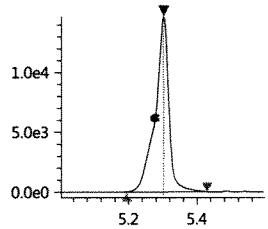


PFTeDA-13C_IS
Conc 5.0000
RT 5.656 Area 111675
ISTD 714.70>669.90 4.10e4

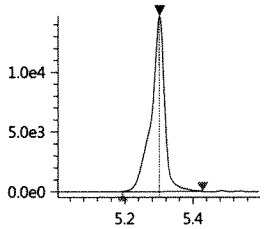


MJ 7/31/17

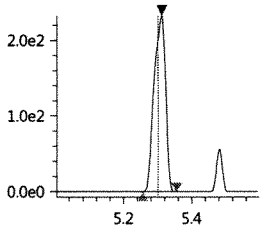
FOSA-13C_IS
Conc 5.0000
RT 5.302 Area 40720
ISTD 506.00>78.05 1.48e4



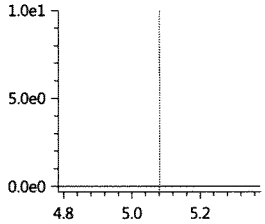
FOSA-13C
Conc 0.1607
RT 5.302 Area 40720
Q 506.00>78.05 1.48e4



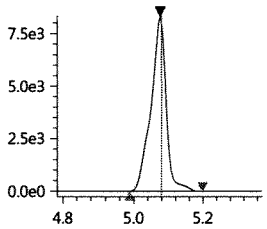
FOSA
Conc 0.0462
RT 5.312 Area 551
Q 498.00>78.00 2.33e2



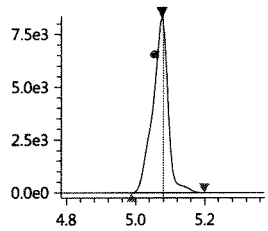
N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 0.00e0



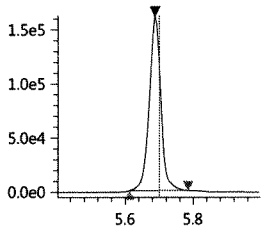
N-MeFOSAA-d3
Conc 0.1765
RT 5.075 Area 25198
Q 572.80>419.05 8.38e3



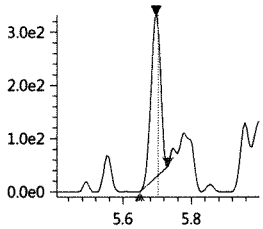
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.075 Area 25198
ISTD 572.80>419.05 8.38e3



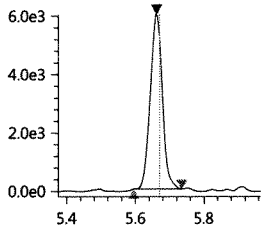
N-MeFOSA_IS
Conc 5.0000
RT 5.688 Area 381414
ISTD 514.90>168.90 1.63e5



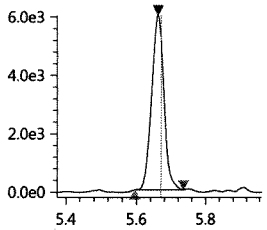
N-MeFOSA
Conc 0.1274
RT 5.696 Area 614
Q 512.00>169.10 3.32e2



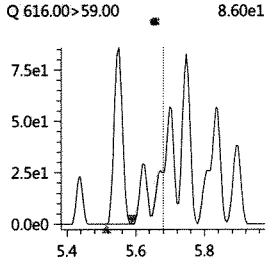
N-MeFOSE-d7
Conc 0.1911
RT 5.661 Area 14718
Q 622.70>59.10 6.05e3



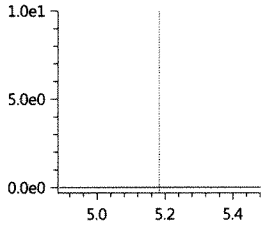
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.661 Area 14718
ISTD 622.70>59.10 6.05e3



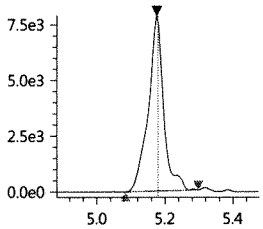
N-MeFOSE
Conc ----
RT ---- Area ----
Q 616.00>59.00 8.60e1



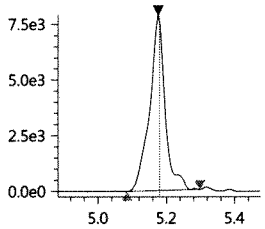
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 0.00e0



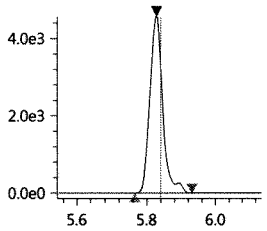
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.176 Area 24769
ISTD 588.80>419.00 7.92e3



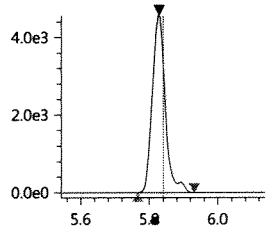
N-EtFOSAA-d5
Conc 0.1782
RT 5.176 Area 24769
Q 588.80>419.00 7.92e3



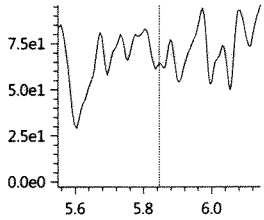
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.827 Area 11897
ISTD 530.90>169.15 4.56e3



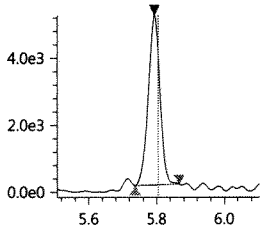
N-EtFOSA-d9
Conc 0.1152
RT 5.827 Area 11897
Q 530.90>169.15 4.56e3



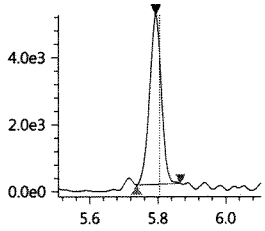
N-EtFOSA
Conc ----
RT ---- Area ----
Q 526.90>169.10 9.60e1



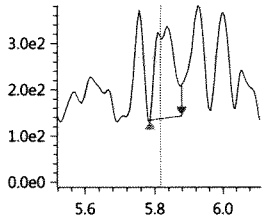
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.794 Area 12399
ISTD 638.70>59.10 5.28e3



N-EtFOSE-d9
Conc 0.1547
RT 5.794 Area 12399
Q 638.70>59.10 5.28e3



N-EtFOSE
Conc ----
RT ---- Area ----
Q 630.00>58.90 3.82e2



Below LOD 7/31/17

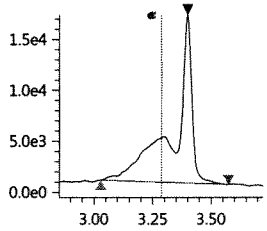
Insight Report

Printed at 7/30/2017 1:18:39 PM

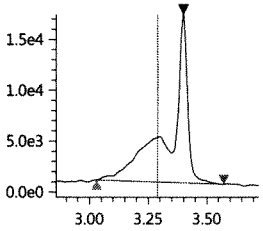
072817_141

Sample ID: K1707681-008 20X
Date acquired: 7/28/2017 3:47:31 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b2\072817_141.lcd
Vial: 19 | Inj. Volume: 15.0000uL | Tray: 2

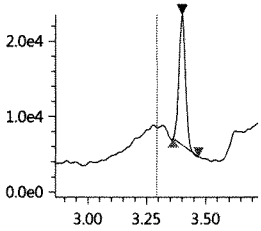
PFBA-13C_IS
Conc 5.0000
RT 3.399 Area 88011
ISTD 216.90>172.15 1.75e4



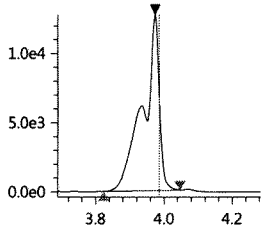
PFBA-13C
Conc 0.1862
RT 3.399 Area 88011
Q 216.90>172.15 1.75e4



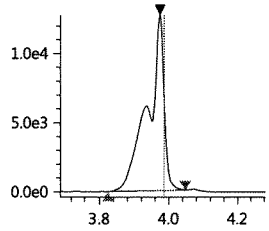
PFBA
Conc 1.7726
RT 3.401 Area 33057
Q 213.00>169.10 2.35e4



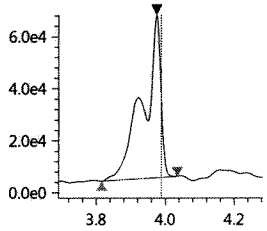
PFPeA-13C_IS
Conc 5.0000
RT 3.974 Area 42160
ISTD 267.90>223.00 1.28e4



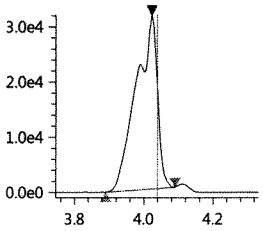
PFPeA-13C
Conc 0.1991
RT 3.974 Area 42160
Q 267.90>223.00 1.28e4



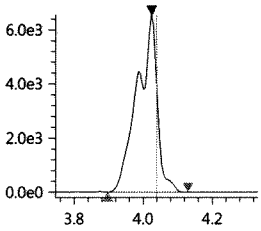
PFPeA
Conc 9.5435
RT 3.974 Area 219240
Q 263.05>219.10 6.84e4



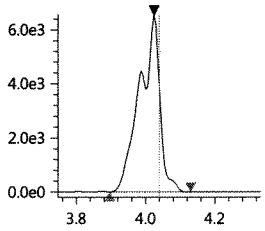
PFBS_1
Conc 29.0928
RT 4.024 Area 135862
Q 299.00>80.00 3.22e4



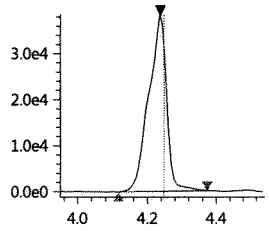
PFBS-13C
Conc 0.1943
RT 4.024 Area 26584
Q 301.80>80.00 6.57e3



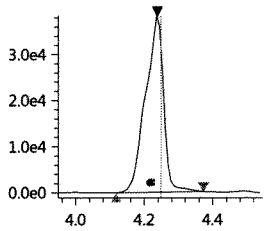
PFBS-13C_IS
Conc 5.0000
RT 4.024 Area 26584
ISTD 301.80>80.00 6.57e3



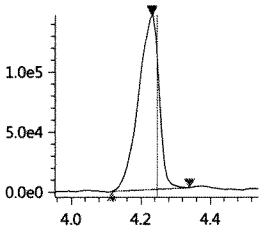
PFHxA-13C_IS
Conc 5.0000
RT 4.237 Area 139041
ISTD 314.90>270.10 3.86e4



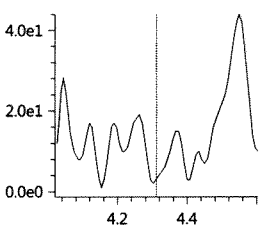
PFHxA-13C
Conc 0.2202
RT 4.237 Area 139041
Q 314.90>270.10 3.86e4



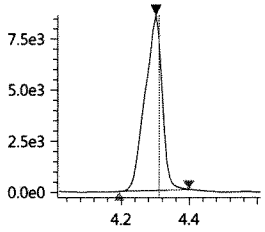
PFHxA
Conc 26.3757
RT 4.233 Area 601228
Q 313.00>269.00 1.48e5



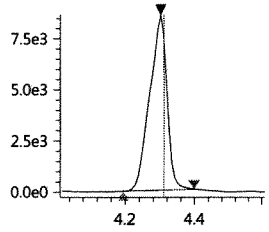
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 4.40e1



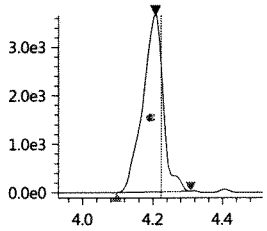
HFPO_DA-13C_IS
Conc 5.0000
RT 4.301 Area 29748
ISTD 332.00>286.80 8.69e3



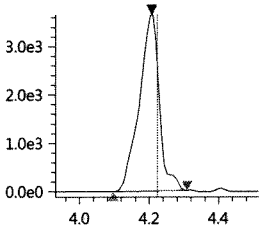
HFPO_DA-13C
Conc 0.1835
RT 4.301 Area 29748
Q 332.00>286.80 8.69e3



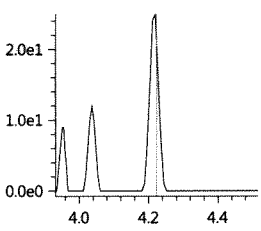
4_2-FTS-13C_IS
Conc 5.0000
RT 4.207 Area 14621
ISTD 328.80>309.05 3.67e3



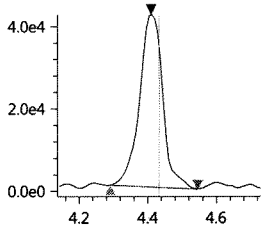
4_2-FTS-13C
Conc 0.1899
RT 4.207 Area 14621
Q 328.80>309.05 3.67e3



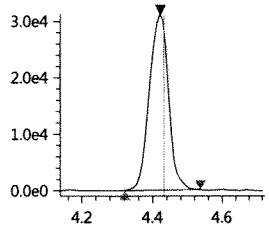
4_2-FTS_1
Conc ----
RT ---- Area ----
Q 327.00>307.05 2.50e1



PFHpA
Conc 8.7913
RT 4.410 Area 196585
Q 362.90>319.00 4.29e4



PFHpA-13C_IS
Conc 5.0000
RT 4.421 Area 118525
ISTD 366.90>322.10 3.13e4



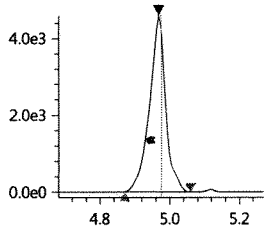
MJ 7/31/17

Before 141

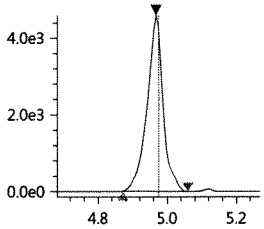
Insight Report

Printed at 7/30/2017 1:18:39 PM

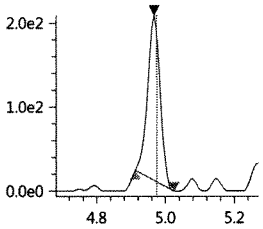
8_2-FTS-13C_IS
Conc 5.0000
RT 4.968 Area 14706
ISTD 528.80>509.00 4.60e3



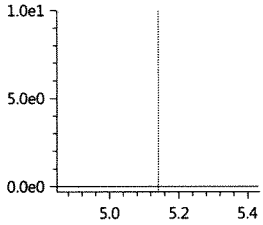
8_2-FTS-13C
Conc 0.2741
RT 4.968 Area 14706
Q 528.80>509.00 4.60e3



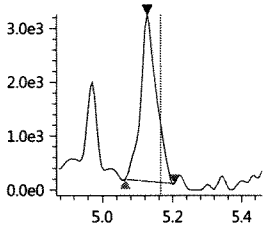
8_2-FTS_1
Conc 0.1704
RT 4.967 Area 507
Q 526.90>506.90 2.10e2



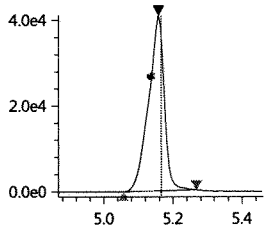
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 0.00e0



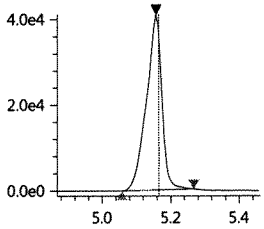
PFUnA
Conc 0.4248
RT 5.127 Area 9897
Q 563.00>518.90 3.26e3



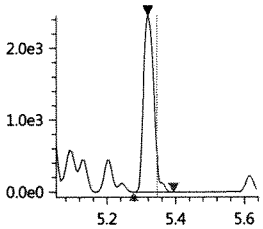
PFUnA-13C_IS
Conc 5.0000
RT 5.157 Area 127577
ISTD 564.80>519.95 4.12e4



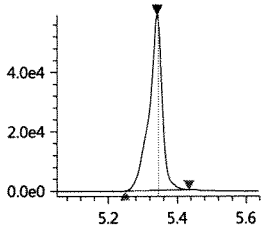
PFUnA-13C
Conc 0.1787
RT 5.157 Area 127577
Q 564.80>519.95 4.12e4



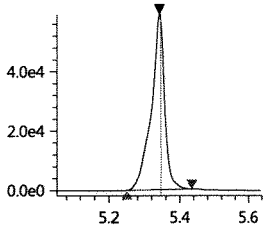
PFDoA
Conc 0.3057
RT 5.319 Area 5180
Q 613.05>569.00 2.45e3



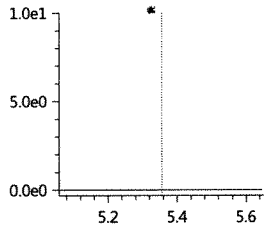
PFDoA-13C
Conc 0.1707
RT 5.342 Area 156079
Q 614.80>569.95 5.94e4



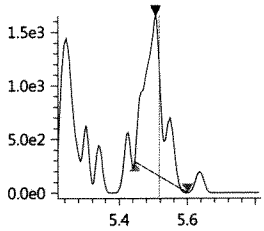
PFDoA-13C_IS
Conc 5.0000
RT 5.342 Area 156079
ISTD 614.80>569.95 5.94e4



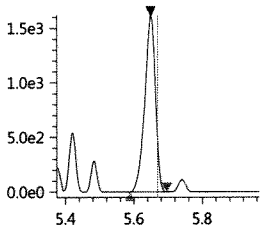
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



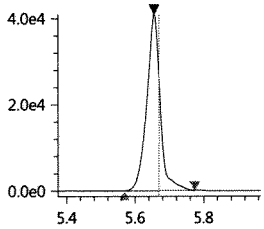
PFTrDA
Conc 0.2400
RT 5.507 Area 5428
Q 663.00>618.90 1.65e3



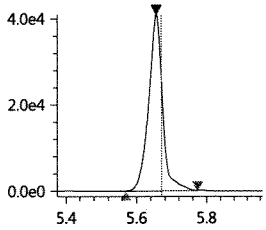
PFTeDA
Conc 0.2637
RT 5.650 Area 3547
Q 713.40>669.00 1.62e3



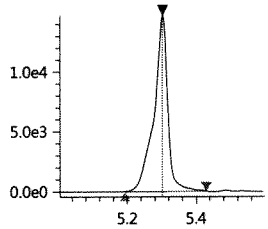
PFTeDA-13C
Conc 0.1785
RT 5.656 Area 111675
Q 714.70>669.90 4.10e4



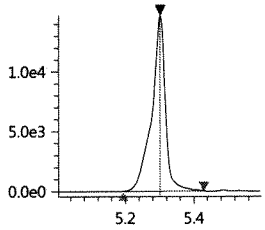
PFTeDA-13C_IS
Conc 5.0000
RT 5.656 Area 111675
ISTD 714.70>669.90 4.10e4



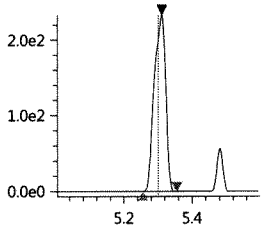
FOSA-13C_IS
Conc 5.0000
RT 5.302 Area 40720
ISTD 506.00>78.05 1.48e4



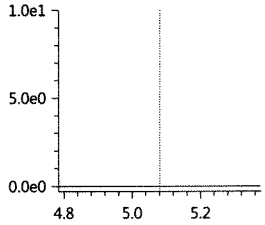
FOSA-13C
Conc 0.1607
RT 5.302 Area 40720
Q 506.00>78.05 1.48e4



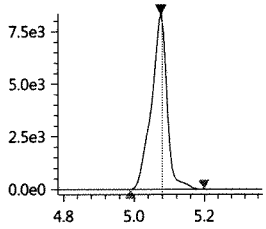
FOSA
Conc 0.0462
RT 5.312 Area 551
Q 498.00>78.00 2.33e2



N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 0.00e0



N-MeFOSAA-d3
Conc 0.1765
RT 5.075 Area 25198
Q 572.80>419.05 8.38e3



Validation Report

Data File: J:\LCMS06\Data\072617_b2\072617_124
Lab ID: K1707681-009
RunType: N/A
Matrix: Water

Date Acquired: 7/26/17 13:14
Batch ID: 555050
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Lab Control Sample Recovery		X
Duplicate Lab Control Sample Recovery		X
Method Blank	X	
Method Blank Surrogates		X
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-6:2 FTS	185	70	130	Normale-native
	13C2-8:2 FTS	169	70	130	
Lab Control Sample Recovery	Perfluorohexane sulfonic acid (PFHxS)	61	71	130	RR to confirm
	Perfluoroheptane sulfonic acid (PFHpS)	66	69	148	
	Perfluorooctane sulfonic acid (PFOS)	69	74	135	
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	73	74	132	
	Perfluorodecane sulfonic acid (PFDS)	61	69	128	
Duplicate Lab Control Sample Recovery	Perfluorohexane sulfonic acid (PFHxS)	66	71	130	
	Perfluorooctane sulfonic acid (PFOS)	70	74	135	
	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	64	69	146	
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	68	74	132	
	Perfluorodecane sulfonic acid (PFDS)	59	69	128	
Method Blank Surrogates	13C2-8:2 FTS	161	50	150	Normale ↑ bias, ND
Surrogates	13C2-8:2 FTS	166	50	150	

Primary Review: JT 7/27/17
JUL 2 7 2017
Secondary Review: [signature]

Printed: 7/27/17 9:27
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072617_b2\072617_124	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 13:14	**Vial:**	8
Run Type:	N/A	**Dilution:**	1
Lab ID:	K1707681-009	**Raw Units:**	ng/mL

Bottle ID:	K1707681-009.01	**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	555050	**Prep Lot:**	293672	**Report Group:**	K1707681
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	7/25/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.694	360774	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.412	2505948	6.2029	124	19 - 126	Y
13C2-PFHxA	4.244	3230016	5.6953	114	10 - 151	Y
18O2-PFHxS	4.432	422871	5.0364	101	20 - 128	Y
13C2-6:2 FTS	4.599	463491	8.4408	169	10 - 187	Y
13C4-PFOA	4.608	4442754	6.0495	121	13 - 142	Y
13C5-PFNA	4.788	3330496	5.0529	101	15 - 143	Y
13C4-PFOS	4.772	441057	4.8121	96	11 - 131	Y
13C2-PFDA	4.976	2906842	5.3411	107	25 - 129	Y
13C2-PFUnDA	5.163	3181976	4.9118	98	16 - 129	Y
13C2-PFDoDA	5.346	3895458	4.7473	95	17 - 114	Y
D7-MeFOSE	5.668	356059	3.7625	75	32 - 113	Y
D9-EtFOSE	5.801	354538	3.1065	62	20 - 113	Y
D5-EtFOSA	5.833	371289	3.8079	76	↑ 19 - 103	Y
13C2-8:2 FTS	4.975	411049	8.3085	166	* NB 50 - 150	Y
13C2-PFTeDA	5.662	2726592	4.1089	82	50 - 150	Y
13C4-PFHpA	4.434	2906652	5.0820	102	50 - 150	Y
13C5-PFPeA	3.981	1058733	5.2998	106	50 - 150	Y
13C3-PFBS	4.031	532630	3.7787	76	50 - 150	Y
13C8-FOSA	5.307	942879	3.7867	76	50 - 150	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.415	12517	0.0194	0.52	U	Y
Perfluoropentanoic acid (PFPeA)	3.981	63430	0.0110	0.30	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 9:27

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072617_b2\072617_124	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 13:14	**Vial:**	8
Run Type:	N/A	**Dilution:**	1
Lab ID:	K1707681-009	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	0	0	0	0	U	Y
Perfluorohexanoic acid (PFHxA)	4.239	25261	0.0029	0.078	U	Y
Perfluoroheptanoic acid (PFHpA)	4.428	18620	0.0292	0.79	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.432	3255	0.0277	0.75	U	Y
Perfluorooctanoic acid (PFOA)	4.604	20072	0.0179	0.48	U	Y
Perfluoroheptane sulfonic acid (PFHpS)	0	0	0	0	U	Y
Perfluorononanoic acid (PFNA)	4.782	13153	0.0179	0.48	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.773	966	0.0135	0.36	U	Y
Perfluorodecanoic acid (PFDA)	4.970	10641	0.0134	0.36	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.160	18789	0.0256	0.69	U	Y
Perfluorooctane sulfonamide (FOSA)	5.302	580	0.0020	0.054	U	Y
Perfluorododecanoic acid (PFDoDA)	5.345	5376	0.0106	0.29	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.511	5989	0.0110	0.30	U	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.698	459	0.0053	0.14	U	Y
N-Methyl perfluorooctane sulfonamidoethanol	0	0	0	0	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.662	37073	0.0378	1.0	U	Y
N-Ethyl perfluorooctane sulfonamidoethanol	0	0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0	0	0	0	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.973	137	0.0017	0.046	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0	0	0	0	U	Y
Perfluorodecane sulfonic acid (PFDS)	0	0	0	0	U	Y

Prep Amount:	148.0000 mL	**Dilution:**	1
Prep Final Amount:	4.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 9:27

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072617_124

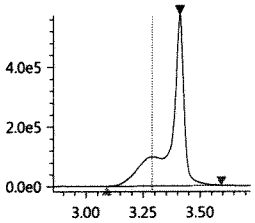
Sample ID: K1707681-009
Date acquired: 7/26/2017 1:14:42 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b2\072617_124.lcd
Vial: 15 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.412	2505948	2505948	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.412	2505948	360774	1	6.2029	ng/mL	----	----	Auto
PFBA	3.415	12517	2505948	2	0.0194	ng/mL	----	----	M
PFPeA-13C_IS	3.981	1058733	1058733	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.981	1058733	360774	1	5.2998	ng/mL	----	----	Auto
PFPeA	3.981	63430	1058733	4	0.0110	ng/mL	----	----	Auto
PFBS_1	----	----	----	16	----	ng/mL	----	----	ND(W/B)
PFBS-13C	4.031	532630	360774	1	3.7787	ng/mL	----	----	Auto
PFBS-13C_IS	4.031	532630	532630	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.244	3230016	3230016	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.244	3230016	360774	1	5.6953	ng/mL	----	----	Auto
PFHxA	4.239	25261	3230016	6	0.0029	ng/mL	----	----	Auto
HPFO_DA	----	----	----	3	----	ng/mL	----	----	NI
HFPO_DA-13C_IS	4.310	593911	593911	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.310	593911	360774	1	4.2246	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.217	469490	469490	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.217	469490	360774	1	5.1242	ng/mL	----	----	Auto
4_2-FTS_1	4.225	791	469490	5	0.0066	ng/mL	----	----	Auto
PFHpA	4.428	18620	2906652	8	0.0292	ng/mL	----	----	Auto
PFHpA-13C_IS	4.434	2906652	2906652	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.434	2906652	360774	1	5.0820	ng/mL	----	----	Auto
PFHxS-18O_IS	4.432	422871	422871	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.432	422871	360774	1	5.0364	ng/mL	----	----	Auto
PFHxS_1	4.432	3255	422871	7	0.0277	ng/mL	----	----	M
6_2-FTS-13C	4.599	463491	360774	1	8.4408	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.599	463491	463491	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	----	----	----	10	----	ng/mL	----	----	NI
PFHpS_1	----	----	----	7	----	ng/mL	----	----	ND(W/B)
PFOA-13C_IS	4.608	4442754	4442754	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.608	4442754	360774	1	6.0495	ng/mL	----	----	Auto
PFOA	4.604	20072	4442754	9	0.0179	ng/mL	----	----	Auto
PFOS_1	4.773	966	441057	13	0.0135	ng/mL	----	----	M
PFOS-13C_IS	4.772	441057	441057	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.772	441057	360774	1	4.8121	ng/mL	----	----	Auto
PFNA-13C_IS	4.788	3330496	3330496	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.788	3330496	360774	1	5.0529	ng/mL	----	----	Auto
PFNA	4.782	13153	3330496	11	0.0179	ng/mL	----	----	M
PFDA-13C_IS	4.976	2906842	2906842	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.976	2906842	360774	1	5.3411	ng/mL	----	----	Auto
PFDA	4.970	10641	2906842	12	0.0134	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.975	411049	411049	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.975	411049	360774	1	8.3085	ng/mL	----	----	Auto
8_2-FTS_1	4.973	137	411049	15	0.0017	ng/mL	----	----	Auto
PFDS_1	----	----	----	13	----	ng/mL	----	----	NI
PFUnA	5.160	18789	3181976	14	0.0256	ng/mL	----	----	Auto
PFUnA-13C_IS	5.163	3181976	3181976	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.163	3181976	360774	1	4.9118	ng/mL	----	----	Auto
PFDoA	5.345	5376	3895458	17	0.0106	ng/mL	----	----	Auto
PFDoA-13C	5.346	3895458	360774	1	4.7473	ng/mL	----	----	Auto
PFDoA-13C_IS	5.346	3895458	3895458	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	----	----	----	15	----	ng/mL	----	----	ND(W/B)
PFTrDA	5.511	5989	2726592	22	0.0110	ng/mL	----	----	Auto
PFTeDA	5.662	37073	2726592	22	0.0378	ng/mL	----	----	Auto
PFTeDA-13C	5.662	2726592	360774	1	4.1089	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.662	2726592	2726592	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.307	942879	942879	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.307	942879	360774	1	3.7867	ng/mL	----	----	Auto
FOSA	5.302	580	942879	18	0.0020	ng/mL	----	----	Auto
N-MeFOSAA	----	----	----	19	----	ng/mL	----	----	ND(W/B)
N-MeFOSAA-d3	5.082	712709	360774	1	4.4197	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.082	712709	712709	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.694	360774	360774	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.698	459	356059	20	0.0053	ng/mL	----	----	Auto
N-MeFOSE-d7	5.668	356059	360774	1	3.7625	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.668	356059	356059	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	----	----	----	20	----	ng/mL	----	----	NI
N-EtFOSAA	----	----	----	21	----	ng/mL	----	----	ND(W/B)

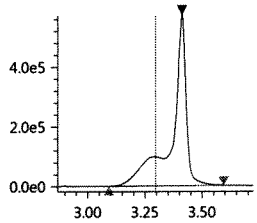
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.181	676622	676622	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.181	676622	360774	1	4.6253	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.833	371289	371289	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.833	371289	360774	1	3.8079	ng/mL	----	----	Auto
N-EtFOSA	----	----	----	23	----	ng/mL	----	----	NI
N-EtFOSE-d9_IS	5.801	354538	354538	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.801	354538	360774	1	3.1065	ng/mL	----	----	Auto
N-EtFOSE	----	----	----	24	----	ng/mL	----	----	NI

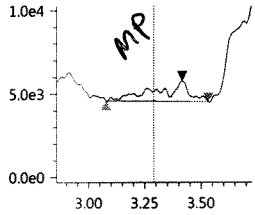
PFBA-13C_IS
Conc 5.0000
RT 3.412 Area 2505948
ISTD 216.90>172.15 5.75e5



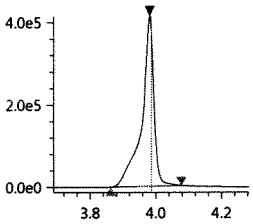
PFBA-13C
Conc 6.2029
RT 3.412 Area 2505948
Q 216.90>172.15 5.75e5



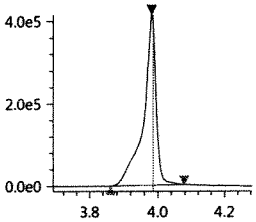
PFBA
Conc 0.0194
RT 3.415 Area 12517
Q 213.00>169.10 1.03e4



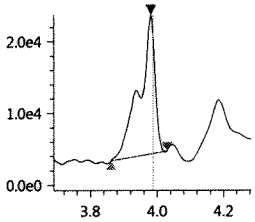
PFPeA-13C_IS
Conc 5.0000
RT 3.981 Area 1058733
ISTD 267.90>223.00 4.16e5



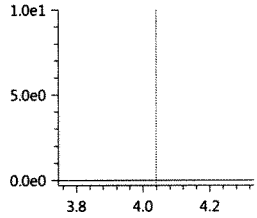
PFPeA-13C
Conc 5.2998
RT 3.981 Area 1058733
Q 267.90>223.00 4.16e5



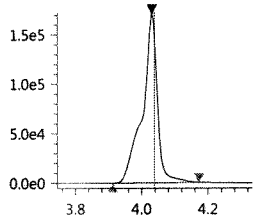
PFPeA
Conc 0.0110
RT 3.981 Area 63430
Q 263.05>219.10 2.38e4



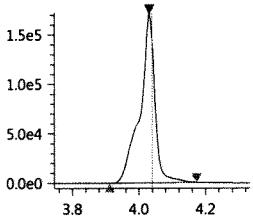
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 0.00e0



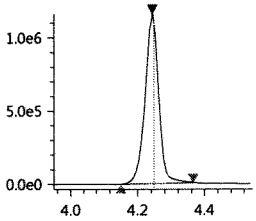
PFBS-13C
Conc 3.7787
RT 4.031 Area 532630
Q 301.80>80.00 1.72e5



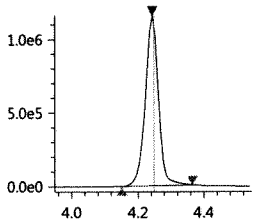
PFBS-13C_IS
Conc 5.0000
RT 4.031 Area 532630
ISTD 301.80>80.00 1.72e5



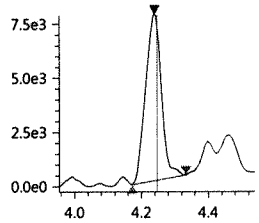
PFHxA-13C_IS
Conc 5.0000
RT 4.244 Area 3230016
ISTD 314.90>270.10 1.16e6



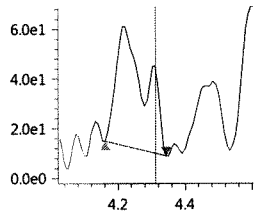
PFHxA-13C
Conc 5.6953
RT 4.244 Area 3230016
Q 314.90>270.10 1.16e6



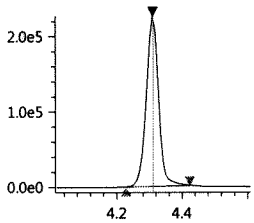
PFHxA
Conc 0.0029
RT 4.239 Area 25261
Q 313.00>269.00 7.92e3



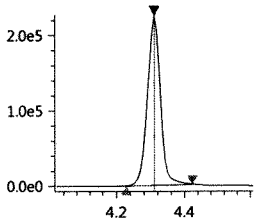
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 6.90e1



HFPO_DA-13C_IS
Conc 5.0000
RT 4.310 Area 593911
ISTD 332.00>286.80 2.27e5



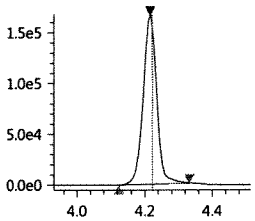
HFPO_DA-13C
Conc 4.2246
RT 4.310 Area 593911
Q 332.00>286.80 2.27e5



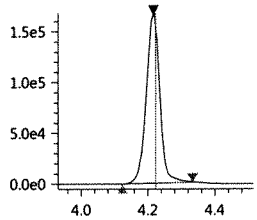
JUL 27 2017

JT

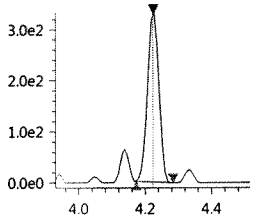
4_2-FTS-13C_IS
Conc 5.0000
RT 4.217 Area 469490
ISTD 328.80>309.05 1.68e5



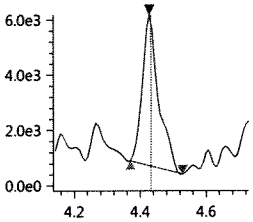
4_2-FTS-13C
Conc 5.1242
RT 4.217 Area 469490
Q 328.80>309.05 1.68e5



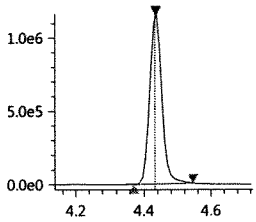
4_2-FTS_1
Conc 0.0066
RT 4.225 Area 791
Q 327.00>307.05 3.35e2



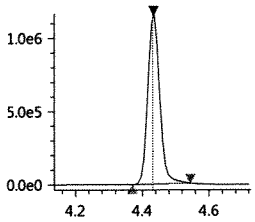
PFHpA
Conc 0.0292
RT 4.428 Area 18620
Q 362.90>319.00 6.19e3



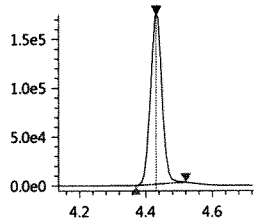
PFHpA-13C_IS
Conc 5.0000
RT 4.434 Area 2906652
ISTD 366.90>322.10 1.17e6



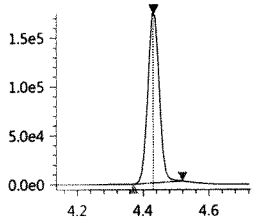
PFHpA-13C
Conc 5.0820
RT 4.434 Area 2906652
Q 366.90>322.10 1.17e6



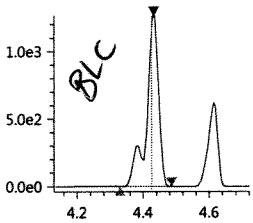
PFHxS-18O_IS
Conc 5.0000
RT 4.432 Area 422871
ISTD 402.70>84.05 1.75e5



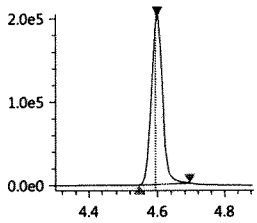
PFHxS-18O
Conc 5.0364
RT 4.432 Area 422871
Q 402.70>84.05 1.75e5



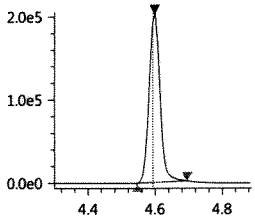
PFHxS_1
Conc 0.0277
RT 4.432 Area 3255
Q 399.00>80.00 1.27e3



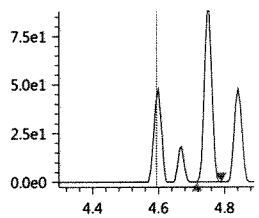
6_2-FTS-13C
Conc 8.4408
RT 4.599 Area 463491
Q 428.90>409.00 2.06e5



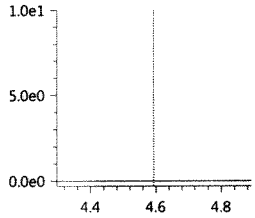
6_2-FTS-13C_IS
Conc 5.0000
RT 4.599 Area 463491
ISTD 428.90>409.00 2.06e5



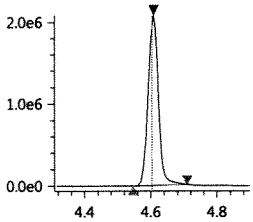
6_2-FTS_1
Conc ----
RT ---- Area ----
Q 427.00>407.00 8.80e1



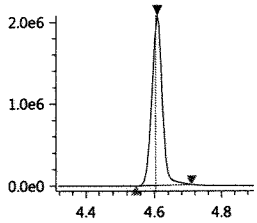
PFHpS_1
Conc ----
RT ---- Area ----
Q 449.00>80.15 0.00e0



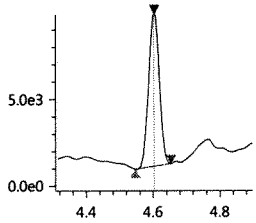
PFOA-13C_IS
Conc 5.0000
RT 4.608 Area 4442754
ISTD 416.80>372.05 2.09e6



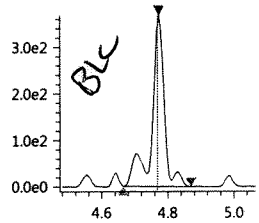
PFOA-13C
Conc 6.0495
RT 4.608 Area 4442754
Q 416.80>372.05 2.09e6



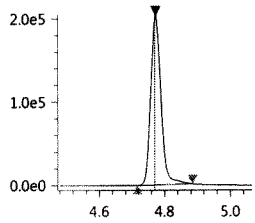
PFOA
Conc 0.0179
RT 4.604 Area 20072
Q 413.00>369.00 9.88e3



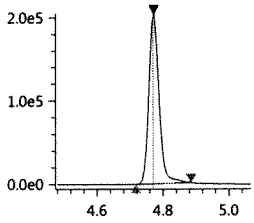
PFOS_1
Conc 0.0135
RT 4.773 Area 966
Q 499.00>80.00 3.68e2



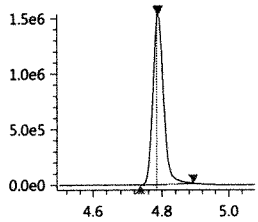
PFOS-13C_IS
Conc 5.0000
RT 4.772 Area 441057
ISTD 502.80>80.05 2.05e5



PFOS-13C
Conc 4.8121
RT 4.772 Area 441057
Q 502.80>80.05 2.05e5



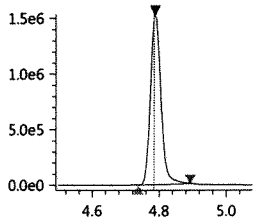
PFNA-13C_IS
Conc 5.0000
RT 4.788 Area 3330496
ISTD 467.80>423.00 1.54e6



JUL 27 2017

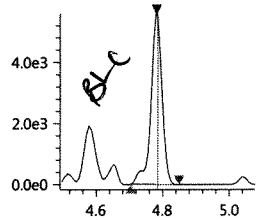
JT

PFNA-13C
Conc 5.0529
RT 4.788 Area 3330496
Q 467.80>423.00 1.54e6

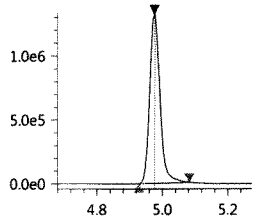


PFNA
Conc 0.0179
RT 4.782 Area 13153
Q 463.00>418.90 5.59e3

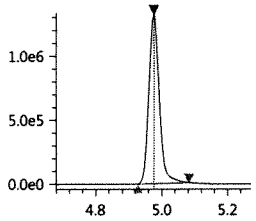
BLC



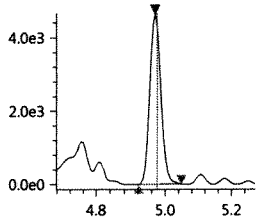
PFDA-13C_IS
Conc 5.0000
RT 4.976 Area 2906842
ISTD 514.80>469.95 1.34e6



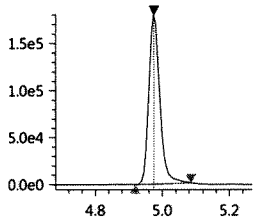
PFDA-13C
Conc 5.3411
RT 4.976 Area 2906842
Q 514.80>469.95 1.34e6



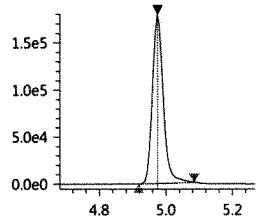
PFDA
Conc 0.0134
RT 4.970 Area 10641
Q 513.00>468.80 4.66e3



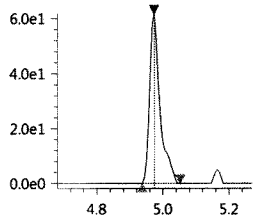
8_2-FTS-13C_IS
Conc 5.0000
RT 4.975 Area 411049
ISTD 528.80>509.00 1.81e5



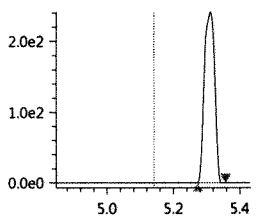
8_2-FTS-13C
Conc 8.3085
RT 4.975 Area 411049
Q 528.80>509.00 1.81e5



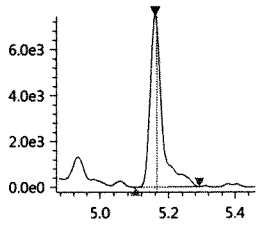
8_2-FTS_1
Conc 0.0017
RT 4.973 Area 137
Q 526.90>506.90 6.20e1



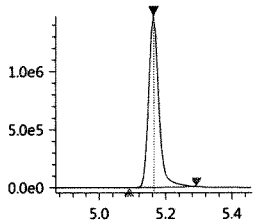
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 2.41e2



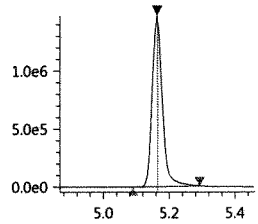
PFUnA
Conc 0.0256
RT 5.160 Area 18789
Q 563.00>518.90 7.43e3



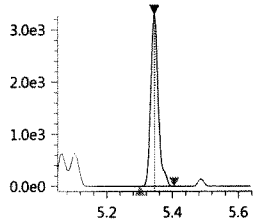
PFUnA-13C_IS
Conc 5.0000
RT 5.163 Area 3181976
ISTD 564.80>519.95 1.48e6



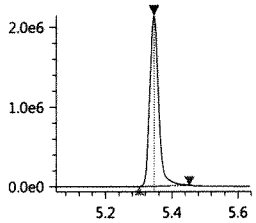
PFUnA-13C
Conc 4.9118
RT 5.163 Area 3181976
Q 564.80>519.95 1.48e6



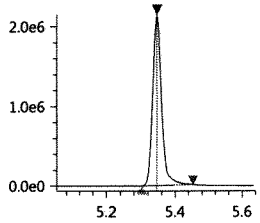
PFDoA
Conc 0.0106
RT 5.345 Area 5376
Q 613.05>569.00 3.29e3



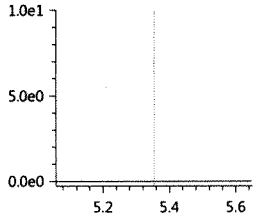
PFDoA-13C
Conc 4.7473
RT 5.346 Area 3895458
Q 614.80>569.95 2.15e6



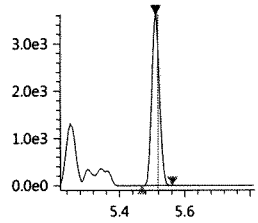
PFDoA-13C_IS
Conc 5.0000
RT 5.346 Area 3895458
ISTD 614.80>569.95 2.15e6



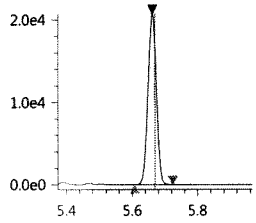
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



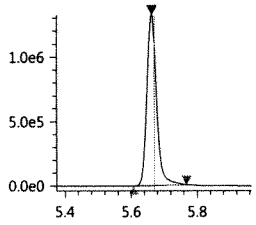
PFTrDA
Conc 0.0110
RT 5.511 Area 5989
Q 663.00>618.90 3.62e3



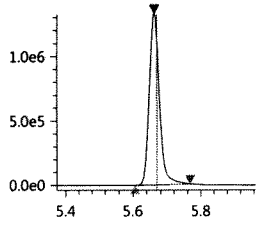
PFTeDA
Conc 0.0378
RT 5.662 Area 37073
Q 713.40>669.00 2.08e4



PFTeDA-13C
Conc 4.1089
RT 5.662 Area 2726592
Q 714.70>669.90 1.32e6

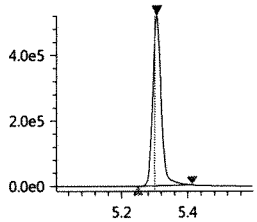


PFTeDA-13C_IS
Conc 5.0000
RT 5.662 Area 2726592
ISTD 714.70>669.90 1.32e6

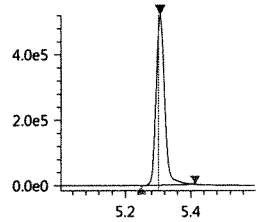


JUL 27 2017

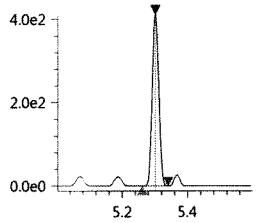
FOSA-13C_IS
Conc 5.0000
RT 5.307 Area 942879
ISTD 506.00>78.05 5.22e5



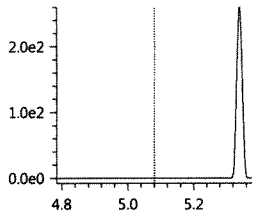
FOSA-13C
Conc 3.7867
RT 5.307 Area 942879
Q 506.00>78.05 5.22e5



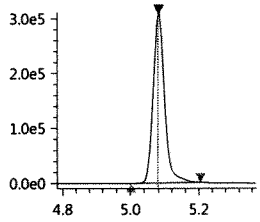
FOSA
Conc 0.0020
RT 5.302 Area 580
Q 498.00>78.00 4.10e2



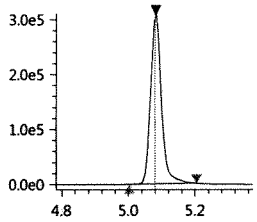
N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 2.60e2



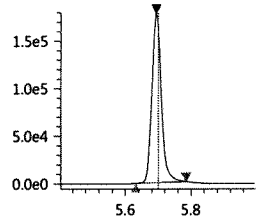
N-MeFOSAA-d3
Conc 4.4197
RT 5.082 Area 712709
Q 572.80>419.05 3.12e5



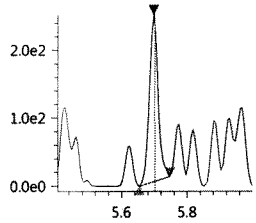
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.082 Area 712709
ISTD 572.80>419.05 3.12e5



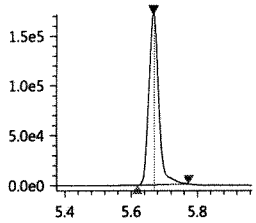
N-MeFOSA_IS
Conc 5.0000
RT 5.694 Area 360774
ISTD 514.90>168.90 1.80e5



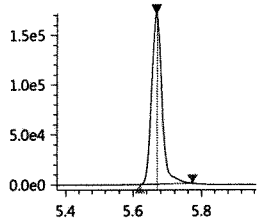
N-MeFOSA
Conc 0.0053
RT 5.698 Area 459
Q 512.00>169.10 2.52e2



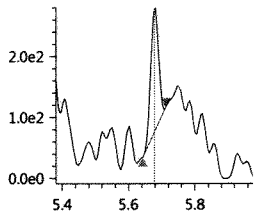
N-MeFOSE-d7
Conc 3.7625
RT 5.668 Area 356059
Q 622.70>59.10 1.72e5



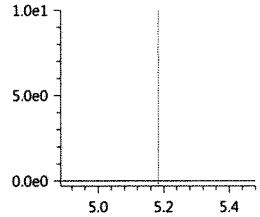
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.668 Area 356059
ISTD 622.70>59.10 1.72e5



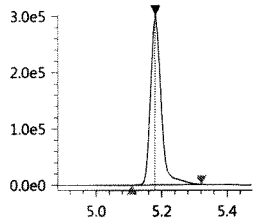
N-MeFOSE
Conc ----
RT ---- Area ----
Q 616.00>59.00 2.80e2



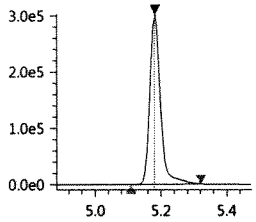
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 0.00e0



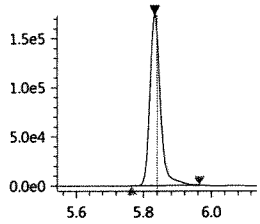
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.181 Area 676622
ISTD 588.80>419.00 3.03e5



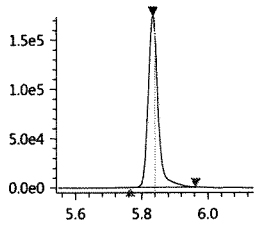
N-EtFOSAA-d5
Conc 4.6253
RT 5.181 Area 676622
Q 588.80>419.00 3.03e5



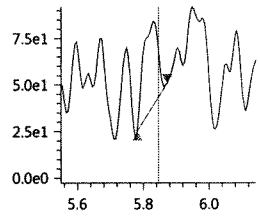
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.833 Area 371289
ISTD 530.90>169.15 1.74e5



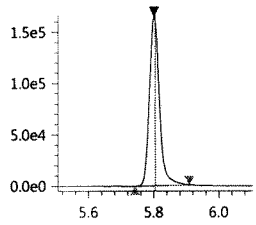
N-EtFOSA-d9
Conc 3.8079
RT 5.833 Area 371289
Q 530.90>169.15 1.74e5



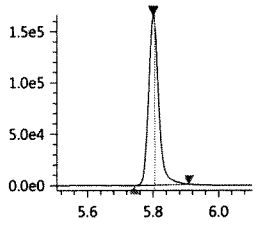
N-EtFOSA
Conc ----
RT ---- Area ----
Q 526.90>169.10 9.20e1



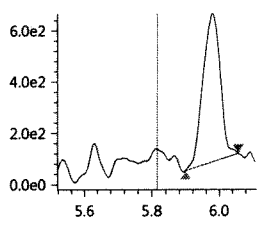
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.801 Area 354538
ISTD 638.70>59.10 1.67e5



N-EtFOSE-d9
Conc 3.1065
RT 5.801 Area 354538
Q 638.70>59.10 1.67e5



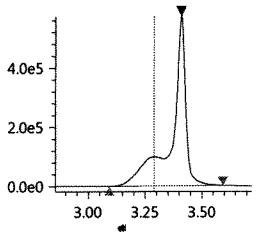
N-EtFOSE
Conc ----
RT ---- Area ----
Q 630.00>58.90 6.68e2



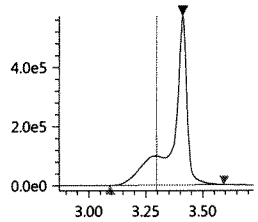
072617_124

Sample ID: K1707681-009
Date acquired: 7/26/2017 1:14:42 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b2\072617_124.lcd
Vial: 15 | Inj. Volume: 15.0000uL | Tray: 2

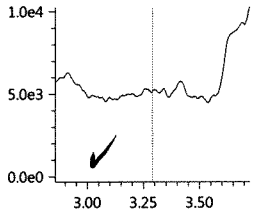
PFBA-13C_IS
Conc 5.0000
RT 3.412 Area 2505948
ISTD 216.90>172.15 5.75e5



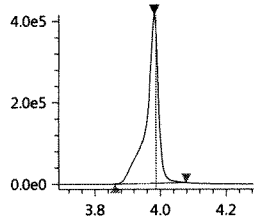
PFBA-13C
Conc 6.2029
RT 3.412 Area 2505948
Q 216.90>172.15 5.75e5



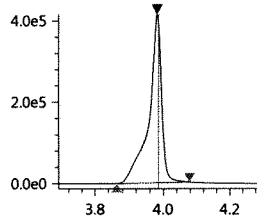
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 1.03e4



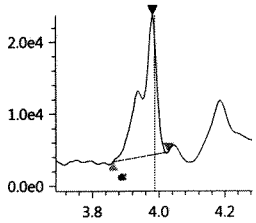
PFPeA-13C_IS
Conc 5.0000
RT 3.981 Area 1058733
ISTD 267.90>223.00 4.16e5



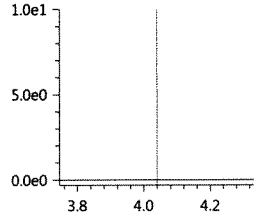
PFPeA-13C
Conc 5.2998
RT 3.981 Area 1058733
Q 267.90>223.00 4.16e5



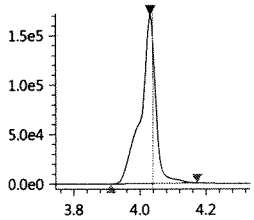
PFPeA
Conc 0.0110
RT 3.981 Area 63430
Q 263.05>219.10 2.38e4



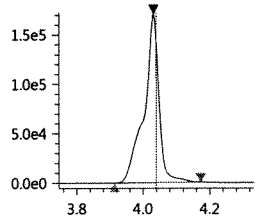
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 0.00e0



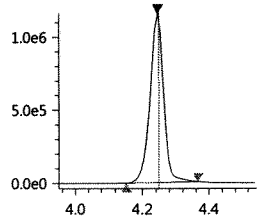
PFBS-13C
Conc 3.7787
RT 4.031 Area 532630
Q 301.80>80.00 1.72e5



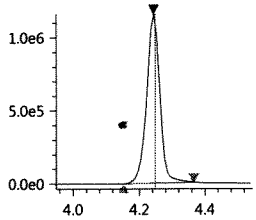
PFBS-13C_IS
Conc 5.0000
RT 4.031 Area 532630
ISTD 301.80>80.00 1.72e5



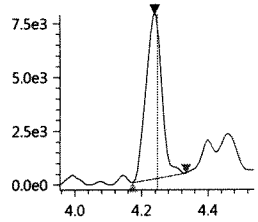
PFHxA-13C_IS
Conc 5.0000
RT 4.244 Area 3230016
ISTD 314.90>270.10 1.16e6



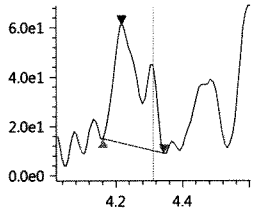
PFHxA-13C
Conc 5.6953
RT 4.244 Area 3230016
Q 314.90>270.10 1.16e6



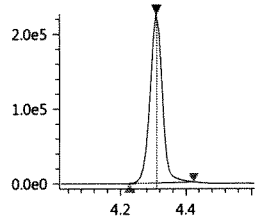
PFHxA
Conc 0.0029
RT 4.239 Area 25261
Q 313.00>269.00 7.92e3



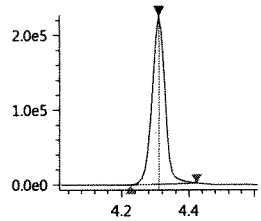
HPFO_DA
Conc 0.0026
RT 4.217 Area 290
Q 329.00>169.00 6.90e1



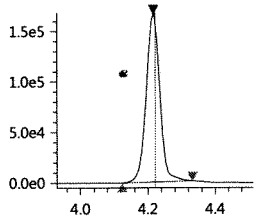
HFPO_DA-13C_IS
Conc 5.0000
RT 4.310 Area 593911
ISTD 332.00>286.80 2.27e5



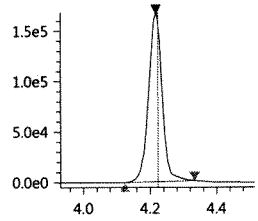
HFPO_DA-13C
Conc 4.2246
RT 4.310 Area 593911
Q 332.00>286.80 2.27e5



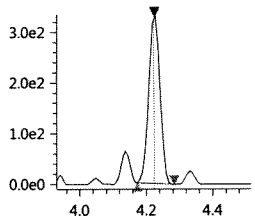
4_2-FTS-13C_IS
Conc 5.0000
RT 4.217 Area 469490
ISTD 328.80>309.05 1.68e5



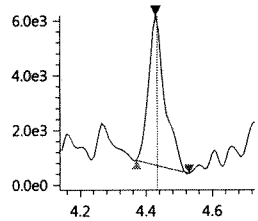
4_2-FTS-13C
Conc 5.1242
RT 4.217 Area 469490
Q 328.80>309.05 1.68e5



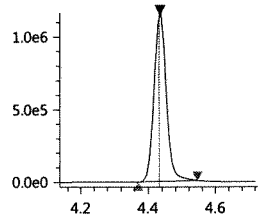
4_2-FTS_1
Conc 0.0066
RT 4.225 Area 791
Q 327.00>307.05 3.35e2



PFHpA
Conc 0.0292
RT 4.428 Area 18620
Q 362.90>319.00 6.19e3

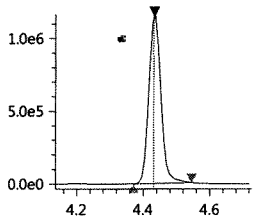


PFHpA-13C_IS
Conc 5.0000
RT 4.434 Area 2906652
ISTD 366.90>322.10 1.17e6

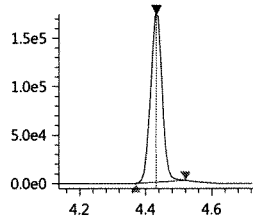


JUL 27 2017

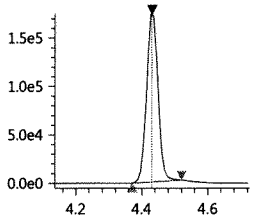
PFHpA-13C
Conc 5.0820
RT 4.434 Area 2906652
Q 366.90>322.10 1.17e6



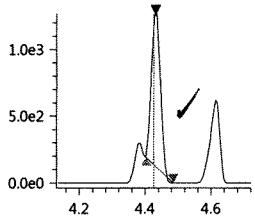
PFHxS-18O_IS
Conc 5.0000
RT 4.432 Area 422871
ISTD 402.70>84.05 1.75e5



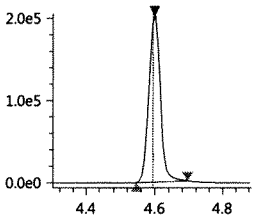
PFHxS-18O
Conc 5.0364
RT 4.432 Area 422871
Q 402.70>84.05 1.75e5



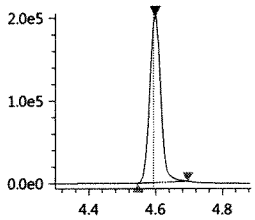
PFHxS_1
Conc 0.0186
RT 4.432 Area 2181
Q 399.00>80.00 1.27e3



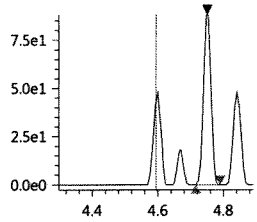
6_2-FTS-13C
Conc 8.4408
RT 4.599 Area 463491
Q 428.90>409.00 2.06e5



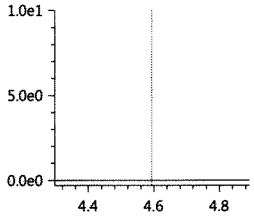
6_2-FTS-13C_IS
Conc 5.0000
RT 4.599 Area 463491
ISTD 428.90>409.00 2.06e5



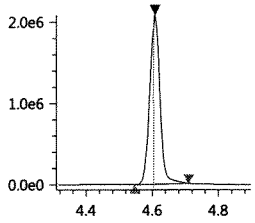
6_2-FTS_1
Conc 0.0012
RT 4.750 Area 144
Q 427.00>407.00 8.80e1



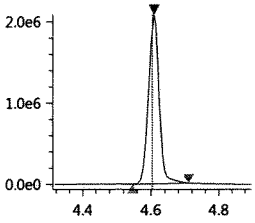
PFHpS_1
Conc ----
RT ---- Area ----
Q 449.00>80.15 0.00e0



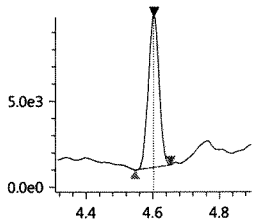
PFOA-13C_IS
Conc 5.0000
RT 4.608 Area 4442754
ISTD 416.80>372.05 2.09e6



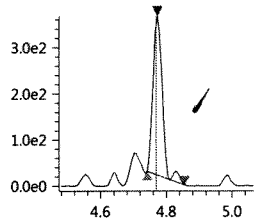
PFOA-13C
Conc 6.0495
RT 4.608 Area 4442754
Q 416.80>372.05 2.09e6



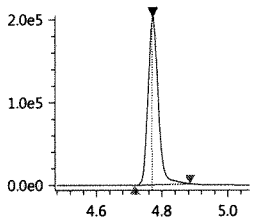
PFOA
Conc 0.0179
RT 4.604 Area 20072
Q 413.00>369.00 9.88e3



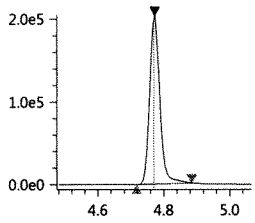
PFOS_1
Conc 0.0095
RT 4.773 Area 676
Q 499.00>80.00 3.68e2



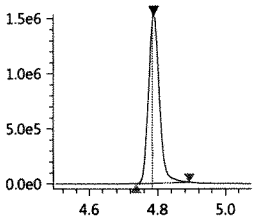
PFOS-13C_IS
Conc 5.0000
RT 4.772 Area 441057
ISTD 502.80>80.05 2.05e5



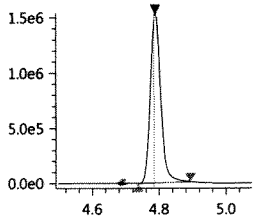
PFOS-13C
Conc 4.8121
RT 4.772 Area 441057
Q 502.80>80.05 2.05e5



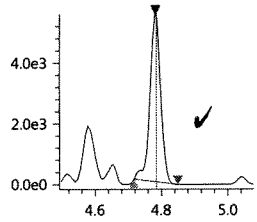
PFNA-13C_IS
Conc 5.0000
RT 4.788 Area 3330496
ISTD 467.80>423.00 1.54e6



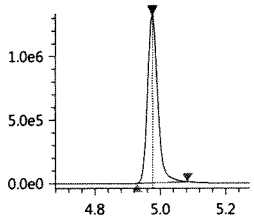
PFNA-13C
Conc 5.0529
RT 4.788 Area 3330496
Q 467.80>423.00 1.54e6



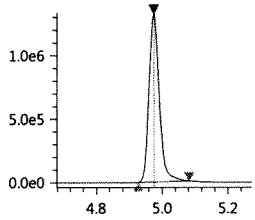
PFNA
Conc 0.0170
RT 4.782 Area 12461
Q 463.00>418.90 5.59e3



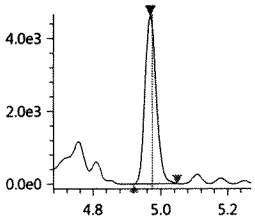
PFDA-13C_IS
Conc 5.0000
RT 4.976 Area 2906842
ISTD 514.80>469.95 1.34e6



PFDA-13C
Conc 5.3411
RT 4.976 Area 2906842
Q 514.80>469.95 1.34e6



PFDA
Conc 0.0134
RT 4.970 Area 10641
Q 513.00>468.80 4.66e3



Validation Report

Data File: J:\LCMS06\Data\072417_b1\072417_108
Lab ID: KQ1709896-04
RunType: MB
Matrix: Soil

Date Acquired: 7/24/17 16:03
Batch ID: 554762
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	Perfluoroheptane sulfonic acid (PFHpS)	132	70	130	↑ bias, ND

Primary Review: JT 7/25/17

JUL 2 5 2017

Secondary Review: [illegible]

Printed: 7/25/17 8:15
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072417_b1\072417_108	**Instrument:**	K-LCMS-06
Acqu Date:	7/24/17 16:03	**Vial:**	2
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ1709896-04	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	PFOA	**Collect Date:**	7/18/17	**Receive Date:**	7/19/17

Analysis Lot:	554762	**Prep Lot:**	293302	**Report Group:**	KQ1709896
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3550B		
		Prep Date:	7/24/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.696	466820	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.411	1947850	3.7262	75	50 - 150	Y
13C2-PFHxA	4.245	3256709	4.4379	89	50 - 150	Y
18O2-PFHxS	4.430	381221	3.5090	70	50 - 150	Y
13C2-6:2 FTS	4.600	247500	3.4834	70	50 - 150	Y
13C4-PFOA	4.611	4106767	4.3217	86	50 - 150	Y
13C5-PFNA	4.789	3460056	4.0569	81	50 - 150	Y
13C4-PFOS	4.774	470760	3.9694	79	50 - 150	Y
13C2-PFDA	4.978	3288876	4.6703	93	50 - 150	Y
13C2-PFUnDA	5.165	4150050	4.9508	99	50 - 150	Y
13C2-PFDoDA	5.348	5089491	4.7935	96	50 - 150	Y
D7-MeFOSE	5.670	494044	4.0347	81	50 - 150	Y
D9-EtFOSE	5.803	516750	3.4992	70	50 - 150	Y
D5-EtFOSA	5.836	476536	3.7771	76	50 - 150	Y
13C2-8:2 FTS	4.977	291954	4.5607	91	50 - 150	Y
13C2-PFTeDA	5.661	3264250	3.8016	76	50 - 150	Y
13C4-PFHpA	4.435	2599778	3.5129	70	50 - 150	Y
13C5-PFPeA	3.982	968209	3.7456	75	50 - 150	Y
13C3-PFBS	4.030	701339	3.8453	77	50 - 150	Y
13C8-FOSA	5.311	1174977	3.6468	73	50 - 150	Y

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.413	23945	0.0478	0.38	J	Y
Perfluoropentanoic acid (PFPeA)	3.983	56751	0.0090	0.072	U	Y

Data File:	J:\LCMS06\Data\072417_b1\072417_108	**Instrument:**	K-LCMS-06
Acqu Date:	7/24/17 16:03	**Vial:**	2
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ1709896-04	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	0	0	0	0	U	Y
Perfluorohexanoic acid (PFHxA)	4.238	21039	-0.0042	0	U	Y
Perfluoroheptanoic acid (PFHpA)	0	0	0	0	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.414	1378	0.0130	0.10	U	Y
Perfluorooctanoic acid (PFOA)	4.604	16600	0.0160	0.13	U	Y
Perfluoroheptane sulfonic acid (PFHpS)	0	0	0	0	U	Y
Perfluorononanoic acid (PFNA)	4.781	3450	0.0045	0.036	U	Y
Perfluorooctane sulfonic acid (PFOS)	0	0	0	0	U	Y
Perfluorodecanoic acid (PFDA)	4.951	11508	0.0128	0.10	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.160	13274	0.0139	0.11	U	Y
Perfluorooctane sulfonamide (FOSA)	5.310	1008	0.0028	0.022	U	Y
Perfluorododecanoic acid (PFDoDA)	5.333	5179	0.0078	0.062	U	Y
Perfluorotridecanoic acid (PFTrDA)	0	0	0	0	U	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.689	827	0.0069	0.055	U	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.669	151	0.0009	0.0072	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.661	37451	0.0178	0.14	U	Y
N-Ethyl perfluorooctane sulfonamidoethanol	0	0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0	0	0	0	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0	0	0	0	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.604	188	0.0029	0.023	U	Y
Perfluorodecane sulfonic acid (PFDS)	0	0	0	0	U	Y

Prep Amount:	1 g	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/25/17 8:15

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072417_108

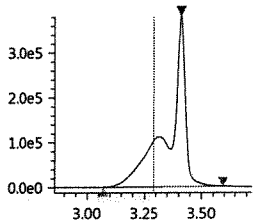
Sample ID: KQ1709896-04 MB
Date acquired: 7/24/2017 4:03:14 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_108.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.411	1947850	1947850	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.411	1947850	466820	1	3.7262	ng/mL	----	----	Auto
PFBA	3.413	23945	1947850	2	0.0478	ng/mL	----	----	M
PFPeA-13C_IS	3.982	968209	968209	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.982	968209	466820	1	3.7456	ng/mL	----	----	Auto
PFPeA	3.983	56751	968209	4	0.0090	ng/mL	----	----	Auto
PFBS_1	----	----	----	16	----	ng/mL	----	----	ND(W/B)
PFBS-13C	4.030	701339	466820	1	3.8453	ng/mL	----	----	Auto
PFBS-13C_IS	4.030	701339	701339	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.245	3256709	3256709	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.245	3256709	466820	1	4.4379	ng/mL	----	----	Auto
PFHxA	4.238	21039	3256709	6	-0.0042	ng/mL	----	----	Auto
HPFO_DA	----	----	----	3	----	ng/mL	----	----	NI
HFPO_DA-13C_IS	4.310	747943	747943	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.310	747943	466820	1	4.1117	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.219	439893	439893	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.219	439893	466820	1	3.7105	ng/mL	----	----	Auto
4_2-FTS_1	4.221	120	439893	5	0.0011	ng/mL	----	----	Auto
PFHpA	----	----	----	8	----	ng/mL	----	----	NI
PFHpA-13C_IS	4.435	2599778	2599778	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.435	2599778	466820	1	3.5129	ng/mL	----	----	Auto
PFHxS-18O_IS	4.430	381221	381221	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.430	381221	466820	1	3.5090	ng/mL	----	----	Auto
PFHxS_1	4.414	1378	381221	7	0.0130	ng/mL	----	----	Auto
6_2-FTS-13C	4.600	247500	466820	1	3.4834	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.600	247500	247500	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.604	188	247500	10	0.0029	ng/mL	----	----	Auto
PFHpS_1	----	----	----	7	----	ng/mL	----	----	ND(W/B)
PFOA-13C_IS	4.611	4106767	4106767	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.611	4106767	466820	1	4.3217	ng/mL	----	----	Auto
PFOA	4.604	16600	4106767	9	0.0160	ng/mL	----	----	Auto
PFOS_1	----	----	----	13	----	ng/mL	----	----	NI
PFOS-13C_IS	4.774	470760	470760	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.774	470760	466820	1	3.9694	ng/mL	----	----	Auto
PFNA-13C_IS	4.789	3460056	3460056	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.789	3460056	466820	1	4.0569	ng/mL	----	----	Auto
PFNA	4.781	3450	3460056	11	0.0045	ng/mL	----	----	M
PFDA-13C_IS	4.978	3288876	3288876	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.978	3288876	466820	1	4.6703	ng/mL	----	----	Auto
PFDA	4.951	11508	3288876	12	0.0128	ng/mL	----	----	M
8_2-FTS-13C_IS	4.977	291954	291954	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.977	291954	466820	1	4.5607	ng/mL	----	----	Auto
8_2-FTS_1	----	----	----	15	----	ng/mL	----	----	ND(W/B)
PFDS_1	----	----	----	13	----	ng/mL	----	----	ND(W/B)
PFUnA	5.160	13274	4150050	14	0.0139	ng/mL	----	----	Auto
PFUnA-13C_IS	5.165	4150050	4150050	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.165	4150050	466820	1	4.9508	ng/mL	----	----	Auto
PFDoA	5.333	5179	5089491	17	0.0078	ng/mL	----	----	Auto
PFDoA-13C	5.348	5089491	466820	1	4.7935	ng/mL	----	----	Auto
PFDoA-13C_IS	5.348	5089491	5089491	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	----	----	----	15	----	ng/mL	----	----	ND(W/B)
PFTrDA	----	----	----	22	----	ng/mL	----	----	NI
PFTeDA	5.661	37451	3264250	22	0.0178	ng/mL	----	----	Auto
PFTeDA-13C	5.661	3264250	466820	1	3.8016	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.661	3264250	3264250	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.311	1174977	1174977	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.311	1174977	466820	1	3.6468	ng/mL	----	----	Auto
FOSA	5.310	1008	1174977	18	0.0028	ng/mL	----	----	M
N-MeFOSAA	----	----	----	19	----	ng/mL	----	----	ND(W/B)
N-MeFOSAA-d3	5.084	885108	466820	1	4.2419	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.084	885108	885108	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.696	466820	466820	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.689	827	494044	20	0.0069	ng/mL	----	----	M
N-MeFOSE-d7	5.670	494044	466820	1	4.0347	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.670	494044	494044	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	5.669	151	494044	20	0.0009	ng/mL	----	----	Auto
N-EtFOSAA	----	----	----	21	----	ng/mL	----	----	NI

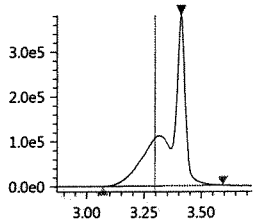
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.183	943369	943369	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.183	943369	466820	1	4.9838	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.836	476536	476536	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.836	476536	466820	1	3.7771	ng/mL	----	----	Auto
N-EtFOSA	----	----	----	23	----	ng/mL	----	----	NI
N-EtFOSE-d9_IS	5.803	516750	516750	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.803	516750	466820	1	3.4992	ng/mL	----	----	Auto
N-EtFOSE	----	----	----	24	----	ng/mL	----	----	NI

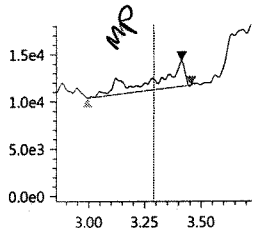
PFBA-13C_IS
Conc 5.0000
RT 3.411 Area 1947850
ISTD 216.90>172.15 3.82e5



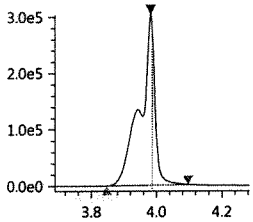
PFBA-13C
Conc 3.7262
RT 3.411 Area 1947850
Q 216.90>172.15 3.82e5



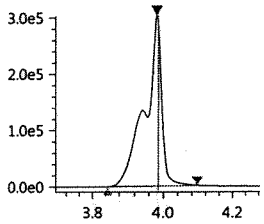
PFBA
Conc 0.0478
RT 3.413 Area 23945
Q 213.00>169.10 1.81e4



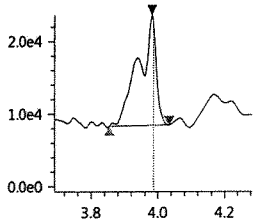
PFPeA-13C_IS
Conc 5.0000
RT 3.982 Area 968209
ISTD 267.90>223.00 3.04e5



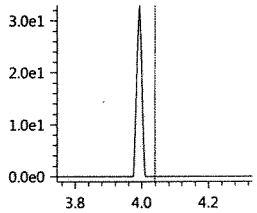
PFPeA-13C
Conc 3.7456
RT 3.982 Area 968209
Q 267.90>223.00 3.04e5



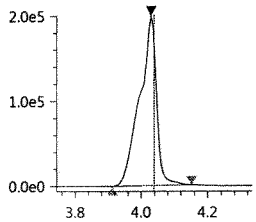
PFPeA
Conc 0.0090
RT 3.983 Area 56751
Q 263.05>219.10 2.36e4



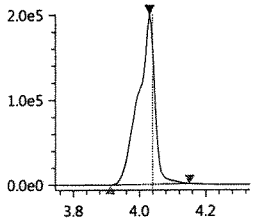
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 3.30e1



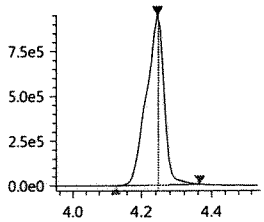
PFBS-13C
Conc 3.8453
RT 4.030 Area 701339
Q 301.80>80.00 2.01e5



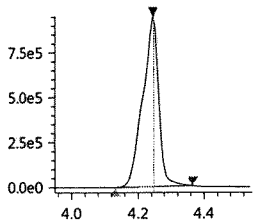
PFBS-13C_IS
Conc 5.0000
RT 4.030 Area 701339
ISTD 301.80>80.00 2.01e5



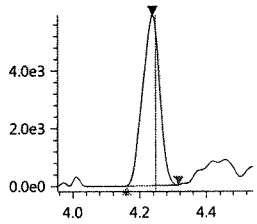
PFHxA-13C_IS
Conc 5.0000
RT 4.245 Area 3256709
ISTD 314.90>270.10 9.56e5



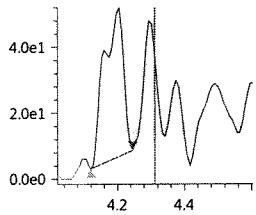
PFHxA-13C
Conc 4.4379
RT 4.245 Area 3256709
Q 314.90>270.10 9.56e5



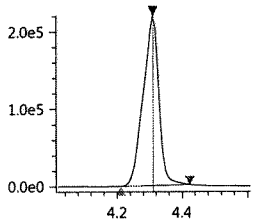
PFHxA
Conc -0.0042
RT 4.238 Area 21039
Q 313.00>269.00 5.94e3



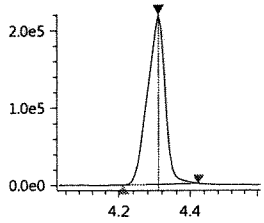
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 5.20e1



HFPO_DA-13C_IS
Conc 5.0000
RT 4.310 Area 747943
ISTD 332.00>286.80 2.22e5

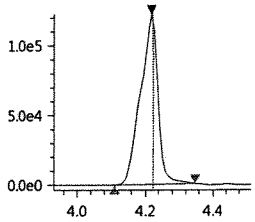


HFPO_DA-13C
Conc 4.1117
RT 4.310 Area 747943
Q 332.00>286.80 2.22e5

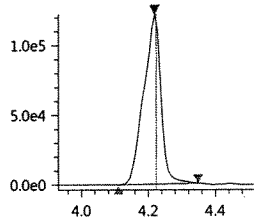


JUL 25 2017

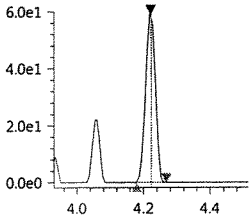
4_2-FTS-13C_IS
Conc 5.0000
RT 4.219 Area 439893
ISTD 328.80>309.05 1.23e5



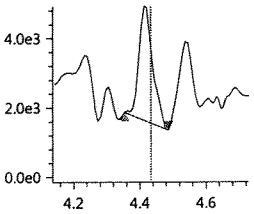
4_2-FTS-13C
Conc 3.7105
RT 4.219 Area 439893
Q 328.80>309.05 1.23e5



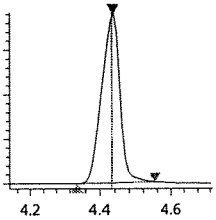
4_2-FTS_1
Conc 0.0011
RT 4.221 Area 120
Q 327.00>307.05 6.00e1



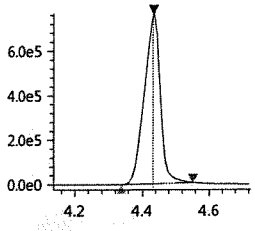
PFHpA
Conc ----
RT ---- Area ----
Q 362.90>319.00 4.94e3



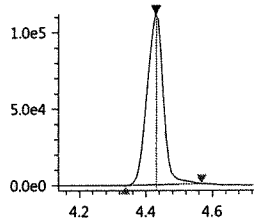
PFHpA-13C_IS
Conc 5.0000
RT 4.435 Area 2599778
ISTD 366.90>322.10 7.69e5



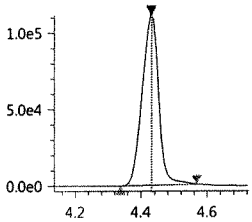
PFHpA-13C
Conc 3.5129
RT 4.435 Area 2599778
Q 366.90>322.10 7.69e5



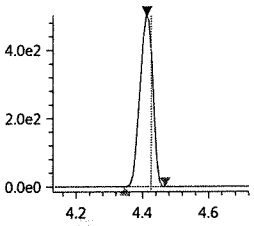
PFHxS-18O_IS
Conc 5.0000
RT 4.430 Area 381221
ISTD 402.70>84.05 1.12e5



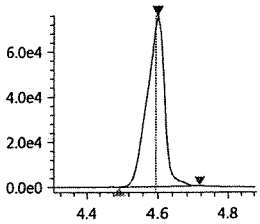
PFHxS-18O
Conc 3.5090
RT 4.430 Area 381221
Q 402.70>84.05 1.12e5



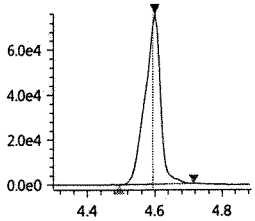
PFHxS_1
Conc 0.0130
RT 4.414 Area 1378
Q 399.00>80.00 5.03e2



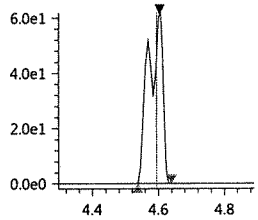
6_2-FTS-13C
Conc 3.4834
RT 4.600 Area 247500
Q 428.90>409.00 7.62e4



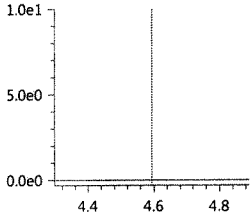
6_2-FTS-13C_IS
Conc 5.0000
RT 4.600 Area 247500
ISTD 428.90>409.00 7.62e4



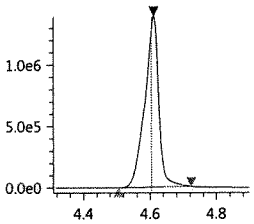
6_2-FTS_1
Conc 0.0029
RT 4.604 Area 188
Q 427.00>407.00 6.20e1



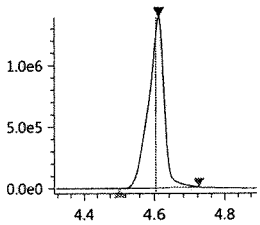
PFHpS_1
Conc ----
RT ---- Area ----
Q 449.00>80.15 0.00e0



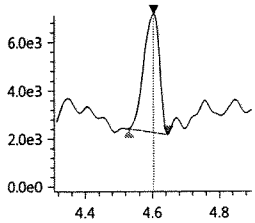
PFOA-13C_IS
Conc 5.0000
RT 4.611 Area 4106767
ISTD 416.80>372.05 1.39e6



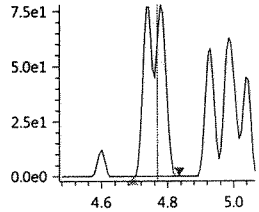
PFOA-13C
Conc 4.3217
RT 4.611 Area 4106767
Q 416.80>372.05 1.39e6



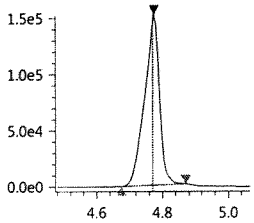
PFOA
Conc 0.0160
RT 4.604 Area 16600
Q 413.00>369.00 7.13e3



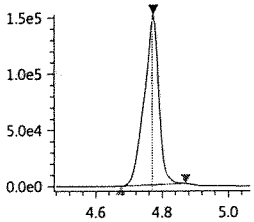
PFOS_1
Conc ----
RT ---- Area ----
Q 499.00>80.00 7.80e1



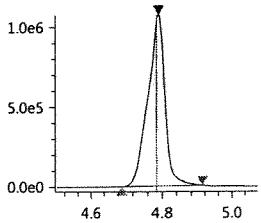
PFOS-13C_IS
Conc 5.0000
RT 4.774 Area 470760
ISTD 502.80>80.05 1.53e5



PFOS-13C
Conc 3.9694
RT 4.774 Area 470760
Q 502.80>80.05 1.53e5

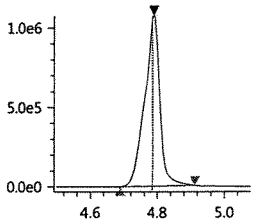


PFNA-13C_IS
Conc 5.0000
RT 4.789 Area 3460056
ISTD 467.80>423.00 1.08e6

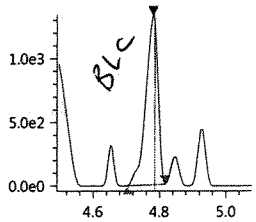


JT

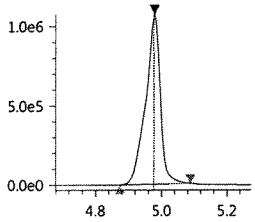
PFNA-13C
Conc 4.0569
RT 4.789 Area 3460056
Q 467.80>423.00 1.08e6



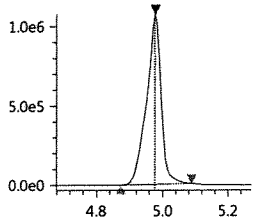
PFNA
Conc 0.0045
RT 4.781 Area 3450
Q 463.00>418.90 1.34e3



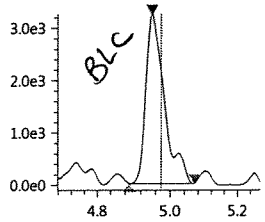
PFDA-13C_IS
Conc 5.0000
RT 4.978 Area 3288876
ISTD 514.80>469.95 1.08e6



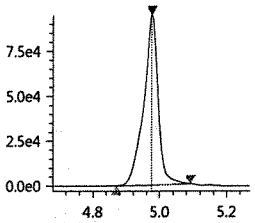
PFDA-13C
Conc 4.6703
RT 4.978 Area 3288876
Q 514.80>469.95 1.08e6



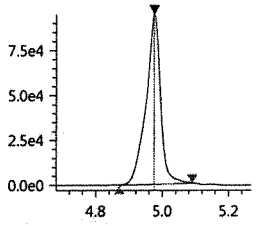
PFDA
Conc 0.0128
RT 4.951 Area 11508
Q 513.00>468.80 3.27e3



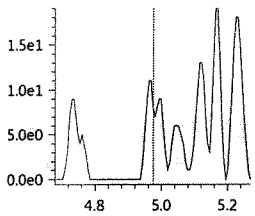
8_2-FTS-13C_IS
Conc 5.0000
RT 4.977 Area 291954
ISTD 528.80>509.00 9.49e4



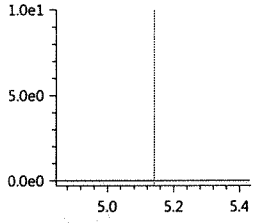
8_2-FTS-13C
Conc 4.5607
RT 4.977 Area 291954
Q 528.80>509.00 9.49e4



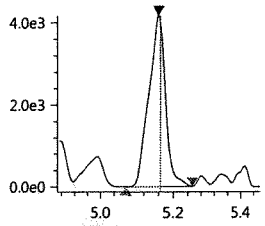
8_2-FTS_1
Conc ----
RT ---- Area ----
Q 526.90>506.90 1.90e1



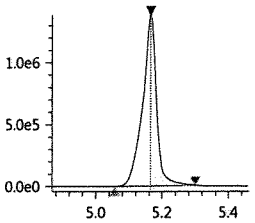
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 0.00e0



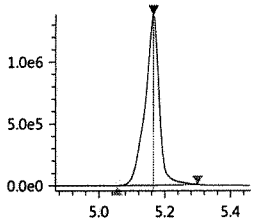
PFUnA
Conc 0.0139
RT 5.160 Area 13274
Q 563.00>518.90 4.17e3



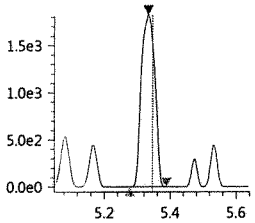
PFUnA-13C_IS
Conc 5.0000
RT 5.165 Area 4150050
ISTD 564.80>519.95 1.39e6



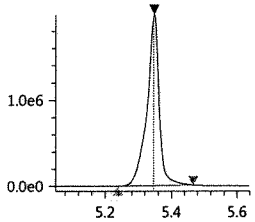
PFUnA-13C
Conc 4.9508
RT 5.165 Area 4150050
Q 564.80>519.95 1.39e6



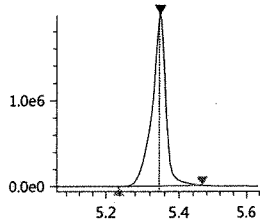
PFDoA
Conc 0.0078
RT 5.333 Area 5179
Q 613.05>569.00 1.82e3



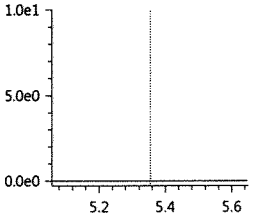
PFDoA-13C
Conc 4.7935
RT 5.348 Area 5089491
Q 614.80>569.95 2.00e6



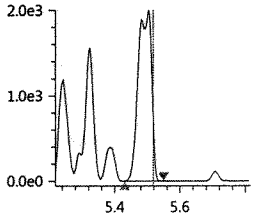
PFDoA-13C_IS
Conc 5.0000
RT 5.348 Area 5089491
ISTD 614.80>569.95 2.00e6



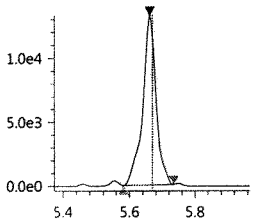
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



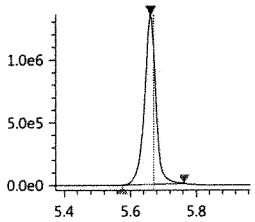
PFTrDA
Conc ----
RT ---- Area ----
Q 663.00>618.90 2.00e3



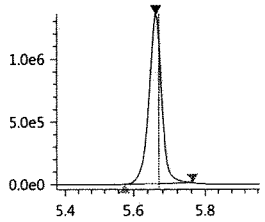
PFTeDA
Conc 0.0178
RT 5.661 Area 37451
Q 713.40>669.00 1.33e4



PFTeDA-13C
Conc 3.8016
RT 5.661 Area 3264250
Q 714.70>669.90 1.36e6

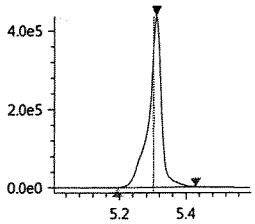


PFTeDA-13C_IS
Conc 5.0000
RT 5.661 Area 3264250
ISTD 714.70>669.90 1.36e6

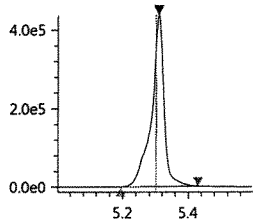


JUL 2 5 2017

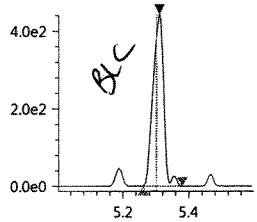
FOSA-13C_IS
Conc 5.0000
RT 5.311 Area 1174977
ISTD 506.00>78.05 4.38e5



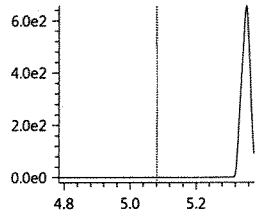
FOSA-13C
Conc 3.6468
RT 5.311 Area 1174977
Q 506.00>78.05 4.38e5



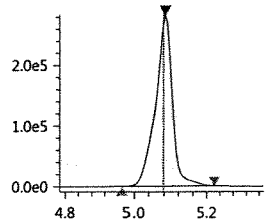
FOSA
Conc 0.0028
RT 5.310 Area 1008
Q 498.00>78.00 4.43e2



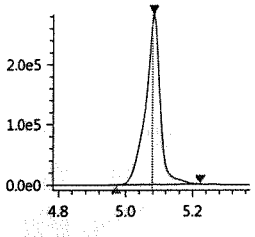
N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 6.58e2



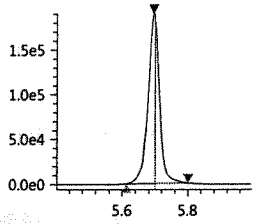
N-MeFOSAA-d3
Conc 4.2419
RT 5.084 Area 885108
Q 572.80>419.05 2.84e5



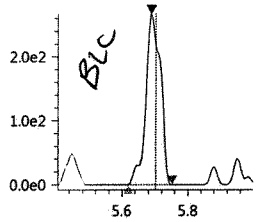
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.084 Area 885108
ISTD 572.80>419.05 2.84e5



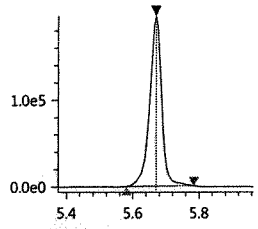
N-MeFOSA_IS
Conc 5.0000
RT 5.696 Area 466820
ISTD 514.90>168.90 1.91e5



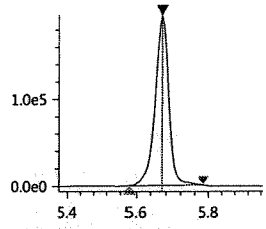
N-MeFOSA
Conc 0.0069
RT 5.689 Area 827
Q 512.00>169.10 2.68e2



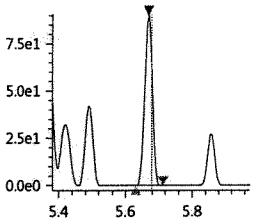
N-MeFOSE-d7
Conc 4.0347
RT 5.670 Area 494044
Q 622.70>59.10 1.98e5



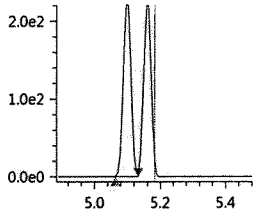
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.670 Area 494044
ISTD 622.70>59.10 1.98e5



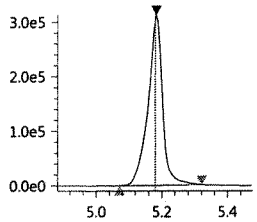
N-MeFOSE
Conc 0.0009
RT 5.669 Area 151
Q 616.00>59.00 9.10e1



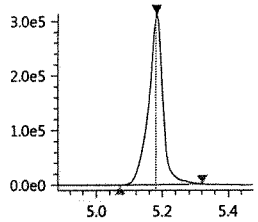
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 2.21e2



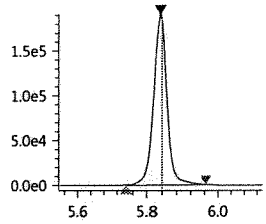
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.183 Area 943369
ISTD 588.80>419.00 3.15e5



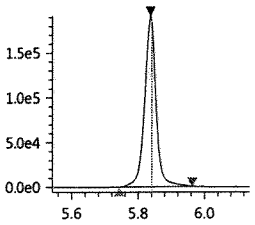
N-EtFOSAA-d5
Conc 4.9838
RT 5.183 Area 943369
Q 588.80>419.00 3.15e5



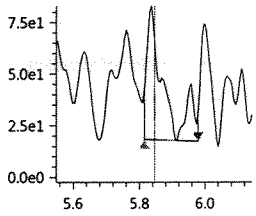
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.836 Area 476536
ISTD 530.90>169.15 1.92e5



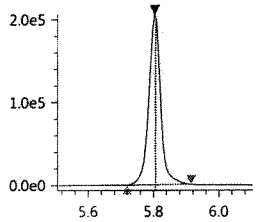
N-EtFOSA-d9
Conc 3.7771
RT 5.836 Area 476536
Q 530.90>169.15 1.92e5



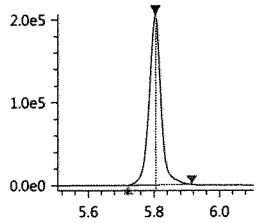
N-EtFOSA
Conc ----
RT ---- Area ----
Q 526.90>169.10 8.30e1



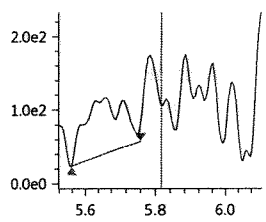
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.803 Area 516750
ISTD 638.70>59.10 2.07e5



N-EtFOSE-d9
Conc 3.4992
RT 5.803 Area 516750
Q 638.70>59.10 2.07e5



N-EtFOSE
Conc ----
RT ---- Area ----
Q 630.00>58.90 2.33e2

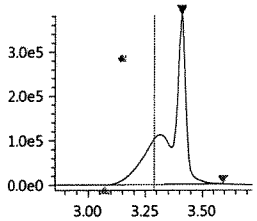


JUL 25 2017

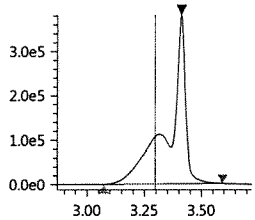
072417_108

Sample ID: KQ1709896-04 MB
Date acquired: 7/24/2017 4:03:14 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_108.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 2

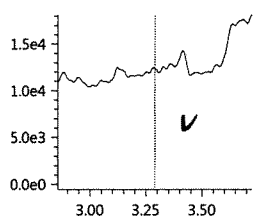
PFBA-13C_IS
Conc 5.0000
RT 3.411 Area 1947850
ISTD 216.90>172.15 3.82e5



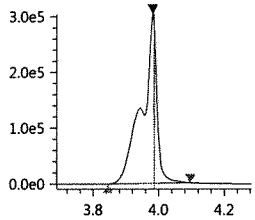
PFBA-13C
Conc 3.7262
RT 3.411 Area 1947850
Q 216.90>172.15 3.82e5



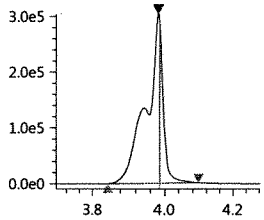
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 1.81e4



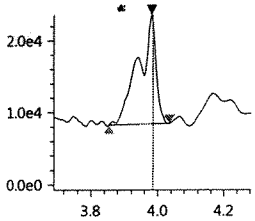
PFPeA-13C_IS
Conc 5.0000
RT 3.982 Area 968209
ISTD 267.90>223.00 3.04e5



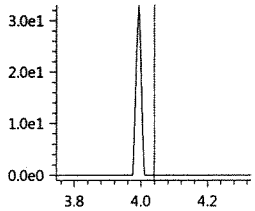
PFPeA-13C
Conc 3.7456
RT 3.982 Area 968209
Q 267.90>223.00 3.04e5



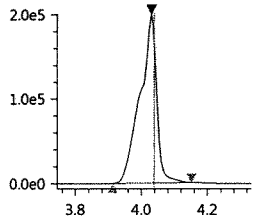
PFPeA
Conc 0.0090
RT 3.983 Area 56751
Q 263.05>219.10 2.36e4



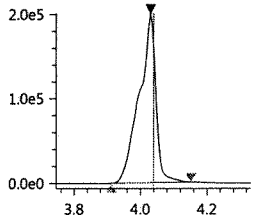
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 3.30e1



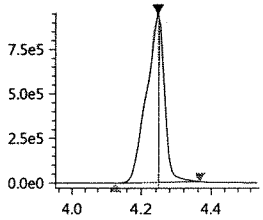
PFBS-13C
Conc 3.8453
RT 4.030 Area 701339
Q 301.80>80.00 2.01e5



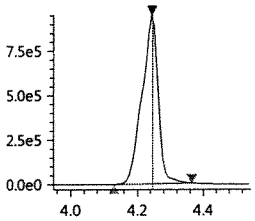
PFBS-13C_IS
Conc 5.0000
RT 4.030 Area 701339
ISTD 301.80>80.00 2.01e5



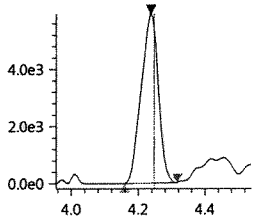
PFHxA-13C_IS
Conc 5.0000
RT 4.245 Area 3256709
ISTD 314.90>270.10 9.56e5



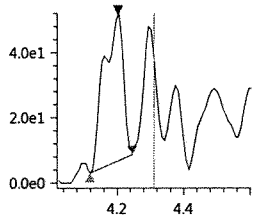
PFHxA-13C
Conc 4.4379
RT 4.245 Area 3256709
Q 314.90>270.10 9.56e5



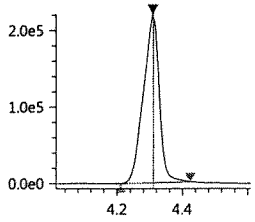
PFHxA
Conc -0.0042
RT 4.238 Area 21039
Q 313.00>269.00 5.94e3



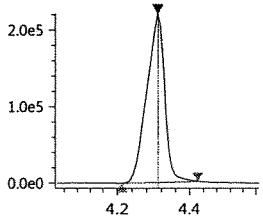
HPFO_DA
Conc 0.0013
RT 4.203 Area 184
Q 329.00>169.00 5.20e1



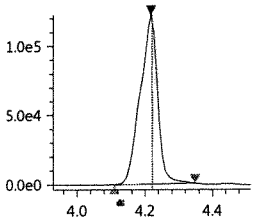
HFPO_DA-13C_IS
Conc 5.0000
RT 4.310 Area 747943
ISTD 332.00>286.80 2.22e5



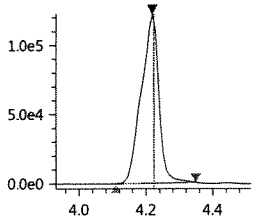
HFPO_DA-13C
Conc 4.1117
RT 4.310 Area 747943
Q 332.00>286.80 2.22e5



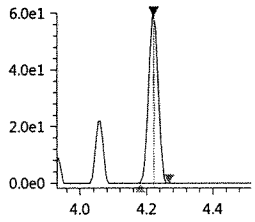
4_2-FTS-13C_IS
Conc 5.0000
RT 4.219 Area 439893
ISTD 328.80>309.05 1.23e5



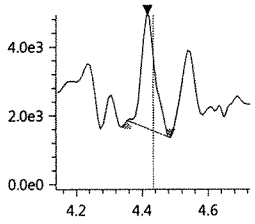
4_2-FTS-13C
Conc 3.7105
RT 4.219 Area 439893
Q 328.80>309.05 1.23e5



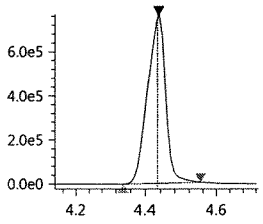
4_2-FTS_1
Conc 0.0011
RT 4.221 Area 120
Q 327.00>307.05 6.00e1



PFHpA
Conc 0.0168
RT 4.416 Area 9619
Q 362.90>319.00 4.94e3

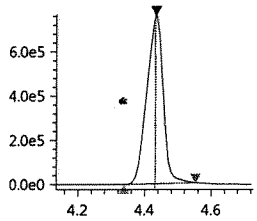


PFHpA-13C_IS
Conc 5.0000
RT 4.435 Area 2599778
ISTD 366.90>322.10 7.69e5

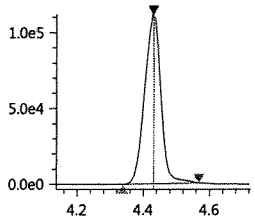


JUL 25 2017

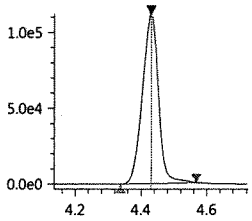
PFHpA-13C
Conc 3.5129
RT 4.435 Area 2599778
Q 366.90>322.10 7.69e5



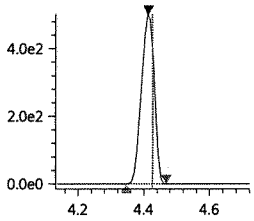
PFHxS-18O_IS
Conc 5.0000
RT 4.430 Area 381221
ISTD 402.70>84.05 1.12e5



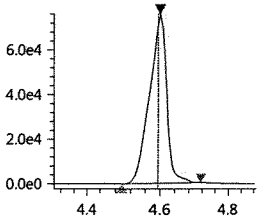
PFHxS-18O
Conc 3.5090
RT 4.430 Area 381221
Q 402.70>84.05 1.12e5



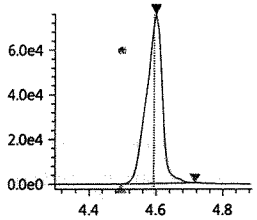
PFHxS_1
Conc 0.0130
RT 4.414 Area 1378
Q 399.00>80.00 5.03e2



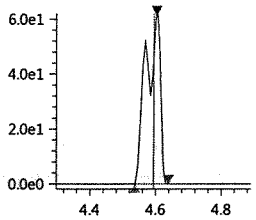
6_2-FTS-13C
Conc 3.4834
RT 4.600 Area 247500
Q 428.90>409.00 7.62e4



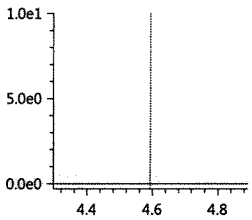
6_2-FTS-13C_IS
Conc 5.0000
RT 4.600 Area 247500
ISTD 428.90>409.00 7.62e4



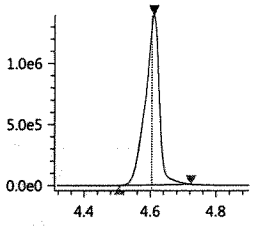
6_2-FTS_1
Conc 0.0029
RT 4.604 Area 188
Q 427.00>407.00 6.20e1



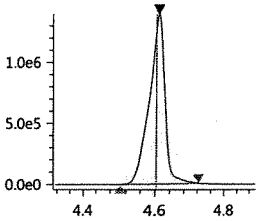
PFHpS_1
Conc ----
RT ---- Area ----
Q 449.00>80.15 0.00e0



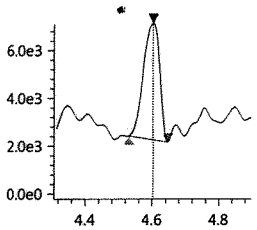
PFOA-13C_IS
Conc 5.0000
RT 4.611 Area 4106767
ISTD 416.80>372.05 1.39e6



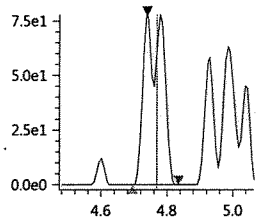
PFOA-13C
Conc 4.3217
RT 4.611 Area 4106767
Q 416.80>372.05 1.39e6



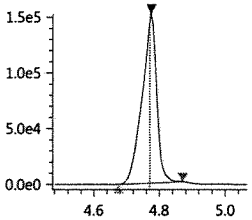
PFOA
Conc 0.0160
RT 4.604 Area 16600
Q 413.00>369.00 7.13e3



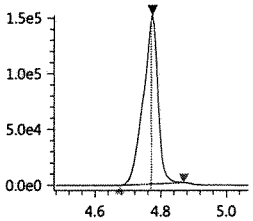
PFOS_1
Conc 0.0041
RT 4.739 Area 312
Q 499.00>80.00 7.80e1



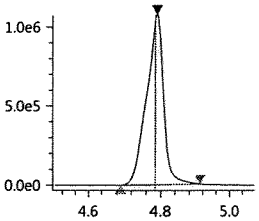
PFOS-13C_IS
Conc 5.0000
RT 4.774 Area 470760
ISTD 502.80>80.05 1.53e5



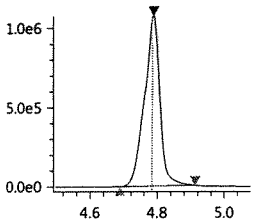
PFOS-13C
Conc 3.9694
RT 4.774 Area 470760
Q 502.80>80.05 1.53e5



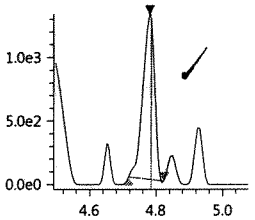
PFNA-13C_IS
Conc 5.0000
RT 4.789 Area 3460056
ISTD 467.80>423.00 1.08e6



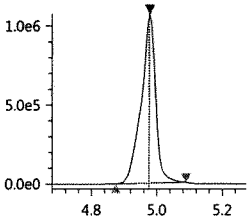
PFNA-13C
Conc 4.0569
RT 4.789 Area 3460056
Q 467.80>423.00 1.08e6



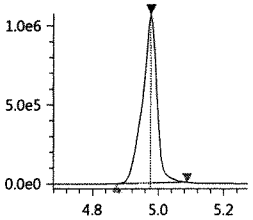
PFNA
Conc 0.0042
RT 4.781 Area 3218
Q 463.00>418.90 1.34e3



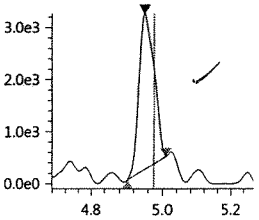
PFDA-13C_IS
Conc 5.0000
RT 4.978 Area 3288876
ISTD 514.80>469.95 1.08e6



PFDA-13C
Conc 4.6703
RT 4.978 Area 3288876
Q 514.80>469.95 1.08e6



PFDA
Conc 0.0096
RT 4.951 Area 8675
Q 513.00>468.80 3.27e3

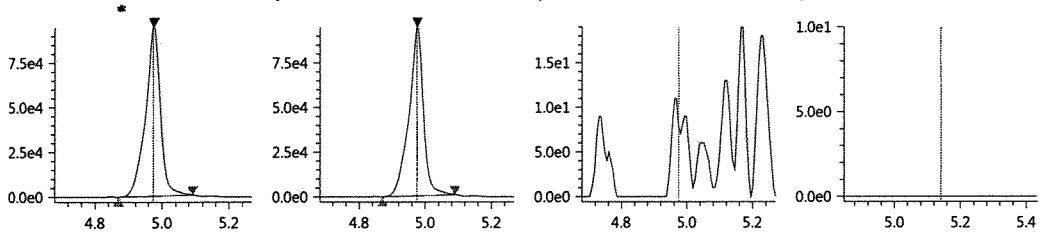


8_2-FTS-13C_IS
Conc 5.0000
RT 4.977 Area 291954
ISTD 528.80>509.00 9.49e4

8_2-FTS-13C
Conc 4.5607
RT 4.977 Area 291954
Q 528.80>509.00 9.49e4

8_2-FTS_1
Conc ----
RT ---- Area ----
Q 526.90>506.90 1.90e1

PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 0.00e0



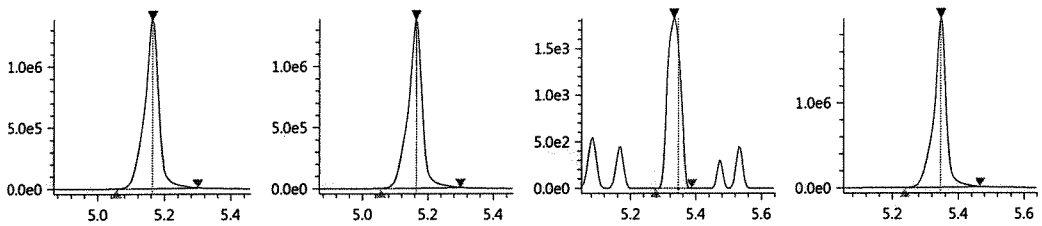
PFUnA
Conc 0.0139
RT 5.160 Area 13274
Q 563.00>518.90 4.17e3

PFUnA-13C_IS
Conc 5.0000
RT 5.165 Area 4150050
ISTD 564.80>519.95 1.39e6

PFUnA-13C
Conc 4.9508
RT 5.165 Area 4150050
Q 564.80>519.95 1.39e6

PFDoA
Conc 0.0078
RT 5.333 Area 5179
Q 613.05>569.00 1.82e3

PFDoA-13C
Conc 4.7935
RT 5.348 Area 5089491
Q 614.80>569.95 2.00e6



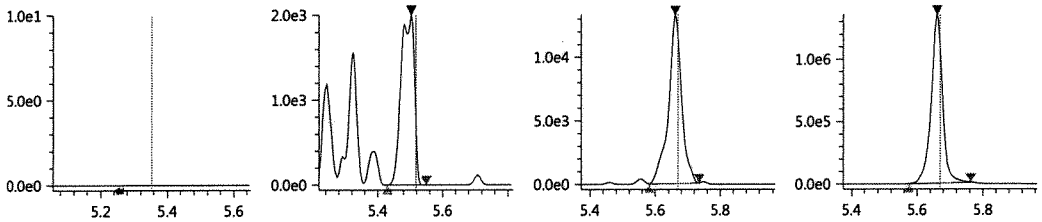
PFDoA-13C_IS
Conc 5.0000
RT 5.348 Area 5089491
ISTD 614.80>569.95 2.00e6

10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0

PFTrDA
Conc 0.0089
RT 5.504 Area 5789
Q 663.00>618.90 2.00e3

PFTeDA
Conc 0.0178
RT 5.661 Area 37451
Q 713.40>669.00 1.33e4

PFTeDA-13C
Conc 3.8016
RT 5.661 Area 3264250
Q 714.70>669.90 1.36e6



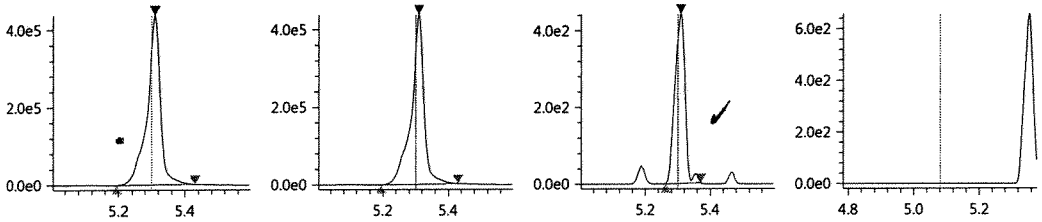
PFTeDA-13C_IS
Conc 5.0000
RT 5.661 Area 3264250
ISTD 714.70>669.90 1.36e6

FOSA-13C_IS
Conc 5.0000
RT 5.311 Area 1174977
ISTD 506.00>78.05 4.38e5

FOSA-13C
Conc 3.6468
RT 5.311 Area 1174977
Q 506.00>78.05 4.38e5

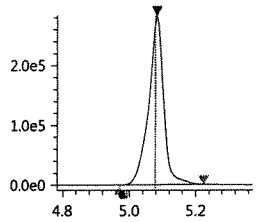
FOSA
Conc 0.0028
RT 5.310 Area 998
Q 498.00>78.00 4.43e2

N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 6.58e2

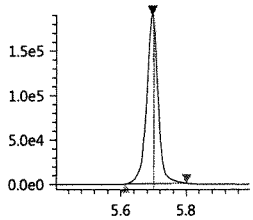


N-MeFOSAA-d3
Conc 4.2419
RT 5.084 Area 885108
Q 572.80>419.05 2.84e5

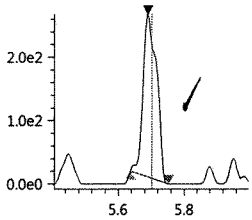
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.084 Area 885108
ISTD 572.80>419.05 2.84e5



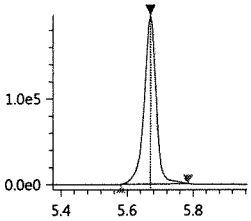
N-MeFOSA_IS
Conc 5.0000
RT 5.696 Area 466820
ISTD 514.90>168.90 1.91e5



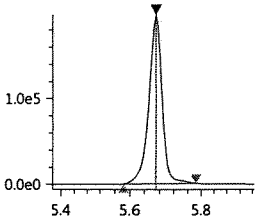
N-MeFOSA
Conc 0.0062
RT 5.689 Area 746
Q 512.00>169.10 2.68e2



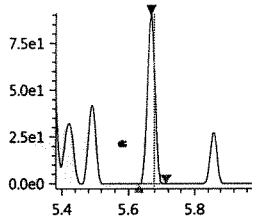
N-MeFOSE-d7
Conc 4.0347
RT 5.670 Area 494044
Q 622.70>59.10 1.98e5



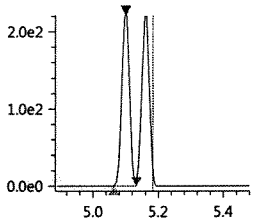
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.670 Area 494044
ISTD 622.70>59.10 1.98e5



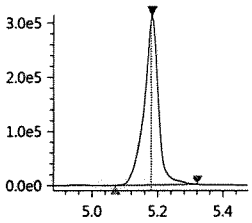
N-MeFOSE
Conc 0.0009
RT 5.669 Area 151
Q 616.00>59.00 9.10e1



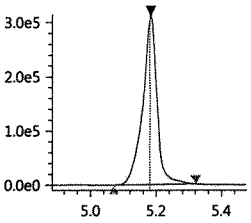
N-EtFOSAA
Conc 0.0023
RT 5.099 Area 368
Q 584.20>418.95 2.21e2



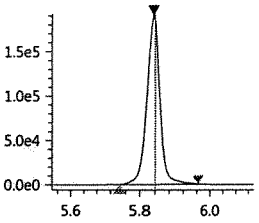
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.183 Area 943369
ISTD 588.80>419.00 3.15e5



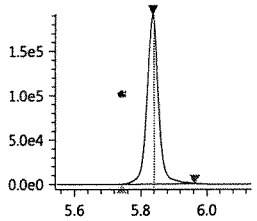
N-EtFOSAA-d5
Conc 4.9838
RT 5.183 Area 943369
Q 588.80>419.00 3.15e5



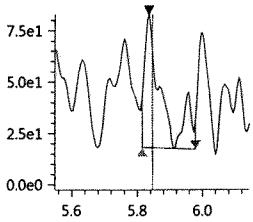
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.836 Area 476536
ISTD 530.90>169.15 1.92e5



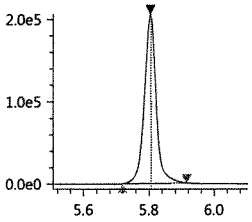
N-EtFOSA-d9
Conc 3.7771
RT 5.836 Area 476536
Q 530.90>169.15 1.92e5



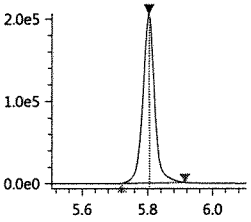
N-EtFOSA
Conc 0.0134
RT 5.835 Area 236
Q 526.90>169.10 8.30e1



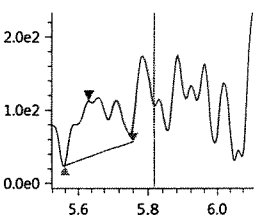
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.803 Area 516750
ISTD 638.70>59.10 2.07e5



N-EtFOSE-d9
Conc 3.4992
RT 5.803 Area 516750
Q 638.70>59.10 2.07e5



N-EtFOSE
Conc 0.0038
RT 5.632 Area 611
Q 630.00>58.90 2.33e2



Validation Report

Data File: J:\LCMS06\Data\072617_b2\072617_119
Lab ID: KQ1710166-03
RunType: MB
Matrix: Water

Date Acquired: 7/26/17 12:22
Batch ID: 555050
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-6:2 FTS	185	70	130	Nonconservative ok
	13C2-8:2 FTS	169	70	130	↓
Surrogates	13C2-8:2 FTS	161	50	150	↑ bias, ND

Primary Review: JT 7/27/17

Secondary Review: JUL 27 2017

Printed: 7/27/17 9:27
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072617_b2\072617_119	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 12:22	**Vial:**	3
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ1710166-03	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	555050	**Prep Lot:**	293672	**Report Group:**	KQ1710166
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	7/25/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.696	400229	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.412	2458329	5.4851	110	19 - 126	Y
13C2-PFHxA	4.245	3484165	5.5378	111	10 - 151	Y
18O2-PFHxS	4.432	402087	4.3168	86	20 - 128	Y
13C2-6:2 FTS	4.596	440449	7.2304	145	10 - 187	Y
13C4-PFOA	4.608	4238208	5.2021	104	13 - 142	Y
13C5-PFNA	4.787	3520338	4.8144	96	15 - 143	Y
13C4-PFOS	4.771	447492	4.4010	88	11 - 131	Y
13C2-PFDA	4.975	3248216	5.3800	108	25 - 129	Y
13C2-PFUnDA	5.164	3573039	4.9717	99	16 - 129	Y
13C2-PFDoDA	5.347	4385964	4.8182	96	17 - 114	Y
D7-MeFOSE	5.669	374087	3.5633	71	32 - 113	Y
D9-EtFOSE	5.804	392247	3.0981	62	20 - 113	Y
D5-EtFOSA	5.836	366033	3.3839	68	19 - 103	Y
13C2-8:2 FTS	4.973	441716	8.0482	161 * ↑ bias, ND	50 - 150	Y
13C2-PFTeDA	5.663	3199952	4.3468	87	50 - 150	Y
13C4-PFHpA	4.434	2879986	4.5390	91	50 - 150	Y
13C5-PFPeA	3.982	1082013	4.8824	98	50 - 150	Y
13C3-PFBS	4.032	559395	3.5774	72	50 - 150	Y
13C8-FOSA	5.308	1125273	4.0737	81	50 - 150	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.413	8965	0.0142	0.45	J	Y
Perfluoropentanoic acid (PFPeA)	3.983	66551	0.0135	0.43	U	Y

Data File:	J:\LCMS06\Data\072617_b2\072617_119	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 12:22	**Vial:**	3
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ1710166-03	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	0	0	0	0	U	Y
Perfluorohexanoic acid (PFHxA)	4.238	28518	0.0048	0.15	U	Y
Perfluoroheptanoic acid (PFHpA)	4.417	15605	0.0247	0.79	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.427	1874	0.0168	0.54	U	Y
Perfluorooctanoic acid (PFOA)	4.601	22665	0.0212	0.68	J	Y
Perfluoroheptane sulfonic acid (PFHpS)	0	0	0	0	U	Y
Perfluorononanoic acid (PFNA)	0	0	0	0	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.772	1263	0.0174	0.56	U	Y
Perfluorodecanoic acid (PFDA)	4.971	13738	0.0154	0.49	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.161	13526	0.0164	0.52	U	Y
Perfluorooctane sulfonamide (FOSA)	5.307	1884	0.0055	0.18	U	Y
Perfluorododecanoic acid (PFDoDA)	5.348	7855	0.0137	0.44	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.512	9453	0.0148	0.47	U	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.702	1276	0.0141	0.45	U	Y
N-Methyl perfluorooctane sulfonamidoethanol	0	0	0	0	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.662	31407	0.0022	0.070	U	Y
N-Ethyl perfluorooctane sulfonamidoethanol	0	0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0	0	0	0	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.975	159	0.0019	0.061	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0	0	0	0	U	Y
Perfluorodecane sulfonic acid (PFDS)	0	0	0	0	U	Y

Prep Amount:	125.0000 mL	**Dilution:**	1
Prep Final Amount:	4.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 9:27

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072617_119

Sample ID: KQ1710166-03 MB
Date acquired: 7/26/2017 12:22:19 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b2\072617_119.lcd
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 2

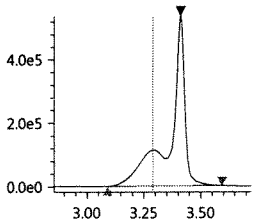
Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.412	2458329	2458329	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.412	2458329	400229	1	5.4851	ng/mL	----	----	Auto
PFBA	3.413	8965	2458329	2	0.0142	ng/mL	----	----	M
PFPeA-13C_IS	3.982	1082013	1082013	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.982	1082013	400229	1	4.8824	ng/mL	----	----	Auto
PFPeA	3.983	66551	1082013	4	0.0135	ng/mL	----	----	Auto
PFBS_1	----	----	----	16	----	ng/mL	----	----	ND(W/B)
PFBS-13C	4.032	559395	400229	1	3.5774	ng/mL	----	----	Auto
PFBS-13C_IS	4.032	559395	559395	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.245	3484165	3484165	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.245	3484165	400229	1	5.5378	ng/mL	----	----	Auto
PFHxA	4.238	28518	3484165	6	0.0048	ng/mL	----	----	Auto
HPFO_DA	----	----	----	3	----	ng/mL	----	----	ND(W/B)
HFPO_DA-13C_IS	4.311	678096	678096	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.311	678096	400229	1	4.3480	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.220	483755	483755	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.220	483755	400229	1	4.7594	ng/mL	----	----	Auto
4_2-FTS_1	----	----	----	5	----	ng/mL	----	----	NI
PFHpA	4.417	15605	2879986	8	0.0247	ng/mL	----	----	M
PFHpA-13C_IS	4.434	2879986	2879986	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.434	2879986	400229	1	4.5390	ng/mL	----	----	Auto
PFHxS-18O_IS	4.432	402087	402087	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.432	402087	400229	1	4.3168	ng/mL	----	----	Auto
PFHxS_1	4.427	1874	402087	7	0.0168	ng/mL	----	----	Auto
6_2-FTS-13C	4.596	440449	400229	1	7.2304	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.596	440449	440449	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	----	----	----	10	----	ng/mL	----	----	NI
PFHpS_1	----	----	----	7	----	ng/mL	----	----	ND(W/B)
PFOA-13C_IS	4.608	4238208	4238208	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.608	4238208	400229	1	5.2021	ng/mL	----	----	Auto
PFOA	4.601	22665	4238208	9	0.0212	ng/mL	----	----	Auto
PFOS_1	4.772	1263	447492	13	0.0174	ng/mL	----	----	Auto
PFOS-13C_IS	4.771	447492	447492	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.771	447492	400229	1	4.4010	ng/mL	----	----	Auto
PFNA-13C_IS	4.787	3520338	3520338	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.787	3520338	400229	1	4.8144	ng/mL	----	----	Auto
PFNA	----	----	----	11	----	ng/mL	----	----	NI
PFDA-13C_IS	4.975	3248216	3248216	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.975	3248216	400229	1	5.3800	ng/mL	----	----	Auto
PFDA	4.971	13738	3248216	12	0.0154	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.973	441716	441716	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.973	441716	400229	1	8.0482	ng/mL	----	----	Auto
8_2-FTS_1	4.975	159	441716	15	0.0019	ng/mL	----	----	Auto
PFDS_1	----	----	----	13	----	ng/mL	----	----	NI
PFUnA	5.161	13526	3573039	14	0.0164	ng/mL	----	----	Auto
PFUnA-13C_IS	5.164	3573039	3573039	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.164	3573039	400229	1	4.9717	ng/mL	----	----	Auto
PFDoA	5.348	7855	4385964	17	0.0137	ng/mL	----	----	Auto
PFDoA-13C	5.347	4385964	400229	1	4.8182	ng/mL	----	----	Auto
PFDoA-13C_IS	5.347	4385964	4385964	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	----	----	----	15	----	ng/mL	----	----	ND(W/B)
PFTrDA	5.512	9453	3199952	22	0.0148	ng/mL	----	----	Auto
PFTeDA	5.662	31407	3199952	22	0.0022	ng/mL	----	----	Auto
PFTeDA-13C	5.663	3199952	400229	1	4.3468	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.663	3199952	3199952	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.308	1125273	1125273	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.308	1125273	400229	1	4.0737	ng/mL	----	----	Auto
FOSA	5.307	1884	1125273	18	0.0055	ng/mL	----	----	Auto
N-MeFOSAA	5.089	562	807356	19	0.0043	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.082	807356	400229	1	4.5131	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.082	807356	807356	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.696	400229	400229	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.702	1276	374087	20	0.0141	ng/mL	----	----	M
N-MeFOSE-d7	5.669	374087	400229	1	3.5633	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.669	374087	374087	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	----	----	----	20	----	ng/mL	----	----	NI
N-EtFOSAA	----	----	----	21	----	ng/mL	----	----	ND(W/B)

JT

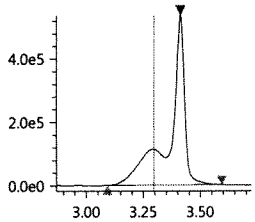
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.182	740689	740689	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.182	740689	400229	1	4.5641	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.836	366033	366033	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.836	366033	400229	1	3.3839	ng/mL	----	----	Auto
N-EtFOSA	----	----	----	23	----	ng/mL	----	----	NI
N-EtFOSE-d9_IS	5.804	392247	392247	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.804	392247	400229	1	3.0981	ng/mL	----	----	Auto
N-EtFOSE	----	----	----	24	----	ng/mL	----	----	NI

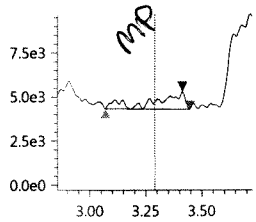
PFBA-13C_IS
Conc 5.0000
RT 3.412 Area 2458329
ISTD 216.90>172.15 5.39e5



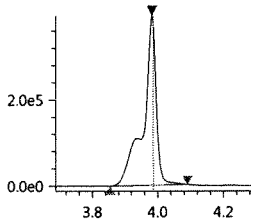
PFBA-13C
Conc 5.4851
RT 3.412 Area 2458329
Q 216.90>172.15 5.39e5



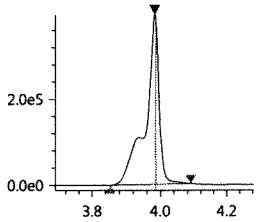
PFBA
Conc 0.0142
RT 3.413 Area 8965
Q 213.00>169.10 9.68e3



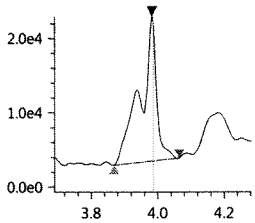
PFPeA-13C_IS
Conc 5.0000
RT 3.982 Area 1082013
ISTD 267.90>223.00 3.96e5



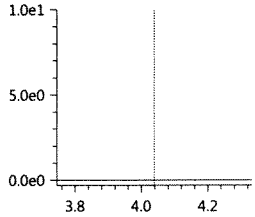
PFPeA-13C
Conc 4.8824
RT 3.982 Area 1082013
Q 267.90>223.00 3.96e5



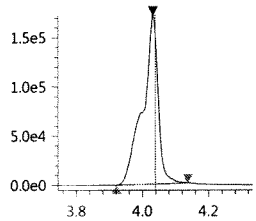
PFPeA
Conc 0.0135
RT 3.983 Area 66551
Q 263.05>219.10 2.30e4



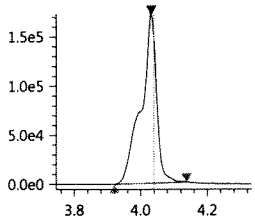
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 0.00e0



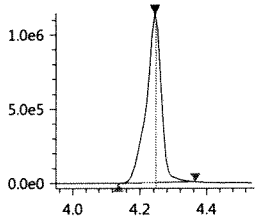
PFBS-13C
Conc 3.5774
RT 4.032 Area 559395
Q 301.80>80.00 1.73e5



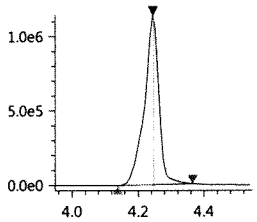
PFBS-13C_IS
Conc 5.0000
RT 4.032 Area 559395
ISTD 301.80>80.00 1.73e5



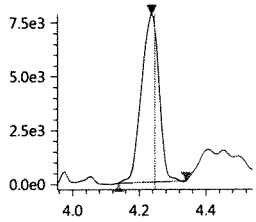
PFHxA-13C_IS
Conc 5.0000
RT 4.245 Area 3484165
ISTD 314.90>270.10 1.15e6



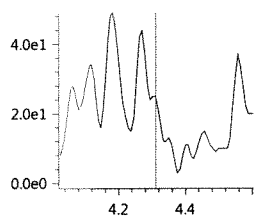
PFHxA-13C
Conc 5.5378
RT 4.245 Area 3484165
Q 314.90>270.10 1.15e6



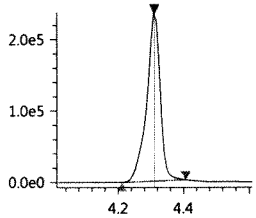
PFHxA
Conc 0.0048
RT 4.238 Area 28518
Q 313.00>269.00 7.91e3



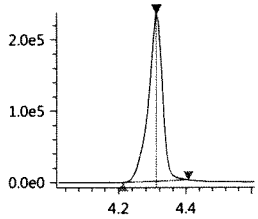
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 4.90e1



HFPO_DA-13C_IS
Conc 5.0000
RT 4.311 Area 678096
ISTD 332.00>286.80 2.39e5

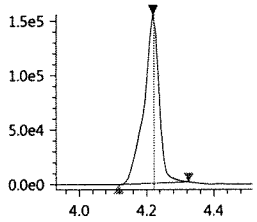


HFPO_DA-13C
Conc 4.3480
RT 4.311 Area 678096
Q 332.00>286.80 2.39e5

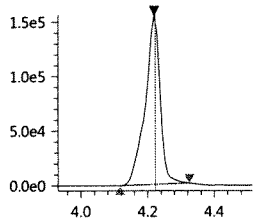


JUL 27 2017

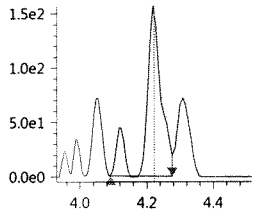
4_2-FTS-13C_IS
Conc 5.0000
RT 4.220 Area 483755
ISTD 328.80>309.05 1.56e5



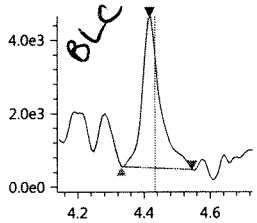
4_2-FTS-13C
Conc 4.7594
RT 4.220 Area 483755
Q 328.80>309.05 1.56e5



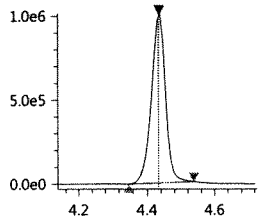
4_2-FTS_1
Conc ----
RT ---- Area ----
Q 327.00>307.05 1.57e2



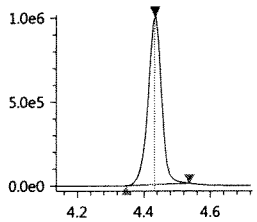
PFHpA
Conc 0.0247
RT 4.417 Area 15605
Q 362.90>319.00 4.65e3



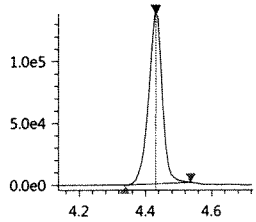
PFHpA-13C_IS
Conc 5.0000
RT 4.434 Area 2879986
ISTD 366.90>322.10 1.02e6



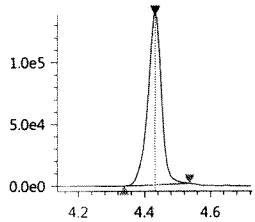
PFHpA-13C
Conc 4.5390
RT 4.434 Area 2879986
Q 366.90>322.10 1.02e6



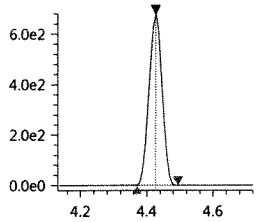
PFHxS-18O_IS
Conc 5.0000
RT 4.432 Area 402087
ISTD 402.70>84.05 1.39e5



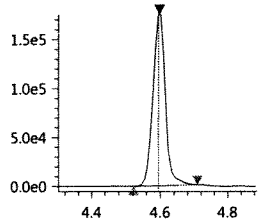
PFHxS-18O
Conc 4.3168
RT 4.432 Area 402087
Q 402.70>84.05 1.39e5



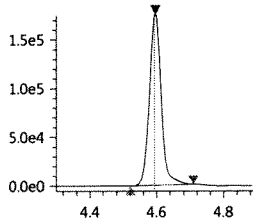
PFHxS_1
Conc 0.0168
RT 4.427 Area 1874
Q 399.00>80.00 6.80e2



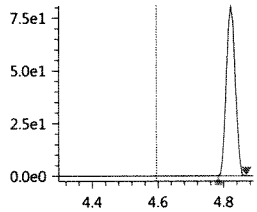
6_2-FTS-13C
Conc 7.2304
RT 4.596 Area 440449
Q 428.90>409.00 1.75e5



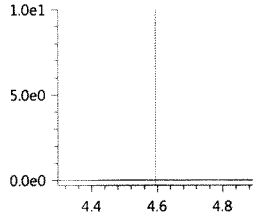
6_2-FTS-13C_IS
Conc 5.0000
RT 4.596 Area 440449
ISTD 428.90>409.00 1.75e5



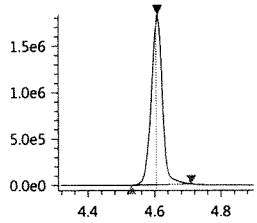
6_2-FTS_1
Conc ----
RT ---- Area ----
Q 427.00>407.00 8.10e1



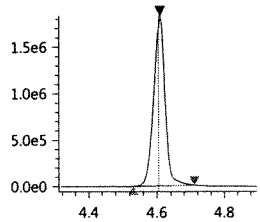
PFHpS_1
Conc ----
RT ---- Area ----
Q 449.00>80.15 0.00e0



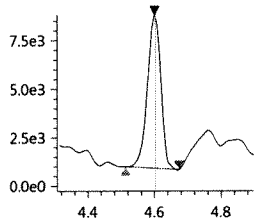
PFOA-13C_IS
Conc 5.0000
RT 4.608 Area 4238208
ISTD 416.80>372.05 1.84e6



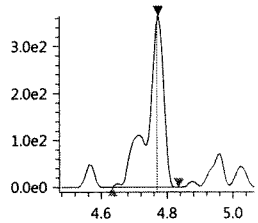
PFOA-13C
Conc 5.2021
RT 4.608 Area 4238208
Q 416.80>372.05 1.84e6



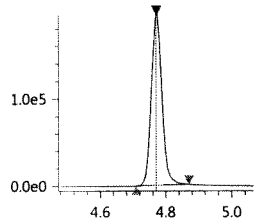
PFOA
Conc 0.0212
RT 4.601 Area 22665
Q 413.00>369.00 8.82e3



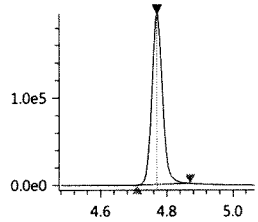
PFOS_1
Conc 0.0174
RT 4.772 Area 1263
Q 499.00>80.00 3.65e2



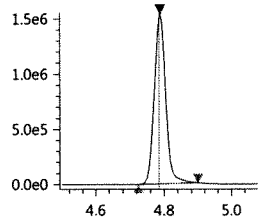
PFOS-13C_IS
Conc 5.0000
RT 4.771 Area 447492
ISTD 502.80>80.05 1.96e5



PFOS-13C
Conc 4.4010
RT 4.771 Area 447492
Q 502.80>80.05 1.96e5

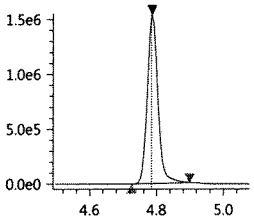


PFNA-13C_IS
Conc 5.0000
RT 4.787 Area 3520338
ISTD 467.80>423.00 1.56e6

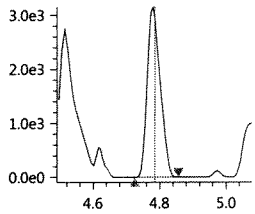


JUL 27 2017

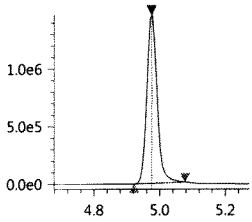
PFNA-13C
Conc 4.8144
RT 4.787 Area 3520338
Q 467.80>423.00 1.56e6



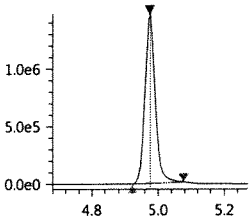
PFNA
Conc ----
RT ---- Area ----
Q 463.00>418.90 3.16e3



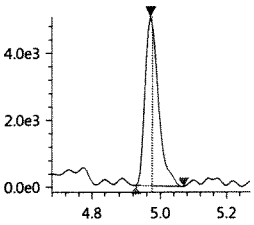
PFDA-13C_IS
Conc 5.0000
RT 4.975 Area 3248216
ISTD 514.80>469.95 1.48e6



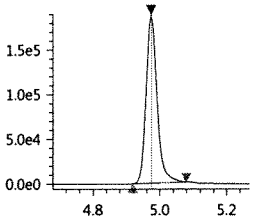
PFDA-13C
Conc 5.3800
RT 4.975 Area 3248216
Q 514.80>469.95 1.48e6



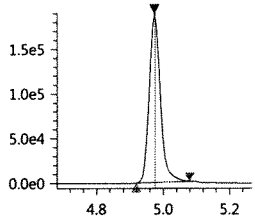
PFDA
Conc 0.0154
RT 4.971 Area 13738
Q 513.00>468.80 5.10e3



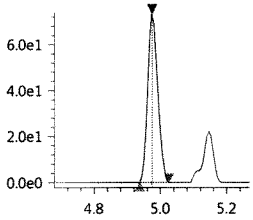
8_2-FTS-13C_IS
Conc 5.0000
RT 4.973 Area 441716
ISTD 528.80>509.00 1.91e5



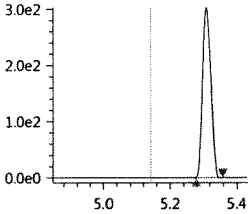
8_2-FTS-13C
Conc 8.0482
RT 4.973 Area 441716
Q 528.80>509.00 1.91e5



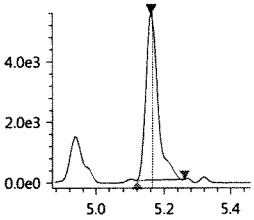
8_2-FTS_1
Conc 0.0019
RT 4.975 Area 159
Q 526.90>506.90 7.40e1



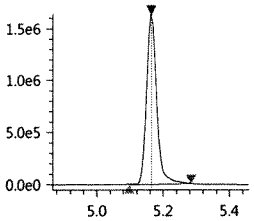
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 3.03e2



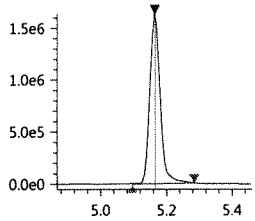
PFUnA
Conc 0.0164
RT 5.161 Area 13526
Q 563.00>518.90 5.62e3



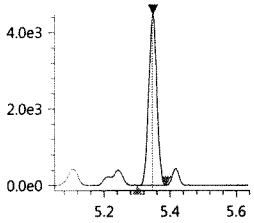
PFUnA-13C_IS
Conc 5.0000
RT 5.164 Area 3573039
ISTD 564.80>519.95 1.65e6



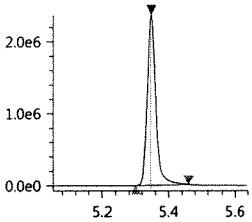
PFUnA-13C
Conc 4.9717
RT 5.164 Area 3573039
Q 564.80>519.95 1.65e6



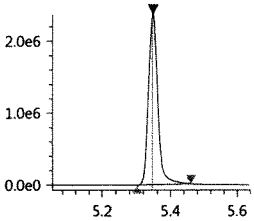
PFDoA
Conc 0.0137
RT 5.348 Area 7855
Q 613.05>569.00 4.47e3



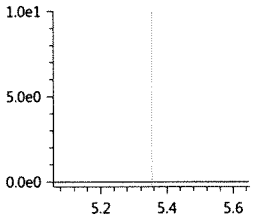
PFDoA-13C
Conc 4.8182
RT 5.347 Area 4385964
Q 614.80>569.95 2.37e6



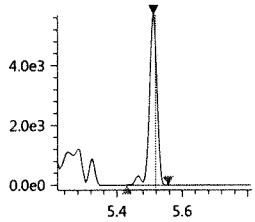
PFDoA-13C_IS
Conc 5.0000
RT 5.347 Area 4385964
ISTD 614.80>569.95 2.37e6



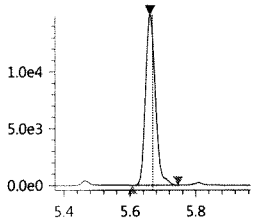
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



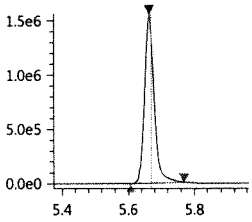
PFTrDA
Conc 0.0148
RT 5.512 Area 9453
Q 663.00>618.90 5.70e3



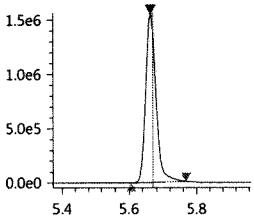
PFTeDA
Conc 0.0022
RT 5.662 Area 31407
Q 713.40>669.00 1.50e4



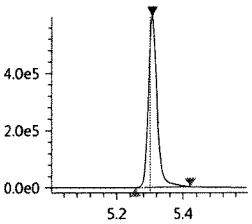
PFTeDA-13C
Conc 4.3468
RT 5.663 Area 3199952
Q 714.70>669.90 1.57e6



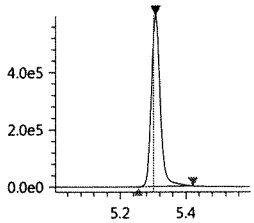
PFTeDA-13C_IS
Conc 5.0000
RT 5.663 Area 3199952
ISTD 714.70>669.90 1.57e6



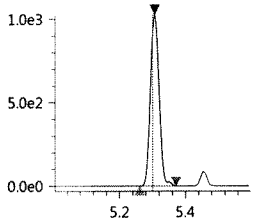
FOSA-13C_IS
Conc 5.0000
RT 5.308 Area 1125273
ISTD 506.00>78.05 5.99e5



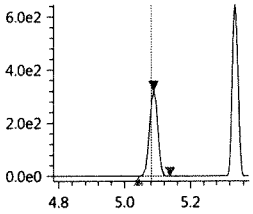
FOSA-13C
Conc 4.0737
RT 5.308 Area 1125273
Q 506.00>78.05 5.99e5



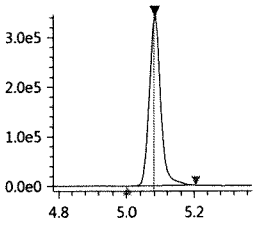
FOSA
Conc 0.0055
RT 5.307 Area 1884
Q 498.00>78.00 1.03e3



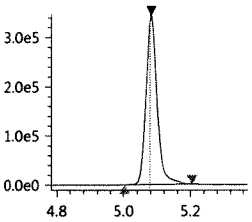
N-MeFOSAA
Conc 0.0043
RT 5.089 Area 562
Q 570.20>419.00 6.46e2



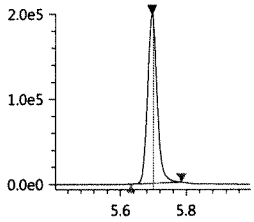
N-MeFOSAA-d3
Conc 4.5131
RT 5.082 Area 807356
Q 572.80>419.05 3.47e5



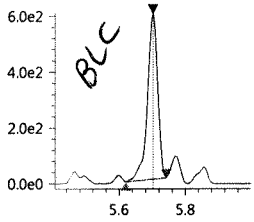
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.082 Area 807356
ISTD 572.80>419.05 3.47e5



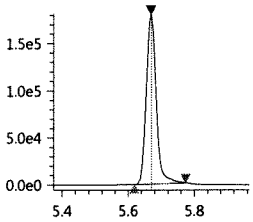
N-MeFOSA_IS
Conc 5.0000
RT 5.696 Area 400229
ISTD 514.90>168.90 2.01e5



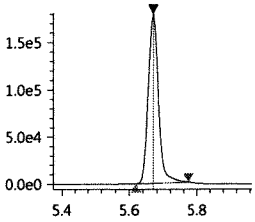
N-MeFOSA
Conc 0.0141
RT 5.702 Area 1276
Q 512.00>169.10 6.12e2



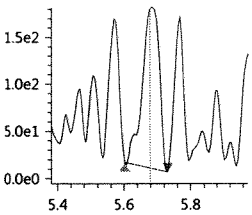
N-MeFOSE-d7
Conc 3.5633
RT 5.669 Area 374087
Q 622.70>59.10 1.82e5



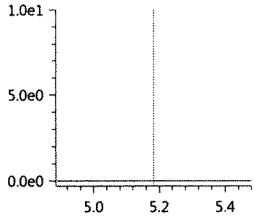
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.669 Area 374087
ISTD 622.70>59.10 1.82e5



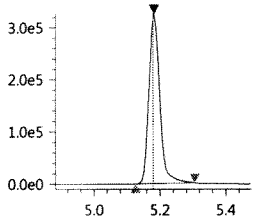
N-MeFOSE
Conc ----
RT ---- Area ----
Q 616.00>59.00 1.82e2



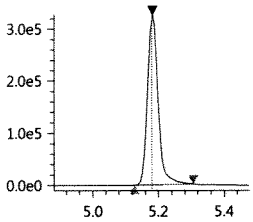
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 0.00e0



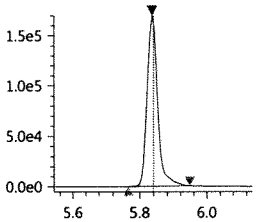
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.182 Area 740689
ISTD 588.80>419.00 3.29e5



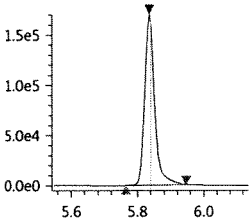
N-EtFOSAA-d5
Conc 4.5641
RT 5.182 Area 740689
Q 588.80>419.00 3.29e5



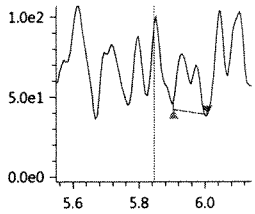
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.836 Area 366033
ISTD 530.90>169.15 1.70e5



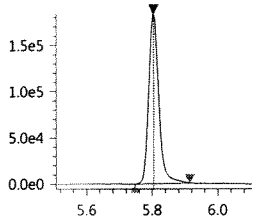
N-EtFOSA-d9
Conc 3.3839
RT 5.836 Area 366033
Q 530.90>169.15 1.70e5



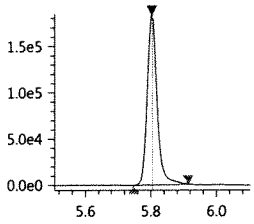
N-EtFOSA
Conc ----
RT ---- Area ----
Q 526.90>169.10 1.07e2



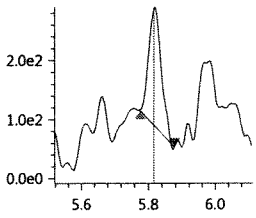
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.804 Area 392247
ISTD 638.70>59.10 1.85e5



N-EtFOSE-d9
Conc 3.0981
RT 5.804 Area 392247
Q 638.70>59.10 1.85e5



N-EtFOSE
Conc ----
RT ---- Area ----
Q 630.00>58.90 2.90e2



JUL 27 2017

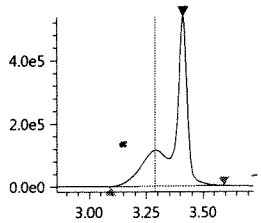
Insight Report

Befores Printed at 7/27/2017 8:23:05 AM
JT

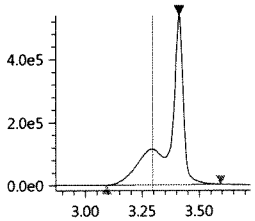
072617_119

Sample ID: KQ1710166-03 MB
Date acquired: 7/26/2017 12:22:19 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b2\072617_119.lcd
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 2

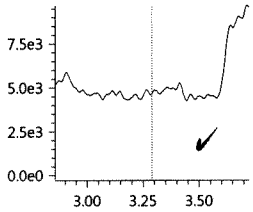
PFBA-13C_IS
Conc 5.0000
RT 3.412 Area 2458329
ISTD 216.90>172.15 5.39e5



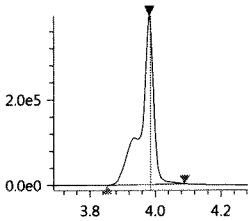
PFBA-13C
Conc 5.4851
RT 3.412 Area 2458329
Q 216.90>172.15 5.39e5



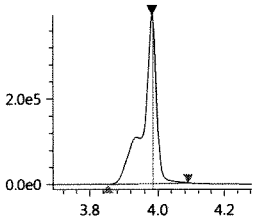
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 9.68e3



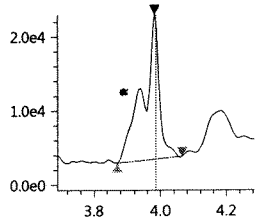
PFPeA-13C_IS
Conc 5.0000
RT 3.982 Area 1082013
ISTD 267.90>223.00 3.96e5



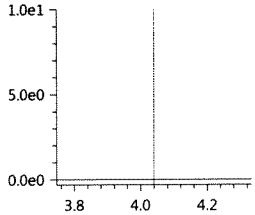
PFPeA-13C
Conc 4.8824
RT 3.982 Area 1082013
Q 267.90>223.00 3.96e5



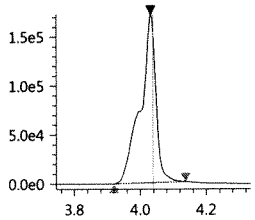
PFPeA
Conc 0.0135
RT 3.983 Area 66551
Q 263.05>219.10 2.30e4



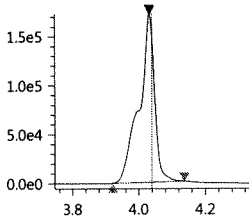
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 0.00e0



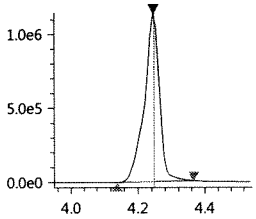
PFBS-13C
Conc 3.5774
RT 4.032 Area 559395
Q 301.80>80.00 1.73e5



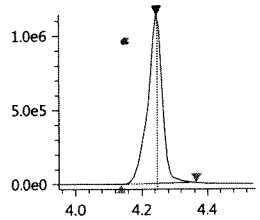
PFBS-13C_IS
Conc 5.0000
RT 4.032 Area 559395
ISTD 301.80>80.00 1.73e5



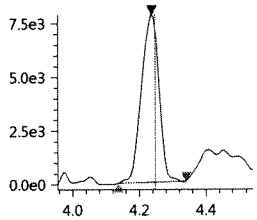
PFHxA-13C_IS
Conc 5.0000
RT 4.245 Area 3484165
ISTD 314.90>270.10 1.15e6



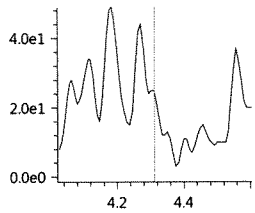
PFHxA-13C
Conc 5.5378
RT 4.245 Area 3484165
Q 314.90>270.10 1.15e6



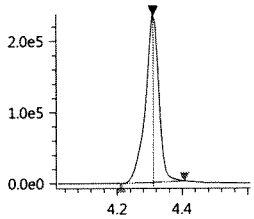
PFHxA
Conc 0.0048
RT 4.238 Area 28518
Q 313.00>269.00 7.91e3



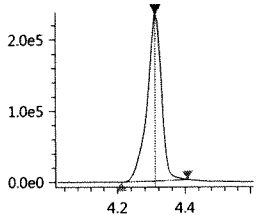
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 4.90e1



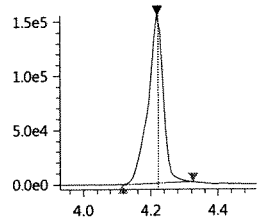
HFPO_DA-13C_IS
Conc 5.0000
RT 4.311 Area 678096
ISTD 332.00>286.80 2.39e5



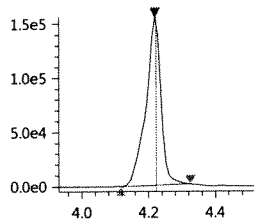
HFPO_DA-13C
Conc 4.3480
RT 4.311 Area 678096
Q 332.00>286.80 2.39e5



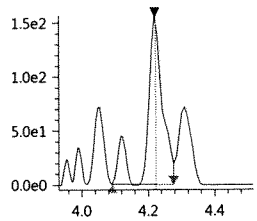
4_2-FTS-13C_IS
Conc 5.0000
RT 4.220 Area 483755
ISTD 328.80>309.05 1.56e5



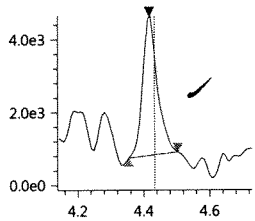
4_2-FTS-13C
Conc 4.7594
RT 4.220 Area 483755
Q 328.80>309.05 1.56e5



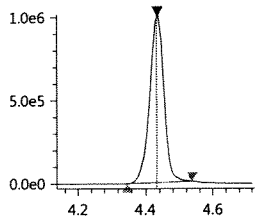
4_2-FTS_1
Conc 0.0041
RT 4.220 Area 505
Q 327.00>307.05 1.57e2



PFHpA
Conc 0.0191
RT 4.417 Area 12102
Q 362.90>319.00 4.65e3

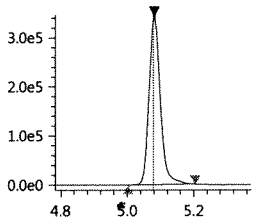


PFHpA-13C_IS
Conc 5.0000
RT 4.434 Area 2879986
ISTD 366.90>322.10 1.02e6

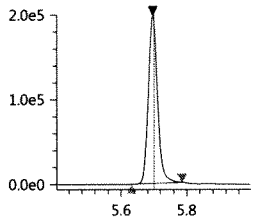


JUL 27 2017

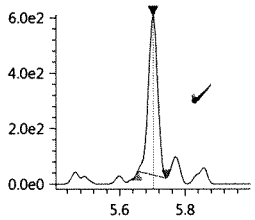
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.082 Area 807356
ISTD 572.80>419.05 3.47e5



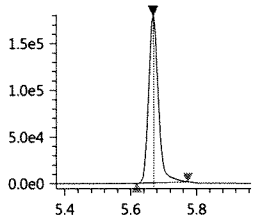
N-MeFOSA_IS
Conc 5.0000
RT 5.696 Area 400229
ISTD 514.90>168.90 2.01e5



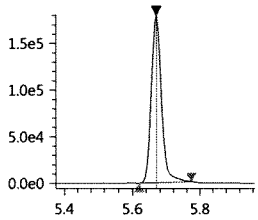
N-MeFOSA
Conc 0.0128
RT 5.702 Area 1160
Q 512.00>169.10 6.12e2



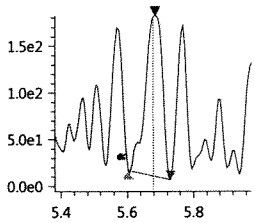
N-MeFOSE-d7
Conc 3.5633
RT 5.669 Area 374087
Q 622.70>59.10 1.82e5



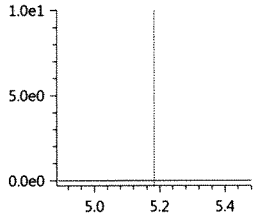
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.669 Area 374087
ISTD 622.70>59.10 1.82e5



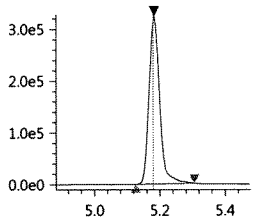
N-MeFOSE
Conc 0.0047
RT 5.684 Area 613
Q 616.00>59.00 1.82e2



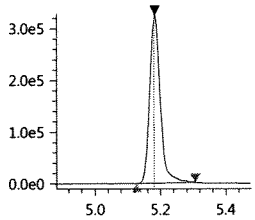
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 0.00e0



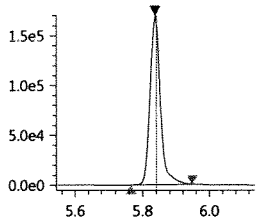
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.182 Area 740689
ISTD 588.80>419.00 3.29e5



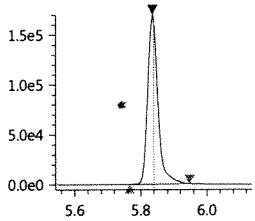
N-EtFOSAA-d5
Conc 4.5641
RT 5.182 Area 740689
Q 588.80>419.00 3.29e5



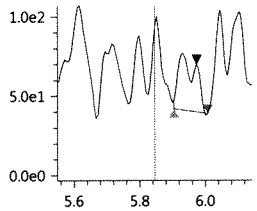
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.836 Area 366033
ISTD 530.90>169.15 1.70e5



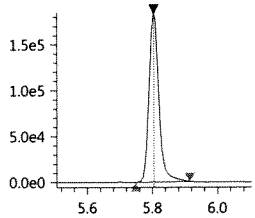
N-EtFOSA-d9
Conc 3.3839
RT 5.836 Area 366033
Q 530.90>169.15 1.70e5



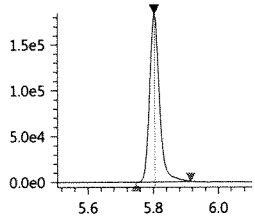
N-EtFOSA
Conc 0.0094
RT 5.974 Area 127
Q 526.90>169.10 1.07e2



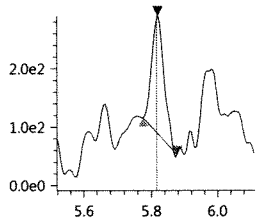
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.804 Area 392247
ISTD 638.70>59.10 1.85e5



N-EtFOSE-d9
Conc 3.0981
RT 5.804 Area 392247
Q 638.70>59.10 1.85e5



N-EtFOSE
Conc 0.0042
RT 5.819 Area 513
Q 630.00>58.90 2.90e2



Validation Report

Data File: J:\LCMS06\Data\072617_b3\072617_131
Lab ID: KQ1710167-03
RunType: MB
Matrix: Drinking Water

Date Acquired: 7/26/17 14:27
Batch ID: 555060
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-6:2 FTS	178	70	130	natives ok
	13C2-8:2 FTS	170	70	130	↓
Surrogates	13C2-8:2 FTS	162	50	150	Hi bias, ND

Primary Review: [illegible] 7-27-17

Secondary Review: [illegible] JUL 27 2017

Printed: 7/27/17 11:45
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072617_b3\072617_131	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 14:27	**Vial:**	2
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ1710167-03	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Drinking Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/22/17

Analysis Lot:	555060	**Prep Lot:**	293673	**Report Group:**	KQ1710167
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	7/25/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.699	393546	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.417	2512124	5.7004	114	19 - 126	Y
13C2-PFHxA	4.248	3586814	5.7978	116	10 - 151	Y
18O2-PFHxS	4.438	401834	4.3873	88	20 - 128	Y
13C2-6:2 FTS	4.604	466081	7.7811	156	10 - 187	Y
13C4-PFOA	4.614	4419633	5.5169	110	13 - 142	Y
13C5-PFNA	4.794	3428079	4.7678	95	15 - 143	Y
13C4-PFOS	4.778	459309	4.5939	92	11 - 131	Y
13C2-PFDA	4.983	3216471	5.4178	108	25 - 129	Y
13C2-PFUnDA	5.171	3500047	4.9528	99	16 - 129	Y
13C2-PFDoDA	5.353	4174781	4.6641	93	17 - 114	Y
D7-MeFOSE	5.673	329863	3.1954	64	32 - 113	Y
D9-EtFOSE	5.807	353975	2.8433	57	20 - 113	Y
D5-EtFOSA	5.839	271640	2.5539	51	19 - 103	Y
13C2-8:2 FTS	4.981	438147	8.1188	162 * Hi bias,	50 - 150	Y
13C2-PFTeDA	5.667	3014376	4.1643	83 ND	50 - 150	Y
13C4-PFHpA	4.440	3358973	5.3838	108	50 - 150	Y
13C5-PFPeA	3.985	1115257	5.1178	102	50 - 150	Y
13C3-PFBS	4.034	510203	3.3182	66	50 - 150	Y
13C8-FOSA	5.313	1004496	3.6982	74	50 - 150	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	0	0	0	0	U	Y
Perfluoropentanoic acid (PFPeA)	3.985	69010	0.0141	0.47	U	Y

Printed: 7/27/17 11:45
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072617_b3\072617_131	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 14:27	**Vial:**	2
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ1710167-03	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	0	0	0	0	U	Y
Perfluorohexanoic acid (PFHxA)	4.245	40795	0.0215	0.72	U	Y
Perfluoroheptanoic acid (PFHpA)	4.434	11565	0.0157	0.52	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.450	1454	0.0130	0.43	U	Y
Perfluorooctanoic acid (PFOA)	4.611	21058	0.0188	0.63	J	Y
Perfluoroheptane sulfonic acid (PFHpS)	0	0	0	0	U	Y
Perfluorononanoic acid (PFNA)	4.791	14066	0.0186	0.62	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.780	916	0.0123	0.41	U	Y
Perfluorodecanoic acid (PFDA)	4.979	13187	0.0150	0.50	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.170	15920	0.0197	0.66	U	Y
Perfluorooctane sulfonamide (FOSA)	5.314	2542	0.0082	0.27	U	Y
Perfluorododecanoic acid (PFDoDA)	5.354	5978	0.0110	0.37	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.518	8160	0.0136	0.45	U	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.698	651	0.0081	0.27	U	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.686	1470	0.0127	0.42	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.670	29792	0.0029	0.097	U	Y
N-Ethyl perfluorooctane sulfonamidoethanol	0	0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0	0	0	0	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.982	394	0.0047	0.16	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.607	399	0.0032	0.11	U	Y
Perfluorodecane sulfonic acid (PFDS)	0	0	0	0	U	Y

Prep Amount:	60 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 11:45

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072617_131

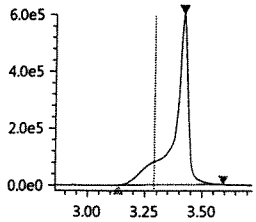
Sample ID: KQ1710167-03
Date acquired: 7/26/2017 2:27:58 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b3\072617_131.lcd
Vial: 20 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.417	2512124	2512124	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.417	2512124	393546	1	5.7004	ng/mL	----	----	Auto
PFBA	----	----	----	2	----	ng/mL	----	----	ND(W/B)
PFPeA-13C_IS	3.985	1115257	1115257	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.985	1115257	393546	1	5.1178	ng/mL	----	----	Auto
PFPeA	3.985	69010	1115257	4	0.0141	ng/mL	----	----	M
PFBS_1	----	----	----	16	----	ng/mL	----	----	ND(W/B)
PFBS-13C	4.034	510203	393546	1	3.3182	ng/mL	----	----	Auto
PFBS-13C_IS	4.034	510203	510203	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.248	3586814	3586814	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.248	3586814	393546	1	5.7978	ng/mL	----	----	Auto
PFHxA	4.245	40795	3586814	6	0.0215	ng/mL	----	----	Auto
HPFO_DA	----	----	----	3	----	ng/mL	----	----	NI
HFPO_DA-13C_IS	4.314	617498	617498	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.314	617498	393546	1	4.0266	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.221	575991	575991	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.221	575991	393546	1	5.7631	ng/mL	----	----	Auto
4_2-FTS_1	----	----	----	5	----	ng/mL	----	----	NI
PFHpA	4.434	11565	3358973	8	0.0157	ng/mL	----	----	Auto
PFHpA-13C_IS	4.440	3358973	3358973	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.440	3358973	393546	1	5.3838	ng/mL	----	----	Auto
PFHxS-18O_IS	4.438	401834	401834	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.438	401834	393546	1	4.3873	ng/mL	----	----	Auto
PFHxS_1	4.450	1454	401834	7	0.0130	ng/mL	----	----	M
6_2-FTS-13C	4.604	466081	393546	1	7.7811	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.604	466081	466081	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.607	399	466081	10	0.0032	ng/mL	----	----	Auto
PFHpS_1	----	----	----	7	----	ng/mL	----	----	ND(W/B)
PFOA-13C_IS	4.614	4419633	4419633	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.614	4419633	393546	1	5.5169	ng/mL	----	----	Auto
PFOA	4.611	21058	4419633	9	0.0188	ng/mL	----	----	Auto
PFOS_1	4.780	916	459309	13	0.0123	ng/mL	----	----	M
PFOS-13C_IS	4.778	459309	459309	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.778	459309	393546	1	4.5939	ng/mL	----	----	Auto
PFNA-13C_IS	4.794	3428079	3428079	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.794	3428079	393546	1	4.7678	ng/mL	----	----	Auto
PFNA	4.791	14066	3428079	11	0.0186	ng/mL	----	----	Auto
PFDA-13C_IS	4.983	3216471	3216471	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.983	3216471	393546	1	5.4178	ng/mL	----	----	Auto
PFDA	4.979	13187	3216471	12	0.0150	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.981	438147	438147	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.981	438147	393546	1	8.1188	ng/mL	----	----	Auto
8_2-FTS_1	4.982	394	438147	15	0.0047	ng/mL	----	----	Auto
PFDS_1	----	----	----	13	----	ng/mL	----	----	NI
PFUnA	5.170	15920	3500047	14	0.0197	ng/mL	----	----	Auto
PFUnA-13C_IS	5.171	3500047	3500047	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.171	3500047	393546	1	4.9528	ng/mL	----	----	Auto
PFDoA	5.354	5978	4174781	17	0.0110	ng/mL	----	----	Auto
PFDoA-13C	5.353	4174781	393546	1	4.6641	ng/mL	----	----	Auto
PFDoA-13C_IS	5.353	4174781	4174781	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	----	----	----	15	----	ng/mL	----	----	ND(W/B)
PFTrDA	5.518	8160	3014376	22	0.0136	ng/mL	----	----	Auto
PFTeDA	5.670	29792	3014376	22	0.0029	ng/mL	----	----	Auto
PFTeDA-13C	5.667	3014376	393546	1	4.1643	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.667	3014376	3014376	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.313	1004496	1004496	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.313	1004496	393546	1	3.6982	ng/mL	----	----	Auto
FOSA	5.314	2542	1004496	18	0.0082	ng/mL	----	----	Auto
N-MeFOSAA	5.079	1156	708936	19	0.0102	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.090	708936	393546	1	4.0302	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.090	708936	708936	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.699	393546	393546	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.698	651	329863	20	0.0081	ng/mL	----	----	Auto
N-MeFOSE-d7	5.673	329863	393546	1	3.1954	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.673	329863	329863	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	5.686	1470	329863	20	0.0127	ng/mL	----	----	M
N-EtFOSAA	----	----	----	21	----	ng/mL	----	----	ND(W/B)

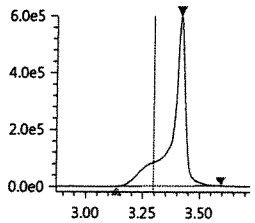
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.189	699975	699975	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.189	699975	393546	1	4.3865	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.839	271640	271640	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.839	271640	393546	1	2.5539	ng/mL	----	----	Auto
N-EtFOSA	----	----	----	23	----	ng/mL	----	----	NI
N-EtFOSE-d9_IS	5.807	353975	353975	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.807	353975	393546	1	2.8433	ng/mL	----	----	Auto
N-EtFOSE	----	----	----	24	----	ng/mL	----	----	NI

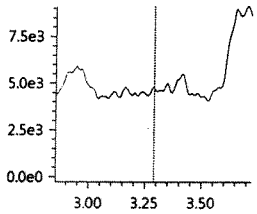
PFBA-13C_IS
Conc 5.0000
RT 3.417 Area 2512124
ISTD 216.90>172.15 6.01e5



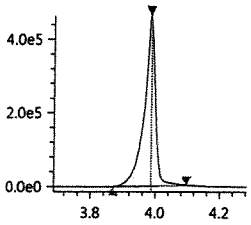
PFBA-13C
Conc 5.7004
RT 3.417 Area 2512124
Q 216.90>172.15 6.01e5



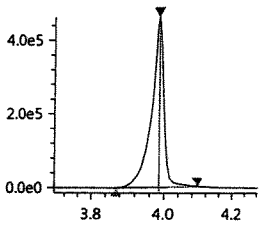
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 9.13e3



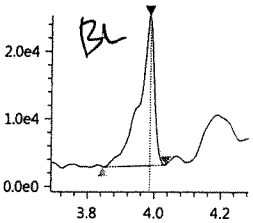
PFPeA-13C_IS
Conc 5.0000
RT 3.985 Area 1115257
ISTD 267.90>223.00 4.64e5



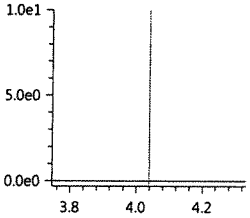
PFPeA-13C
Conc 5.1178
RT 3.985 Area 1115257
Q 267.90>223.00 4.64e5



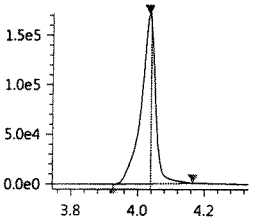
PFPeA
Conc 0.0141
RT 3.985 Area 69010
Q 263.05>219.10 2.53e4



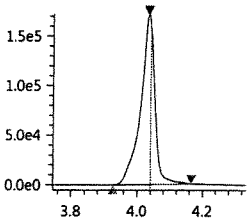
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 0.00e0



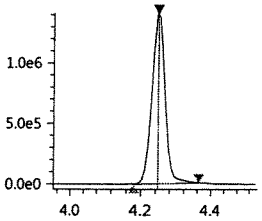
PFBS-13C
Conc 3.3182
RT 4.034 Area 510203
Q 301.80>80.00 1.72e5



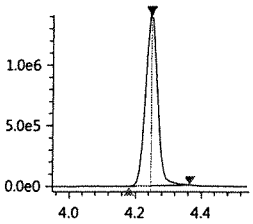
PFBS-13C_IS
Conc 5.0000
RT 4.034 Area 510203
ISTD 301.80>80.00 1.72e5



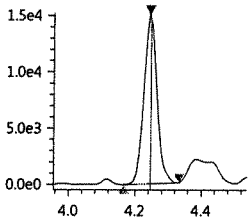
PFHxA-13C_IS
Conc 5.0000
RT 4.248 Area 3586814
ISTD 314.90>270.10 1.41e6



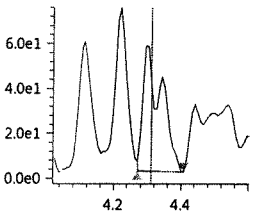
PFHxA-13C
Conc 5.7978
RT 4.248 Area 3586814
Q 314.90>270.10 1.41e6



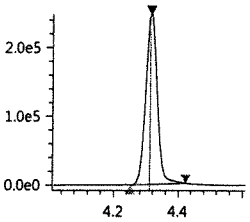
PFHxA
Conc 0.0215
RT 4.245 Area 40795
Q 313.00>269.00 1.52e4



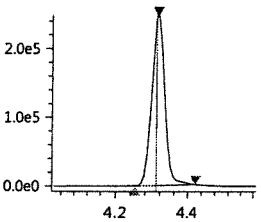
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 7.60e1



HFPO_DA-13C_IS
Conc 5.0000
RT 4.314 Area 617498
ISTD 332.00>286.80 2.49e5

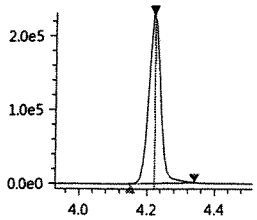


HFPO_DA-13C
Conc 4.0266
RT 4.314 Area 617498
Q 332.00>286.80 2.49e5

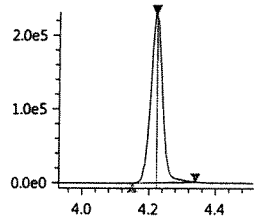


JUL 27 2017

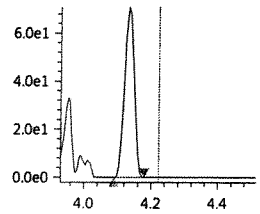
4_2-FTS-13C_IS
Conc 5.0000
RT 4.221 Area 575991
ISTD 328.80>309.05 2.31e5



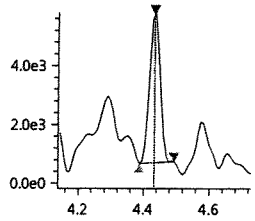
4_2-FTS-13C
Conc 5.7631
RT 4.221 Area 575991
Q 328.80>309.05 2.31e5



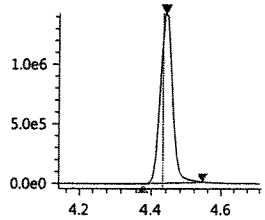
4_2-FTS_1
Conc ----
RT ---- Area ----
Q 327.00>307.05 7.10e1



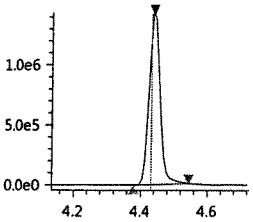
PFHpA
Conc 0.0157
RT 4.434 Area 11565
Q 362.90>319.00 5.80e3



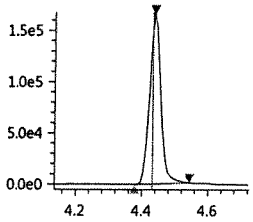
PFHpA-13C_IS
Conc 5.0000
RT 4.440 Area 3358973
ISTD 366.90>322.10 1.43e6



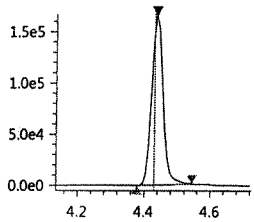
PFHpA-13C
Conc 5.3838
RT 4.440 Area 3358973
Q 366.90>322.10 1.43e6



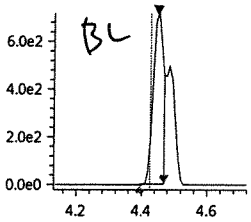
PFHxS-18O_IS
Conc 5.0000
RT 4.438 Area 401834
ISTD 402.70>84.05 1.67e5



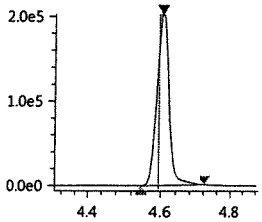
PFHxS-18O
Conc 4.3873
RT 4.438 Area 401834
Q 402.70>84.05 1.67e5



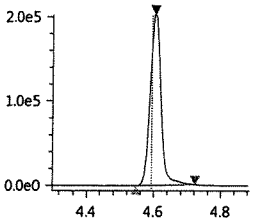
PFHxS_1
Conc 0.0130
RT 4.450 Area 1454
Q 399.00>80.00 7.19e2



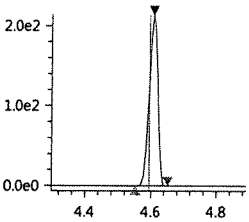
6_2-FTS-13C
Conc 7.7811
RT 4.604 Area 466081
Q 428.90>409.00 2.03e5



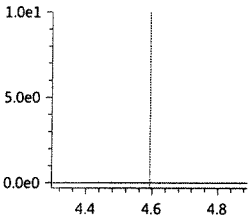
6_2-FTS-13C_IS
Conc 5.0000
RT 4.604 Area 466081
ISTD 428.90>409.00 2.03e5



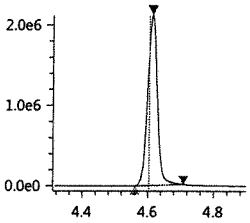
6_2-FTS_1
Conc 0.0032
RT 4.607 Area 399
Q 427.00>407.00 2.14e2



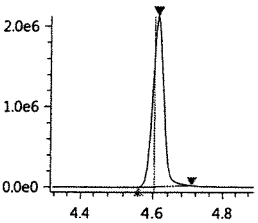
PFHpS_1
Conc ----
RT ---- Area ----
Q 449.00>80.15 0.00e0



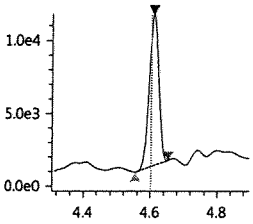
PFOA-13C_IS
Conc 5.0000
RT 4.614 Area 4419633
ISTD 416.80>372.05 2.12e6



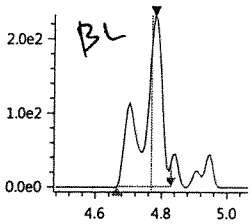
PFOA-13C
Conc 5.5169
RT 4.614 Area 4419633
Q 416.80>372.05 2.12e6



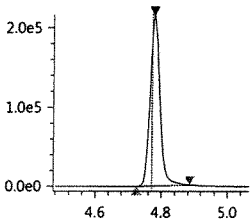
PFOA
Conc 0.0188
RT 4.611 Area 21058
Q 413.00>369.00 1.18e4



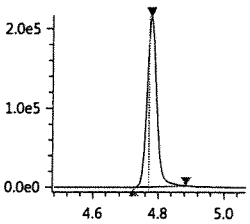
PFOS_1
Conc 0.0123
RT 4.780 Area 916
Q 499.00>80.00 2.32e2



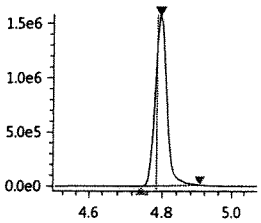
PFOS-13C_IS
Conc 5.0000
RT 4.778 Area 459309
ISTD 502.80>80.05 2.17e5



PFOS-13C
Conc 4.5939
RT 4.778 Area 459309
Q 502.80>80.05 2.17e5

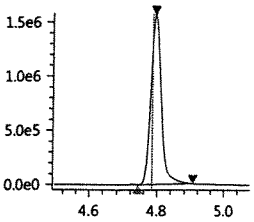


PFNA-13C_IS
Conc 5.0000
RT 4.794 Area 3428079
ISTD 467.80>423.00 1.58e6

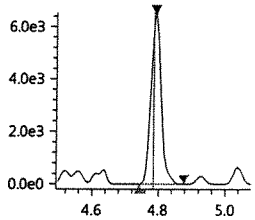


JUL 27 2017

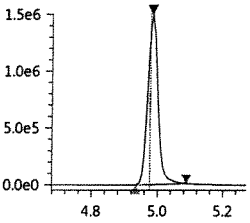
PFNA-13C
Conc 4.7678
RT 4.794 Area 3428079
Q 467.80>423.00 1.58e6



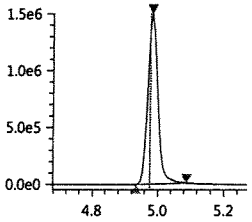
PFNA
Conc 0.0186
RT 4.791 Area 14066
Q 463.00>418.90 6.54e3



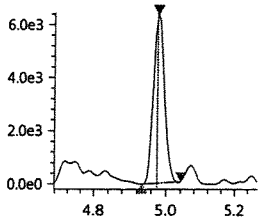
PFDA-13C_IS
Conc 5.0000
RT 4.983 Area 3216471
ISTD 514.80>469.95 1.51e6



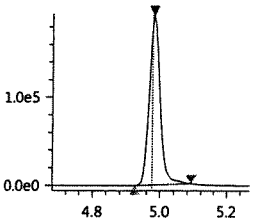
PFDA-13C
Conc 5.4178
RT 4.983 Area 3216471
Q 514.80>469.95 1.51e6



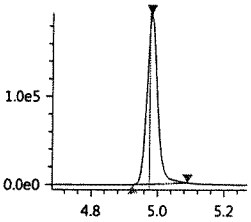
PFDA
Conc 0.0150
RT 4.979 Area 13187
Q 513.00>468.80 6.46e3



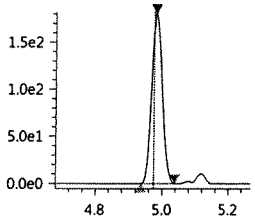
8_2-FTS-13C_IS
Conc 5.0000
RT 4.981 Area 438147
ISTD 528.80>509.00 1.95e5



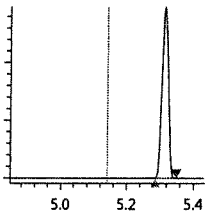
8_2-FTS-13C
Conc 8.1188
RT 4.981 Area 438147
Q 528.80>509.00 1.95e5



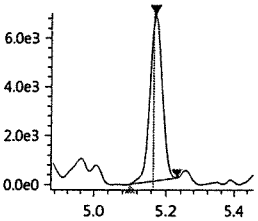
8_2-FTS_1
Conc 0.0047
RT 4.982 Area 394
Q 526.90>506.90 1.82e2



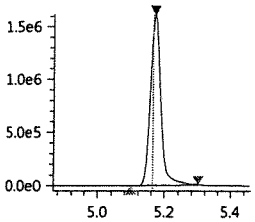
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 2.97e2



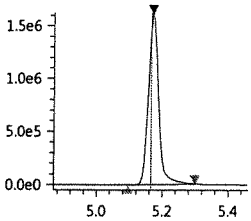
PFUnA
Conc 0.0197
RT 5.170 Area 15920
Q 563.00>518.90 7.03e3



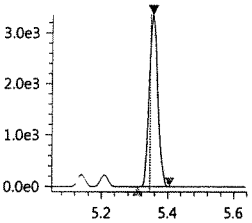
PFUnA-13C_IS
Conc 5.0000
RT 5.171 Area 3500047
ISTD 564.80>519.95 1.62e6



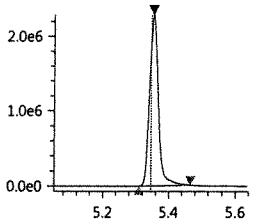
PFUnA-13C
Conc 4.9528
RT 5.171 Area 3500047
Q 564.80>519.95 1.62e6



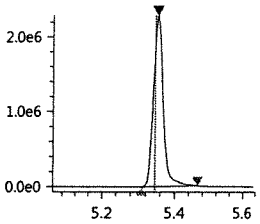
PFDoA
Conc 0.0110
RT 5.354 Area 5978
Q 613.05>569.00 3.35e3



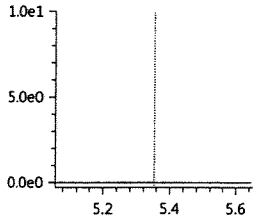
PFDoA-13C
Conc 4.6641
RT 5.353 Area 4174781
Q 614.80>569.95 2.29e6



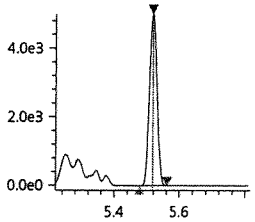
PFDoA-13C_IS
Conc 5.0000
RT 5.353 Area 4174781
ISTD 614.80>569.95 2.29e6



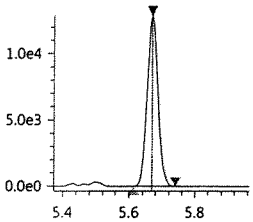
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



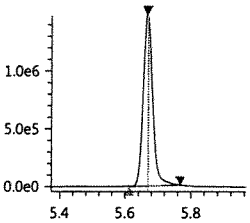
PFTrDA
Conc 0.0136
RT 5.518 Area 8160
Q 663.00>618.90 4.99e3



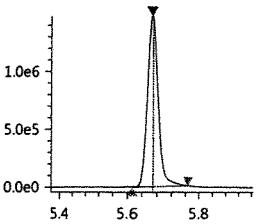
PFTeDA
Conc 0.0029
RT 5.670 Area 29792
Q 713.40>669.00 1.29e4



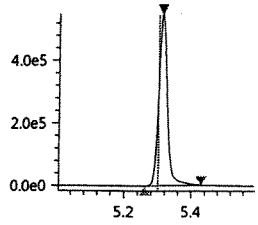
PFTeDA-13C
Conc 4.1643
RT 5.667 Area 3014376
Q 714.70>669.90 1.48e6



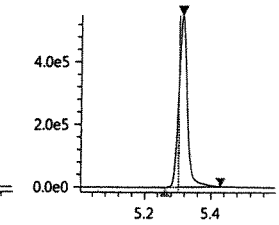
PFTeDA-13C_IS
Conc 5.0000
RT 5.667 Area 3014376
ISTD 714.70>669.90 1.48e6



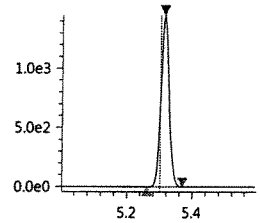
FOSA-13C_IS
Conc 5.0000
RT 5.313 Area 1004496
ISTD 506.00>78.05 5.50e5



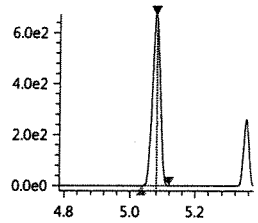
FOSA-13C
Conc 3.6982
RT 5.313 Area 1004496
Q 506.00>78.05 5.50e5



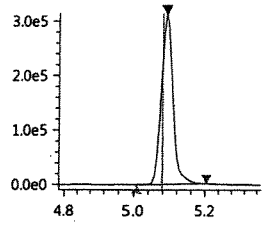
FOSA
Conc 0.0082
RT 5.314 Area 2542
Q 498.00>78.00 1.45e3



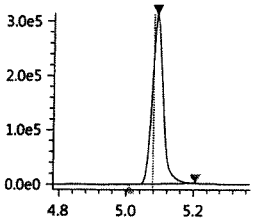
N-MeFOSAA
Conc 0.0102
RT 5.079 Area 1156
Q 570.20>419.00 6.73e2



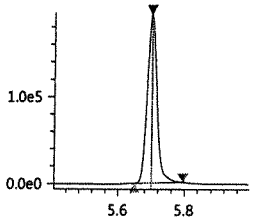
N-MeFOSAA-d3
Conc 4.0302
RT 5.090 Area 708936
Q 572.80>419.05 3.15e5



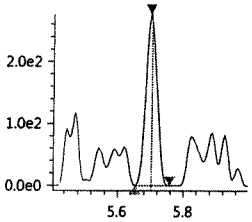
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.090 Area 708936
ISTD 572.80>419.05 3.15e5



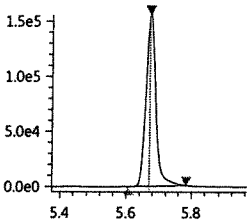
N-MeFOSA_IS
Conc 5.0000
RT 5.699 Area 393546
ISTD 514.90>168.90 1.96e5



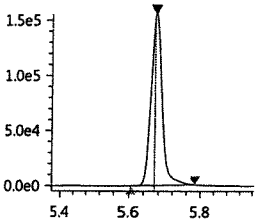
N-MeFOSA
Conc 0.0081
RT 5.698 Area 651
Q 512.00>169.10 2.76e2



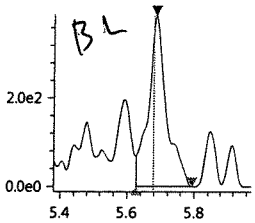
N-MeFOSE-d7
Conc 3.1954
RT 5.673 Area 329863
Q 622.70>59.10 1.55e5



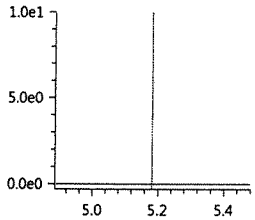
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.673 Area 329863
ISTD 622.70>59.10 1.55e5



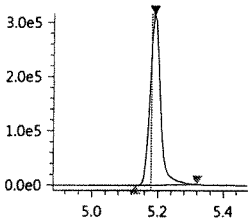
N-MeFOSE
Conc 0.0127
RT 5.686 Area 1470
Q 616.00>59.00 3.90e2



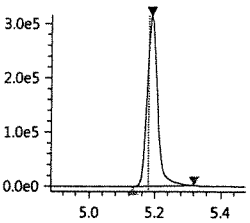
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 0.00e0



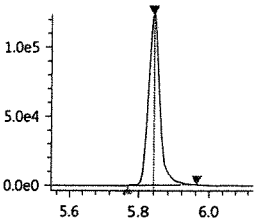
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.189 Area 699975
ISTD 588.80>419.00 3.17e5



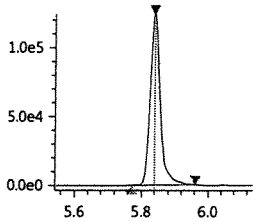
N-EtFOSAA-d5
Conc 4.3865
RT 5.189 Area 699975
Q 588.80>419.00 3.17e5



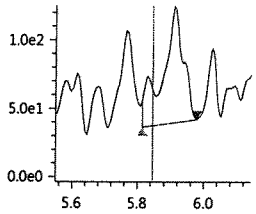
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.839 Area 271640
ISTD 530.90>169.15 1.24e5



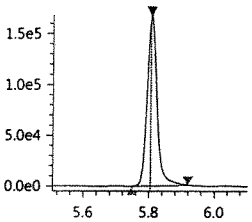
N-EtFOSA-d9
Conc 2.5539
RT 5.839 Area 271640
Q 530.90>169.15 1.24e5



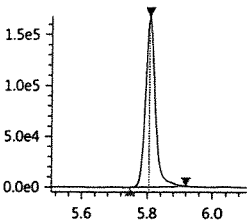
N-EtFOSA
Conc ----
RT ---- Area ----
Q 526.90>169.10 1.25e2



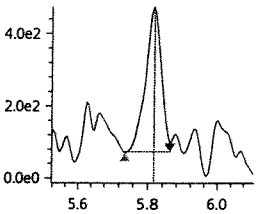
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.807 Area 353975
ISTD 638.70>59.10 1.68e5



N-EtFOSE-d9
Conc 2.8433
RT 5.807 Area 353975
Q 638.70>59.10 1.68e5



N-EtFOSE
Conc ----
RT ---- Area ----
Q 630.00>58.90 4.74e2



JUL 27 2017

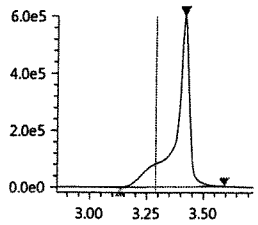
Insight Report

Printed at 7/27/2017 9:23:02 AM

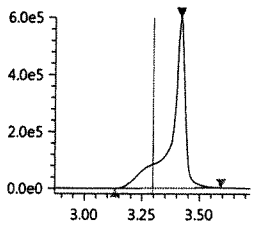
072617_131 B4

Sample ID: KQ1710167-03
Date acquired: 7/26/2017 2:27:58 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b3\072617_131.lcd
Vial: 20 | Inj. Volume: 15.0000uL | Tray: 2

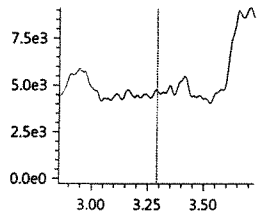
PFBA-13C_IS
Conc 5.0000
RT 3.417 Area 2512124
ISTD 216.90>172.15 6.01e5



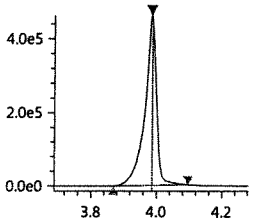
PFBA-13C
Conc 5.7004
RT 3.417 Area 2512124
Q 216.90>172.15 6.01e5



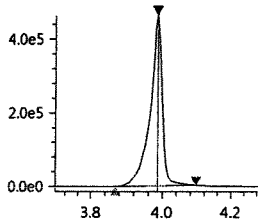
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 9.13e3



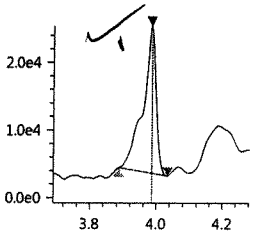
PFPeA-13C_IS
Conc 5.0000
RT 3.985 Area 1115257
ISTD 267.90>223.00 4.64e5



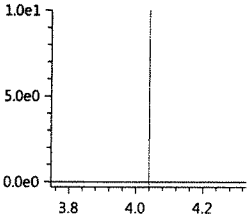
PFPeA-13C
Conc 5.1178
RT 3.985 Area 1115257
Q 267.90>223.00 4.64e5



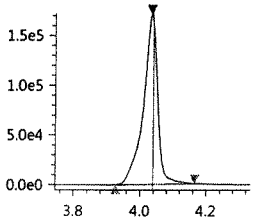
PFPeA
Conc 0.0030
RT 3.985 Area 61062
Q 263.05>219.10 2.53e4



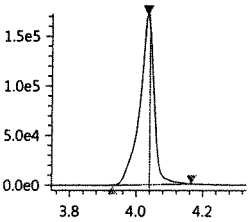
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 0.00e0



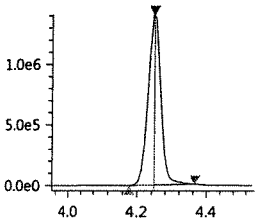
PFBS-13C
Conc 3.3182
RT 4.034 Area 510203
Q 301.80>80.00 1.72e5



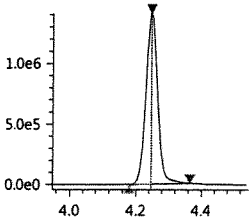
PFBS-13C_IS
Conc 5.0000
RT 4.034 Area 510203
ISTD 301.80>80.00 1.72e5



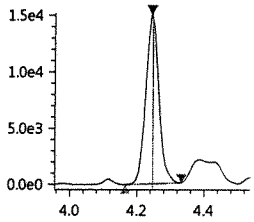
PFHxA-13C_IS
Conc 5.0000
RT 4.248 Area 3586814
ISTD 314.90>270.10 1.41e6



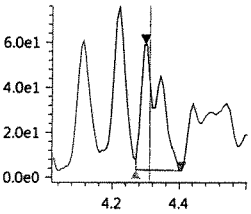
PFHxA-13C
Conc 5.7978
RT 4.248 Area 3586814
Q 314.90>270.10 1.41e6



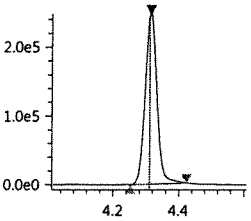
PFHxA
Conc 0.0215
RT 4.245 Area 40795
Q 313.00>269.00 1.52e4



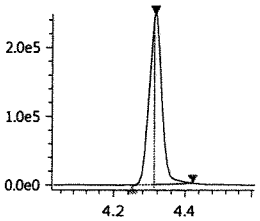
HPFO_DA
Conc 0.0018
RT 4.299 Area 217
Q 329.00>169.00 7.60e1



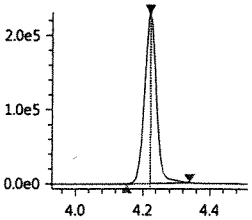
HFPO_DA-13C_IS
Conc 5.0000
RT 4.314 Area 617498
ISTD 332.00>286.80 2.49e5



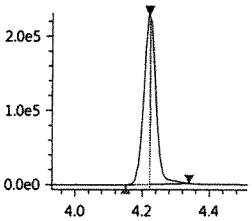
HFPO_DA-13C
Conc 4.0266
RT 4.314 Area 617498
Q 332.00>286.80 2.49e5



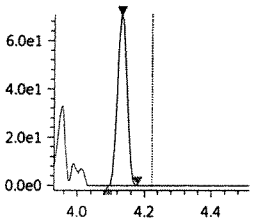
4_2-FTS-13C_IS
Conc 5.0000
RT 4.221 Area 575991
ISTD 328.80>309.05 2.31e5



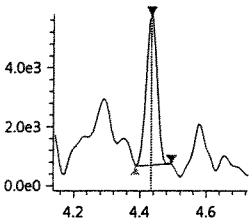
4_2-FTS-13C
Conc 5.7631
RT 4.221 Area 575991
Q 328.80>309.05 2.31e5



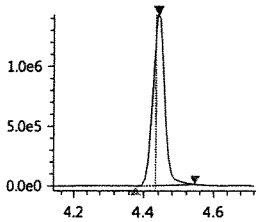
4_2-FTS_1
Conc 0.0010
RT 4.133 Area 141
Q 327.00>307.05 7.10e1



PFHpA
Conc 0.0157
RT 4.434 Area 11565
Q 362.90>319.00 5.80e3

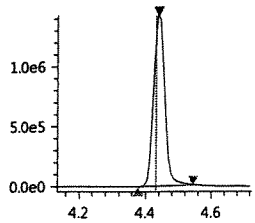


PFHpA-13C_IS
Conc 5.0000
RT 4.440 Area 3358973
ISTD 366.90>322.10 1.43e6

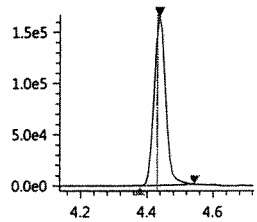


JUL 27 2017

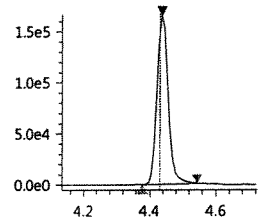
PFHpA-13C
Conc 5.3838
RT 4.440 Area 3358973
Q 366.90>322.10 1.43e6



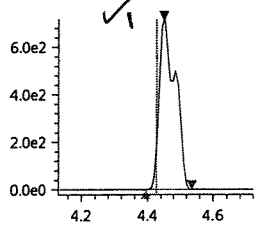
PFHxS-18O_IS
Conc 5.0000
RT 4.438 Area 401834
ISTD 402.70>84.05 1.67e5



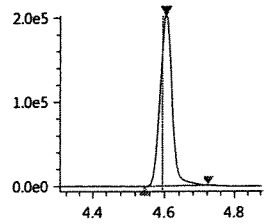
PFHxS-18O
Conc 4.3873
RT 4.438 Area 401834
Q 402.70>84.05 1.67e5



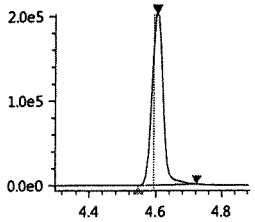
PFHxS_1
Conc 0.0225
RT 4.450 Area 2504
Q 399.00>80.00 7.19e2



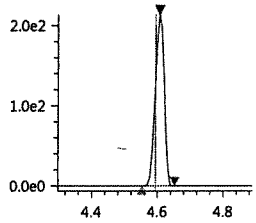
6_2-FTS-13C
Conc 7.7811
RT 4.604 Area 466081
Q 428.90>409.00 2.03e5



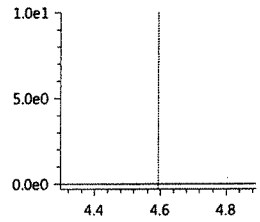
6_2-FTS-13C_IS
Conc 5.0000
RT 4.604 Area 466081
ISTD 428.90>409.00 2.03e5



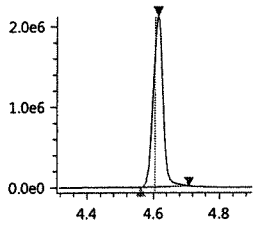
6_2-FTS_1
Conc 0.0032
RT 4.607 Area 399
Q 427.00>407.00 2.14e2



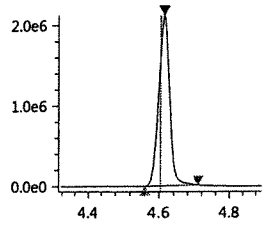
PFHpS_1
Conc ----
RT ---- Area ----
Q 449.00>80.15 0.00e0



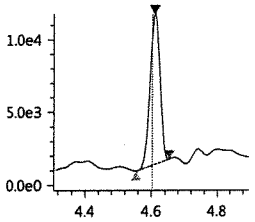
PFOA-13C_IS
Conc 5.0000
RT 4.614 Area 4419633
ISTD 416.80>372.05 2.12e6



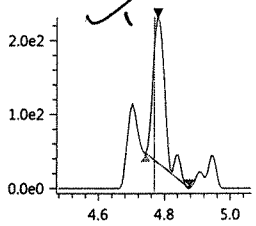
PFOA-13C
Conc 5.5169
RT 4.614 Area 4419633
Q 416.80>372.05 2.12e6



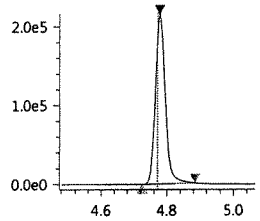
PFOA
Conc 0.0188
RT 4.611 Area 21058
Q 413.00>369.00 1.18e4



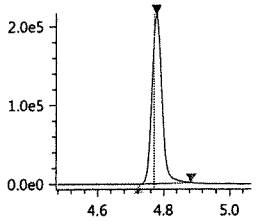
PFOS_1
Conc 0.0066
RT 4.780 Area 495
Q 499.00>80.00 2.32e2



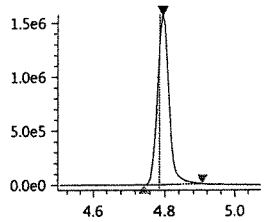
PFOS-13C_IS
Conc 5.0000
RT 4.778 Area 459309
ISTD 502.80>80.05 2.17e5



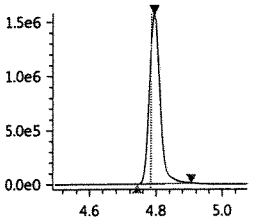
PFOS-13C
Conc 4.5939
RT 4.778 Area 459309
Q 502.80>80.05 2.17e5



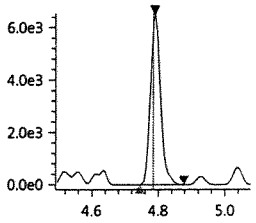
PFNA-13C_IS
Conc 5.0000
RT 4.794 Area 3428079
ISTD 467.80>423.00 1.58e6



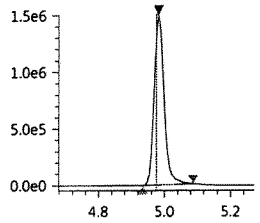
PFNA-13C
Conc 4.7678
RT 4.794 Area 3428079
Q 467.80>423.00 1.58e6



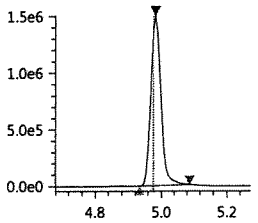
PFNA
Conc 0.0186
RT 4.791 Area 14066
Q 463.00>418.90 6.54e3



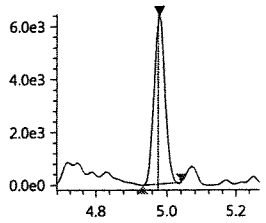
PFDA-13C_IS
Conc 5.0000
RT 4.983 Area 3216471
ISTD 514.80>469.95 1.51e6



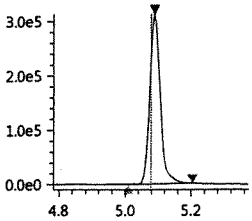
PFDA-13C
Conc 5.4178
RT 4.983 Area 3216471
Q 514.80>469.95 1.51e6



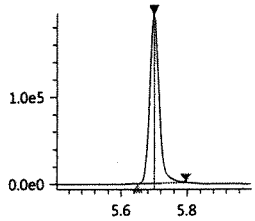
PFDA
Conc 0.0150
RT 4.979 Area 13187
Q 513.00>468.80 6.46e3



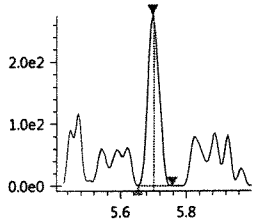
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.090 Area 708936
ISTD 572.80>419.05 3.15e5



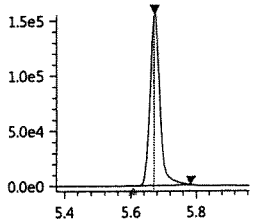
N-MeFOSA_IS
Conc 5.0000
RT 5.699 Area 393546
ISTD 514.90>168.90 1.96e5



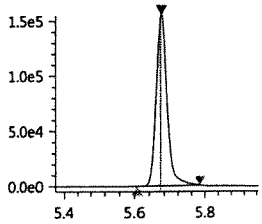
N-MeFOSA
Conc 0.0081
RT 5.698 Area 651
Q 512.00>169.10 2.76e2



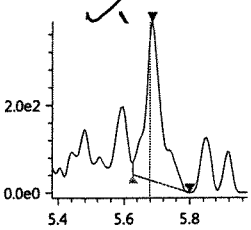
N-MeFOSE-d7
Conc 3.1954
RT 5.673 Area 329863
Q 622.70>59.10 1.55e5



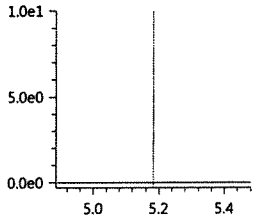
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.673 Area 329863
ISTD 622.70>59.10 1.55e5



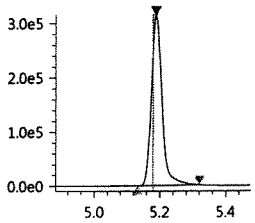
N-MeFOSE
Conc 0.0109
RT 5.686 Area 1260
Q 616.00>59.00 3.90e2



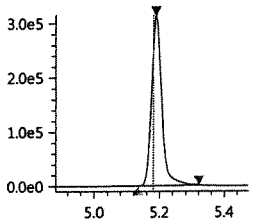
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 0.00e0



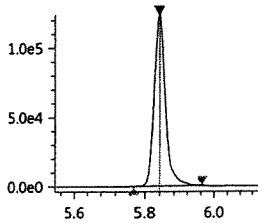
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.189 Area 699975
ISTD 588.80>419.00 3.17e5



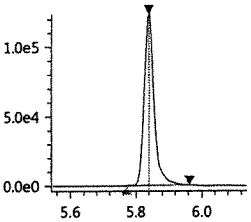
N-EtFOSAA-d5
Conc 4.3865
RT 5.189 Area 699975
Q 588.80>419.00 3.17e5



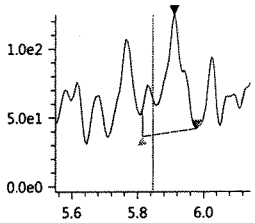
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.839 Area 271640
ISTD 530.90>169.15 1.24e5



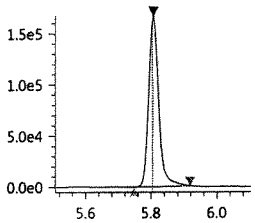
N-EtFOSA-d9
Conc 2.5539
RT 5.839 Area 271640
Q 530.90>169.15 1.24e5



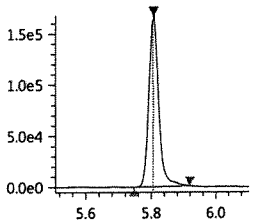
N-EtFOSA
Conc 0.0370
RT 5.912 Area 372
Q 526.90>169.10 1.25e2



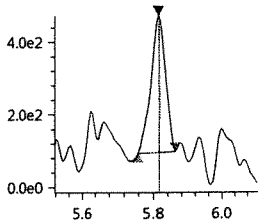
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.807 Area 353975
ISTD 638.70>59.10 1.68e5



N-EtFOSE-d9
Conc 2.8433
RT 5.807 Area 353975
Q 638.70>59.10 1.68e5



N-EtFOSE
Conc 0.0095
RT 5.814 Area 1054
Q 630.00>58.90 4.74e2



Validation Report

Data File: J:\LCMS06\Data\072417_b1\072417_110
Lab ID: K1707559-001
RunType: N/A
Matrix: Soil

Date Acquired: 7/24/17 16:24
Batch ID: 554762
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	Perfluoroheptane sulfonic acid (PFHpS)	132	70	130	Narrate ↑ bias, ND

Primary Review: JT 7/25/17
JUL 25 2017

Secondary Review: [signature]

Printed: 7/25/17 8:15
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072417_b1\072417_110	**Instrument:**	K-LCMS-06
Acqu Date:	7/24/17 16:24	**Vial:**	4
Run Type:	N/A	**Dilution:**	1
Lab ID:	K1707559-001	**Raw Units:**	ng/mL

Bottle ID:	K1707559-001.01	**Tier:**	II	**Matrix:**	Soil
Prod Code:	PFOA	**Collect Date:**	7/18/17	**Receive Date:**	7/19/17

Analysis Lot:	554762	**Prep Lot:**	293302	**Report Group:**	K1707559
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3550B		
		Prep Date:	7/24/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.705	489648	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.419	1880923	3.4304	69	50 - 150	Y
13C2-PFHxA	4.254	3180905	4.1325	83	50 - 150	Y
18O2-PFHxS	4.440	368155	3.2307	65	50 - 150	Y
13C2-6:2 FTS	4.608	274910	3.6888	74	50 - 150	Y
13C4-PFOA	4.619	3958839	3.9718	79	50 - 150	Y
13C5-PFNA	4.795	3372701	3.7701	75	50 - 150	Y
13C4-PFOS	4.780	435450	3.5005	70	50 - 150	Y
13C2-PFDA	4.984	3192309	4.3218	86	50 - 150	Y
13C2-PFUnDA	5.172	3929506	4.4692	89	50 - 150	Y
13C2-PFDoDA	5.355	4987765	4.4787	90	50 - 150	Y
D7-MeFOSE	5.678	476405	3.7092	74	50 - 150	Y
D9-EtFOSE	5.813	490367	3.1657	63	50 - 150	Y
D5-EtFOSA	5.846	446471	3.3738	67	50 - 150	Y
13C2-8:2 FTS	4.982	303718	4.5233	90	50 - 150	Y
13C2-PFTeDA	5.671	3047249	3.3835	68	50 - 150	Y
13C4-PFHpA	4.444	2381417	3.0678	61	50 - 150	Y
13C5-PFPeA	3.991	916496	3.3803	68	50 - 150	Y
13C3-PFBS	4.039	639233	3.3414	67	50 - 150	Y
13C8-FOSA	5.317	1099087	3.2522	65	50 - 150	Y

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.420	30654	0.0633	0.67	J	Y
Perfluoropentanoic acid (PFPeA)	3.991	84885	0.0619	0.66	J	Y

Data File:	J:\LCMS06\Data\072417_b1\072417_110	**Instrument:**	K-LCMS-06
Acqu Date:	7/24/17 16:24	**Vial:**	4
Run Type:	N/A	**Dilution:**	1
Lab ID:	K1707559-001	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.028	1401	0.0129	0.14	U	Y
Perfluorohexanoic acid (PFHxA)	4.254	38516	0.0253	0.27	U	Y
Perfluoroheptanoic acid (PFHpA)	4.435	20026	0.0383	0.41	J	Y
Perfluorohexane sulfonic acid (PFHxS)	4.436	9403	0.0920	0.98	J	Y
Perfluorooctanoic acid (PFOA)	4.617	41007	0.0410	0.44	J	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.601	701	0.0087	0.093	U	Y
Perfluorononanoic acid (PFNA)	4.784	8827	0.0119	0.13	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.781	19770	0.2799	3.0		Y
Perfluorodecanoic acid (PFDA)	4.974	14557	0.0167	0.18	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.165	23141	0.0255	0.27	U	Y
Perfluorooctane sulfonamide (FOSA)	5.316	3863	0.0114	0.12	U	Y
Perfluorododecanoic acid (PFDoDA)	5.350	11436	0.0176	0.19	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.515	7313	0.0121	0.13	U	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.709	1322	0.0114	0.12	U	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.688	804	0.0048	0.051	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.672	44511	0.0473	0.50	U	Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.824	1507	0.0098	0.10	U	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0	0	0	0	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.983	912	0.0156	0.17	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.605	4629	0.0639	0.68	J	Y
Perfluorodecane sulfonic acid (PFDS)	0	0	0	0	U	Y

Prep Amount:	1.011 g	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	74.30

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/25/17 8:15

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072417_110

Sample ID: K1707559-001
Date acquired: 7/24/2017 4:24:10 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_110.lcd
Vial: 3 | Inj. Volume: 15.0000uL | Tray: 2

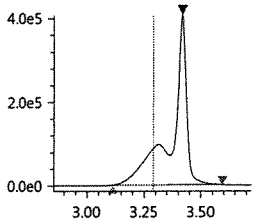
Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.419	1880923	1880923	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.419	1880923	489648	1	3.4304	ng/mL	----	----	Auto
PFBA	3.420	30654	1880923	2	0.0633	ng/mL	----	----	M
PFPeA-13C_IS	3.991	916496	916496	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.991	916496	489648	1	3.3803	ng/mL	----	----	Auto
PFPeA	3.991	84885	916496	4	0.0619	ng/mL	----	----	Auto
PFBS_1	4.028	1401	639233	16	0.0129	ng/mL	----	----	M
PFBS-13C	4.039	639233	489648	1	3.3414	ng/mL	----	----	Auto
PFBS-13C_IS	4.039	639233	639233	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.254	3180905	3180905	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.254	3180905	489648	1	4.1325	ng/mL	----	----	Auto
PFHxA	4.254	38516	3180905	6	0.0253	ng/mL	----	----	Auto
HPFO_DA	4.314	485	703697	3	0.0036	ng/mL	----	----	M
HFPO_DA-13C_IS	4.320	703697	703697	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.320	703697	489648	1	3.6881	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.228	426516	426516	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.228	426516	489648	1	3.4299	ng/mL	----	----	Auto
4_2-FTS_1	4.229	1076	426516	5	0.0099	ng/mL	----	----	M
PFHpA	4.435	20026	2381417	8	0.0383	ng/mL	----	----	M
PFHpA-13C_IS	4.444	2381417	2381417	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.444	2381417	489648	1	3.0678	ng/mL	----	----	Auto
PFHxS-18O_IS	4.440	368155	368155	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.440	368155	489648	1	3.2307	ng/mL	----	----	Auto
PFHxS_1	4.436	9403	368155	7	0.0920	ng/mL	----	----	M
6_2-FTS-13C	4.608	274910	489648	1	3.6888	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.608	274910	274910	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.605	4629	274910	10	0.0639	ng/mL	----	----	M
PFHpS_1	4.601	701	368155	7	0.0087	ng/mL	----	----	Auto
PFOA-13C_IS	4.619	3958839	3958839	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.619	3958839	489648	1	3.9718	ng/mL	----	----	Auto
PFOA	4.617	41007	3958839	9	0.0410	ng/mL	----	----	Auto
PFOS_1	4.781	19770	435450	13	0.2799	ng/mL	----	----	M
PFOS-13C_IS	4.780	435450	435450	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.780	435450	489648	1	3.5005	ng/mL	----	----	Auto
PFNA-13C_IS	4.795	3372701	3372701	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.795	3372701	489648	1	3.7701	ng/mL	----	----	Auto
PFNA	4.784	8827	3372701	11	0.0119	ng/mL	----	----	Auto
PFDA-13C_IS	4.984	3192309	3192309	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.984	3192309	489648	1	4.3218	ng/mL	----	----	Auto
PFDA	4.974	14557	3192309	12	0.0167	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.982	303718	303718	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.982	303718	489648	1	4.5233	ng/mL	----	----	Auto
8_2-FTS_1	4.983	912	303718	15	0.0156	ng/mL	----	----	M
PFDS_1	----	----	----	13	----	ng/mL	----	----	ND(W/B)
PFUnA	5.165	23141	3929506	14	0.0255	ng/mL	----	----	Auto
PFUnA-13C_IS	5.172	3929506	3929506	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.172	3929506	489648	1	4.4692	ng/mL	----	----	Auto
PFDoA	5.350	11436	4987765	17	0.0176	ng/mL	----	----	M
PFDoA-13C	5.355	4987765	489648	1	4.4787	ng/mL	----	----	Auto
PFDoA-13C_IS	5.355	4987765	4987765	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	----	----	----	15	----	ng/mL	----	----	ND(W/B)
PFTrDA	5.515	7313	3047249	22	0.0121	ng/mL	----	----	Auto
PFTeDA	5.672	44511	3047249	22	0.0473	ng/mL	----	----	Auto
PFTeDA-13C	5.671	3047249	489648	1	3.3835	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.671	3047249	3047249	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.317	1099087	1099087	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.317	1099087	489648	1	3.2522	ng/mL	----	----	Auto
FOSA	5.316	3863	1099087	18	0.0114	ng/mL	----	----	M
N-MeFOSAA	----	----	----	19	----	ng/mL	----	----	NI
N-MeFOSAA-d3	5.090	799657	489648	1	3.6537	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.090	799657	799657	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.705	489648	489648	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.709	1322	476405	20	0.0114	ng/mL	----	----	M
N-MeFOSE-d7	5.678	476405	489648	1	3.7092	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.678	476405	476405	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	5.688	804	476405	20	0.0048	ng/mL	----	----	M
N-EtFOSAA	----	----	----	21	----	ng/mL	----	----	ND(W/B)

JT

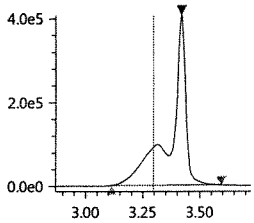
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.190	832946	832946	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.190	832946	489648	1	4.1953	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.846	446471	446471	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.846	446471	489648	1	3.3738	ng/mL	----	----	Auto
N-EtFOSA	----	----	----	23	----	ng/mL	----	----	NI
N-EtFOSE-d9_IS	5.813	490367	490367	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.813	490367	489648	1	3.1657	ng/mL	----	----	Auto
N-EtFOSE	5.824	1507	490367	24	0.0098	ng/mL	----	----	M

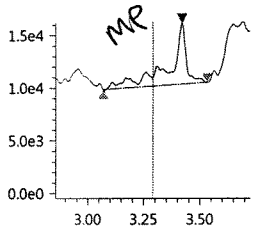
PFBA-13C_IS
Conc 5.0000
RT 3.419 Area 1880923
ISTD 216.90>172.15 4.08e5



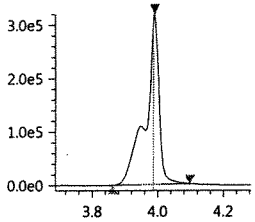
PFBA-13C
Conc 3.4304
RT 3.419 Area 1880923
Q 216.90>172.15 4.08e5



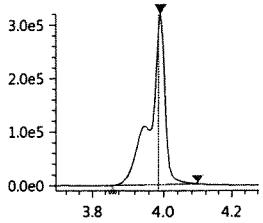
PFBA
Conc 0.0633
RT 3.420 Area 30654
Q 213.00>169.10 1.63e4



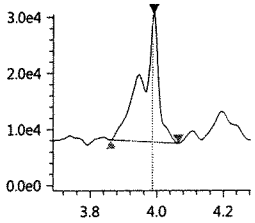
PFPeA-13C_IS
Conc 5.0000
RT 3.991 Area 916496
ISTD 267.90>223.00 3.21e5



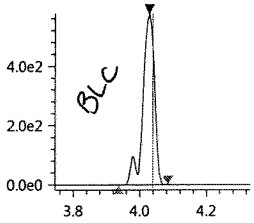
PFPeA-13C
Conc 3.3803
RT 3.991 Area 916496
Q 267.90>223.00 3.21e5



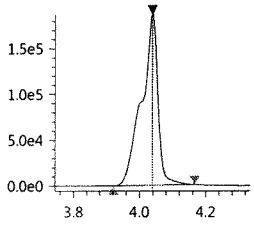
PFPeA
Conc 0.0619
RT 3.991 Area 84885
Q 263.05>219.10 3.05e4



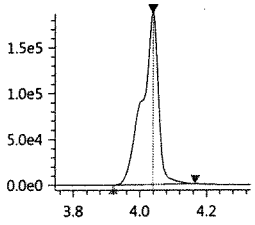
PFBS_1
Conc 0.0129
RT 4.028 Area 1401
Q 299.00>80.00 5.78e2



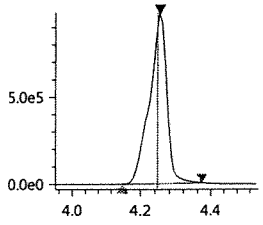
PFBS-13C
Conc 3.3414
RT 4.039 Area 639233
Q 301.80>80.00 1.88e5



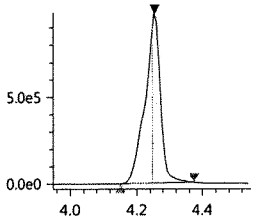
PFBS-13C_IS
Conc 5.0000
RT 4.039 Area 639233
ISTD 301.80>80.00 1.88e5



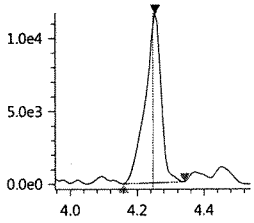
PFHxA-13C_IS
Conc 5.0000
RT 4.254 Area 3180905
ISTD 314.90>270.10 9.88e5



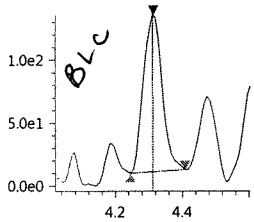
PFHxA-13C
Conc 4.1325
RT 4.254 Area 3180905
Q 314.90>270.10 9.88e5



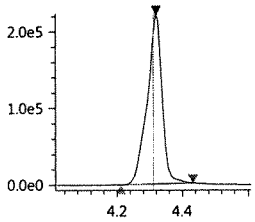
PFHxA
Conc 0.0253
RT 4.254 Area 38516
Q 313.00>269.00 1.18e4



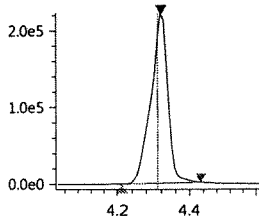
HPFO_DA
Conc 0.0036
RT 4.314 Area 485
Q 329.00>169.00 1.36e2



HFPO_DA-13C_IS
Conc 5.0000
RT 4.320 Area 703697
ISTD 332.00>286.80 2.24e5



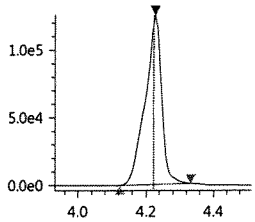
HFPO_DA-13C
Conc 3.6881
RT 4.320 Area 703697
Q 332.00>286.80 2.24e5



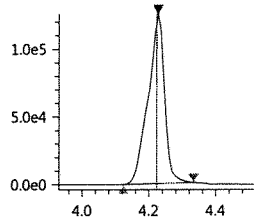
JUL 25 2017

JT

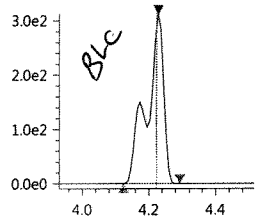
4_2-FTS-13C_IS
Conc 5.0000
RT 4.228 Area 426516
ISTD 328.80>309.05 1.26e5



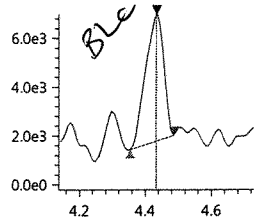
4_2-FTS-13C
Conc 3.4299
RT 4.228 Area 426516
Q 328.80>309.05 1.26e5



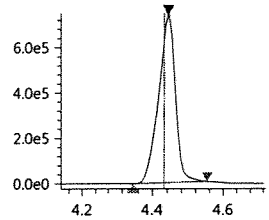
4_2-FTS_1
Conc 0.0099
RT 4.229 Area 1076
Q 327.00>307.05 3.14e2



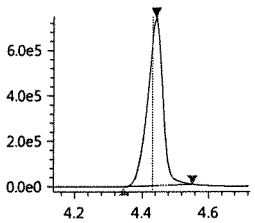
PFHpA
Conc 0.0383
RT 4.435 Area 20026
Q 362.90>319.00 6.99e3



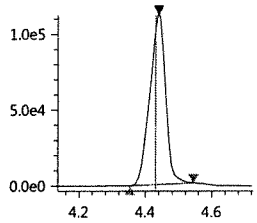
PFHpA-13C_IS
Conc 5.0000
RT 4.444 Area 2381417
ISTD 366.90>322.10 7.52e5



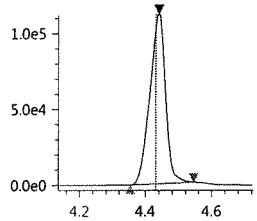
PFHpA-13C
Conc 3.0678
RT 4.444 Area 2381417
Q 366.90>322.10 7.52e5



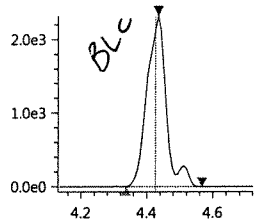
PFHxS-18O_IS
Conc 5.0000
RT 4.440 Area 368155
ISTD 402.70>84.05 1.12e5



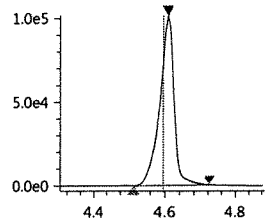
PFHxS-18O
Conc 3.2307
RT 4.440 Area 368155
Q 402.70>84.05 1.12e5



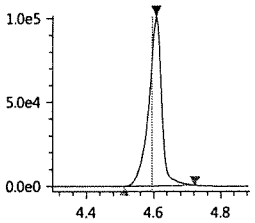
PFHxS_1
Conc 0.0920
RT 4.436 Area 9403
Q 399.00>80.00 2.32e3



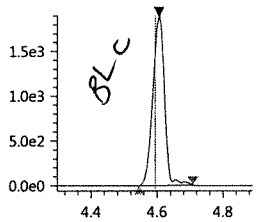
6_2-FTS-13C
Conc 3.6888
RT 4.608 Area 274910
Q 428.90>409.00 1.02e5



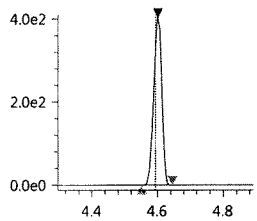
6_2-FTS-13C_IS
Conc 5.0000
RT 4.608 Area 274910
ISTD 428.90>409.00 1.02e5



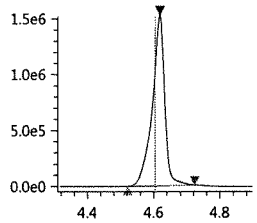
6_2-FTS_1
Conc 0.0639
RT 4.605 Area 4629
Q 427.00>407.00 1.91e3



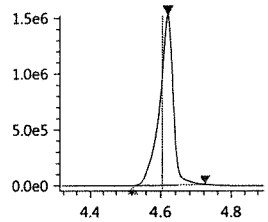
PFHpS_1
Conc 0.0087
RT 4.601 Area 701
Q 449.00>80.15 4.11e2



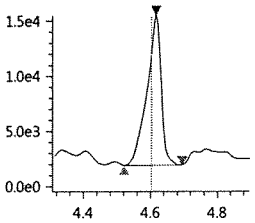
PFOA-13C_IS
Conc 5.0000
RT 4.619 Area 3958839
ISTD 416.80>372.05 1.53e6



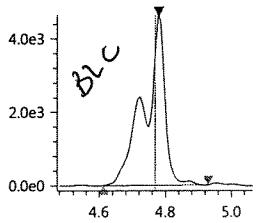
PFOA-13C
Conc 3.9718
RT 4.619 Area 3958839
Q 416.80>372.05 1.53e6



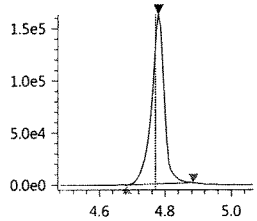
PFOA
Conc 0.0410
RT 4.617 Area 41007
Q 413.00>369.00 1.55e4



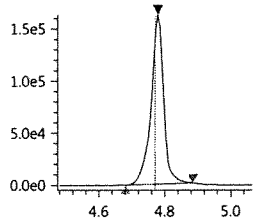
PFOS_1
Conc 0.2799
RT 4.781 Area 19770
Q 499.00>80.00 4.65e3



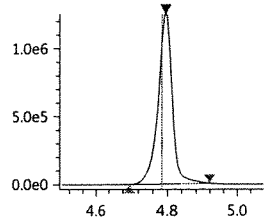
PFOS-13C_IS
Conc 5.0000
RT 4.780 Area 435450
ISTD 502.80>80.05 1.64e5



PFOS-13C
Conc 3.5005
RT 4.780 Area 435450
Q 502.80>80.05 1.64e5

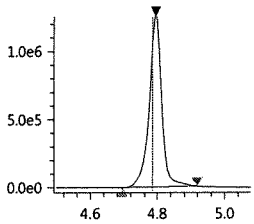


PFNA-13C_IS
Conc 5.0000
RT 4.795 Area 3372701
ISTD 467.80>423.00 1.25e6

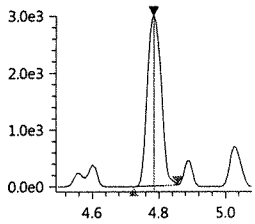


JUL 25 2017

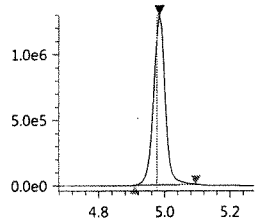
PFNA-13C
Conc 3.7701
RT 4.795 Area 3372701
Q 467.80>423.00 1.25e6



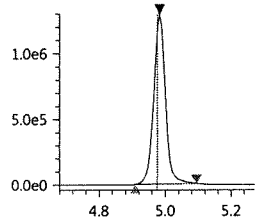
PFNA
Conc 0.0119
RT 4.784 Area 8827
Q 463.00>418.90 3.00e3



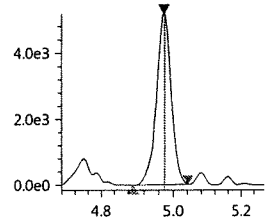
PFDA-13C_IS
Conc 5.0000
RT 4.984 Area 3192309
ISTD 514.80>469.95 1.30e6



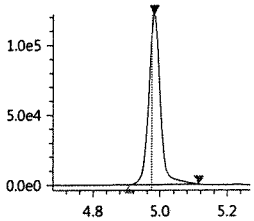
PFDA-13C
Conc 4.3218
RT 4.984 Area 3192309
Q 514.80>469.95 1.30e6



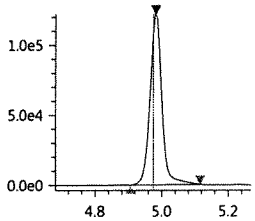
PFDA
Conc 0.0167
RT 4.974 Area 14557
Q 513.00>468.80 5.19e3



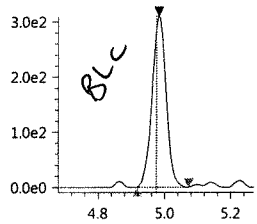
8_2-FTS-13C_IS
Conc 5.0000
RT 4.982 Area 303718
ISTD 528.80>509.00 1.22e5



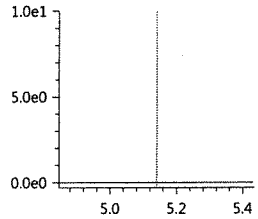
8_2-FTS-13C
Conc 4.5233
RT 4.982 Area 303718
Q 528.80>509.00 1.22e5



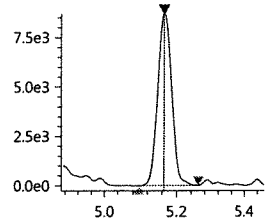
8_2-FTS_1
Conc 0.0156
RT 4.983 Area 912
Q 526.90>506.90 3.10e2



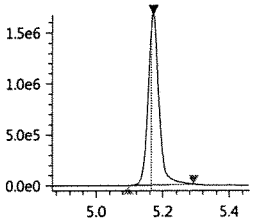
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 0.00e0



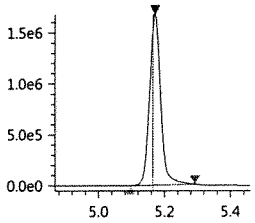
PFUnA
Conc 0.0255
RT 5.165 Area 23141
Q 563.00>518.90 8.69e3



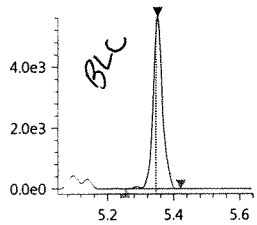
PFUnA-13C_IS
Conc 5.0000
RT 5.172 Area 3929506
ISTD 564.80>519.95 1.68e6



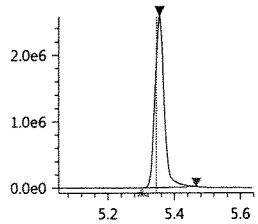
PFUnA-13C
Conc 4.4692
RT 5.172 Area 3929506
Q 564.80>519.95 1.68e6



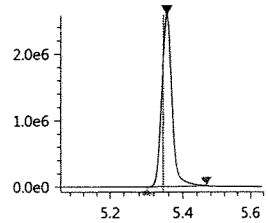
PFDoA
Conc 0.0176
RT 5.350 Area 11436
Q 613.05>569.00 5.63e3



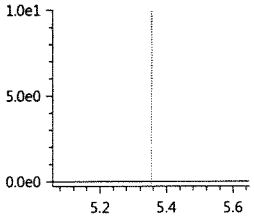
PFDoA-13C
Conc 4.4787
RT 5.355 Area 4987765
Q 614.80>569.95 2.58e6



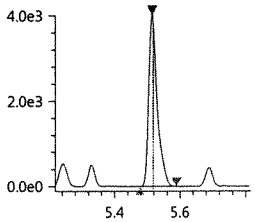
PFDoA-13C_IS
Conc 5.0000
RT 5.355 Area 4987765
ISTD 614.80>569.95 2.58e6



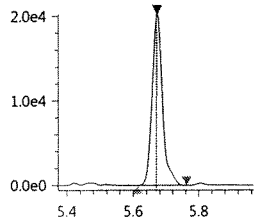
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



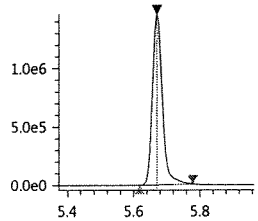
PFTrDA
Conc 0.0121
RT 5.515 Area 7313
Q 663.00>618.90 4.02e3



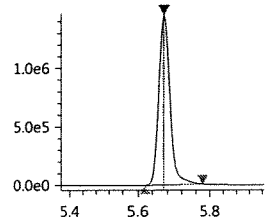
PFTeDA
Conc 0.0473
RT 5.672 Area 44511
Q 713.40>669.00 2.03e4



PFTeDA-13C
Conc 3.3835
RT 5.671 Area 3047249
Q 714.70>669.90 1.47e6

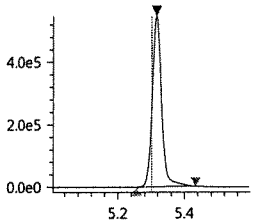


PFTeDA-13C_IS
Conc 5.0000
RT 5.671 Area 3047249
ISTD 714.70>669.90 1.47e6

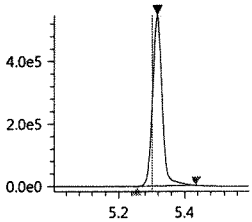


JUL 2 5 2017

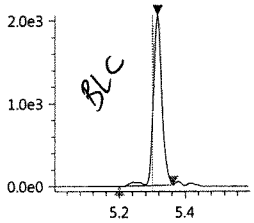
FOSA-13C_IS
Conc 5.0000
RT 5.317 Area 1099087
ISTD 506.00>78.05 5.48e5



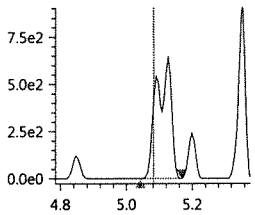
FOSA-13C
Conc 3.2522
RT 5.317 Area 1099087
Q 506.00>78.05 5.48e5



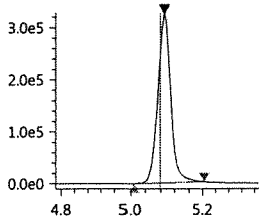
FOSA
Conc 0.0114
RT 5.316 Area 3863
Q 498.00>78.00 2.07e3



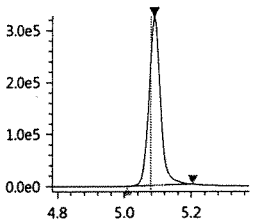
N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 9.06e2



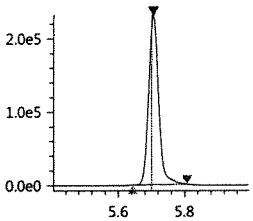
N-MeFOSAA-d3
Conc 3.6537
RT 5.090 Area 799657
Q 572.80>419.05 3.28e5



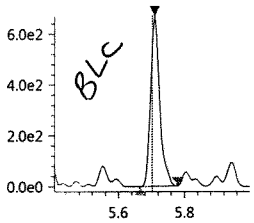
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.090 Area 799657
ISTD 572.80>419.05 3.28e5



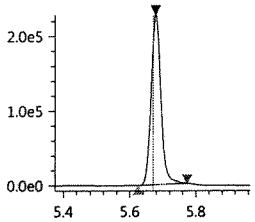
N-MeFOSA_IS
Conc 5.0000
RT 5.705 Area 489648
ISTD 514.90>168.90 2.33e5



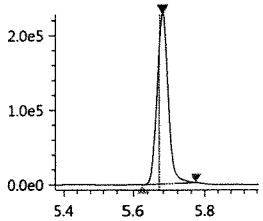
N-MeFOSA
Conc 0.0114
RT 5.709 Area 1322
Q 512.00>169.10 6.71e2



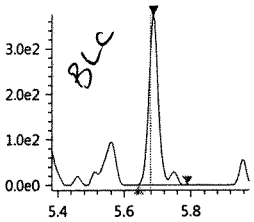
N-MeFOSE-d7
Conc 3.7092
RT 5.678 Area 476405
Q 622.70>59.10 2.28e5



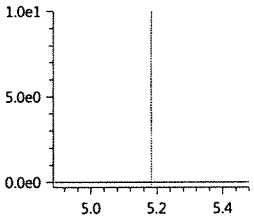
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.678 Area 476405
ISTD 622.70>59.10 2.28e5



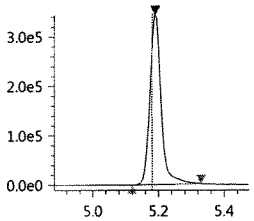
N-MeFOSE
Conc 0.0048
RT 5.688 Area 804
Q 616.00>59.00 3.76e2



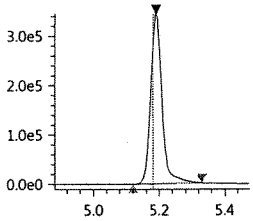
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 0.00e0



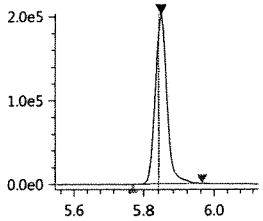
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.190 Area 832946
ISTD 588.80>419.00 3.46e5



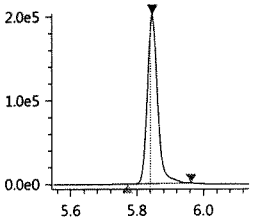
N-EtFOSAA-d5
Conc 4.1953
RT 5.190 Area 832946
Q 588.80>419.00 3.46e5



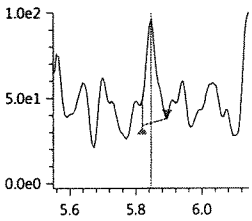
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.846 Area 446471
ISTD 530.90>169.15 2.04e5



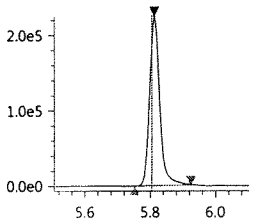
N-EtFOSA-d9
Conc 3.3738
RT 5.846 Area 446471
Q 530.90>169.15 2.04e5



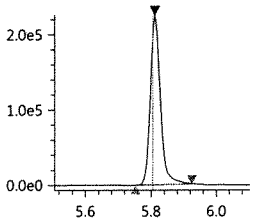
N-EtFOSA
Conc ----
RT ---- Area ----
Q 526.90>169.10 1.00e2



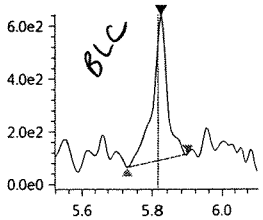
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.813 Area 490367
ISTD 638.70>59.10 2.26e5



N-EtFOSE-d9
Conc 3.1657
RT 5.813 Area 490367
Q 638.70>59.10 2.26e5



N-EtFOSE
Conc 0.0098
RT 5.824 Area 1507
Q 630.00>58.90 6.46e2



JUL 25 2017

Insight Report

Befores

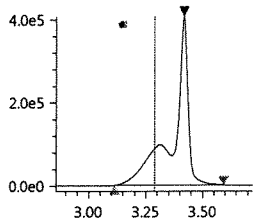
Printed at 7/25/2017 7:34:49 AM

JT

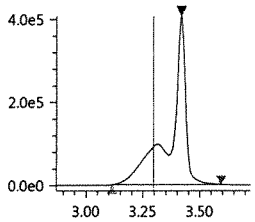
072417_110

Sample ID: K1707559-001
Date acquired: 7/24/2017 4:24:10 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_110.lcd
Vial: 3 | Inj. Volume: 15.0000uL | Tray: 2

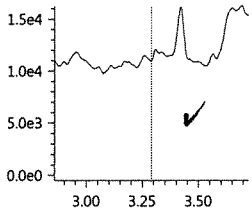
PFBA-13C_IS
Conc 5.0000
RT 3.419 Area 1880923
ISTD 216.90>172.15 4.08e5



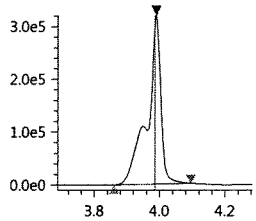
PFBA-13C
Conc 3.4304
RT 3.419 Area 1880923
Q 216.90>172.15 4.08e5



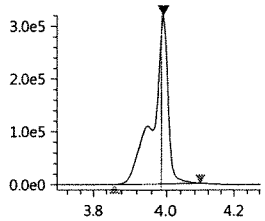
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 1.63e4



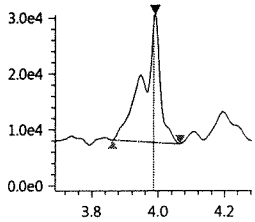
PFPeA-13C_IS
Conc 5.0000
RT 3.991 Area 916496
ISTD 267.90>223.00 3.21e5



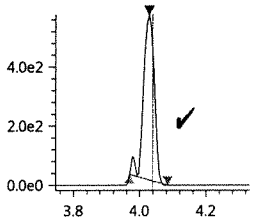
PFPeA-13C
Conc 3.3803
RT 3.991 Area 916496
Q 267.90>223.00 3.21e5



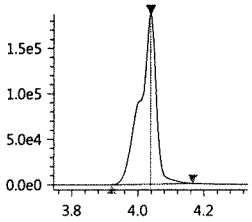
PFPeA
Conc 0.0619
RT 3.991 Area 84885
Q 263.05>219.10 3.05e4



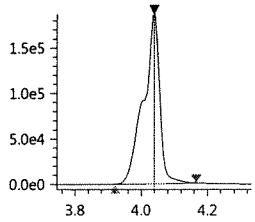
PFBS_1
Conc 0.0117
RT 4.028 Area 1265
Q 299.00>80.00 5.78e2



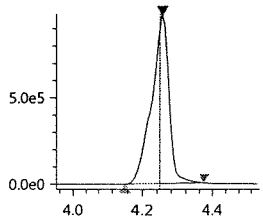
PFBS-13C
Conc 3.3414
RT 4.039 Area 639233
Q 301.80>80.00 1.88e5



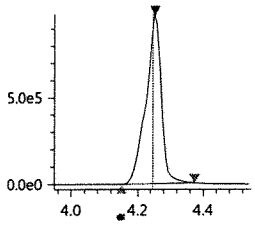
PFBS-13C_IS
Conc 5.0000
RT 4.039 Area 639233
ISTD 301.80>80.00 1.88e5



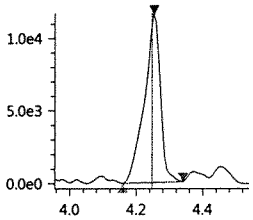
PFHxA-13C_IS
Conc 5.0000
RT 4.254 Area 3180905
ISTD 314.90>270.10 9.88e5



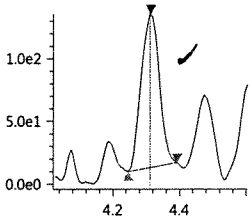
PFHxA-13C
Conc 4.1325
RT 4.254 Area 3180905
Q 314.90>270.10 9.88e5



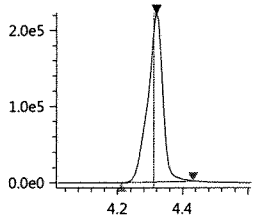
PFHxA
Conc 0.0253
RT 4.254 Area 38516
Q 313.00>269.00 1.18e4



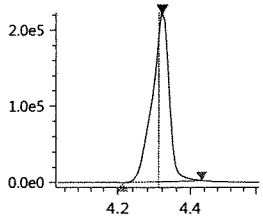
HPFO_DA
Conc 0.0035
RT 4.314 Area 464
Q 329.00>169.00 1.36e2



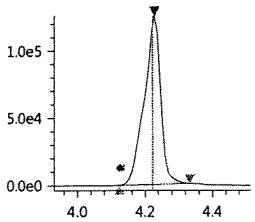
HFPO_DA-13C_IS
Conc 5.0000
RT 4.320 Area 703697
ISTD 332.00>286.80 2.24e5



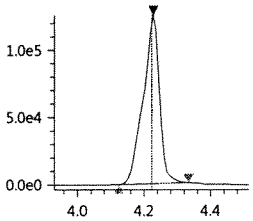
HFPO_DA-13C
Conc 3.6881
RT 4.320 Area 703697
Q 332.00>286.80 2.24e5



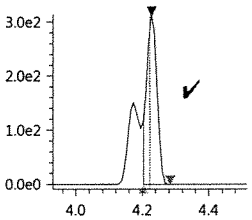
4_2-FTS-13C_IS
Conc 5.0000
RT 4.228 Area 426516
ISTD 328.80>309.05 1.26e5



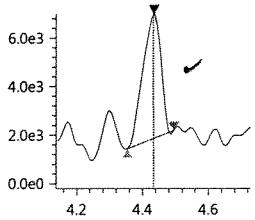
4_2-FTS-13C
Conc 3.4299
RT 4.228 Area 426516
Q 328.80>309.05 1.26e5



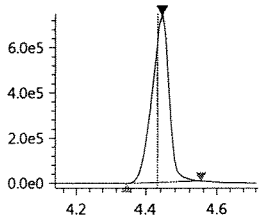
4_2-FTS_1
Conc 0.0063
RT 4.229 Area 685
Q 327.00>307.05 3.14e2



PFHpA
Conc 0.0373
RT 4.435 Area 19490
Q 362.90>319.00 6.99e3

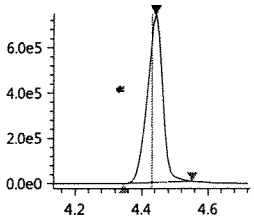


PFHpA-13C_IS
Conc 5.0000
RT 4.444 Area 2381417
ISTD 366.90>322.10 7.52e5

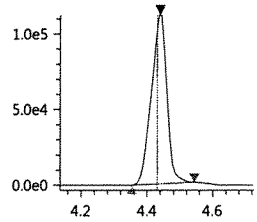


JUL 25 2017

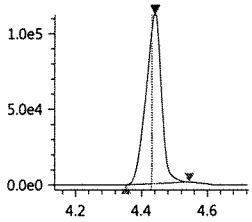
PFHpA-13C
Conc 3.0678
RT 4.444 Area 2381417
Q 366.90>322.10 7.52e5



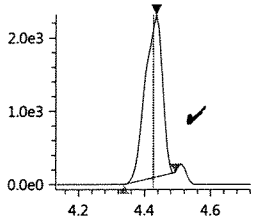
PFHxS-18O_IS
Conc 5.0000
RT 4.440 Area 368155
ISTD 402.70>84.05 1.12e5



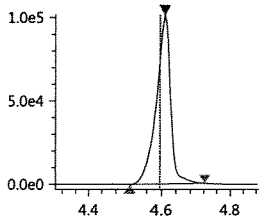
PFHxS-18O
Conc 3.2307
RT 4.440 Area 368155
Q 402.70>84.05 1.12e5



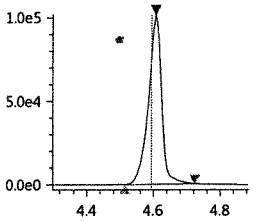
PFHxS_1
Conc 0.0791
RT 4.436 Area 8085
Q 399.00>80.00 2.32e3



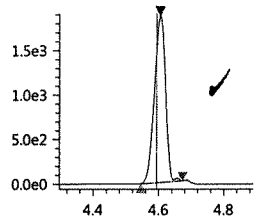
6_2-FTS-13C
Conc 3.6888
RT 4.608 Area 274910
Q 428.90>409.00 1.02e5



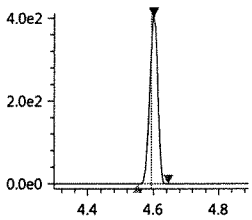
6_2-FTS-13C_IS
Conc 5.0000
RT 4.608 Area 274910
ISTD 428.90>409.00 1.02e5



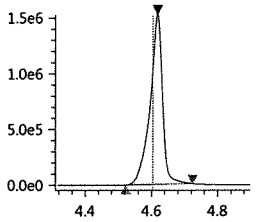
6_2-FTS_1
Conc 0.0615
RT 4.605 Area 4455
Q 427.00>407.00 1.91e3



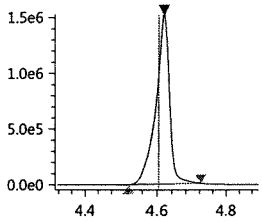
PFHpS_1
Conc 0.0087
RT 4.601 Area 701
Q 449.00>80.15 4.11e2



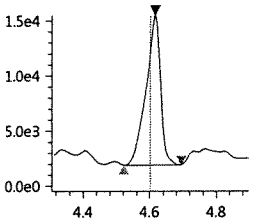
PFOA-13C_IS
Conc 5.0000
RT 4.619 Area 3958839
ISTD 416.80>372.05 1.53e6



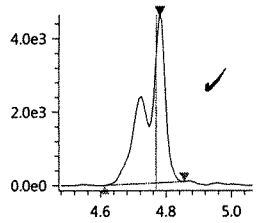
PFOA-13C
Conc 3.9718
RT 4.619 Area 3958839
Q 416.80>372.05 1.53e6



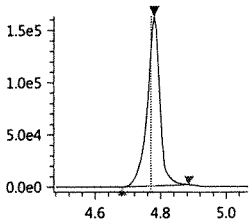
PFOA
Conc 0.0410
RT 4.617 Area 41007
Q 413.00>369.00 1.55e4



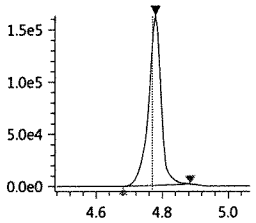
PFOS_1
Conc 0.2672
RT 4.781 Area 18875
Q 499.00>80.00 4.65e3



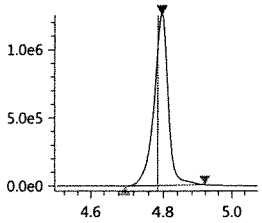
PFOS-13C_IS
Conc 5.0000
RT 4.780 Area 435450
ISTD 502.80>80.05 1.64e5



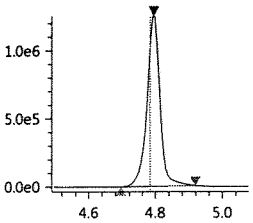
PFOS-13C
Conc 3.5005
RT 4.780 Area 435450
Q 502.80>80.05 1.64e5



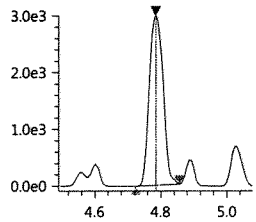
PFNA-13C_IS
Conc 5.0000
RT 4.795 Area 3372701
ISTD 467.80>423.00 1.25e6



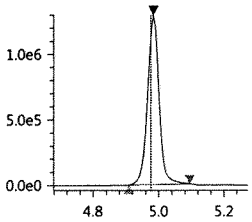
PFNA-13C
Conc 3.7701
RT 4.795 Area 3372701
Q 467.80>423.00 1.25e6



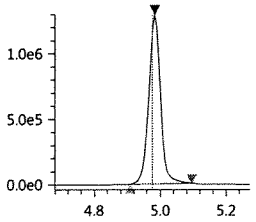
PFNA
Conc 0.0119
RT 4.784 Area 8827
Q 463.00>418.90 3.00e3



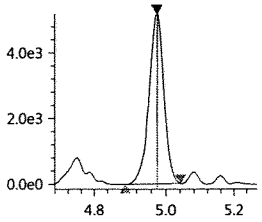
PFDA-13C_IS
Conc 5.0000
RT 4.984 Area 3192309
ISTD 514.80>469.95 1.30e6



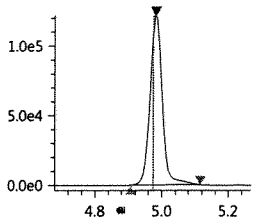
PFDA-13C
Conc 4.3218
RT 4.984 Area 3192309
Q 514.80>469.95 1.30e6



PFDA
Conc 0.0167
RT 4.974 Area 14557
Q 513.00>468.80 5.19e3



8_2-FTS-13C_IS
Conc 5.0000
RT 4.982 Area 303718
ISTD 528.80>509.00 1.22e5



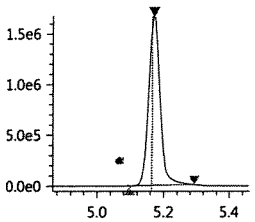
8_2-FTS-13C
Conc 4.5233
RT 4.982 Area 303718
Q 528.80>509.00 1.22e5

8_2-FTS_1
Conc 0.0146
RT 4.983 Area 855
Q 526.90>506.90 3.10e2

PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 0.00e0

PFUnA
Conc 0.0255
RT 5.165 Area 23141
Q 563.00>518.90 8.69e3

PFUnA-13C_IS
Conc 5.0000
RT 5.172 Area 3929506
ISTD 564.80>519.95 1.68e6



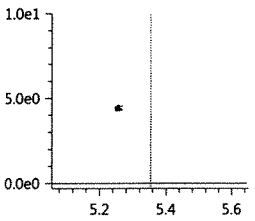
PFUnA-13C
Conc 4.4692
RT 5.172 Area 3929506
Q 564.80>519.95 1.68e6

PFDoA
Conc 0.0174
RT 5.350 Area 11304
Q 613.05>569.00 5.63e3

PFDoA-13C
Conc 4.4787
RT 5.355 Area 4987765
Q 614.80>569.95 2.58e6

PFDoA-13C_IS
Conc 5.0000
RT 5.355 Area 4987765
ISTD 614.80>569.95 2.58e6

10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



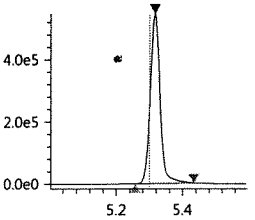
PFTrDA
Conc 0.0121
RT 5.515 Area 7313
Q 663.00>618.90 4.02e3

PFTeDA
Conc 0.0473
RT 5.672 Area 44511
Q 713.40>669.00 2.03e4

PFTeDA-13C
Conc 3.3835
RT 5.671 Area 3047249
Q 714.70>669.90 1.47e6

PFTeDA-13C_IS
Conc 5.0000
RT 5.671 Area 3047249
ISTD 714.70>669.90 1.47e6

FOSA-13C_IS
Conc 5.0000
RT 5.317 Area 1099087
ISTD 506.00>78.05 5.48e5



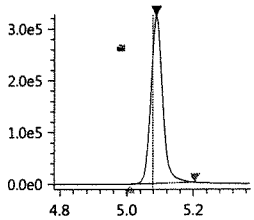
FOSA-13C
Conc 3.2522
RT 5.317 Area 1099087
Q 506.00>78.05 5.48e5

FOSA
Conc 0.0110
RT 5.316 Area 3720
Q 498.00>78.00 2.07e3

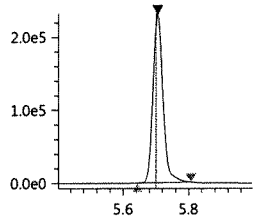
N-MeFOSAA
Conc 0.0158
RT 5.125 Area 2028
Q 570.20>419.00 9.06e2

N-MeFOSAA-d3
Conc 3.6537
RT 5.090 Area 799657
Q 572.80>419.05 3.28e5

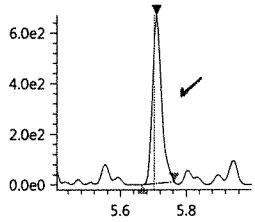
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.090 Area 799657
ISTD 572.80>419.05 3.28e5



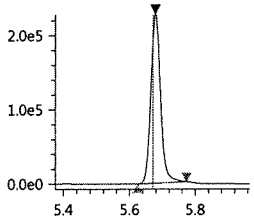
N-MeFOSA_IS
Conc 5.0000
RT 5.705 Area 489648
ISTD 514.90>168.90 2.33e5



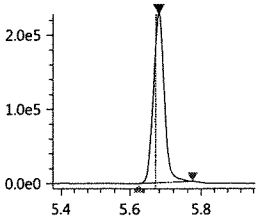
N-MeFOSA
Conc 0.0112
RT 5.709 Area 1290
Q 512.00>169.10 6.71e2



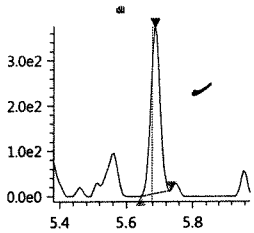
N-MeFOSE-d7
Conc 3.7092
RT 5.678 Area 476405
Q 622.70>59.10 2.28e5



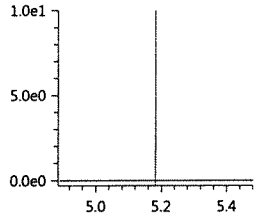
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.678 Area 476405
ISTD 622.70>59.10 2.28e5



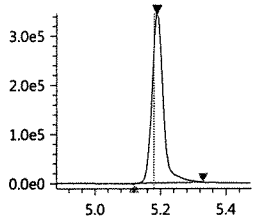
N-MeFOSE
Conc 0.0044
RT 5.688 Area 728
Q 616.00>59.00 3.76e2



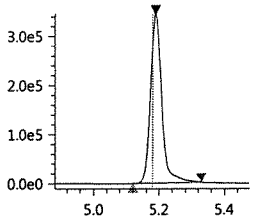
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 0.00e0



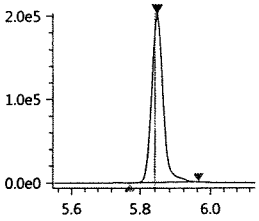
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.190 Area 832946
ISTD 588.80>419.00 3.46e5



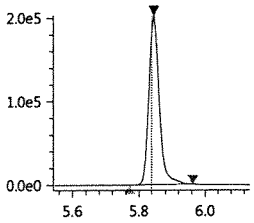
N-EtFOSAA-d5
Conc 4.1953
RT 5.190 Area 832946
Q 588.80>419.00 3.46e5



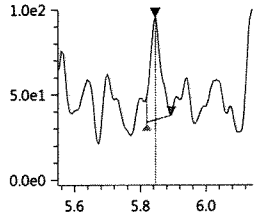
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.846 Area 446471
ISTD 530.90>169.15 2.04e5



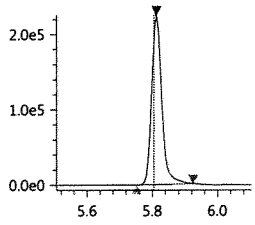
N-EtFOSA-d9
Conc 3.3738
RT 5.846 Area 446471
Q 530.90>169.15 2.04e5



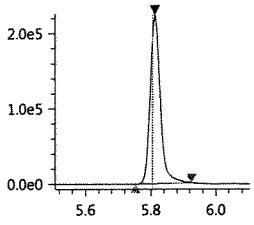
N-EtFOSA
Conc 0.0080
RT 5.845 Area 132
Q 526.90>169.10 1.00e2



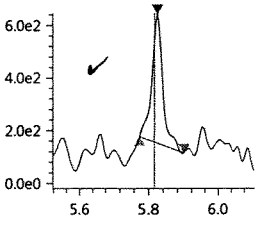
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.813 Area 490367
ISTD 638.70>59.10 2.26e5



N-EtFOSE-d9
Conc 3.1657
RT 5.813 Area 490367
Q 638.70>59.10 2.26e5



N-EtFOSE
Conc 0.0067
RT 5.824 Area 1035
Q 630.00>58.90 6.46e2



Validation Report

Data File: J:\LCMS06\Data\072417_b1\072417_111
Lab ID: KQ1709896-01
RunType: MS
Matrix: Soil

Date Acquired: 7/24/17 16:34
Batch ID: 554762
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	Perfluoroheptane sulfonic acid (PFHpS)	132	70	130	Non-rate-rec. ok

Primary Review: JT 7/25/17

Secondary Review: JUL 2 5 2017

Printed: 7/25/17 8:15
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072417_b1\072417_111	**Instrument:**	K-LCMS-06
Acqu Date:	7/24/17 16:34	**Vial:**	5
Run Type:	MS	**Dilution:**	1
Lab ID:	KQ1709896-01	**Raw Units:**	ng/mL

Bottle ID:	K1707559-001.01	**Tier:**	II	**Matrix:**	Soil
Prod Code:	PFOA	**Collect Date:**	7/18/17	**Receive Date:**	7/19/17

Analysis Lot:	554762	**Prep Lot:**	293302	**Report Group:**	KQ1709896
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3550B		
		Prep Date:	7/24/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.702	517666	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.418	1873672	3.2322	65	50 - 150	Y
13C2-PFHxA	4.254	3080259	3.7852	76	50 - 150	Y
18O2-PFHxS	4.440	364164	3.0227	60	50 - 150	Y
13C2-6:2 FTS	4.607	270303	3.4307	69	50 - 150	Y
13C4-PFOA	4.619	3658481	3.4718	69	50 - 150	Y
13C5-PFNA	4.796	3160496	3.3417	67	50 - 150	Y
13C4-PFOS	4.781	447257	3.4008	68	50 - 150	Y
13C2-PFDA	4.985	3201807	4.1000	82	50 - 150	Y
13C2-PFUnDA	5.171	3731359	4.0141	80	50 - 150	Y
13C2-PFDoDA	5.354	4740861	4.0266	81	50 - 150	Y
D7-MeFOSE	5.676	485738	3.5772	72	50 - 150	Y
D9-EtFOSE	5.810	545549	3.3314	67	50 - 150	Y
D5-EtFOSA	5.842	500108	3.5746	71	50 - 150	Y
13C2-8:2 FTS	4.982	312335	4.3998	88	50 - 150	Y
13C2-PFTeDA	5.668	3341023	3.5089	70	50 - 150	Y
13C4-PFHpA	4.443	2503993	3.0511	61	50 - 150	Y
13C5-PFPeA	3.990	964472	3.3647	67	50 - 150	Y
13C3-PFBS	4.038	677952	3.3520	67	50 - 150	Y
13C8-FOSA	5.316	1146185	3.2080	64	50 - 150	Y

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.419	2085162	4.3237	42.7		Y
Perfluoropentanoic acid (PFPeA)	3.991	2597133	4.1025	40.5		Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/25/17 8:15
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072417_b1\072417_111	**Instrument:**	K-LCMS-06
Acqu Date:	7/24/17 16:34	**Vial:**	5
Run Type:	MS	**Dilution:**	1
Lab ID:	KQ1709896-01	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.038	587048	5.1105	50.5		Y
Perfluorohexanoic acid (PFHxA)	4.254	3205835	5.2697	52.1		Y
Perfluoroheptanoic acid (PFHpA)	4.444	2649107	4.8154	47.6		Y
Perfluorohexane sulfonic acid (PFHxS)	4.433	370852	3.6699	36.3		Y
Perfluorooctanoic acid (PFOA)	4.619	3554748	3.8438	38.0		Y
Perfluoroheptane sulfonic acid (PFHpS)	4.608	396127	4.9925	49.3		Y
Perfluorononanoic acid (PFNA)	4.796	2787545	4.0029	39.5		Y
Perfluorooctane sulfonic acid (PFOS)	4.781	292014	4.0254	39.8		Y
Perfluorodecanoic acid (PFDA)	4.985	3140713	3.5817	35.4		Y
Perfluoroundecanoic acid (PFUnDA)	5.171	3148088	3.6566	36.1		Y
Perfluorooctane sulfonamide (FOSA)	5.316	1586545	4.5069	44.5		Y
Perfluorododecanoic acid (PFDoDA)	5.354	3094794	4.9979	49.4		Y
Perfluorotridecanoic acid (PFTrDA)	5.519	3046720	4.5835	45.3		Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.705	546562	4.6339	45.8		Y
N-Methyl perfluorooctane sulfonamidoethanol	5.684	831674	4.8727	48.1		Y
Perfluorotetradecanoic acid (PFTeDA)	5.668	1700218	4.6947	46.4		Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.821	933994	5.4554	53.9		Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.848	91277	4.9358	48.8		Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.982	266983	4.4332	43.8		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.607	336721	4.7253	46.7		Y
Perfluorodecane sulfonic acid (PFDS)	5.146	361665	4.2247	41.7		Y

Prep Amount:	1.090 g	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	74.30

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/25/17 8:15
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072417_111

Sample ID: KQ1709896-01 K1707559-001 MS

Date acquired: 7/24/2017 4:34:38 PM

Acquired by: System Administrator

Data File: J:\LCMS06\Data\072417_b1\072417_111.lcd

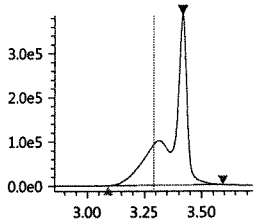
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.418	1873672	1873672	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.418	1873672	517666	1	3.2322	ng/mL	----	----	Auto
PFBA	3.419	2085162	1873672	2	4.3237	ng/mL	----	----	M
PFPeA-13C_IS	3.990	964472	964472	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.990	964472	517666	1	3.3647	ng/mL	----	----	Auto
PFPeA	3.991	2597133	964472	4	4.1025	ng/mL	----	----	Auto
PFBS_1	4.038	587048	677952	16	5.1105	ng/mL	----	----	M
PFBS-13C	4.038	677952	517666	1	3.3520	ng/mL	----	----	Auto
PFBS-13C_IS	4.038	677952	677952	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.254	3080259	3080259	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.254	3080259	517666	1	3.7852	ng/mL	----	----	Auto
PFHxA	4.254	3205835	3080259	6	5.2697	ng/mL	----	----	Auto
HPFO_DA	4.320	569576	747534	3	4.0054	ng/mL	----	----	Auto
HFPO_DA-13C_IS	4.319	747534	747534	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.319	747534	517666	1	3.7058	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.228	457002	457002	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.228	457002	517666	1	3.4762	ng/mL	----	----	Auto
4_2-FTS_1	4.228	425993	457002	5	3.6599	ng/mL	----	----	Auto
PFHpA	4.444	2649107	2503993	8	4.8154	ng/mL	----	----	Auto
PFHpA-13C_IS	4.443	2503993	2503993	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.443	2503993	517666	1	3.0511	ng/mL	----	----	Auto
PFHxS-18O_IS	4.440	364164	364164	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.440	364164	517666	1	3.0227	ng/mL	----	----	Auto
PFHxS_1	4.433	370852	364164	7	3.6699	ng/mL	----	----	M
6_2-FTS-13C	4.607	270303	517666	1	3.4307	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.607	270303	270303	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.607	336721	270303	10	4.7253	ng/mL	----	----	Auto
PFHpS_1	4.608	396127	364164	7	4.9925	ng/mL	----	----	Auto
PFOA-13C_IS	4.619	3658481	3658481	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.619	3658481	517666	1	3.4718	ng/mL	----	----	Auto
PFOA	4.619	3554748	3658481	9	3.8438	ng/mL	----	----	Auto
PFOS_1	4.781	292014	447257	13	4.0254	ng/mL	----	----	Auto
PFOS-13C_IS	4.781	447257	447257	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.781	447257	517666	1	3.4008	ng/mL	----	----	Auto
PFNA-13C_IS	4.796	3160496	3160496	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.796	3160496	517666	1	3.3417	ng/mL	----	----	Auto
PFNA	4.796	2787545	3160496	11	4.0029	ng/mL	----	----	Auto
PFDA-13C_IS	4.985	3201807	3201807	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.985	3201807	517666	1	4.1000	ng/mL	----	----	Auto
PFDA	4.985	3140713	3201807	12	3.5817	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.982	312335	312335	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.982	312335	517666	1	4.3998	ng/mL	----	----	Auto
8_2-FTS_1	4.982	266983	312335	15	4.4332	ng/mL	----	----	Auto
PFDS_1	5.146	361665	447257	13	4.2247	ng/mL	----	----	Auto
PFUnA	5.171	3148088	3731359	14	3.6566	ng/mL	----	----	Auto
PFUnA-13C_IS	5.171	3731359	3731359	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.171	3731359	517666	1	4.0141	ng/mL	----	----	Auto
PFDoA	5.354	3094794	4740861	17	4.9979	ng/mL	----	----	Auto
PFDoA-13C	5.354	4740861	517666	1	4.0266	ng/mL	----	----	Auto
PFDoA-13C_IS	5.354	4740861	4740861	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	5.363	374576	312335	15	6.3424	ng/mL	----	----	Auto
PFTrDA	5.519	3046720	3341023	22	4.5835	ng/mL	----	----	Auto
PFTeDA	5.668	1700218	3341023	22	4.6947	ng/mL	----	----	Auto
PFTeDA-13C	5.668	3341023	517666	1	3.5089	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.668	3341023	3341023	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.316	1146185	1146185	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.316	1146185	517666	1	3.2080	ng/mL	----	----	Auto
FOSA	5.316	1586545	1146185	18	4.5069	ng/mL	----	----	Auto
N-MeFOSAA	5.092	636145	836127	19	4.7495	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.090	836127	517666	1	3.6136	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.090	836127	836127	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.702	517666	517666	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.705	546562	485738	20	4.6339	ng/mL	----	----	Auto
N-MeFOSE-d7	5.676	485738	517666	1	3.5772	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.676	485738	485738	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	5.684	831674	485738	20	4.8727	ng/mL	----	----	Auto
N-EtFOSAA	5.194	766472	871028	21	5.2144	ng/mL	----	----	Auto

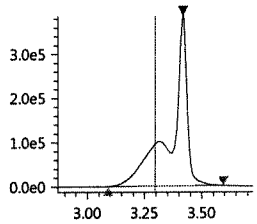
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.189	871028	871028	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.189	871028	517666	1	4.1497	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.842	500108	500108	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.842	500108	517666	1	3.5746	ng/mL	----	----	Auto
N-EtFOSA	5.848	91277	500108	23	4.9358	ng/mL	----	----	Auto
N-EtFOSE-d9_IS	5.810	545549	545549	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.810	545549	517666	1	3.3314	ng/mL	----	----	Auto
N-EtFOSE	5.821	933994	545549	24	5.4554	ng/mL	----	----	Auto

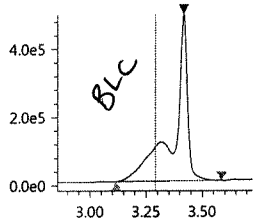
PFBA-13C_IS
Conc 5.0000
RT 3.418 Area 1873672
ISTD 216.90>172.15 3.87e5



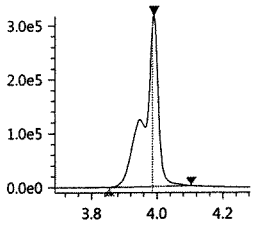
PFBA-13C
Conc 3.2322
RT 3.418 Area 1873672
Q 216.90>172.15 3.87e5



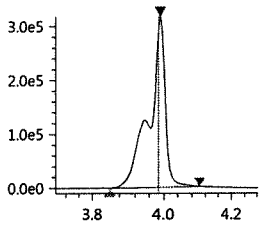
PFBA
Conc 4.3237
RT 3.419 Area 2085162
Q 213.00>169.10 5.03e5



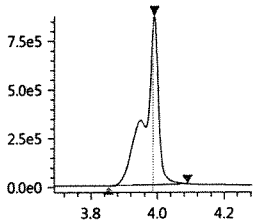
PFPeA-13C_IS
Conc 5.0000
RT 3.990 Area 964472
ISTD 267.90>223.00 3.18e5



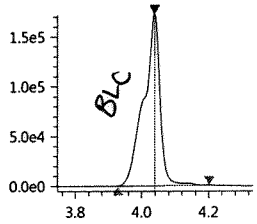
PFPeA-13C
Conc 3.3647
RT 3.990 Area 964472
Q 267.90>223.00 3.18e5



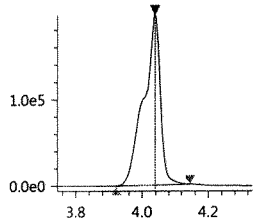
PFPeA
Conc 4.1025
RT 3.991 Area 2597133
Q 263.05>219.10 8.77e5



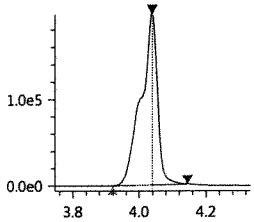
PFBS_1
Conc 5.1105
RT 4.038 Area 587048
Q 299.00>80.00 1.72e5



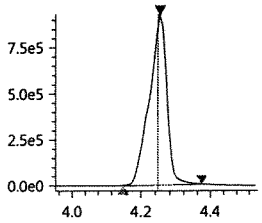
PFBS-13C
Conc 3.3520
RT 4.038 Area 677952
Q 301.80>80.00 1.98e5



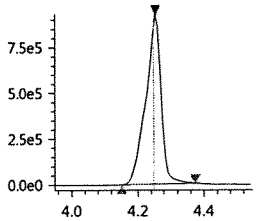
PFBS-13C_IS
Conc 5.0000
RT 4.038 Area 677952
ISTD 301.80>80.00 1.98e5



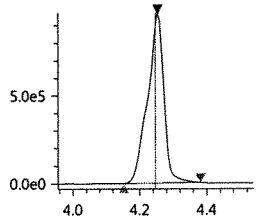
PFHxA-13C_IS
Conc 5.0000
RT 4.254 Area 3080259
ISTD 314.90>270.10 9.33e5



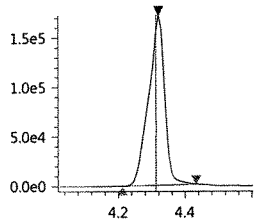
PFHxA-13C
Conc 3.7852
RT 4.254 Area 3080259
Q 314.90>270.10 9.33e5



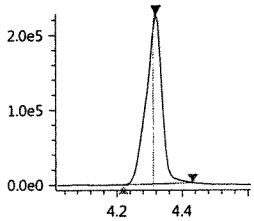
PFHxA
Conc 5.2697
RT 4.254 Area 3205835
Q 313.00>269.00 9.73e5



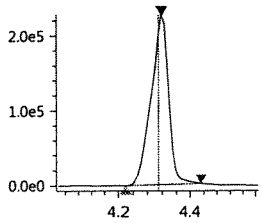
HPFO_DA
Conc 4.0054
RT 4.320 Area 569576
Q 329.00>169.00 1.73e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.319 Area 747534
ISTD 332.00>286.80 2.28e5



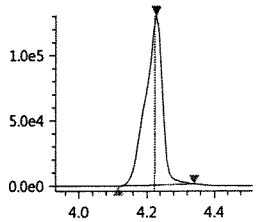
HFPO_DA-13C
Conc 3.7058
RT 4.319 Area 747534
Q 332.00>286.80 2.28e5



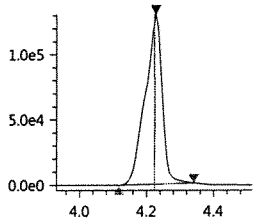
JUL 2 5 2017

JK

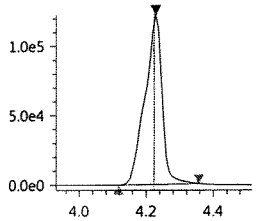
4_2-FTS-13C_IS
Conc 5.0000
RT 4.228 Area 457002
ISTD 328.80>309.05 1.31e5



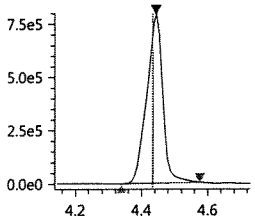
4_2-FTS-13C
Conc 3.4762
RT 4.228 Area 457002
Q 328.80>309.05 1.31e5



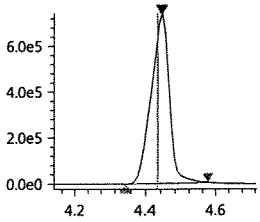
4_2-FTS_1
Conc 3.6599
RT 4.228 Area 425993
Q 327.00>307.05 1.23e5



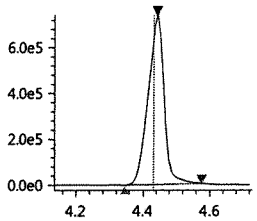
PFHpA
Conc 4.8154
RT 4.444 Area 2649107
Q 362.90>319.00 8.02e5



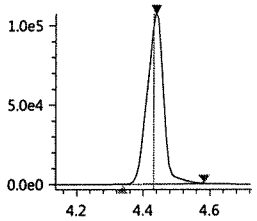
PFHpA-13C_IS
Conc 5.0000
RT 4.443 Area 2503993
ISTD 366.90>322.10 7.44e5



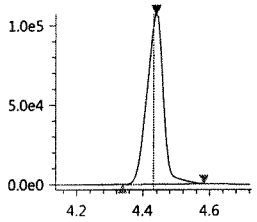
PFHpA-13C
Conc 3.0511
RT 4.443 Area 2503993
Q 366.90>322.10 7.44e5



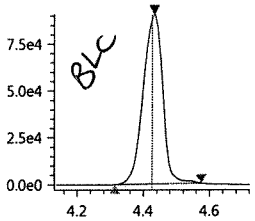
PFHxS-18O_IS
Conc 5.0000
RT 4.440 Area 364164
ISTD 402.70>84.05 1.08e5



PFHxS-18O
Conc 3.0227
RT 4.440 Area 364164
Q 402.70>84.05 1.08e5

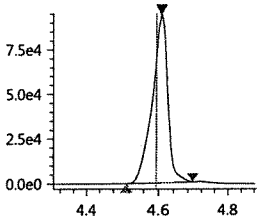


PFHxS_1
Conc 3.6699
RT 4.433 Area 370852
Q 399.00>80.00 9.10e4

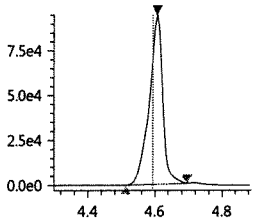


BLC

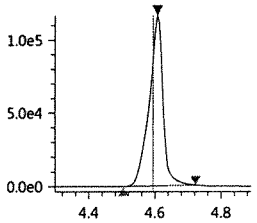
6_2-FTS-13C
Conc 3.4307
RT 4.607 Area 270303
Q 428.90>409.00 9.55e4



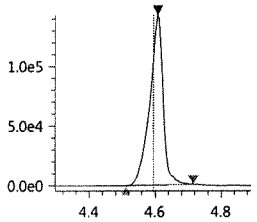
6_2-FTS-13C_IS
Conc 5.0000
RT 4.607 Area 270303
ISTD 428.90>409.00 9.55e4



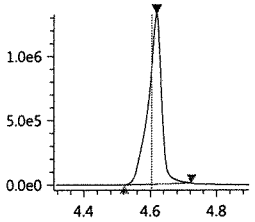
6_2-FTS_1
Conc 4.7253
RT 4.607 Area 336721
Q 427.00>407.00 1.17e5



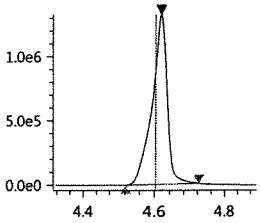
PFHpS_1
Conc 4.9925
RT 4.608 Area 396127
Q 449.00>80.15 1.43e5



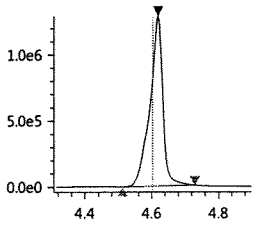
PFOA-13C_IS
Conc 5.0000
RT 4.619 Area 3658481
ISTD 416.80>372.05 1.33e6



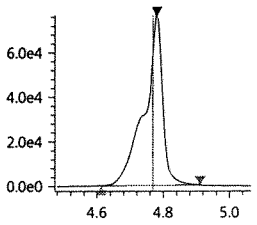
PFOA-13C
Conc 3.4718
RT 4.619 Area 3658481
Q 416.80>372.05 1.33e6



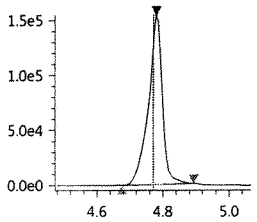
PFOA
Conc 3.8438
RT 4.619 Area 3554748
Q 413.00>369.00 1.29e6



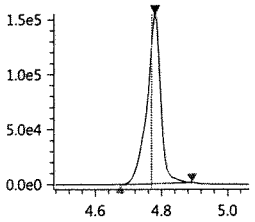
PFOS_1
Conc 4.0254
RT 4.781 Area 292014
Q 499.00>80.00 7.68e4



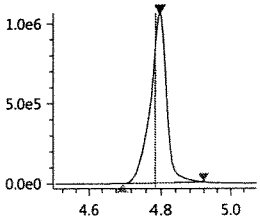
PFOS-13C_IS
Conc 5.0000
RT 4.781 Area 447257
ISTD 502.80>80.05 1.55e5



PFOS-13C
Conc 3.4008
RT 4.781 Area 447257
Q 502.80>80.05 1.55e5

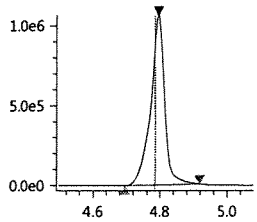


PFNA-13C_IS
Conc 5.0000
RT 4.796 Area 3160496
ISTD 467.80>423.00 1.07e6

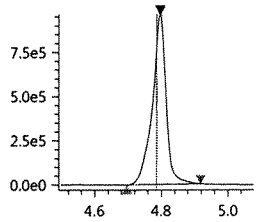


JUL 25 2017

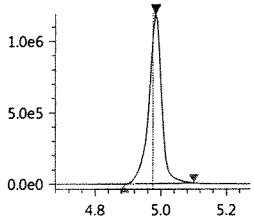
PFNA-13C
Conc 3.3417
RT 4.796 Area 3160496
Q 467.80>423.00 1.07e6



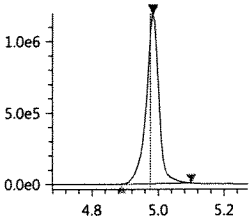
PFNA
Conc 4.0029
RT 4.796 Area 2787545
Q 463.00>418.90 9.65e5



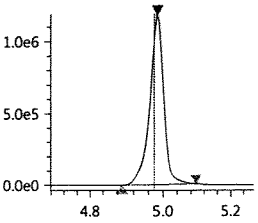
PFDA-13C_IS
Conc 5.0000
RT 4.985 Area 3201807
ISTD 514.80>469.95 1.20e6



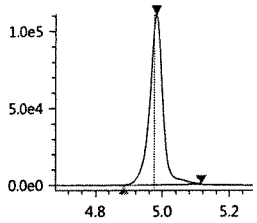
PFDA-13C
Conc 4.1000
RT 4.985 Area 3201807
Q 514.80>469.95 1.20e6



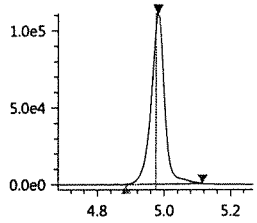
PFDA
Conc 3.5817
RT 4.985 Area 3140713
Q 513.00>468.80 1.19e6



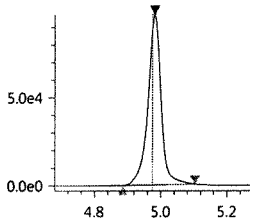
8_2-FTS-13C_IS
Conc 5.0000
RT 4.982 Area 312335
ISTD 528.80>509.00 1.11e5



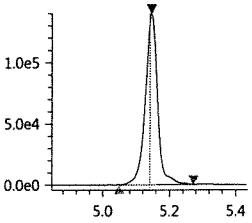
8_2-FTS-13C
Conc 4.3998
RT 4.982 Area 312335
Q 528.80>509.00 1.11e5



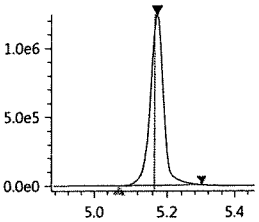
8_2-FTS_1
Conc 4.4332
RT 4.982 Area 266983
Q 526.90>506.90 9.74e4



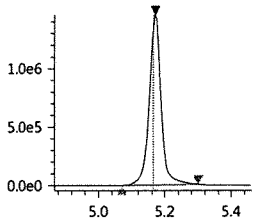
PFDS_1
Conc 4.2247
RT 5.146 Area 361665
Q 599.00>79.90 1.40e5



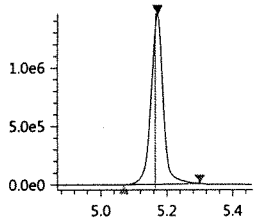
PFUnA
Conc 3.6566
RT 5.171 Area 3148088
Q 563.00>518.90 1.25e6



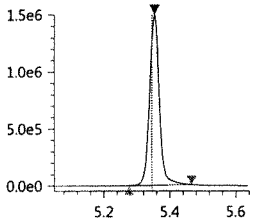
PFUnA-13C_IS
Conc 5.0000
RT 5.171 Area 3731359
ISTD 564.80>519.95 1.46e6



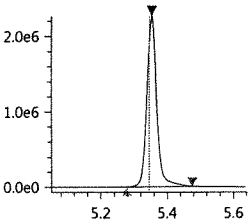
PFUnA-13C
Conc 4.0141
RT 5.171 Area 3731359
Q 564.80>519.95 1.46e6



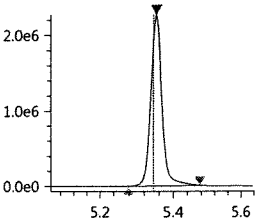
PFDoA
Conc 4.9979
RT 5.354 Area 3094794
Q 613.05>569.00 1.50e6



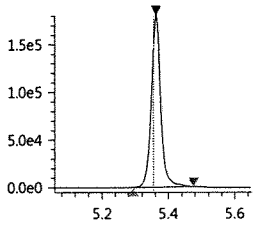
PFDoA-13C
Conc 4.0266
RT 5.354 Area 4740861
Q 614.80>569.95 2.27e6



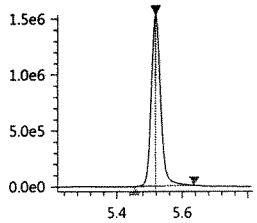
PFDoA-13C_IS
Conc 5.0000
RT 5.354 Area 4740861
ISTD 614.80>569.95 2.27e6



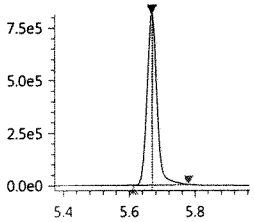
10_2-FtS_1
Conc 6.3424
RT 5.363 Area 374576
Q 627.00>606.95 1.81e5



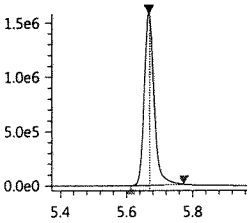
PFTrDA
Conc 4.5835
RT 5.519 Area 3046720
Q 663.00>618.90 1.54e6



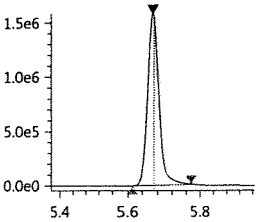
PFTeDA
Conc 4.6947
RT 5.668 Area 1700218
Q 713.40>669.00 8.18e5



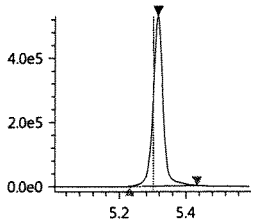
PFTeDA-13C
Conc 3.5089
RT 5.668 Area 3341023
Q 714.70>669.90 1.58e6



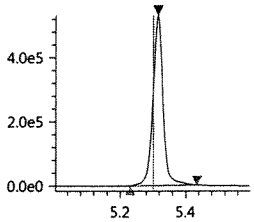
PFTeDA-13C_IS
Conc 5.0000
RT 5.668 Area 3341023
ISTD 714.70>669.90 1.58e6



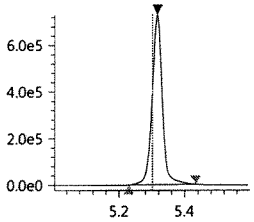
FOSA-13C_IS
Conc 5.0000
RT 5.316 Area 1146185
ISTD 506.00>78.05 5.32e5



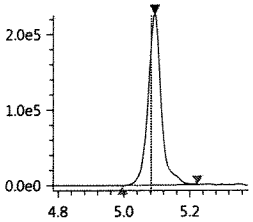
FOSA-13C
Conc 3.2080
RT 5.316 Area 1146185
Q 506.00>78.05 5.32e5



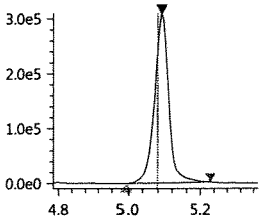
FOSA
Conc 4.5069
RT 5.316 Area 1586545
Q 498.00>78.00 7.32e5



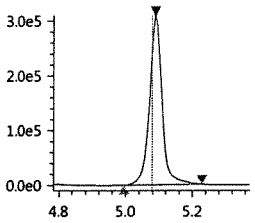
N-MeFOSAA
Conc 4.7495
RT 5.092 Area 636145
Q 570.20>419.00 2.26e5



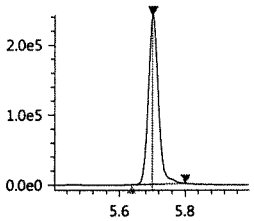
N-MeFOSAA-d3
Conc 3.6136
RT 5.090 Area 836127
Q 572.80>419.05 3.11e5



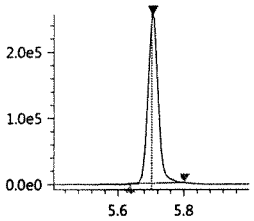
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.090 Area 836127
ISTD 572.80>419.05 3.11e5



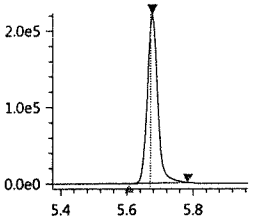
N-MeFOSA_IS
Conc 5.0000
RT 5.702 Area 517666
ISTD 514.90>168.90 2.44e5



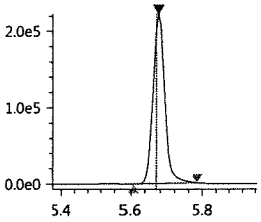
N-MeFOSA
Conc 4.6339
RT 5.705 Area 546562
Q 512.00>169.10 2.58e5



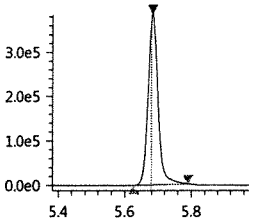
N-MeFOSE-d7
Conc 3.5772
RT 5.676 Area 485738
Q 622.70>59.10 2.23e5



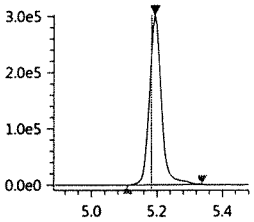
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.676 Area 485738
ISTD 622.70>59.10 2.23e5



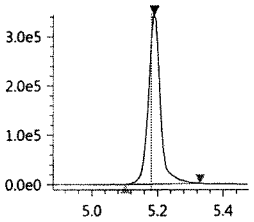
N-MeFOSE
Conc 4.8727
RT 5.684 Area 831674
Q 616.00>59.00 3.85e5



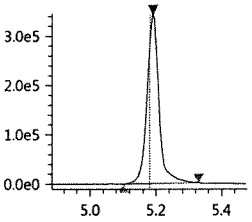
N-EtFOSAA
Conc 5.2144
RT 5.194 Area 766472
Q 584.20>418.95 3.04e5



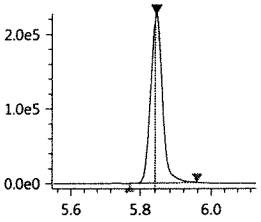
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.189 Area 871028
ISTD 588.80>419.00 3.46e5



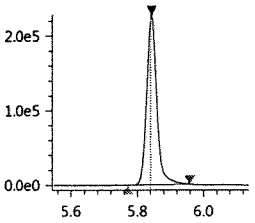
N-EtFOSAA-d5
Conc 4.1497
RT 5.189 Area 871028
Q 588.80>419.00 3.46e5



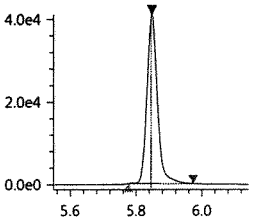
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.842 Area 500108
ISTD 530.90>169.15 2.29e5



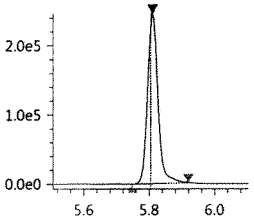
N-EtFOSA-d9
Conc 3.5746
RT 5.842 Area 500108
Q 530.90>169.15 2.29e5



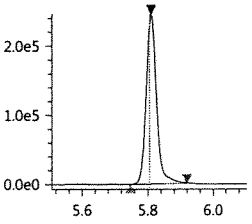
N-EtFOSA
Conc 4.9358
RT 5.848 Area 91277
Q 526.90>169.10 4.12e4



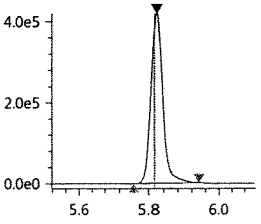
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.810 Area 545549
ISTD 638.70>59.10 2.46e5



N-EtFOSE-d9
Conc 3.3314
RT 5.810 Area 545549
Q 638.70>59.10 2.46e5



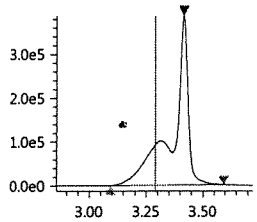
N-EtFOSE
Conc 5.4554
RT 5.821 Area 933994
Q 630.00>58.90 4.20e5



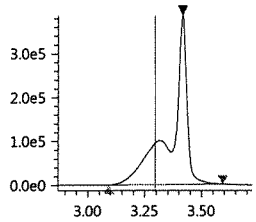
072417_111

Sample ID: KQ1709896-01 K1707559-001 MS
Date acquired: 7/24/2017 4:34:38 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_111.lcd
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 2

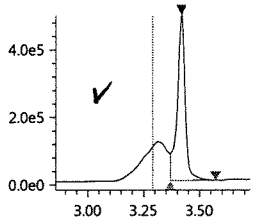
PFBA-13C_IS
Conc 5.0000
RT 3.418 Area 1873672
ISTD 216.90>172.15 3.87e5



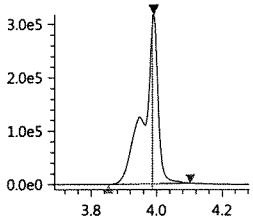
PFBA-13C
Conc 3.2322
RT 3.418 Area 1873672
Q 216.90>172.15 3.87e5



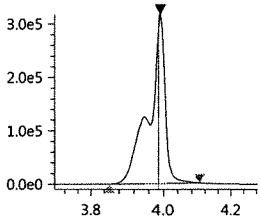
PFBA
Conc 2.4758
RT 3.419 Area 1193955
Q 213.00>169.10 5.03e5



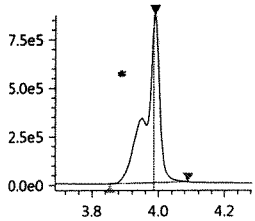
PFPeA-13C_IS
Conc 5.0000
RT 3.990 Area 964472
ISTD 267.90>223.00 3.18e5



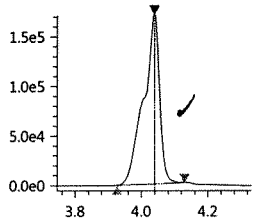
PFPeA-13C
Conc 3.3647
RT 3.990 Area 964472
Q 267.90>223.00 3.18e5



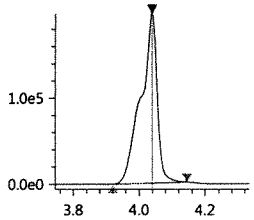
PFPeA
Conc 4.1025
RT 3.991 Area 2597133
Q 263.05>219.10 8.77e5



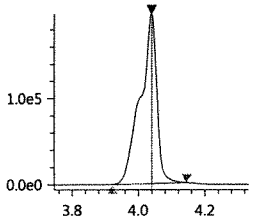
PFBS_1
Conc 4.9595
RT 4.038 Area 569703
Q 299.00>80.00 1.72e5



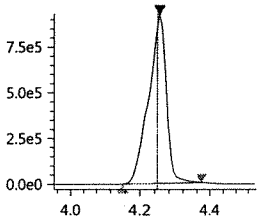
PFBS-13C
Conc 3.3520
RT 4.038 Area 677952
Q 301.80>80.00 1.98e5



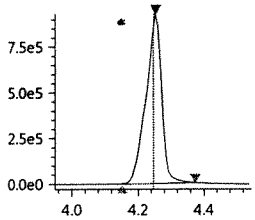
PFBS-13C_IS
Conc 5.0000
RT 4.038 Area 677952
ISTD 301.80>80.00 1.98e5



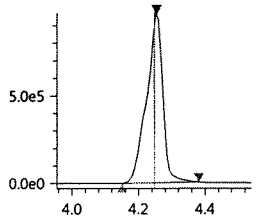
PFHxA-13C_IS
Conc 5.0000
RT 4.254 Area 3080259
ISTD 314.90>270.10 9.33e5



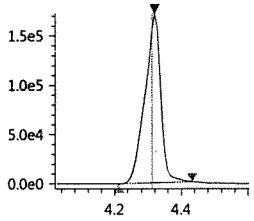
PFHxA-13C
Conc 3.7852
RT 4.254 Area 3080259
Q 314.90>270.10 9.33e5



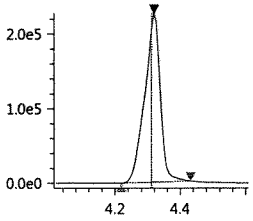
PFHxA
Conc 5.2697
RT 4.254 Area 3205835
Q 313.00>269.00 9.73e5



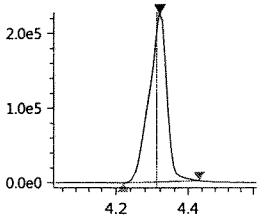
HPFO_DA
Conc 4.0054
RT 4.320 Area 569576
Q 329.00>169.00 1.73e5



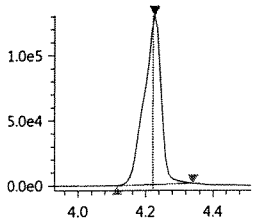
HFPO_DA-13C_IS
Conc 5.0000
RT 4.319 Area 747534
ISTD 332.00>286.80 2.28e5



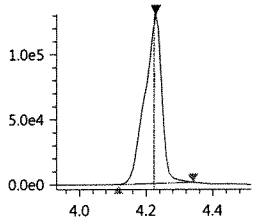
HFPO_DA-13C
Conc 3.7058
RT 4.319 Area 747534
Q 332.00>286.80 2.28e5



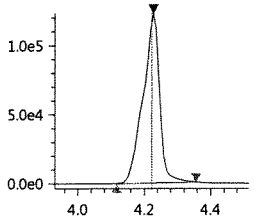
4_2-FTS-13C_IS
Conc 5.0000
RT 4.228 Area 457002
ISTD 328.80>309.05 1.31e5



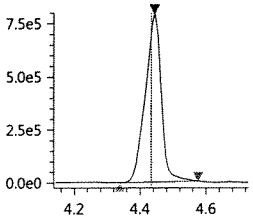
4_2-FTS-13C
Conc 3.4762
RT 4.228 Area 457002
Q 328.80>309.05 1.31e5



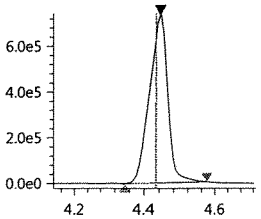
4_2-FTS_1
Conc 3.6599
RT 4.228 Area 425993
Q 327.00>307.05 1.23e5



PFHpA
Conc 4.8154
RT 4.444 Area 2649107
Q 362.90>319.00 8.02e5

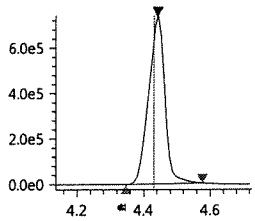


PFHpA-13C_IS
Conc 5.0000
RT 4.443 Area 2503993
ISTD 366.90>322.10 7.44e5

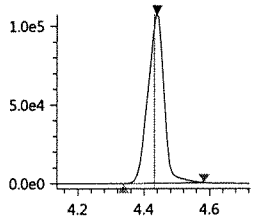


JUL 25 2017

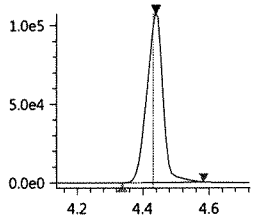
PFHpA-13C
Conc 3.0511
RT 4.443 Area 2503993
Q 366.90>322.10 7.44e5



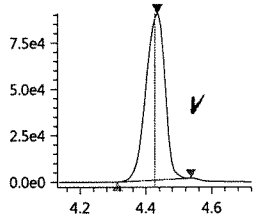
PFHxS-18O_IS
Conc 5.0000
RT 4.440 Area 364164
ISTD 402.70>84.05 1.08e5



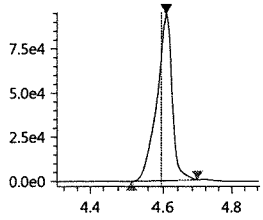
PFHxS-18O
Conc 3.0227
RT 4.440 Area 364164
Q 402.70>84.05 1.08e5



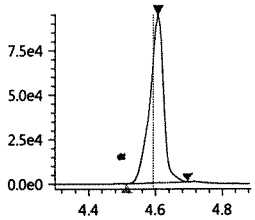
PFHxS_1
Conc 3.5605
RT 4.433 Area 359793
Q 399.00>80.00 9.10e4



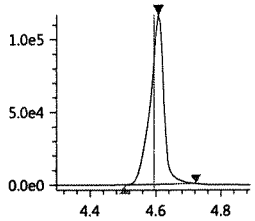
6_2-FTS-13C
Conc 3.4307
RT 4.607 Area 270303
Q 428.90>409.00 9.55e4



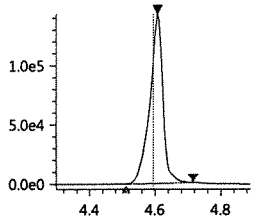
6_2-FTS-13C_IS
Conc 5.0000
RT 4.607 Area 270303
ISTD 428.90>409.00 9.55e4



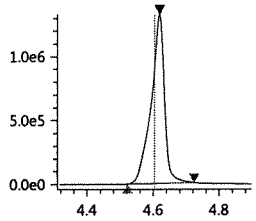
6_2-FTS_1
Conc 4.7253
RT 4.607 Area 336721
Q 427.00>407.00 1.17e5



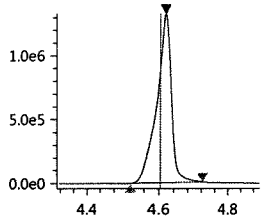
PFHpS_1
Conc 4.9925
RT 4.608 Area 396127
Q 449.00>80.15 1.43e5



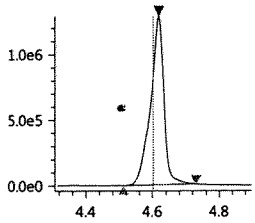
PFOA-13C_IS
Conc 5.0000
RT 4.619 Area 3658481
ISTD 416.80>372.05 1.33e6



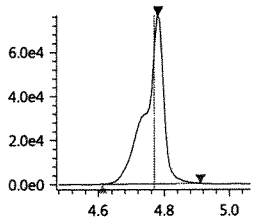
PFOA-13C
Conc 3.4718
RT 4.619 Area 3658481
Q 416.80>372.05 1.33e6



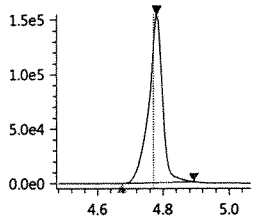
PFOA
Conc 3.8438
RT 4.619 Area 3554748
Q 413.00>369.00 1.29e6



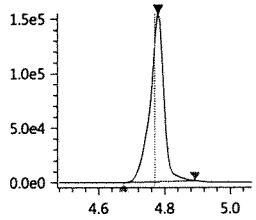
PFOS_1
Conc 4.0254
RT 4.781 Area 292014
Q 499.00>80.00 7.68e4



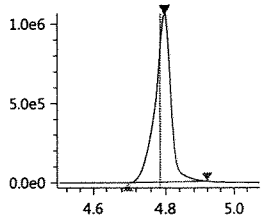
PFOS-13C_IS
Conc 5.0000
RT 4.781 Area 447257
ISTD 502.80>80.05 1.55e5



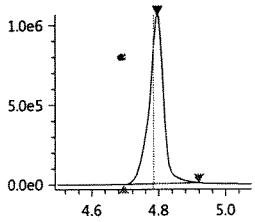
PFOS-13C
Conc 3.4008
RT 4.781 Area 447257
Q 502.80>80.05 1.55e5



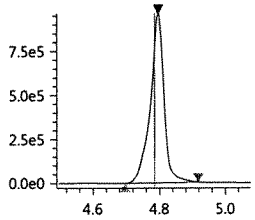
PFNA-13C_IS
Conc 5.0000
RT 4.796 Area 3160496
ISTD 467.80>423.00 1.07e6



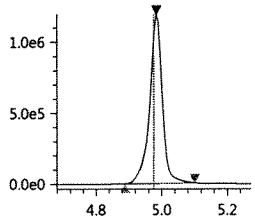
PFNA-13C
Conc 3.3417
RT 4.796 Area 3160496
Q 467.80>423.00 1.07e6



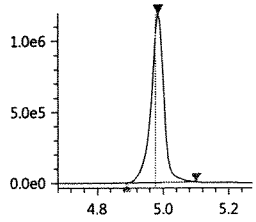
PFNA
Conc 4.0029
RT 4.796 Area 2787545
Q 463.00>418.90 9.65e5



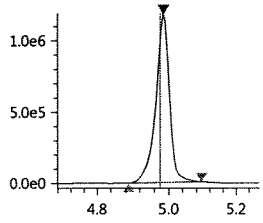
PFDA-13C_IS
Conc 5.0000
RT 4.985 Area 3201807
ISTD 514.80>469.95 1.20e6



PFDA-13C
Conc 4.1000
RT 4.985 Area 3201807
Q 514.80>469.95 1.20e6



PFDA
Conc 3.5817
RT 4.985 Area 3140713
Q 513.00>468.80 1.19e6



Validation Report

Data File: J:\LCMS06\Data\072417_b1\072417_112
Lab ID: KQ1709896-02
RunType: DMS
Matrix: Soil

Date Acquired: 7/24/17 16:45
Batch ID: 554762
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	Perfluoroheptane sulfonic acid (PFHpS)	132	70	130	Narrate rec. ok

Primary Review: JT 7/25/17

Secondary Review: JUL 25 2017

Printed: 7/25/17 8:15
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072417_b1\072417_112	**Instrument:**	K-LCMS-06
Acqu Date:	7/24/17 16:45	**Vial:**	6
Run Type:	DMS	**Dilution:**	1
Lab ID:	KQ1709896-02	**Raw Units:**	ng/mL

Bottle ID:	K1707559-001.01	**Tier:**	II	**Matrix:**	Soil
Prod Code:	PFOA	**Collect Date:**	7/18/17	**Receive Date:**	7/19/17

Analysis Lot:	554762	**Prep Lot:**	293302	**Report Group:**	KQ1709896
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3550B		
		Prep Date:	7/24/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.701	520744	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.417	1896807	3.2528	65	50 - 150	Y
13C2-PFHxA	4.250	2937051	3.5879	72	50 - 150	Y
18O2-PFHxS	4.437	385607	3.1818	64	50 - 150	Y
13C2-6:2 FTS	4.606	264082	3.3319	67	50 - 150	Y
13C4-PFOA	4.617	3734881	3.5233	70	50 - 150	Y
13C5-PFNA	4.794	3282949	3.4507	69	50 - 150	Y
13C4-PFOS	4.779	439274	3.3204	66	50 - 150	Y
13C2-PFDA	4.983	3100721	3.9471	79	50 - 150	Y
13C2-PFUnDA	5.170	3808400	4.0728	81	50 - 150	Y
13C2-PFDoDA	5.353	4735257	3.9980	80	50 - 150	Y
D7-MeFOSE	5.675	461453	3.3783	68	50 - 150	Y
D9-EtFOSE	5.809	529901	3.2167	64	50 - 150	Y
D5-EtFOSA	5.841	478920	3.4029	68	50 - 150	Y
13C2-8:2 FTS	4.981	303834	4.2548	85	50 - 150	Y
13C2-PFTeDA	5.667	3245027	3.3879	68	50 - 150	Y
13C4-PFHpA	4.439	2401037	2.9084	58	50 - 150	Y
13C5-PFPeA	3.988	965779	3.3493	67	50 - 150	Y
13C3-PFBS	4.037	656542	3.2270	65	50 - 150	Y
13C8-FOSA	5.314	1132217	3.1502	63	50 - 150	Y

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.418	2035996	4.1703	41.5		Y
Perfluoropentanoic acid (PFPeA)	3.989	2551215	4.0230	40.0		Y

Printed: 7/25/17 8:15
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072417_b1\072417_112	**Instrument:**	K-LCMS-06
Acqu Date:	7/24/17 16:45	**Vial:**	6
Run Type:	DMS	**Dilution:**	1
Lab ID:	KQ1709896-02	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.036	538083	4.8370	48.1		Y
Perfluorohexanoic acid (PFHxA)	4.251	2918551	5.0352	50.1		Y
Perfluoroheptanoic acid (PFHpA)	4.440	2425323	4.5977	45.8		Y
Perfluorohexane sulfonic acid (PFHxS)	4.435	376199	3.5158	35.0		Y
Perfluorooctanoic acid (PFOA)	4.618	3394138	3.5951	35.8		Y
Perfluoroheptane sulfonic acid (PFHpS)	4.606	447109	5.3217	53.0		Y
Perfluorononanoic acid (PFNA)	4.794	2886526	3.9904	39.7		Y
Perfluorooctane sulfonic acid (PFOS)	4.779	274484	3.8525	38.3		Y
Perfluorodecanoic acid (PFDA)	4.983	2915982	3.4338	34.2		Y
Perfluoroundecanoic acid (PFUnDA)	5.170	3117926	3.5483	35.3		Y
Perfluorooctane sulfonamide (FOSA)	5.315	1559775	4.4855	44.6		Y
Perfluorododecanoic acid (PFDoDA)	5.353	2880955	4.6581	46.4		Y
Perfluorotridecanoic acid (PFTrDA)	5.519	2959969	4.5847	45.6		Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.704	544019	4.8550	48.3		Y
N-Methyl perfluorooctane sulfonamidoethanol	5.683	789068	4.8663	48.4		Y
Perfluorotetradecanoic acid (PFTeDA)	5.667	1570190	4.4595	44.4		Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.820	917715	5.5186	54.9		Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.847	87929	4.9651	49.4		Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.981	256413	4.3769	43.6		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.606	330852	4.7524	47.3		Y
Perfluorodecane sulfonic acid (PFDS)	5.145	355932	4.2333	42.1		Y

Prep Amount:	1.082 g	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	74.30

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/25/17 8:15

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072417_112

Sample ID: KQ1709896-02 KI707559-001 DMS
Date acquired: 7/24/2017 4:45:04 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_112.lcd
Vial: 5 | Inj. Volume: 15.0000uL | Tray: 2

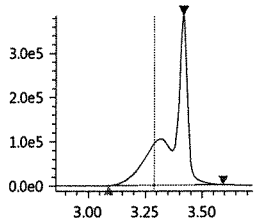
Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.417	1896807	1896807	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.417	1896807	520744	1	3.2528	ng/mL	----	----	Auto
PFBA	3.418	2035996	1896807	2	4.1703	ng/mL	----	----	M
PFPeA-13C_IS	3.988	965779	965779	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.988	965779	520744	1	3.3493	ng/mL	----	----	Auto
PFPeA	3.989	2551215	965779	4	4.0230	ng/mL	----	----	Auto
PFBS_1	4.036	538083	656542	16	4.8370	ng/mL	----	----	Auto
PFBS-13C	4.037	656542	520744	1	3.2270	ng/mL	----	----	Auto
PFBS-13C_IS	4.037	656542	656542	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.250	2937051	2937051	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.250	2937051	520744	1	3.5879	ng/mL	----	----	Auto
PFHxA	4.251	2918551	2937051	6	5.0352	ng/mL	----	----	Auto
HPFO_DA	4.317	512707	704583	3	3.8253	ng/mL	----	----	Auto
HFPO_DA-13C_IS	4.317	704583	704583	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.317	704583	520744	1	3.4722	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.225	403648	403648	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.225	403648	520744	1	3.0522	ng/mL	----	----	Auto
4_2-FTS_1	4.224	411109	403648	5	3.9989	ng/mL	----	----	Auto
PFHpA	4.440	2425323	2401037	8	4.5977	ng/mL	----	----	Auto
PFHpA-13C_IS	4.439	2401037	2401037	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.439	2401037	520744	1	2.9084	ng/mL	----	----	Auto
PFHxS-18O_IS	4.437	385607	385607	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.437	385607	520744	1	3.1818	ng/mL	----	----	Auto
PFHxS_1	4.435	376199	385607	7	3.5158	ng/mL	----	----	M
6_2-FTS-13C	4.606	264082	520744	1	3.3319	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.606	264082	264082	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.606	330852	264082	10	4.7524	ng/mL	----	----	Auto
PFHpS_1	4.606	447109	385607	7	5.3217	ng/mL	----	----	M
PFOA-13C_IS	4.617	3734881	3734881	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.617	3734881	520744	1	3.5233	ng/mL	----	----	Auto
PFOA	4.618	3394138	3734881	9	3.5951	ng/mL	----	----	Auto
PFOS_1	4.779	274484	439274	13	3.8525	ng/mL	----	----	Auto
PFOS-13C_IS	4.779	439274	439274	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.779	439274	520744	1	3.3204	ng/mL	----	----	Auto
PFNA-13C_IS	4.794	3282949	3282949	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.794	3282949	520744	1	3.4507	ng/mL	----	----	Auto
PFNA	4.794	2886526	3282949	11	3.9904	ng/mL	----	----	Auto
PFDA-13C_IS	4.983	3100721	3100721	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.983	3100721	520744	1	3.9471	ng/mL	----	----	Auto
PFDA	4.983	2915982	3100721	12	3.4338	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.981	303834	303834	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.981	303834	520744	1	4.2548	ng/mL	----	----	Auto
8_2-FTS_1	4.981	256413	303834	15	4.3769	ng/mL	----	----	Auto
PFDS_1	5.145	355932	439274	13	4.2333	ng/mL	----	----	Auto
PFUnA	5.170	3117926	3808400	14	3.5483	ng/mL	----	----	Auto
PFUnA-13C_IS	5.170	3808400	3808400	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.170	3808400	520744	1	4.0728	ng/mL	----	----	Auto
PFDoA	5.353	2880955	4735257	17	4.6581	ng/mL	----	----	Auto
PFDoA-13C	5.353	4735257	520744	1	3.9980	ng/mL	----	----	Auto
PFDoA-13C_IS	5.353	4735257	4735257	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	5.362	335565	303834	15	5.8408	ng/mL	----	----	Auto
PFTrDA	5.519	2959969	3245027	22	4.5847	ng/mL	----	----	Auto
PFTeDA	5.667	1570190	3245027	22	4.4595	ng/mL	----	----	Auto
PFTeDA-13C	5.667	3245027	520744	1	3.3879	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.667	3245027	3245027	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.314	1132217	1132217	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.314	1132217	520744	1	3.1502	ng/mL	----	----	Auto
FOSA	5.315	1559775	1132217	18	4.4855	ng/mL	----	----	Auto
N-MeFOSAA	5.091	641149	834981	19	4.7935	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.089	834981	520744	1	3.5873	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.089	834981	834981	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.701	520744	520744	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.704	544019	461453	20	4.8550	ng/mL	----	----	Auto
N-MeFOSE-d7	5.675	461453	520744	1	3.3783	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.675	461453	461453	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	5.683	789068	461453	20	4.8663	ng/mL	----	----	Auto
N-EtFOSAA	5.192	767317	879131	21	5.1720	ng/mL	----	----	Auto

JT

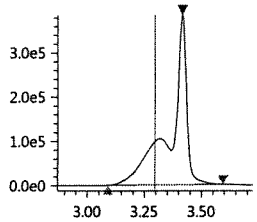
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.188	879131	879131	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.188	879131	520744	1	4.1635	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.841	478920	478920	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.841	478920	520744	1	3.4029	ng/mL	----	----	Auto
N-EtFOSA	5.847	87929	478920	23	4.9651	ng/mL	----	----	Auto
N-EtFOSE-d9_IS	5.809	529901	529901	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.809	529901	520744	1	3.2167	ng/mL	----	----	Auto
N-EtFOSE	5.820	917715	529901	24	5.5186	ng/mL	----	----	Auto

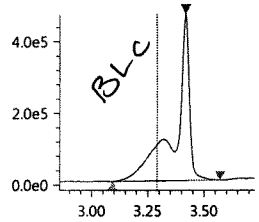
PFBA-13C_IS
Conc 5.0000
RT 3.417 Area 1896807
ISTD 216.90>172.15 3.86e5



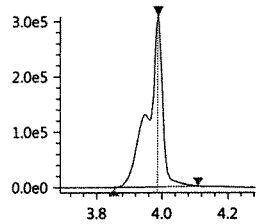
PFBA-13C
Conc 3.2528
RT 3.417 Area 1896807
Q 216.90>172.15 3.86e5



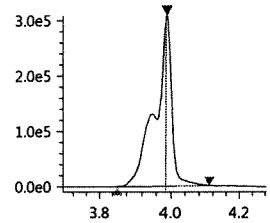
PFBA
Conc 4.1703
RT 3.418 Area 2035996
Q 213.00>169.10 4.78e5



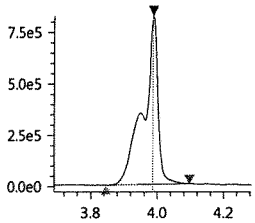
PFPeA-13C_IS
Conc 5.0000
RT 3.988 Area 965779
ISTD 267.90>223.00 3.09e5



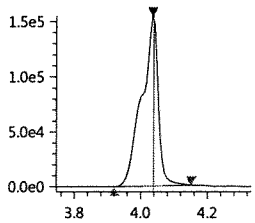
PFPeA-13C
Conc 3.3493
RT 3.988 Area 965779
Q 267.90>223.00 3.09e5



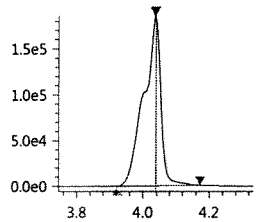
PFPeA
Conc 4.0230
RT 3.989 Area 2551215
Q 263.05>219.10 8.29e5



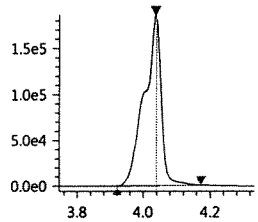
PFBS_1
Conc 4.8370
RT 4.036 Area 538083
Q 299.00>80.00 1.55e5



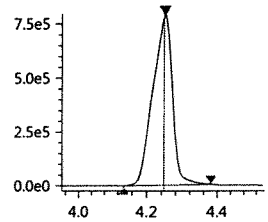
PFBS-13C
Conc 3.2270
RT 4.037 Area 656542
Q 301.80>80.00 1.87e5



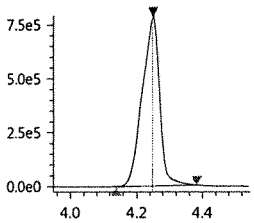
PFBS-13C_IS
Conc 5.0000
RT 4.037 Area 656542
ISTD 301.80>80.00 1.87e5



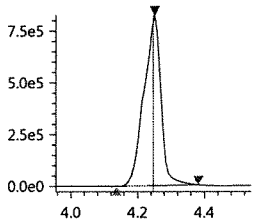
PFHxA-13C_IS
Conc 5.0000
RT 4.250 Area 2937051
ISTD 314.90>270.10 7.95e5



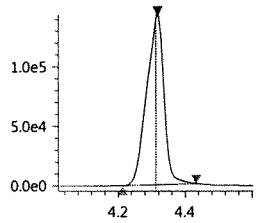
PFHxA-13C
Conc 3.5879
RT 4.250 Area 2937051
Q 314.90>270.10 7.95e5



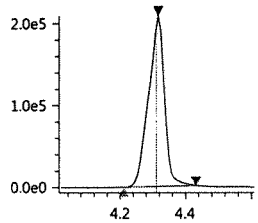
PFHxA
Conc 5.0352
RT 4.251 Area 2918551
Q 313.00>269.00 8.27e5



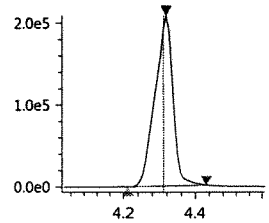
HPFO_DA
Conc 3.8253
RT 4.317 Area 512707
Q 329.00>169.00 1.44e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.317 Area 704583
ISTD 332.00>286.80 2.09e5



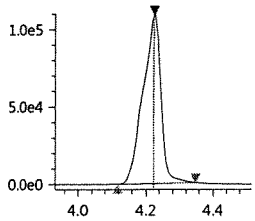
HFPO_DA-13C
Conc 3.4722
RT 4.317 Area 704583
Q 332.00>286.80 2.09e5



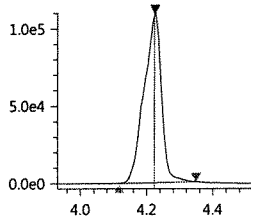
JUL 25 2017

JT

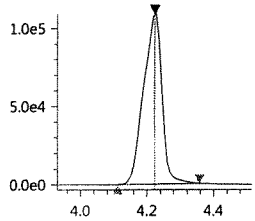
4_2-FTS-13C_IS
Conc 5.0000
RT 4.225 Area 403648
ISTD 328.80>309.05 1.11e5



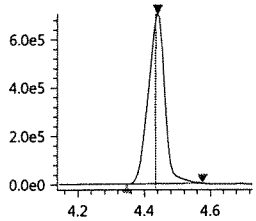
4_2-FTS-13C
Conc 3.0522
RT 4.225 Area 403648
Q 328.80>309.05 1.11e5



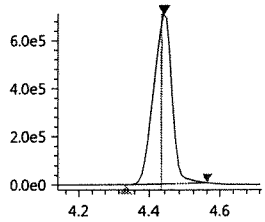
4_2-FTS_1
Conc 3.9989
RT 4.224 Area 411109
Q 327.00>307.05 1.09e5



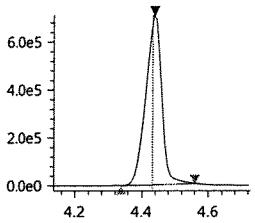
PFHpA
Conc 4.5977
RT 4.440 Area 2425323
Q 362.90>319.00 7.08e5



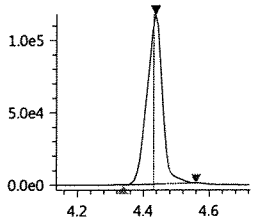
PFHpA-13C_IS
Conc 5.0000
RT 4.439 Area 2401037
ISTD 366.90>322.10 7.13e5



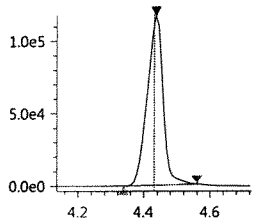
PFHpA-13C
Conc 2.9084
RT 4.439 Area 2401037
Q 366.90>322.10 7.13e5



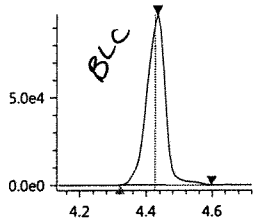
PFHxS-18O_IS
Conc 5.0000
RT 4.437 Area 385607
ISTD 402.70>84.05 1.18e5



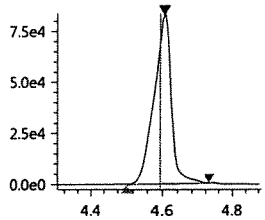
PFHxS-18O
Conc 3.1818
RT 4.437 Area 385607
Q 402.70>84.05 1.18e5



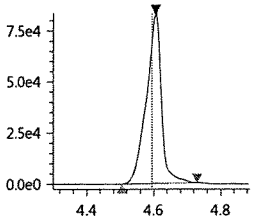
PFHxS_1
Conc 3.5158
RT 4.435 Area 376199
Q 399.00>80.00 9.78e4



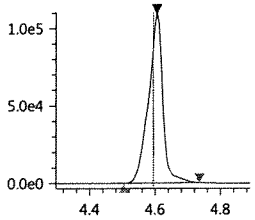
6_2-FTS-13C
Conc 3.3319
RT 4.606 Area 264082
Q 428.90>409.00 8.39e4



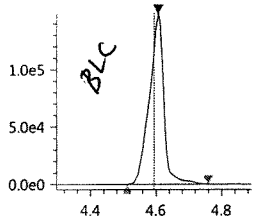
6_2-FTS-13C_IS
Conc 5.0000
RT 4.606 Area 264082
ISTD 428.90>409.00 8.39e4



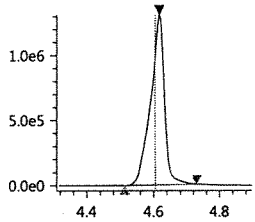
6_2-FTS_1
Conc 4.7524
RT 4.606 Area 330852
Q 427.00>407.00 1.11e5



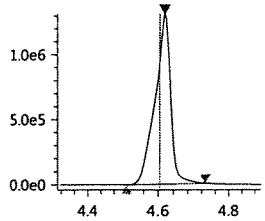
PFHpS_1
Conc 5.3217
RT 4.606 Area 447109
Q 449.00>80.15 1.49e5



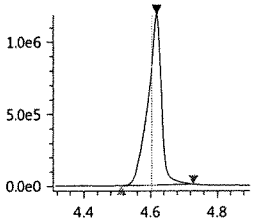
PFOA-13C_IS
Conc 5.0000
RT 4.617 Area 3734881
ISTD 416.80>372.05 1.32e6



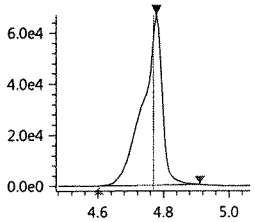
PFOA-13C
Conc 3.5233
RT 4.617 Area 3734881
Q 416.80>372.05 1.32e6



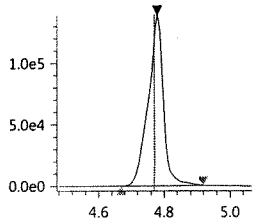
PFOA
Conc 3.5951
RT 4.618 Area 3394138
Q 413.00>369.00 1.19e6



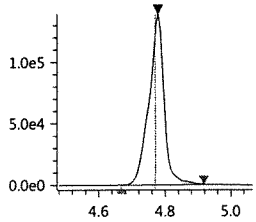
PFOS_1
Conc 3.8525
RT 4.779 Area 274484
Q 499.00>80.00 6.71e4



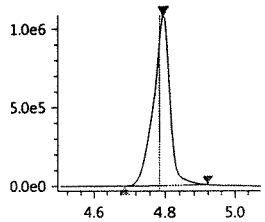
PFOS-13C_IS
Conc 5.0000
RT 4.779 Area 439274
ISTD 502.80>80.05 1.39e5



PFOS-13C
Conc 3.3204
RT 4.779 Area 439274
Q 502.80>80.05 1.39e5

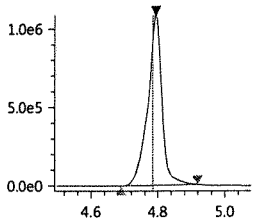


PFNA-13C_IS
Conc 5.0000
RT 4.794 Area 3282949
ISTD 467.80>423.00 1.09e6

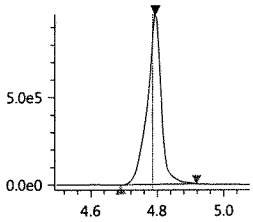


JUL 2 5 2017

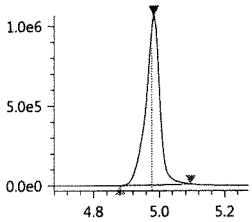
PFNA-13C
Conc 3.4507
RT 4.794 Area 3282949
Q 467.80>423.00 1.09e6



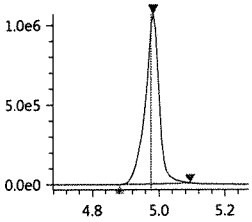
PFNA
Conc 3.9904
RT 4.794 Area 2886526
Q 463.00>418.90 9.78e5



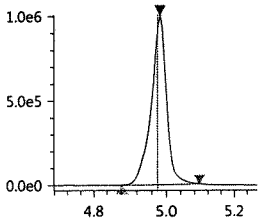
PFDA-13C_IS
Conc 5.0000
RT 4.983 Area 3100721
ISTD 514.80>469.95 1.07e6



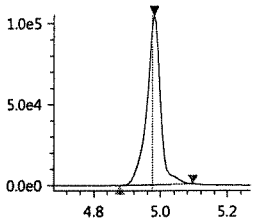
PFDA-13C
Conc 3.9471
RT 4.983 Area 3100721
Q 514.80>469.95 1.07e6



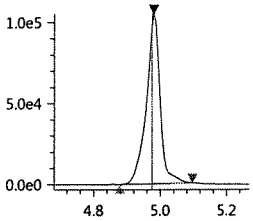
PFDA
Conc 3.4338
RT 4.983 Area 2915982
Q 513.00>468.80 1.01e6



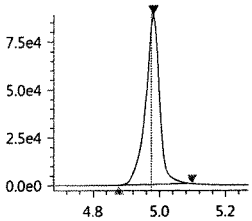
8_2-FTS-13C_IS
Conc 5.0000
RT 4.981 Area 303834
ISTD 528.80>509.00 1.05e5



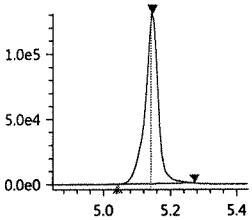
8_2-FTS-13C
Conc 4.2548
RT 4.981 Area 303834
Q 528.80>509.00 1.05e5



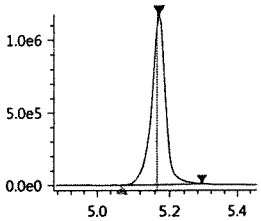
8_2-FTS_1
Conc 4.3769
RT 4.981 Area 256413
Q 526.90>506.90 8.94e4



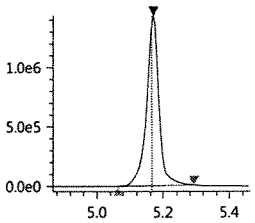
PFDS_1
Conc 4.2333
RT 5.145 Area 355932
Q 599.00>79.90 1.31e5



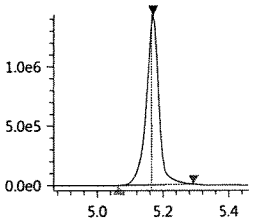
PFUnA
Conc 3.5483
RT 5.170 Area 3117926
Q 563.00>518.90 1.18e6



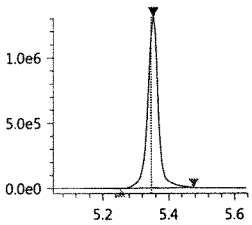
PFUnA-13C_IS
Conc 5.0000
RT 5.170 Area 3808400
ISTD 564.80>519.95 1.44e6



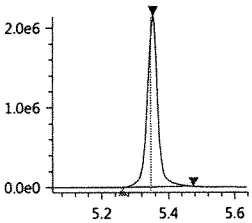
PFUnA-13C
Conc 4.0728
RT 5.170 Area 3808400
Q 564.80>519.95 1.44e6



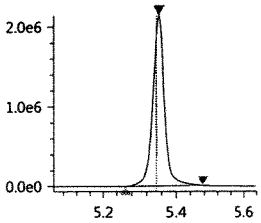
PFDoA
Conc 4.6581
RT 5.353 Area 2880955
Q 613.05>569.00 1.31e6



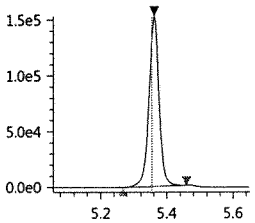
PFDoA-13C
Conc 3.9980
RT 5.353 Area 4735257
Q 614.80>569.95 2.15e6



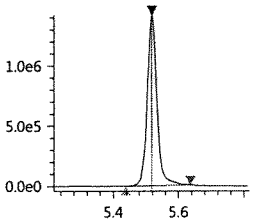
PFDoA-13C_IS
Conc 5.0000
RT 5.353 Area 4735257
ISTD 614.80>569.95 2.15e6



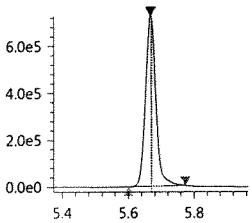
10_2-FtS_1
Conc 5.8408
RT 5.362 Area 335565
Q 627.00>606.95 1.53e5



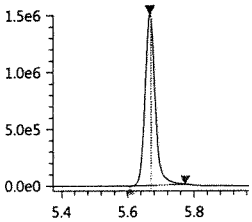
PFTrDA
Conc 4.5847
RT 5.519 Area 2959969
Q 663.00>618.90 1.42e6



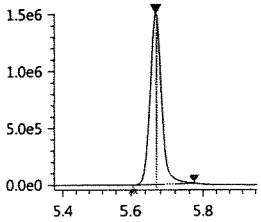
PFTeDA
Conc 4.4595
RT 5.667 Area 1570190
Q 713.40>669.00 7.28e5



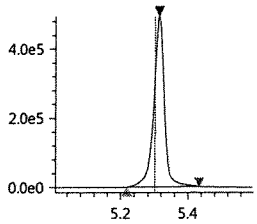
PFTeDA-13C
Conc 3.3879
RT 5.667 Area 3245027
Q 714.70>669.90 1.51e6



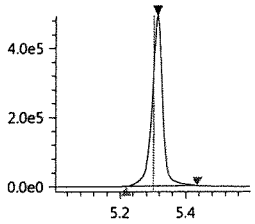
PFTeDA-13C_IS
Conc 5.0000
RT 5.667 Area 3245027
ISTD 714.70>669.90 1.51e6



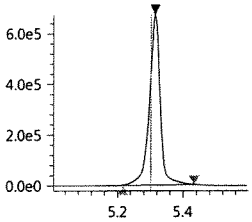
FOSA-13C_IS
Conc 5.0000
RT 5.314 Area 1132217
ISTD 506.00>78.05 4.95e5



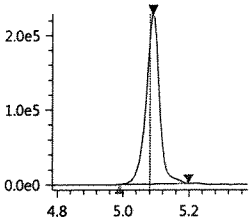
FOSA-13C
Conc 3.1502
RT 5.314 Area 1132217
Q 506.00>78.05 4.95e5



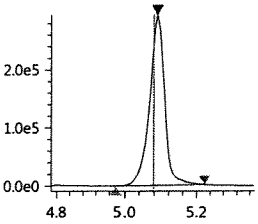
FOSA
Conc 4.4855
RT 5.315 Area 1559775
Q 498.00>78.00 6.76e5



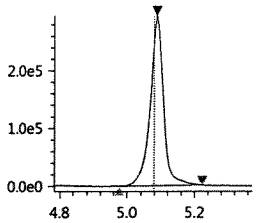
N-MeFOSAA
Conc 4.7935
RT 5.091 Area 641149
Q 570.20>419.00 2.29e5



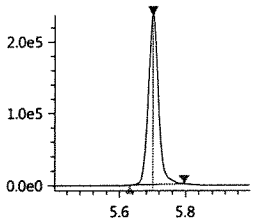
N-MeFOSAA-d3
Conc 3.5873
RT 5.089 Area 834981
Q 572.80>419.05 2.95e5



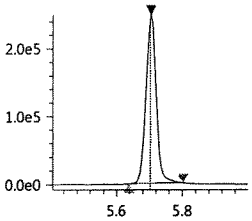
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.089 Area 834981
ISTD 572.80>419.05 2.95e5



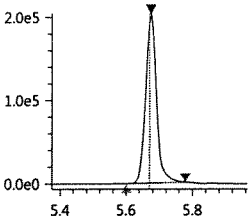
N-MeFOSA_IS
Conc 5.0000
RT 5.701 Area 520744
ISTD 514.90>168.90 2.37e5



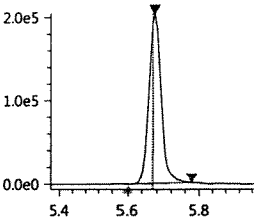
N-MeFOSA
Conc 4.8550
RT 5.704 Area 544019
Q 512.00>169.10 2.51e5



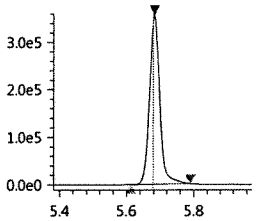
N-MeFOSE-d7
Conc 3.3783
RT 5.675 Area 461453
Q 622.70>59.10 2.05e5



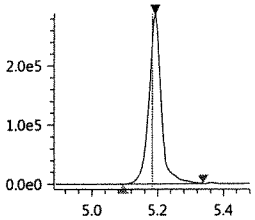
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.675 Area 461453
ISTD 622.70>59.10 2.05e5



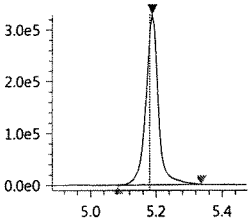
N-MeFOSE
Conc 4.8663
RT 5.683 Area 789068
Q 616.00>59.00 3.60e5



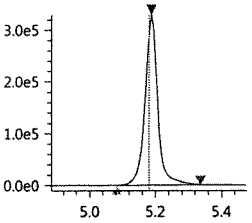
N-EtFOSAA
Conc 5.1720
RT 5.192 Area 767317
Q 584.20>418.95 2.89e5



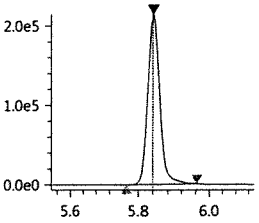
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.188 Area 879131
ISTD 588.80>419.00 3.30e5



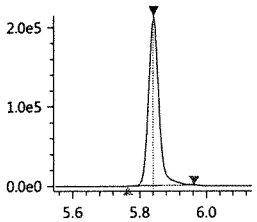
N-EtFOSAA-d5
Conc 4.1635
RT 5.188 Area 879131
Q 588.80>419.00 3.30e5



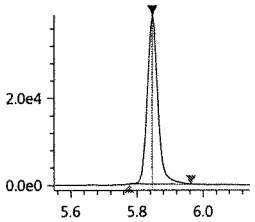
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.841 Area 478920
ISTD 530.90>169.15 2.15e5



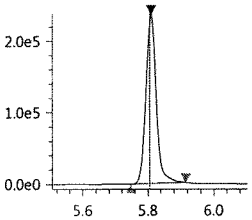
N-EtFOSA-d9
Conc 3.4029
RT 5.841 Area 478920
Q 530.90>169.15 2.15e5



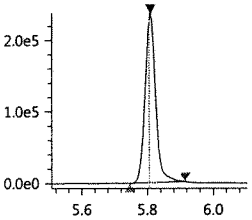
N-EtFOSA
Conc 4.9651
RT 5.847 Area 87929
Q 526.90>169.10 3.92e4



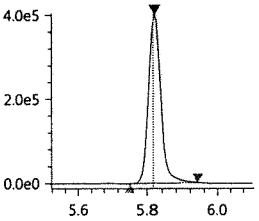
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.809 Area 529901
ISTD 638.70>59.10 2.38e5



N-EtFOSE-d9
Conc 3.2167
RT 5.809 Area 529901
Q 638.70>59.10 2.38e5



N-EtFOSE
Conc 5.5186
RT 5.820 Area 917715
Q 630.00>58.90 4.05e5

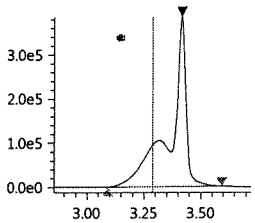


JT

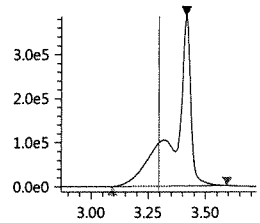
072417_112

Sample ID: KQ1709896-02 KL707559-001 DMS
Date acquired: 7/24/2017 4:45:04 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_112.lcd
Vial: 5 | Inj. Volume: 15.0000uL | Tray: 2

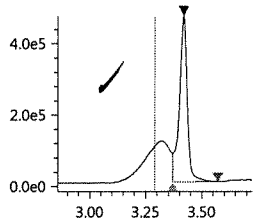
PFBA-13C_IS
Conc 5.0000
RT 3.417 Area 1896807
ISTD 216.90>172.15 3.86e5



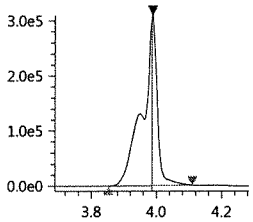
PFBA-13C
Conc 3.2528
RT 3.417 Area 1896807
Q 216.90>172.15 3.86e5



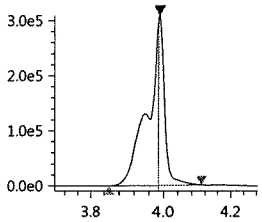
PFBA
Conc 2.3171
RT 3.418 Area 1131255
Q 213.00>169.10 4.78e5



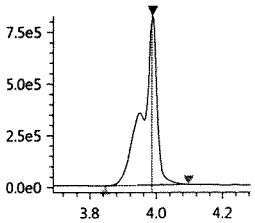
PFPeA-13C_IS
Conc 5.0000
RT 3.988 Area 965779
ISTD 267.90>223.00 3.09e5



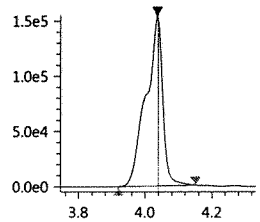
PFPeA-13C
Conc 3.3493
RT 3.988 Area 965779
Q 267.90>223.00 3.09e5



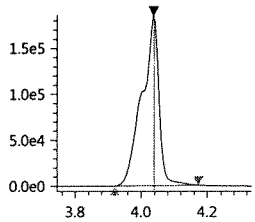
PFPeA
Conc 4.0230
RT 3.989 Area 2551215
Q 263.05>219.10 8.29e5



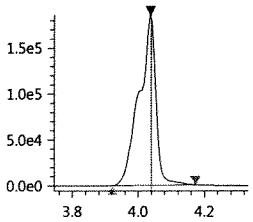
PFBS_1
Conc 4.8370
RT 4.036 Area 538083
Q 299.00>80.00 1.55e5



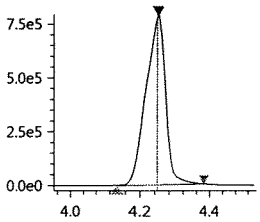
PFBS-13C
Conc 3.2270
RT 4.037 Area 656542
Q 301.80>80.00 1.87e5



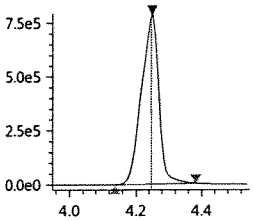
PFBS-13C_IS
Conc 5.0000
RT 4.037 Area 656542
ISTD 301.80>80.00 1.87e5



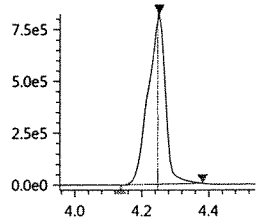
PFHxA-13C_IS
Conc 5.0000
RT 4.250 Area 2937051
ISTD 314.90>270.10 7.95e5



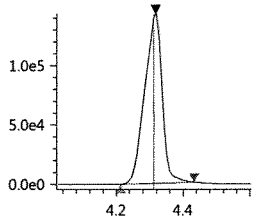
PFHxA-13C
Conc 3.5879
RT 4.250 Area 2937051
Q 314.90>270.10 7.95e5



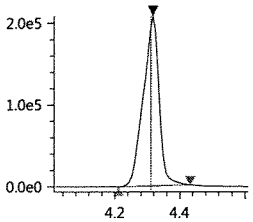
PFHxA
Conc 5.0352
RT 4.251 Area 2918551
Q 313.00>269.00 8.27e5



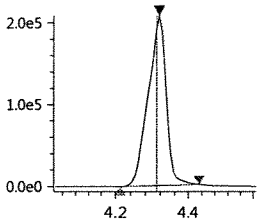
HPFO_DA
Conc 3.8253
RT 4.317 Area 512707
Q 329.00>169.00 1.44e5



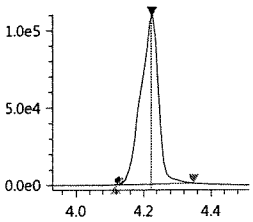
HFPO_DA-13C_IS
Conc 5.0000
RT 4.317 Area 704583
ISTD 332.00>286.80 2.09e5



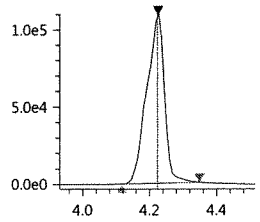
HFPO_DA-13C
Conc 3.4722
RT 4.317 Area 704583
Q 332.00>286.80 2.09e5



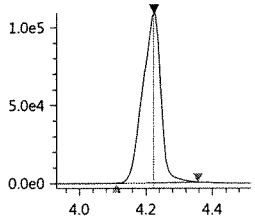
4_2-FTS-13C_IS
Conc 5.0000
RT 4.225 Area 403648
ISTD 328.80>309.05 1.11e5



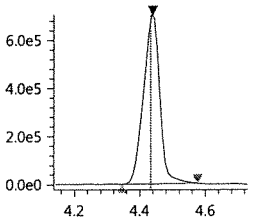
4_2-FTS-13C
Conc 3.0522
RT 4.225 Area 403648
Q 328.80>309.05 1.11e5



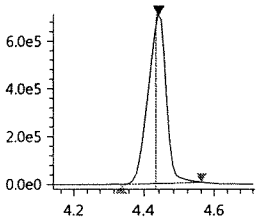
4_2-FTS_1
Conc 3.9989
RT 4.224 Area 411109
Q 327.00>307.05 1.09e5



PFHpA
Conc 4.5977
RT 4.440 Area 2425323
Q 362.90>319.00 7.08e5

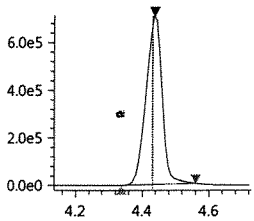


PFHpA-13C_IS
Conc 5.0000
RT 4.439 Area 2401037
ISTD 366.90>322.10 7.13e5

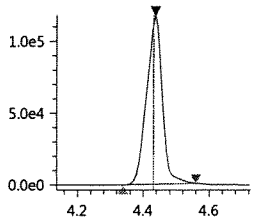


JUL 25 2017

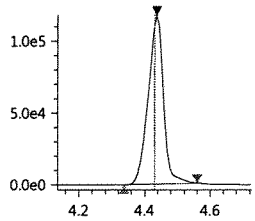
PFHpA-13C
Conc 2.9084
RT 4.439 Area 2401037
Q 366.90>322.10 7.13e5



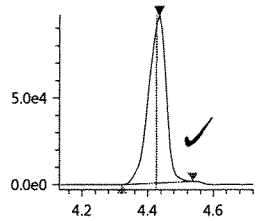
PFHxS-18O_IS
Conc 5.0000
RT 4.437 Area 385607
ISTD 402.70>84.05 1.18e5



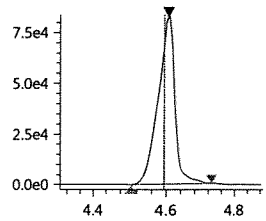
PFHxS-18O
Conc 3.1818
RT 4.437 Area 385607
Q 402.70>84.05 1.18e5



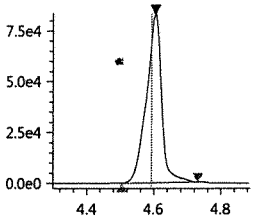
PFHxS_1
Conc 3.3755
RT 4.435 Area 361191
Q 399.00>80.00 9.78e4



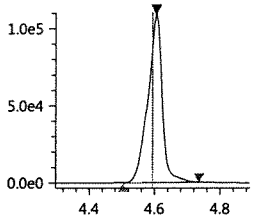
6_2-FTS-13C
Conc 3.3319
RT 4.606 Area 264082
Q 428.90>409.00 8.39e4



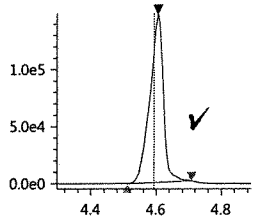
6_2-FTS-13C_IS
Conc 5.0000
RT 4.606 Area 264082
ISTD 428.90>409.00 8.39e4



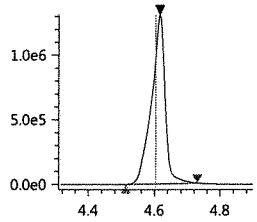
6_2-FTS_1
Conc 4.7524
RT 4.606 Area 330852
Q 427.00>407.00 1.11e5



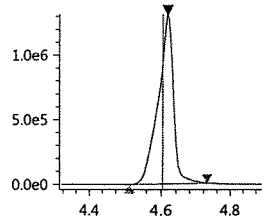
PFHpS_1
Conc 5.1141
RT 4.606 Area 429666
Q 449.00>80.15 1.49e5



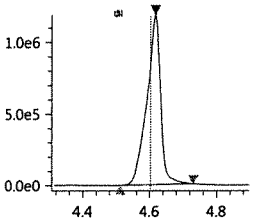
PFOA-13C_IS
Conc 5.0000
RT 4.617 Area 3734881
ISTD 416.80>372.05 1.32e6



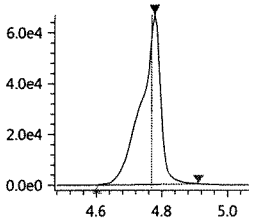
PFOA-13C
Conc 3.5233
RT 4.617 Area 3734881
Q 416.80>372.05 1.32e6



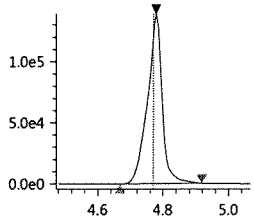
PFOA
Conc 3.5951
RT 4.618 Area 3394138
Q 413.00>369.00 1.19e6



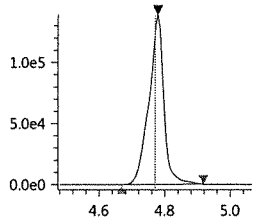
PFOS_1
Conc 3.8525
RT 4.779 Area 274484
Q 499.00>80.00 6.71e4



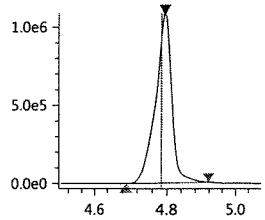
PFOS-13C_IS
Conc 5.0000
RT 4.779 Area 439274
ISTD 502.80>80.05 1.39e5



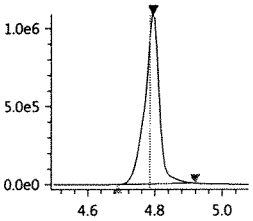
PFOS-13C
Conc 3.3204
RT 4.779 Area 439274
Q 502.80>80.05 1.39e5



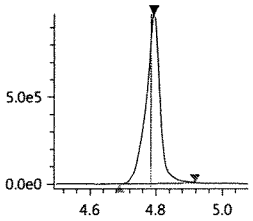
PFNA-13C_IS
Conc 5.0000
RT 4.794 Area 3282949
ISTD 467.80>423.00 1.09e6



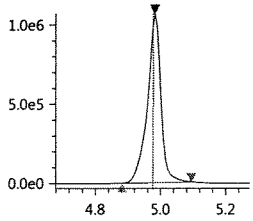
PFNA-13C
Conc 3.4507
RT 4.794 Area 3282949
Q 467.80>423.00 1.09e6



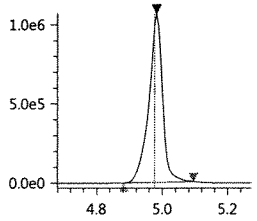
PFNA
Conc 3.9904
RT 4.794 Area 2886526
Q 463.00>418.90 9.78e5



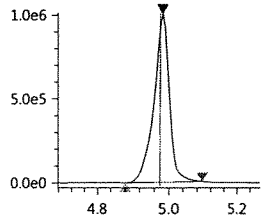
PFDA-13C_IS
Conc 5.0000
RT 4.983 Area 3100721
ISTD 514.80>469.95 1.07e6



PFDA-13C
Conc 3.9471
RT 4.983 Area 3100721
Q 514.80>469.95 1.07e6



PFDA
Conc 3.4338
RT 4.983 Area 2915982
Q 513.00>468.80 1.01e6



Validation Report

Data File: J:\LCMS06\Data\072417_b1\072417_109
Lab ID: KQ1709896-03
RunType: LCS
Matrix: Soil

Date Acquired: 7/24/17 16:13
Batch ID: 554762
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	Perfluoroheptane sulfonic acid (PFHpS)	132	70	130	Nonstd - rec ok

Primary Review: JT 7/25/17

Secondary Review: JUL 25 2017

Printed: 7/25/17 8:15
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072417_b1\072417_109	**Instrument:**	K-LCMS-06
Acqu Date:	7/24/17 16:13	**Vial:**	3
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ1709896-03	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	PFOA	**Collect Date:**	7/18/17	**Receive Date:**	7/19/17

Analysis Lot:	554762	**Prep Lot:**	293302	**Report Group:**	KQ1709896
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3550B		
		Prep Date:	7/24/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.703	482026	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.342	1907555	3.5340	71	50 - 150	Y
13C2-PFHxA	4.252	3131516	4.1327	83	50 - 150	Y
18O2-PFHxS	4.437	391779	3.4924	70	50 - 150	Y
13C2-6:2 FTS	4.606	255858	3.4874	70	50 - 150	Y
13C4-PFOA	4.618	3883208	3.9575	79	50 - 150	Y
13C5-PFNA	4.795	3317155	3.7667	75	50 - 150	Y
13C4-PFOS	4.780	459994	3.7563	75	50 - 150	Y
13C2-PFDA	4.984	3210329	4.4149	88	50 - 150	Y
13C2-PFUnDA	5.172	3884649	4.4880	90	50 - 150	Y
13C2-PFDoDA	5.356	4903580	4.4727	89	50 - 150	Y
D7-MeFOSE	5.676	450508	3.5631	71	50 - 150	Y
D9-EtFOSE	5.810	492466	3.2296	65	50 - 150	Y
D5-EtFOSA	5.843	451393	3.4649	69	50 - 150	Y
13C2-8:2 FTS	4.983	293161	4.4351	89	50 - 150	Y
13C2-PFTeDA	5.668	3048077	3.4379	69	50 - 150	Y
13C4-PFHpA	4.440	2394891	3.1340	63	50 - 150	Y
13C5-PFPeA	3.991	903536	3.3852	68	50 - 150	Y
13C3-PFBS	4.038	651164	3.4576	69	50 - 150	Y
13C8-FOSA	5.317	1118348	3.3616	67	50 - 150	Y

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.422	2080276	4.2370	33.9		Y
Perfluoropentanoic acid (PFPeA)	3.991	2570082	4.3382	34.7		Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/25/17 8:15
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072417_b1\072417_109	**Instrument:**	K-LCMS-06
Acqu Date:	7/24/17 16:13	**Vial:**	3
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ1709896-03	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.038	553050	5.0126	40.1		Y
Perfluorohexanoic acid (PFHxA)	4.251	3155376	5.1046	40.8		Y
Perfluoroheptanoic acid (PFHpA)	4.439	2522700	4.7945	38.4		Y
Perfluorohexane sulfonic acid (PFHxS)	4.430	342927	3.1544	25.2		Y
Perfluorooctanoic acid (PFOA)	4.619	3535060	3.6013	28.8		Y
Perfluoroheptane sulfonic acid (PFHpS)	4.607	403721	4.7296	37.8		Y
Perfluorononanoic acid (PFNA)	4.796	2845555	3.8932	31.1		Y
Perfluorooctane sulfonic acid (PFOS)	4.780	275084	3.6870	29.5		Y
Perfluorodecanoic acid (PFDA)	4.985	3090998	3.5156	28.1		Y
Perfluoroundecanoic acid (PFUnDA)	5.172	3216091	3.5882	28.7		Y
Perfluorooctane sulfonamide (FOSA)	5.318	1630018	4.7456	38.0		Y
Perfluorododecanoic acid (PFDoDA)	5.356	3073164	4.7983	38.4		Y
Perfluorotridecanoic acid (PFTrDA)	5.521	3076947	5.0739	40.6		Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.706	547940	5.0088	40.1		Y
N-Methyl perfluorooctane sulfonamidoethanol	5.685	785945	4.9648	39.7		Y
Perfluorotetradecanoic acid (PFTeDA)	5.668	1684426	5.1058	40.8		Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.821	889396	5.7549	46.0		Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.848	87755	5.2574	42.1		Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.982	257296	4.5518	36.4		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.606	311918	4.6244	37.0		Y
Perfluorodecane sulfonic acid (PFDS)	5.146	348410	3.9572	31.7		Y

Prep Amount:	1 g	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/25/17 8:15

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072417_109

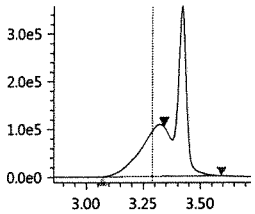
Sample ID: KQ1709896-03 LCS
Date acquired: 7/24/2017 4:13:40 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_109.lcd
Vial: 2 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.342	1907555	1907555	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.342	1907555	482026	1	3.5340	ng/mL	----	----	Auto
PFBA	3.422	2080276	1907555	2	4.2370	ng/mL	----	----	M
PFPeA-13C_IS	3.991	903536	903536	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.991	903536	482026	1	3.3852	ng/mL	----	----	Auto
PFPeA	3.991	2570082	903536	4	4.3382	ng/mL	----	----	Auto
PFBS_1	4.038	553050	651164	16	5.0126	ng/mL	----	----	Auto
PFBS-13C	4.038	651164	482026	1	3.4576	ng/mL	----	----	Auto
PFBS-13C_IS	4.038	651164	651164	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.252	3131516	3131516	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.252	3131516	482026	1	4.1327	ng/mL	----	----	Auto
PFHxA	4.251	3155376	3131516	6	5.1046	ng/mL	----	----	Auto
HPFO_DA	4.318	565363	714871	3	4.1575	ng/mL	----	----	Auto
HFPO_DA-13C_IS	4.318	714871	714871	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.318	714871	482026	1	3.8059	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.226	395526	395526	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.226	395526	482026	1	3.2310	ng/mL	----	----	Auto
4_2-FTS_1	4.227	424525	395526	5	4.2142	ng/mL	----	----	Auto
PFHpA	4.439	2522700	2394891	8	4.7945	ng/mL	----	----	Auto
PFHpA-13C_IS	4.440	2394891	2394891	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.440	2394891	482026	1	3.1340	ng/mL	----	----	Auto
PFHxS-18O_IS	4.437	391779	391779	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.437	391779	482026	1	3.4924	ng/mL	----	----	Auto
PFHxS_1	4.430	342927	391779	7	3.1544	ng/mL	----	----	Auto
6_2-FTS-13C	4.606	255858	482026	1	3.4874	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.606	255858	255858	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.606	311918	255858	10	4.6244	ng/mL	----	----	Auto
PFHpS_1	4.607	403721	391779	7	4.7296	ng/mL	----	----	Auto
PFOA-13C_IS	4.618	3883208	3883208	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.618	3883208	482026	1	3.9575	ng/mL	----	----	Auto
PFOA	4.619	3535060	3883208	9	3.6013	ng/mL	----	----	Auto
PFOS_1	4.780	275084	459994	13	3.6870	ng/mL	----	----	Auto
PFOS-13C_IS	4.780	459994	459994	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.780	459994	482026	1	3.7563	ng/mL	----	----	Auto
PFNA-13C_IS	4.795	3317155	3317155	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.795	3317155	482026	1	3.7667	ng/mL	----	----	Auto
PFNA	4.796	2845555	3317155	11	3.8932	ng/mL	----	----	Auto
PFDA-13C_IS	4.984	3210329	3210329	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.984	3210329	482026	1	4.4149	ng/mL	----	----	Auto
PFDA	4.985	3090998	3210329	12	3.5156	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.983	293161	293161	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.983	293161	482026	1	4.4351	ng/mL	----	----	Auto
8_2-FTS_1	4.982	257296	293161	15	4.5518	ng/mL	----	----	Auto
PFDS_1	5.146	348410	459994	13	3.9572	ng/mL	----	----	Auto
PFUnA	5.172	3216091	3884649	14	3.5882	ng/mL	----	----	Auto
PFUnA-13C_IS	5.172	3884649	3884649	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.172	3884649	482026	1	4.4880	ng/mL	----	----	Auto
PFDoA	5.356	3073164	4903580	17	4.7983	ng/mL	----	----	Auto
PFDoA-13C	5.356	4903580	482026	1	4.4727	ng/mL	----	----	Auto
PFDoA-13C_IS	5.356	4903580	4903580	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	5.364	362110	293161	15	6.5323	ng/mL	----	----	Auto
PFTrDA	5.521	3076947	3048077	22	5.0739	ng/mL	----	----	Auto
PFTeDA	5.668	1684426	3048077	22	5.1058	ng/mL	----	----	Auto
PFTeDA-13C	5.668	3048077	482026	1	3.4379	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.668	3048077	3048077	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.317	1118348	1118348	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.317	1118348	482026	1	3.3616	ng/mL	----	----	Auto
FOSA	5.318	1630018	1118348	18	4.7456	ng/mL	----	----	Auto
N-MeFOSAA	5.094	667281	821772	19	5.0690	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.090	821772	482026	1	3.8142	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.090	821772	821772	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.703	482026	482026	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.706	547940	450508	20	5.0088	ng/mL	----	----	Auto
N-MeFOSE-d7	5.676	450508	482026	1	3.5631	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.676	450508	450508	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	5.685	785945	450508	20	4.9648	ng/mL	----	----	Auto
N-EtFOSAA	5.194	761503	871483	21	5.1779	ng/mL	----	----	Auto

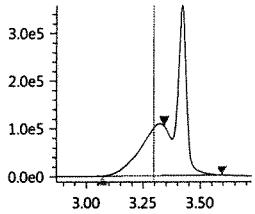
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.190	871483	871483	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.190	871483	482026	1	4.4588	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.843	451393	451393	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.843	451393	482026	1	3.4649	ng/mL	----	----	Auto
N-EtFOSA	5.848	87755	451393	23	5.2574	ng/mL	----	----	Auto
N-EtFOSE-d9_IS	5.810	492466	492466	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.810	492466	482026	1	3.2296	ng/mL	----	----	Auto
N-EtFOSE	5.821	889396	492466	24	5.7549	ng/mL	----	----	Auto

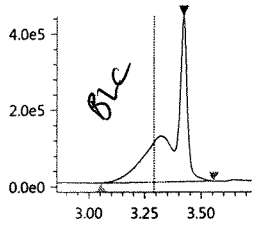
PFBA-13C_IS
Conc 5.0000
RT 3.342 Area 1907555
ISTD 216.90>172.15 3.59e5



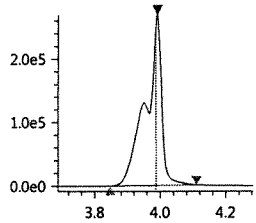
PFBA-13C
Conc 3.5340
RT 3.342 Area 1907555
Q 216.90>172.15 3.59e5



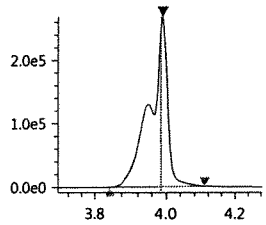
PFBA
Conc 4.2370
RT 3.422 Area 2080276
Q 213.00>169.10 4.49e5



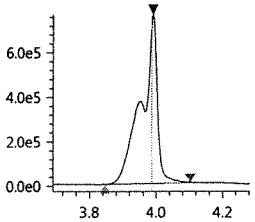
PFPeA-13C_IS
Conc 5.0000
RT 3.991 Area 903536
ISTD 267.90>223.00 2.70e5



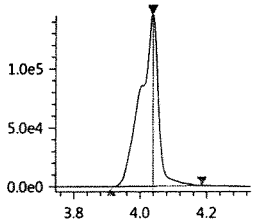
PFPeA-13C
Conc 3.3852
RT 3.991 Area 903536
Q 267.90>223.00 2.70e5



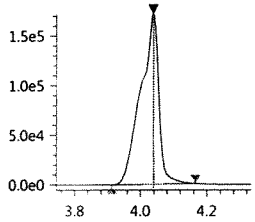
PFPeA
Conc 4.3382
RT 3.991 Area 2570082
Q 263.05>219.10 7.72e5



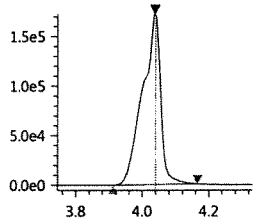
PFBS_1
Conc 5.0126
RT 4.038 Area 553050
Q 299.00>80.00 1.46e5



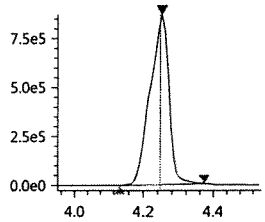
PFBS-13C
Conc 3.4576
RT 4.038 Area 651164
Q 301.80>80.00 1.73e5



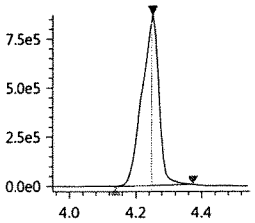
PFBS-13C_IS
Conc 5.0000
RT 4.038 Area 651164
ISTD 301.80>80.00 1.73e5



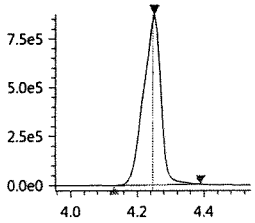
PFHxA-13C_IS
Conc 5.0000
RT 4.252 Area 3131516
ISTD 314.90>270.10 8.74e5



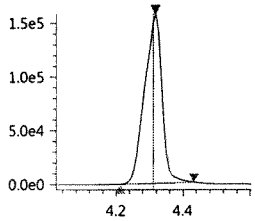
PFHxA-13C
Conc 4.1327
RT 4.252 Area 3131516
Q 314.90>270.10 8.74e5



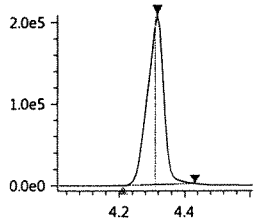
PFHxA
Conc 5.1046
RT 4.251 Area 3155376
Q 313.00>269.00 8.76e5



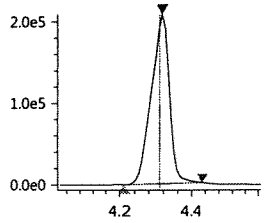
HPFO_DA
Conc 4.1575
RT 4.318 Area 565363
Q 329.00>169.00 1.59e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.318 Area 714871
ISTD 332.00>286.80 2.09e5

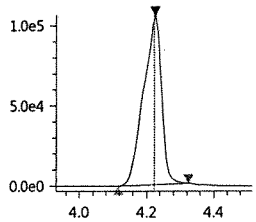


HFPO_DA-13C
Conc 3.8059
RT 4.318 Area 714871
Q 332.00>286.80 2.09e5

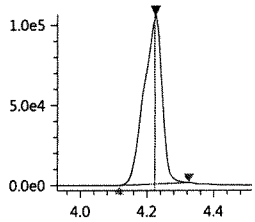


JUL 25 2017

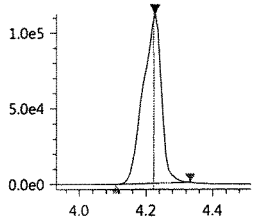
4_2-FTS-13C_IS
Conc 5.0000
RT 4.226 Area 395526
ISTD 328.80>309.05 1.07e5



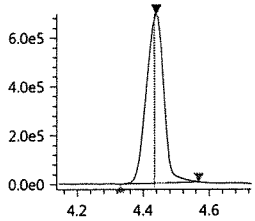
4_2-FTS-13C
Conc 3.2310
RT 4.226 Area 395526
Q 328.80>309.05 1.07e5



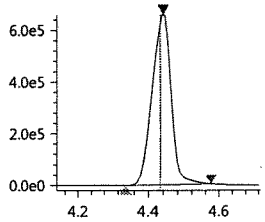
4_2-FTS_1
Conc 4.2142
RT 4.227 Area 424525
Q 327.00>307.05 1.13e5



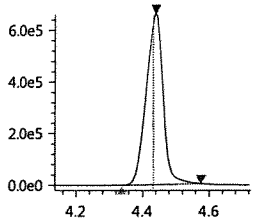
PFHpA
Conc 4.7945
RT 4.439 Area 2522700
Q 362.90>319.00 7.00e5



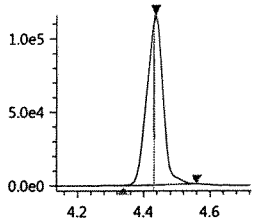
PFHpA-13C_IS
Conc 5.0000
RT 4.440 Area 2394891
ISTD 366.90>322.10 6.60e5



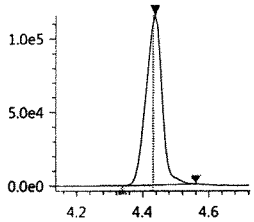
PFHpA-13C
Conc 3.1340
RT 4.440 Area 2394891
Q 366.90>322.10 6.60e5



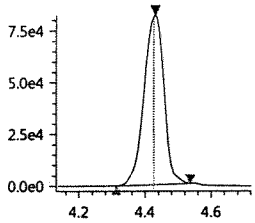
PFHxS-18O_IS
Conc 5.0000
RT 4.437 Area 391779
ISTD 402.70>84.05 1.16e5



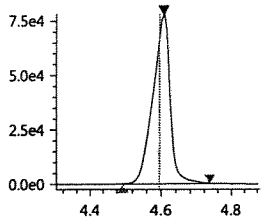
PFHxS-18O
Conc 3.4924
RT 4.437 Area 391779
Q 402.70>84.05 1.16e5



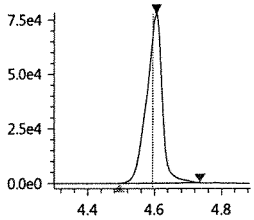
PFHxS_1
Conc 3.1544
RT 4.430 Area 342927
Q 399.00>80.00 8.25e4



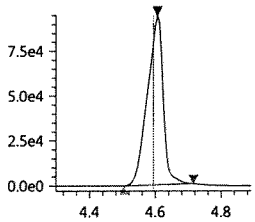
6_2-FTS-13C
Conc 3.4874
RT 4.606 Area 255858
Q 428.90>409.00 7.84e4



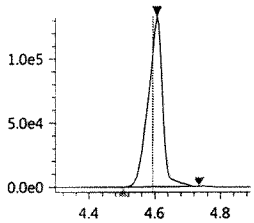
6_2-FTS-13C_IS
Conc 5.0000
RT 4.606 Area 255858
ISTD 428.90>409.00 7.84e4



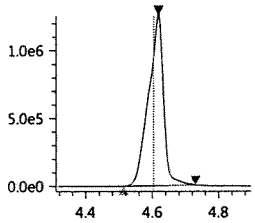
6_2-FTS_1
Conc 4.6244
RT 4.606 Area 311918
Q 427.00>407.00 9.53e4



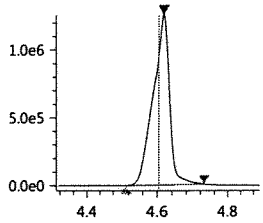
PFHpS_1
Conc 4.7296
RT 4.607 Area 403721
Q 449.00>80.15 1.34e5



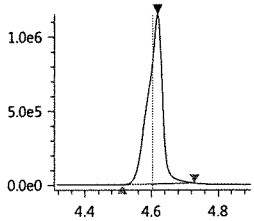
PFOA-13C_IS
Conc 5.0000
RT 4.618 Area 3883208
ISTD 416.80>372.05 1.26e6



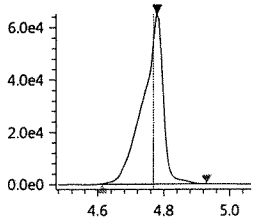
PFOA-13C
Conc 3.9575
RT 4.618 Area 3883208
Q 416.80>372.05 1.26e6



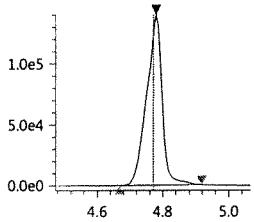
PFOA
Conc 3.6013
RT 4.619 Area 3535060
Q 413.00>369.00 1.15e6



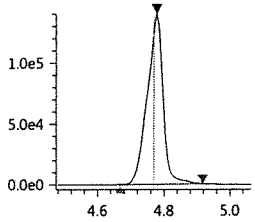
PFOS_1
Conc 3.6870
RT 4.780 Area 275084
Q 499.00>80.00 6.53e4



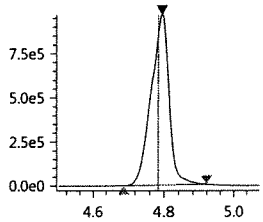
PFOS-13C_IS
Conc 5.0000
RT 4.780 Area 459994
ISTD 502.80>80.05 1.40e5



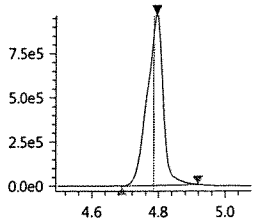
PFOS-13C
Conc 3.7563
RT 4.780 Area 459994
Q 502.80>80.05 1.40e5



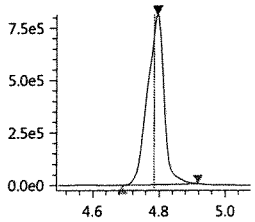
PFNA-13C_IS
Conc 5.0000
RT 4.795 Area 3317155
ISTD 467.80>423.00 9.68e5



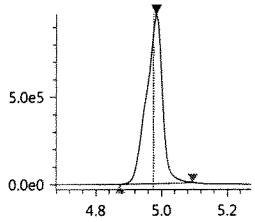
PFNA-13C
Conc 3.7667
RT 4.795 Area 3317155
Q 467.80>423.00 9.68e5



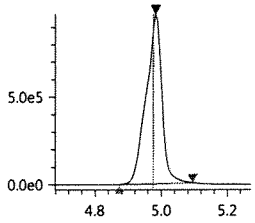
PFNA
Conc 3.8932
RT 4.796 Area 2845555
Q 463.00>418.90 8.15e5



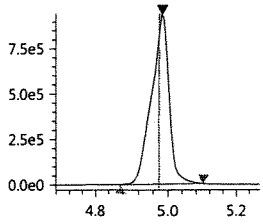
PFDA-13C_IS
Conc 5.0000
RT 4.984 Area 3210329
ISTD 514.80>469.95 9.78e5



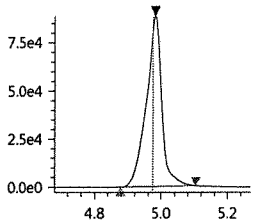
PFDA-13C
Conc 4.4149
RT 4.984 Area 3210329
Q 514.80>469.95 9.78e5



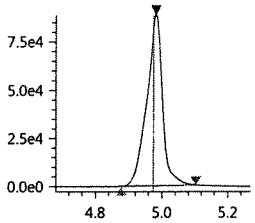
PFDA
Conc 3.5156
RT 4.985 Area 3090998
Q 513.00>468.80 9.45e5



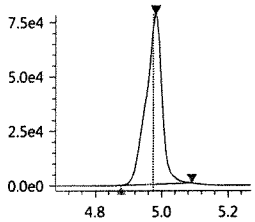
8_2-FTS-13C_IS
Conc 5.0000
RT 4.983 Area 293161
ISTD 528.80>509.00 8.87e4



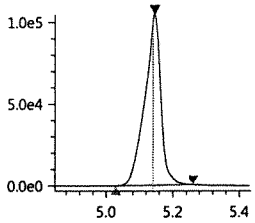
8_2-FTS-13C
Conc 4.4351
RT 4.983 Area 293161
Q 528.80>509.00 8.87e4



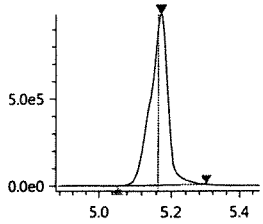
8_2-FTS_1
Conc 4.5518
RT 4.982 Area 257296
Q 526.90>506.90 7.86e4



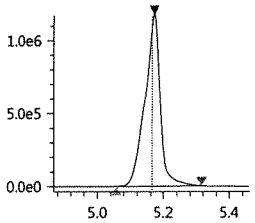
PFDS_1
Conc 3.9572
RT 5.146 Area 348410
Q 599.00>79.90 1.05e5



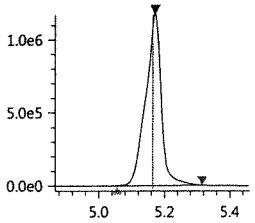
PFUnA
Conc 3.5882
RT 5.172 Area 3216091
Q 563.00>518.90 9.87e5



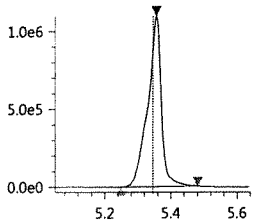
PFUnA-13C_IS
Conc 5.0000
RT 5.172 Area 3884649
ISTD 564.80>519.95 1.17e6



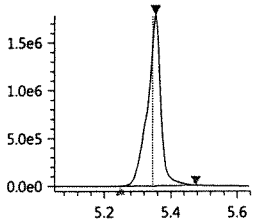
PFUnA-13C
Conc 4.4880
RT 5.172 Area 3884649
Q 564.80>519.95 1.17e6



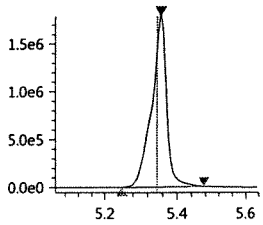
PFDoA
Conc 4.7983
RT 5.356 Area 3073164
Q 613.05>569.00 1.10e6



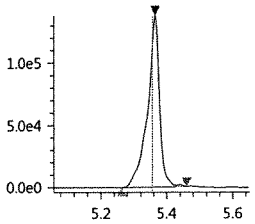
PFDoA-13C
Conc 4.4727
RT 5.356 Area 4903580
Q 614.80>569.95 1.79e6



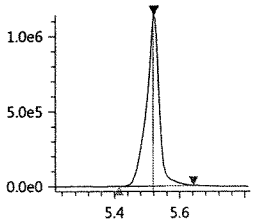
PFDoA-13C_IS
Conc 5.0000
RT 5.356 Area 4903580
ISTD 614.80>569.95 1.79e6



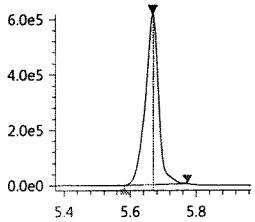
10_2-FtS_1
Conc 6.5323
RT 5.364 Area 362110
Q 627.00>606.95 1.38e5



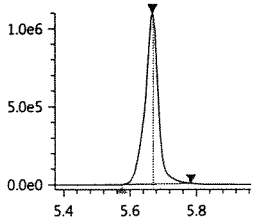
PFTrDA
Conc 5.0739
RT 5.521 Area 3076947
Q 663.00>618.90 1.14e6



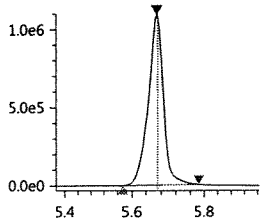
PFTeDA
Conc 5.1058
RT 5.668 Area 1684426
Q 713.40>669.00 6.20e5



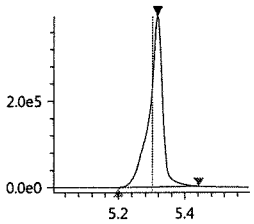
PFTeDA-13C
Conc 3.4379
RT 5.668 Area 3048077
Q 714.70>669.90 1.10e6



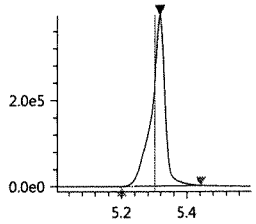
PFTeDA-13C_IS
Conc 5.0000
RT 5.668 Area 3048077
ISTD 714.70>669.90 1.10e6



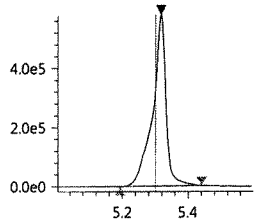
FOSA-13C_IS
Conc 5.0000
RT 5.317 Area 1118348
ISTD 506.00>78.05 3.97e5



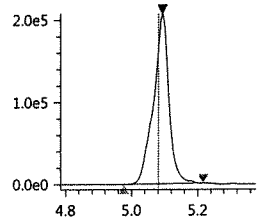
FOSA-13C
Conc 3.3616
RT 5.317 Area 1118348
Q 506.00>78.05 3.97e5



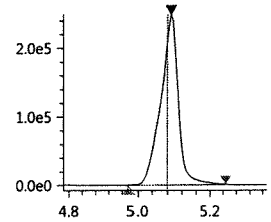
FOSA
Conc 4.7456
RT 5.318 Area 1630018
Q 498.00>78.00 5.80e5



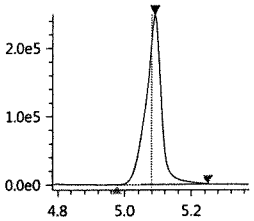
N-MeFOSAA
Conc 5.0690
RT 5.094 Area 667281
Q 570.20>419.00 2.08e5



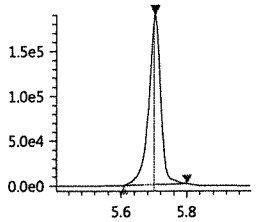
N-MeFOSAA-d3
Conc 3.8142
RT 5.090 Area 821772
Q 572.80>419.05 2.50e5



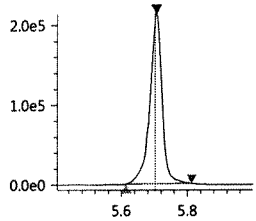
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.090 Area 821772
ISTD 572.80>419.05 2.50e5



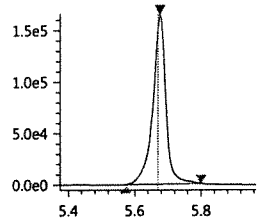
N-MeFOSA_IS
Conc 5.0000
RT 5.703 Area 482026
ISTD 514.90>168.90 1.90e5



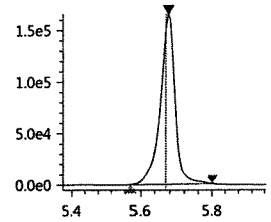
N-MeFOSA
Conc 5.0088
RT 5.706 Area 547940
Q 512.00>169.10 2.14e5



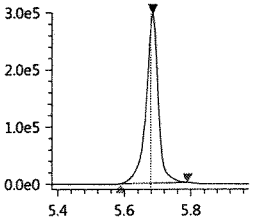
N-MeFOSE-d7
Conc 3.5631
RT 5.676 Area 450508
Q 622.70>59.10 1.66e5



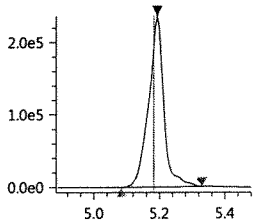
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.676 Area 450508
ISTD 622.70>59.10 1.66e5



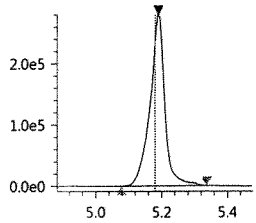
N-MeFOSE
Conc 4.9648
RT 5.685 Area 785945
Q 616.00>59.00 3.00e5



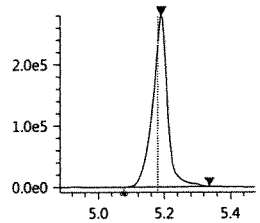
N-EtFOSAA
Conc 5.1779
RT 5.194 Area 761503
Q 584.20>418.95 2.37e5



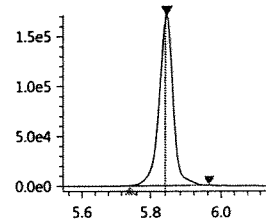
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.190 Area 871483
ISTD 588.80>419.00 2.80e5



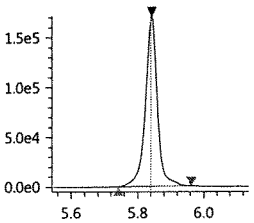
N-EtFOSAA-d5
Conc 4.4588
RT 5.190 Area 871483
Q 588.80>419.00 2.80e5



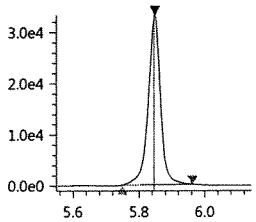
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.843 Area 451393
ISTD 530.90>169.15 1.72e5



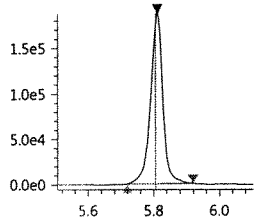
N-EtFOSA-d9
Conc 3.4649
RT 5.843 Area 451393
Q 530.90>169.15 1.72e5



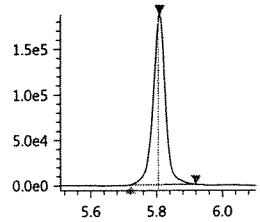
N-EtFOSA
Conc 5.2574
RT 5.848 Area 87755
Q 526.90>169.10 3.34e4



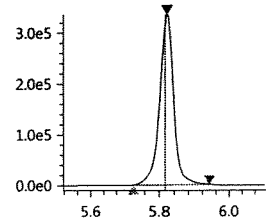
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.810 Area 492466
ISTD 638.70>59.10 1.88e5



N-EtFOSE-d9
Conc 3.2296
RT 5.810 Area 492466
Q 638.70>59.10 1.88e5



N-EtFOSE
Conc 5.7549
RT 5.821 Area 889396
Q 630.00>58.90 3.37e5



Insight Report

Befores

Printed at 7/25/2017 7:34:49 AM

072417_109

JT

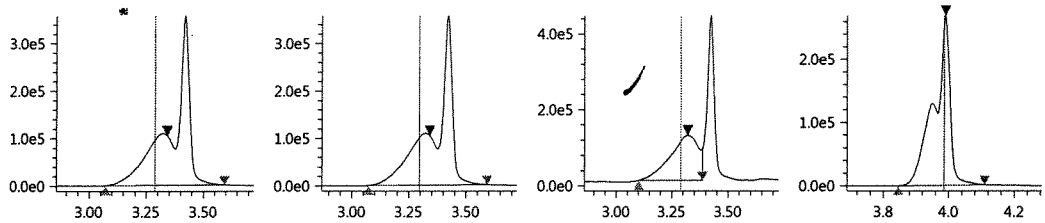
Sample ID: KQ1709896-03 LCS
Date acquired: 7/24/2017 4:13:40 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_109.lcd
Vial: 2 | Inj. Volume: 15.0000uL | Tray: 2

PFBA-13C_IS
Conc 5.0000
RT 3.342 Area 1907555
ISTD 216.90>172.15 3.59e5

PFBA-13C
Conc 3.5340
RT 3.342 Area 1907555
Q 216.90>172.15 3.59e5

PFBA
Conc 2.1056
RT 3.321 Area 1033785
Q 213.00>169.10 4.49e5

PFPeA-13C_IS
Conc 5.0000
RT 3.991 Area 903536
ISTD 267.90>223.00 2.70e5



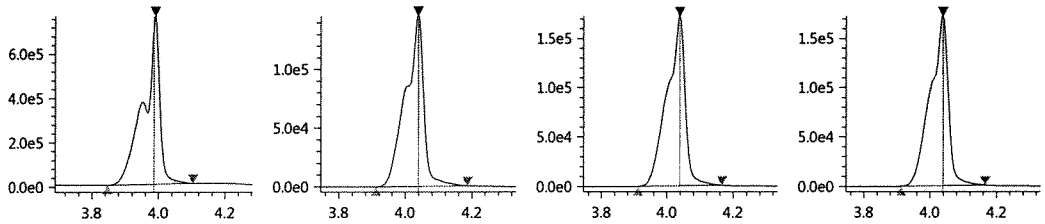
PFPeA-13C
Conc 3.3852
RT 3.991 Area 903536
Q 267.90>223.00 2.70e5

PFPeA
Conc 4.3382
RT 3.991 Area 2570082
Q 263.05>219.10 7.72e5

PFBS_1
Conc 5.0126
RT 4.038 Area 553050
Q 299.00>80.00 1.46e5

PFBS-13C
Conc 3.4576
RT 4.038 Area 651164
Q 301.80>80.00 1.73e5

PFBS-13C_IS
Conc 5.0000
RT 4.038 Area 651164
ISTD 301.80>80.00 1.73e5



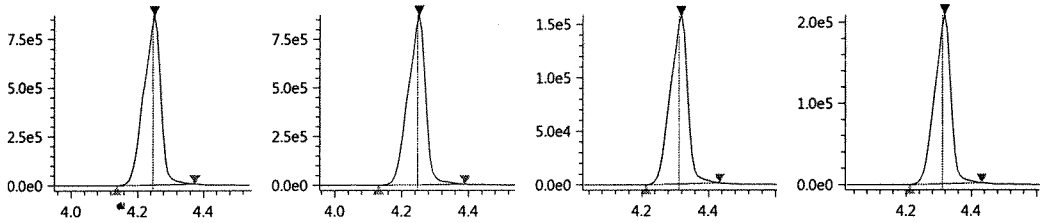
PFHxA-13C_IS
Conc 5.0000
RT 4.252 Area 3131516
ISTD 314.90>270.10 8.74e5

PFHxA-13C
Conc 4.1327
RT 4.252 Area 3131516
Q 314.90>270.10 8.74e5

PFHxA
Conc 5.1046
RT 4.251 Area 3155376
Q 313.00>269.00 8.76e5

HPFO_DA
Conc 4.1575
RT 4.318 Area 565363
Q 329.00>169.00 1.59e5

HFPO_DA-13C_IS
Conc 5.0000
RT 4.318 Area 714871
ISTD 332.00>286.80 2.09e5



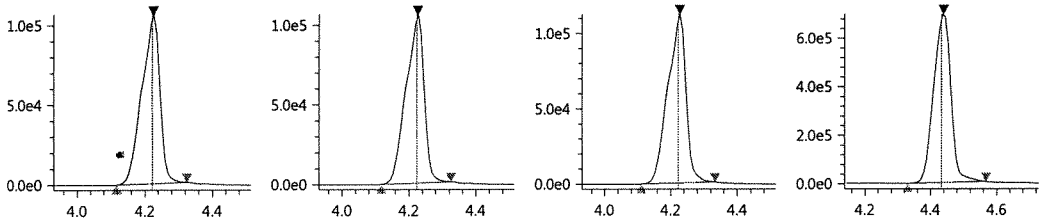
HFPO_DA-13C
Conc 3.8059
RT 4.318 Area 714871
Q 332.00>286.80 2.09e5

4_2-FTS-13C_IS
Conc 5.0000
RT 4.226 Area 395526
ISTD 328.80>309.05 1.07e5

4_2-FTS-13C
Conc 3.2310
RT 4.226 Area 395526
Q 328.80>309.05 1.07e5

4_2-FTS_1
Conc 4.2142
RT 4.227 Area 424525
Q 327.00>307.05 1.13e5

PFHpA
Conc 4.7945
RT 4.439 Area 2522700
Q 362.90>319.00 7.00e5



PFHpA-13C_IS
Conc 5.0000
RT 4.440 Area 2394891
ISTD 366.90>322.10 6.60e5

JUL 25 2017

Validation Report

Data File: J:\LCMS06\Data\072617_b2\072617_120
Lab ID: KQ1710166-01
RunType: LCS
Matrix: Water

Date Acquired: 7/26/17 12:32
Batch ID: 555050
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-6:2 FTS	185	70	130	Alternate-instrument
	13C2-8:2 FTS	169	70	130	

Primary Review: JT 7/27/17

Secondary Review: JUL 27 2017

Printed: 7/27/17 9:27
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072617_b2\072617_120	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 12:32	**Vial:**	4
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ1710166-01	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	555050	**Prep Lot:**	293672	**Report Group:**	KQ1710166
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	7/25/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.696	444033	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.411	2407368	4.8415	97	19 - 126	Y
13C2-PFHxA	4.243	3130546	4.4849	90	10 - 151	Y
18O2-PFHxS	4.431	421965	4.0833	82	20 - 128	Y
13C2-6:2 FTS	4.596	373895	5.5324	111	10 - 187	Y
13C4-PFOA	4.607	3891385	4.3052	86	13 - 142	Y
13C5-PFNA	4.786	3152876	3.8865	78	15 - 143	Y
13C4-PFOS	4.771	454366	4.0278	81	11 - 131	Y
13C2-PFDA	4.975	2996829	4.4739	89	25 - 129	Y
13C2-PFUnDA	5.163	3206630	4.0217	80	16 - 129	Y
13C2-PFDoDA	5.346	3962399	3.9235	78	17 - 114	Y
D7-MeFOSE	5.669	354746	3.0457	61	32 - 113	Y
D9-EtFOSE	5.803	380615	2.7096	54	20 - 113	Y
D5-EtFOSA	5.835	355751	2.9644	59	19 - 103	Y
13C2-8:2 FTS	4.973	394193	6.4738	129	50 - 150	Y
13C2-PFTeDA	5.664	2873510	3.5183	70	50 - 150	Y
13C4-PFHpA	4.433	2810268	3.9922	80	50 - 150	Y
13C5-PFPeA	3.981	1014099	4.1245	82	50 - 150	Y
13C3-PFBS	4.030	514077	2.9633	59	50 - 150	Y
13C8-FOSA	5.306	1044343	3.4077	68	50 - 150	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.412	2404282	3.8802	124		Y
Perfluoropentanoic acid (PFPeA)	3.981	2807848	4.2207	135		Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 9:27

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072617_b2\072617_120	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 12:32	**Vial:**	4
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ1710166-01	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.030	340510	3.9092	125		Y
Perfluorohexanoic acid (PFHxA)	4.243	2608524	4.2318	135		Y
Perfluoroheptanoic acid (PFHpA)	4.434	2830334	4.5841	147		Y
Perfluorohexane sulfonic acid (PFHxS)	4.430	327156	2.7940	89.4		Y
Perfluorooctanoic acid (PFOA)	4.607	4187356	4.2569	136		Y
Perfluoroheptane sulfonic acid (PFHpS)	4.597	289499	3.1488	101		Y
Perfluorononanoic acid (PFNA)	4.787	2727235	3.9257	126		Y
Perfluorooctane sulfonic acid (PFOS)	4.770	237420	3.2216	103		Y
Perfluorodecanoic acid (PFDA)	4.975	3137735	3.8230	122		Y
Perfluoroundecanoic acid (PFUnDA)	5.164	2759088	3.7292	119		Y
Perfluorooctane sulfonamide (FOSA)	5.306	1059630	3.3036	106		Y
Perfluorododecanoic acid (PFDoDA)	5.346	2086494	4.0316	129		Y
Perfluorotridecanoic acid (PFTrDA)	5.514	2579554	4.5121	144		Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.698	275071	3.1933	102		Y
N-Methyl perfluorooctane sulfonamidoethanol	5.677	473778	3.8008	122		Y
Perfluorotetradecanoic acid (PFTeDA)	5.663	1298583	4.1590	133		Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.814	548357	4.5909	147		Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.841	45375	3.4493	110		Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.972	276915	3.6433	117		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.596	343577	3.4857	112		Y
Perfluorodecane sulfonic acid (PFDS)	5.138	254975	2.9318	93.8		Y

Prep Amount:	125.0000 mL	**Dilution:**	1
Prep Final Amount:	4.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 9:27

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072617_120

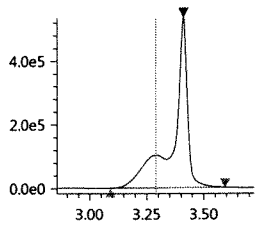
Sample ID: KQ1710166-01 LCS
Date acquired: 7/26/2017 12:32:47 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b2\072617_120.lcd
Vial: 11 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.411	2407368	2407368	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.411	2407368	444033	1	4.8415	ng/mL	----	----	Auto
PFBA	3.412	2404282	2407368	2	3.8802	ng/mL	----	----	M
PFPeA-13C_IS	3.981	1014099	1014099	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.981	1014099	444033	1	4.1245	ng/mL	----	----	Auto
PFPeA	3.981	2807848	1014099	4	4.2207	ng/mL	----	----	Auto
PFBS_1	4.030	340510	514077	16	3.9092	ng/mL	----	----	Auto
PFBS-13C	4.030	514077	444033	1	2.9633	ng/mL	----	----	Auto
PFBS-13C_IS	4.030	514077	514077	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.243	3130546	3130546	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.243	3130546	444033	1	4.4849	ng/mL	----	----	Auto
PFHxA	4.243	2608524	3130546	6	4.2318	ng/mL	----	----	Auto
HPFO_DA	4.309	391780	612215	3	3.3641	ng/mL	----	----	Auto
HFPO_DA-13C_IS	4.309	612215	612215	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.309	612215	444033	1	3.5383	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.216	437365	437365	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.216	437365	444033	1	3.8785	ng/mL	----	----	Auto
4_2-FTS_1	4.217	364235	437365	5	3.2698	ng/mL	----	----	Auto
PFHpA	4.434	2830334	2810268	8	4.5841	ng/mL	----	----	Auto
PFHpA-13C_IS	4.433	2810268	2810268	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.433	2810268	444033	1	3.9922	ng/mL	----	----	Auto
PFHxS-18O_IS	4.431	421965	421965	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.431	421965	444033	1	4.0833	ng/mL	----	----	Auto
PFHxS_1	4.430	327156	421965	7	2.7940	ng/mL	----	----	Auto
6_2-FTS-13C	4.596	373895	444033	1	5.5324	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.596	373895	373895	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.596	343577	373895	10	3.4857	ng/mL	----	----	Auto
PFHpS_1	4.597	289499	421965	7	3.1488	ng/mL	----	----	Auto
PFOA-13C_IS	4.607	3891385	3891385	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.607	3891385	444033	1	4.3052	ng/mL	----	----	Auto
PFOA	4.607	4187356	3891385	9	4.2569	ng/mL	----	----	Auto
PFOS_1	4.770	237420	454366	13	3.2216	ng/mL	----	----	Auto
PFOS-13C_IS	4.771	454366	454366	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.771	454366	444033	1	4.0278	ng/mL	----	----	Auto
PFNA-13C_IS	4.786	3152876	3152876	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.786	3152876	444033	1	3.8865	ng/mL	----	----	Auto
PFNA	4.787	2727235	3152876	11	3.9257	ng/mL	----	----	Auto
PFDA-13C_IS	4.975	2996829	2996829	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.975	2996829	444033	1	4.4739	ng/mL	----	----	Auto
PFDA	4.975	3137735	2996829	12	3.8230	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.973	394193	394193	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.973	394193	444033	1	6.4738	ng/mL	----	----	Auto
8_2-FTS_1	4.972	276915	394193	15	3.6433	ng/mL	----	----	Auto
PFDS_1	5.138	254975	454366	13	2.9318	ng/mL	----	----	Auto
PFUnA	5.164	2759088	3206630	14	3.7292	ng/mL	----	----	Auto
PFUnA-13C_IS	5.163	3206630	3206630	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.163	3206630	444033	1	4.0217	ng/mL	----	----	Auto
PFDoA	5.346	2086494	3962399	17	4.0316	ng/mL	----	----	Auto
PFDoA-13C	5.346	3962399	444033	1	3.9235	ng/mL	----	----	Auto
PFDoA-13C_IS	5.346	3962399	3962399	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	5.355	213942	394193	15	2.8702	ng/mL	----	----	Auto
PFTrDA	5.514	2579554	2873510	22	4.5121	ng/mL	----	----	Auto
PFTeDA	5.663	1298583	2873510	22	4.1590	ng/mL	----	----	Auto
PFTeDA-13C	5.664	2873510	444033	1	3.5183	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.664	2873510	2873510	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.306	1044343	1044343	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.306	1044343	444033	1	3.4077	ng/mL	----	----	Auto
FOSA	5.306	1059630	1044343	18	3.3036	ng/mL	----	----	Auto
N-MeFOSAA	5.083	480797	760065	19	3.9489	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.081	760065	444033	1	3.8296	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.081	760065	760065	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.696	444033	444033	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.698	275071	354746	20	3.1933	ng/mL	----	----	Auto
N-MeFOSE-d7	5.669	354746	444033	1	3.0457	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.669	354746	354746	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	5.677	473778	354746	20	3.8008	ng/mL	----	----	Auto
N-EtFOSAA	5.186	417910	687698	21	3.6010	ng/mL	----	----	Auto

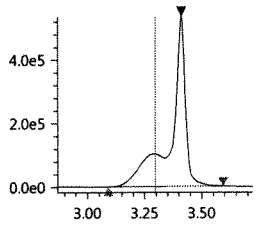
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.181	687698	687698	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.181	687698	444033	1	3.8195	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.835	355751	355751	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.835	355751	444033	1	2.9644	ng/mL	----	----	Auto
N-EtFOSA	5.841	45375	355751	23	3.4493	ng/mL	----	----	Auto
N-EtFOSE-d9_IS	5.803	380615	380615	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.803	380615	444033	1	2.7096	ng/mL	----	----	Auto
N-EtFOSE	5.814	548357	380615	24	4.5909	ng/mL	----	----	Auto

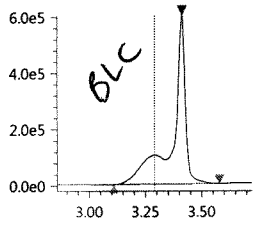
PFBA-13C_IS
Conc 5.0000
RT 3.411 Area 2407368
ISTD 216.90>172.15 5.37e5



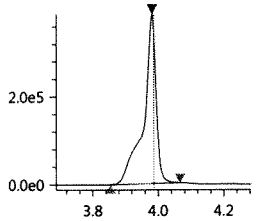
PFBA-13C
Conc 4.8415
RT 3.411 Area 2407368
Q 216.90>172.15 5.37e5



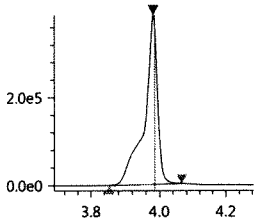
PFBA
Conc 3.8802
RT 3.412 Area 2404282
Q 213.00>169.10 6.07e5



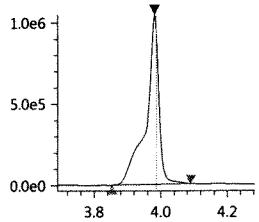
PFPeA-13C_IS
Conc 5.0000
RT 3.981 Area 1014099
ISTD 267.90>223.00 3.89e5



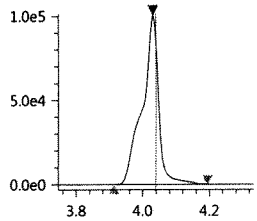
PFPeA-13C
Conc 4.1245
RT 3.981 Area 1014099
Q 267.90>223.00 3.89e5



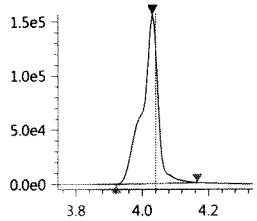
PFPeA
Conc 4.2207
RT 3.981 Area 2807848
Q 263.05>219.10 1.05e6



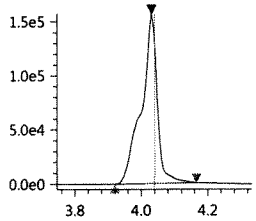
PFBS_1
Conc 3.9092
RT 4.030 Area 340510
Q 299.00>80.00 1.01e5



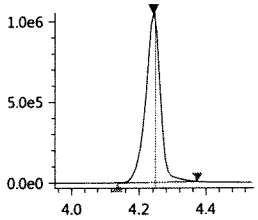
PFBS-13C
Conc 2.9633
RT 4.030 Area 514077
Q 301.80>80.00 1.58e5



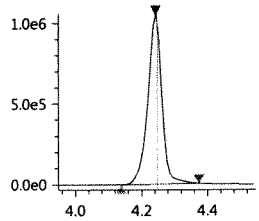
PFBS-13C_IS
Conc 5.0000
RT 4.030 Area 514077
ISTD 301.80>80.00 1.58e5



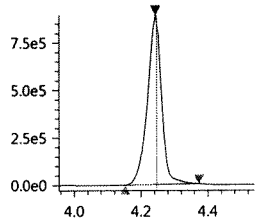
PFHxA-13C_IS
Conc 5.0000
RT 4.243 Area 3130546
ISTD 314.90>270.10 1.06e6



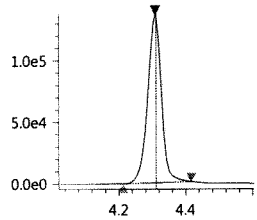
PFHxA-13C
Conc 4.4849
RT 4.243 Area 3130546
Q 314.90>270.10 1.06e6



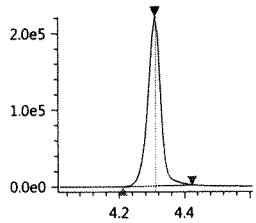
PFHxA
Conc 4.2318
RT 4.243 Area 2608524
Q 313.00>269.00 8.98e5



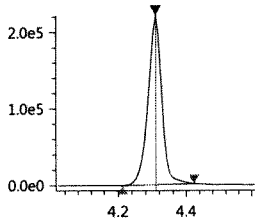
HPFO_DA
Conc 3.3641
RT 4.309 Area 391780
Q 329.00>169.00 1.38e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.309 Area 612215
ISTD 332.00>286.80 2.22e5

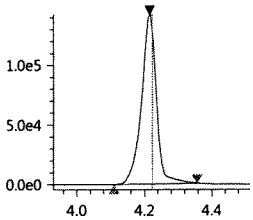


HFPO_DA-13C
Conc 3.5383
RT 4.309 Area 612215
Q 332.00>286.80 2.22e5

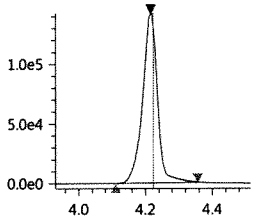


JUL 27 2017

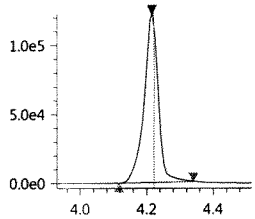
4_2-FTS-13C_IS
Conc 5.0000
RT 4.216 Area 437365
ISTD 328.80>309.05 1.43e5



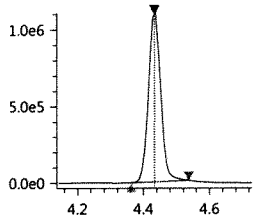
4_2-FTS-13C
Conc 3.8785
RT 4.216 Area 437365
Q 328.80>309.05 1.43e5



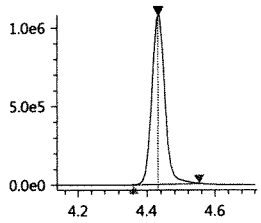
4_2-FTS_1
Conc 3.2698
RT 4.217 Area 364235
Q 327.00>307.05 1.23e5



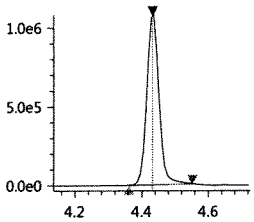
PFHpA
Conc 4.5841
RT 4.434 Area 2830334
Q 362.90>319.00 1.11e6



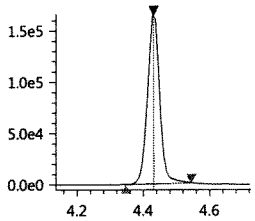
PFHpA-13C_IS
Conc 5.0000
RT 4.433 Area 2810268
ISTD 366.90>322.10 1.08e6



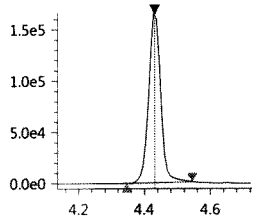
PFHpA-13C
Conc 3.9922
RT 4.433 Area 2810268
Q 366.90>322.10 1.08e6



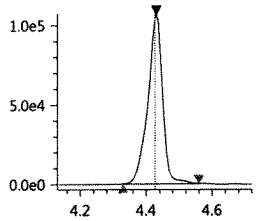
PFHxS-18O_IS
Conc 5.0000
RT 4.431 Area 421965
ISTD 402.70>84.05 1.66e5



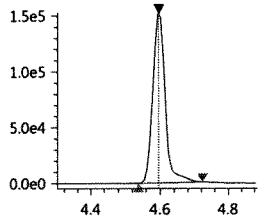
PFHxS-18O
Conc 4.0833
RT 4.431 Area 421965
Q 402.70>84.05 1.66e5



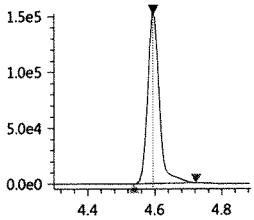
PFHxS_1
Conc 2.7940
RT 4.430 Area 327156
Q 399.00>80.00 1.07e5



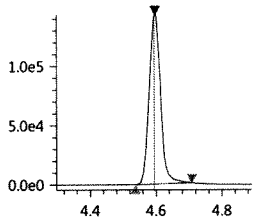
6_2-FTS-13C
Conc 5.5324
RT 4.596 Area 373895
Q 428.90>409.00 1.53e5



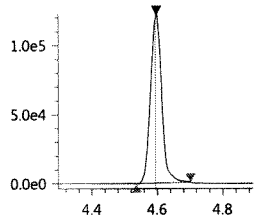
6_2-FTS-13C_IS
Conc 5.0000
RT 4.596 Area 373895
ISTD 428.90>409.00 1.53e5



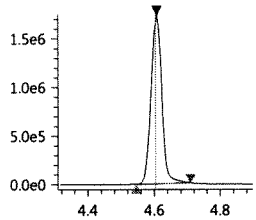
6_2-FTS_1
Conc 3.4857
RT 4.596 Area 343577
Q 427.00>407.00 1.44e5



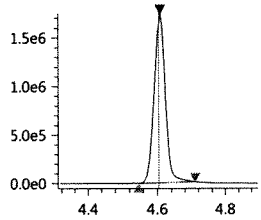
PFHpS_1
Conc 3.1488
RT 4.597 Area 289499
Q 449.00>80.15 1.23e5



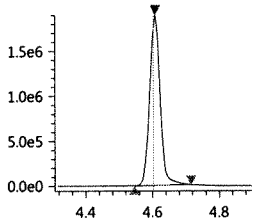
PFOA-13C_IS
Conc 5.0000
RT 4.607 Area 3891385
ISTD 416.80>372.05 1.75e6



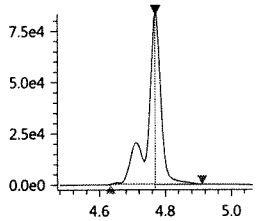
PFOA-13C
Conc 4.3052
RT 4.607 Area 3891385
Q 416.80>372.05 1.75e6



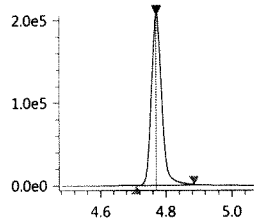
PFOA
Conc 4.2569
RT 4.607 Area 4187356
Q 413.00>369.00 1.90e6



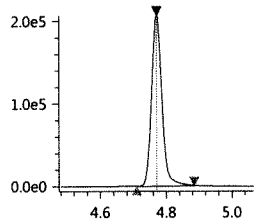
PFOS_1
Conc 3.2216
RT 4.770 Area 237420
Q 499.00>80.00 8.33e4



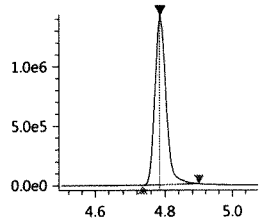
PFOS-13C_IS
Conc 5.0000
RT 4.771 Area 454366
ISTD 502.80>80.05 2.07e5



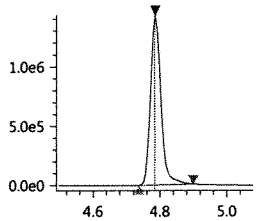
PFOS-13C
Conc 4.0278
RT 4.771 Area 454366
Q 502.80>80.05 2.07e5



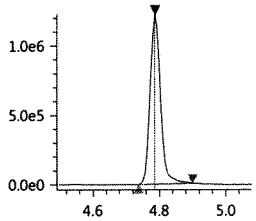
PFNA-13C_IS
Conc 5.0000
RT 4.786 Area 3152876
ISTD 467.80>423.00 1.44e6



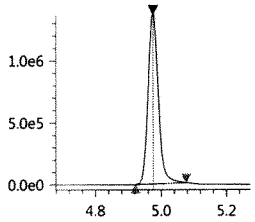
PFNA-13C
Conc 3.8865
RT 4.786 Area 3152876
Q 467.80>423.00 1.44e6



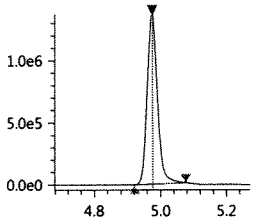
PFNA
Conc 3.9257
RT 4.787 Area 2727235
Q 463.00>418.90 1.23e6



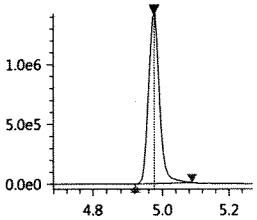
PFDA-13C_IS
Conc 5.0000
RT 4.975 Area 2996829
ISTD 514.80>469.95 1.38e6



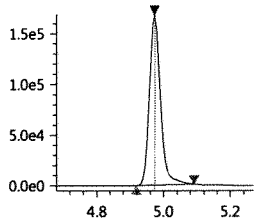
PFDA-13C
Conc 4.4739
RT 4.975 Area 2996829
Q 514.80>469.95 1.38e6



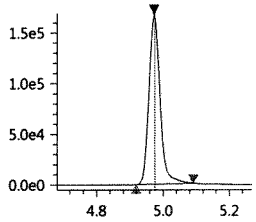
PFDA
Conc 3.8230
RT 4.975 Area 3137735
Q 513.00>468.80 1.43e6



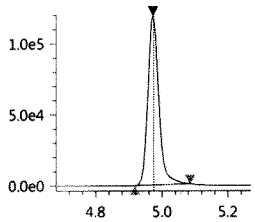
8_2-FTS-13C_IS
Conc 5.0000
RT 4.973 Area 394193
ISTD 528.80>509.00 1.69e5



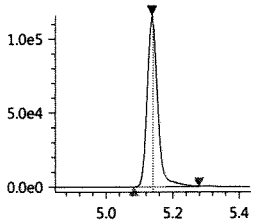
8_2-FTS-13C
Conc 6.4738
RT 4.973 Area 394193
Q 528.80>509.00 1.69e5



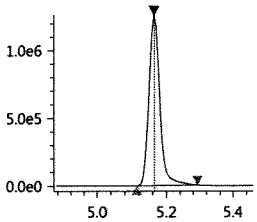
8_2-FTS_1
Conc 3.6433
RT 4.972 Area 276915
Q 526.90>506.90 1.21e5



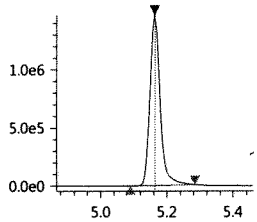
PFDS_1
Conc 2.9318
RT 5.138 Area 254975
Q 599.00>79.90 1.16e5



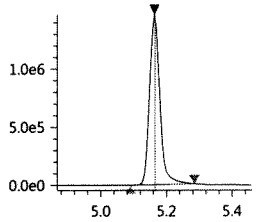
PFUnA
Conc 3.7292
RT 5.164 Area 2759088
Q 563.00>518.90 1.27e6



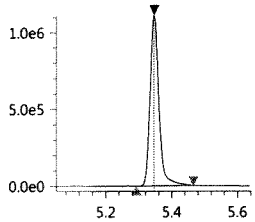
PFUnA-13C_IS
Conc 5.0000
RT 5.163 Area 3206630
ISTD 564.80>519.95 1.48e6



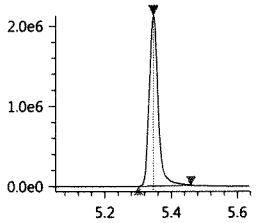
PFUnA-13C
Conc 4.0217
RT 5.163 Area 3206630
Q 564.80>519.95 1.48e6



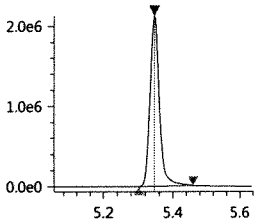
PFDoA
Conc 4.0316
RT 5.346 Area 2086494
Q 613.05>569.00 1.11e6



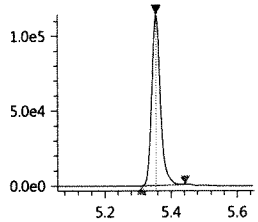
PFDoA-13C
Conc 3.9235
RT 5.346 Area 3962399
Q 614.80>569.95 2.14e6



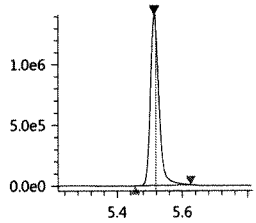
PFDoA-13C_IS
Conc 5.0000
RT 5.346 Area 3962399
ISTD 614.80>569.95 2.14e6



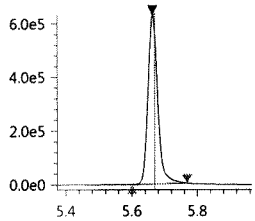
10_2-FtS_1
Conc 2.8702
RT 5.355 Area 213942
Q 627.00>606.95 1.15e5



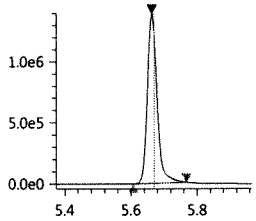
PFTrDA
Conc 4.5121
RT 5.514 Area 2579554
Q 663.00>618.90 1.41e6



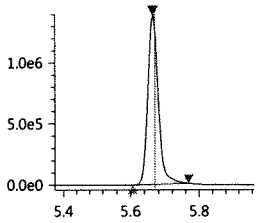
PFTeDA
Conc 4.1590
RT 5.663 Area 1298583
Q 713.40>669.00 6.38e5



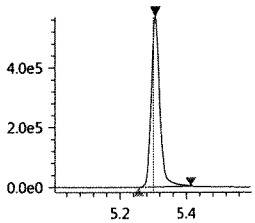
PFTeDA-13C
Conc 3.5183
RT 5.664 Area 2873510
Q 714.70>669.90 1.40e6



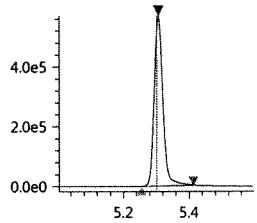
PFTeDA-13C_IS
Conc 5.0000
RT 5.664 Area 2873510
ISTD 714.70>669.90 1.40e6



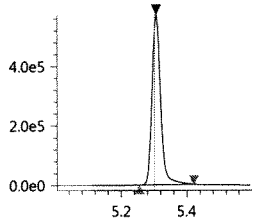
FOSA-13C_IS
Conc 5.0000
RT 5.306 Area 1044343
ISTD 506.00>78.05 5.70e5



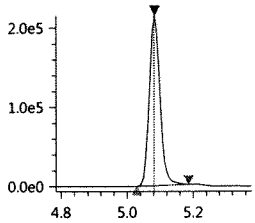
FOSA-13C
Conc 3.4077
RT 5.306 Area 1044343
Q 506.00>78.05 5.70e5



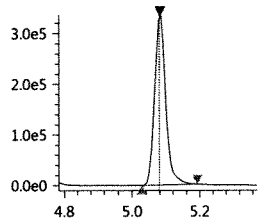
FOSA
Conc 3.3036
RT 5.306 Area 1059630
Q 498.00>78.00 5.73e5



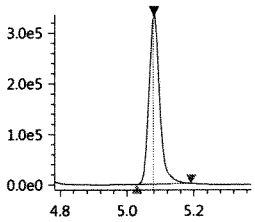
N-MeFOSAA
Conc 3.9489
RT 5.083 Area 480797
Q 570.20>419.00 2.16e5



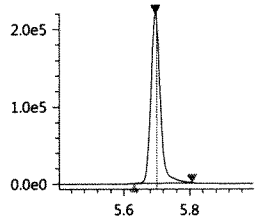
N-MeFOSAA-d3
Conc 3.8296
RT 5.081 Area 760065
Q 572.80>419.05 3.37e5



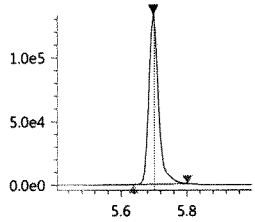
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.081 Area 760065
ISTD 572.80>419.05 3.37e5



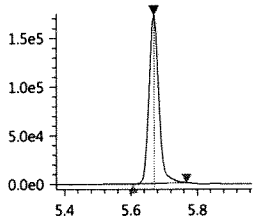
N-MeFOSA_IS
Conc 5.0000
RT 5.696 Area 444033
ISTD 514.90>168.90 2.21e5



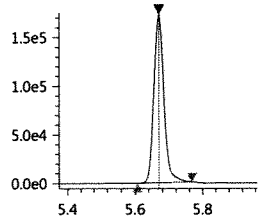
N-MeFOSA
Conc 3.1933
RT 5.698 Area 275071
Q 512.00>169.10 1.34e5



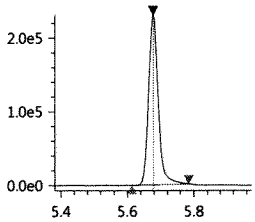
N-MeFOSE-d7
Conc 3.0457
RT 5.669 Area 354746
Q 622.70>59.10 1.75e5



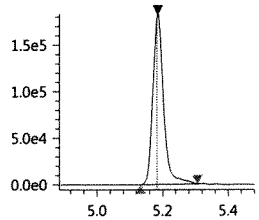
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.669 Area 354746
ISTD 622.70>59.10 1.75e5



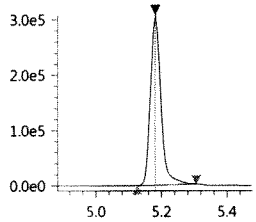
N-MeFOSE
Conc 3.8008
RT 5.677 Area 473778
Q 616.00>59.00 2.32e5



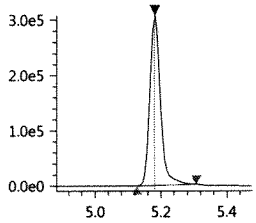
N-EtFOSAA
Conc 3.6010
RT 5.186 Area 417910
Q 584.20>418.95 1.83e5



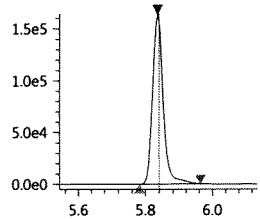
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.181 Area 687698
ISTD 588.80>419.00 3.09e5



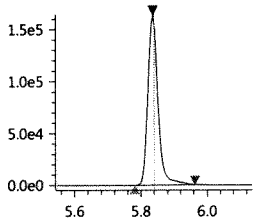
N-EtFOSAA-d5
Conc 3.8195
RT 5.181 Area 687698
Q 588.80>419.00 3.09e5



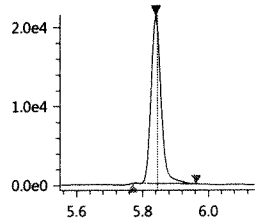
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.835 Area 355751
ISTD 530.90>169.15 1.65e5



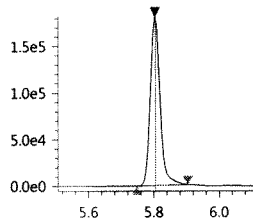
N-EtFOSA-d9
Conc 2.9644
RT 5.835 Area 355751
Q 530.90>169.15 1.65e5



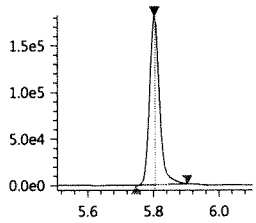
N-EtFOSA
Conc 3.4493
RT 5.841 Area 45375
Q 526.90>169.10 2.16e4



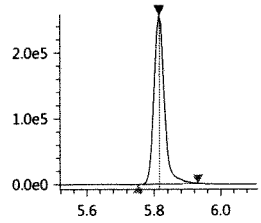
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.803 Area 380615
ISTD 638.70>59.10 1.83e5



N-EtFOSE-d9
Conc 2.7096
RT 5.803 Area 380615
Q 638.70>59.10 1.83e5



N-EtFOSE
Conc 4.5909
RT 5.814 Area 548357
Q 630.00>58.90 2.59e5

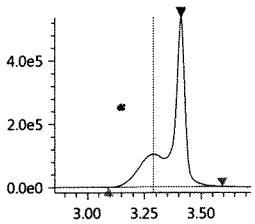


JT

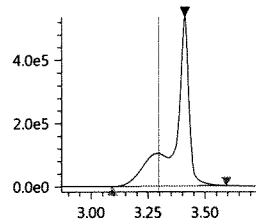
072617_120

Sample ID: KQ1710166-01 LCS
Date acquired: 7/26/2017 12:32:47 PM
Acquired by: SystemAdministrator
Data File: J:\LCMS06\Data\072617_b2\072617_120.lcd
Vial: 11 | Inj. Volume: 15.0000uL | Tray: 2

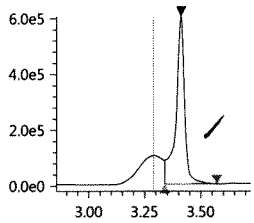
PFBA-13C_IS
Conc 5.0000
RT 3.411 Area 2407368
ISTD 216.90>172.15 5.37e5



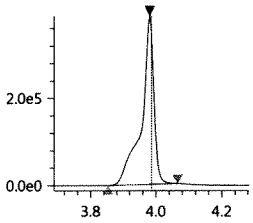
PFBA-13C
Conc 4.8415
RT 3.411 Area 2407368
Q 216.90>172.15 5.37e5



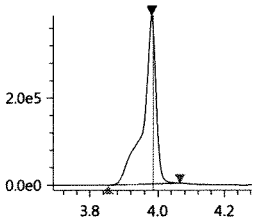
PFBA
Conc 2.6430
RT 3.412 Area 1637662
Q 213.00>169.10 6.07e5



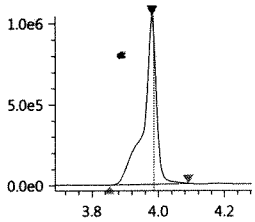
PFPeA-13C_IS
Conc 5.0000
RT 3.981 Area 1014099
ISTD 267.90>223.00 3.89e5



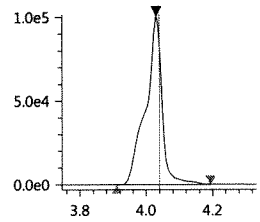
PFPeA-13C
Conc 4.1245
RT 3.981 Area 1014099
Q 267.90>223.00 3.89e5



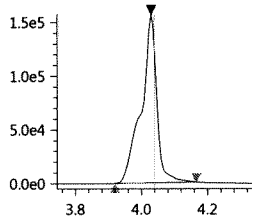
PFPeA
Conc 4.2207
RT 3.981 Area 2807848
Q 263.05>219.10 1.05e6



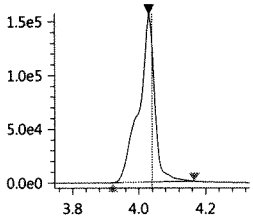
PFBS_1
Conc 3.9092
RT 4.030 Area 340510
Q 299.00>80.00 1.01e5



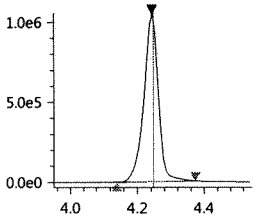
PFBS-13C
Conc 2.9633
RT 4.030 Area 514077
Q 301.80>80.00 1.58e5



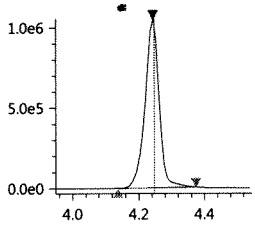
PFBS-13C_IS
Conc 5.0000
RT 4.030 Area 514077
ISTD 301.80>80.00 1.58e5



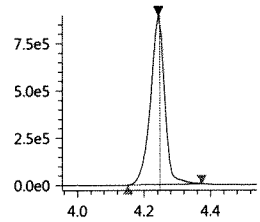
PFHxA-13C_IS
Conc 5.0000
RT 4.243 Area 3130546
ISTD 314.90>270.10 1.06e6



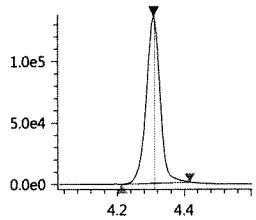
PFHxA-13C
Conc 4.4849
RT 4.243 Area 3130546
Q 314.90>270.10 1.06e6



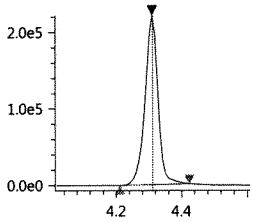
PFHxA
Conc 4.2318
RT 4.243 Area 2608524
Q 313.00>269.00 8.98e5



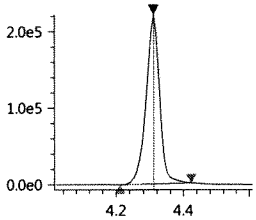
HPFO_DA
Conc 3.3641
RT 4.309 Area 391780
Q 329.00>169.00 1.38e5



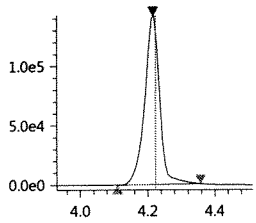
HFPO_DA-13C_IS
Conc 5.0000
RT 4.309 Area 612215
ISTD 332.00>286.80 2.22e5



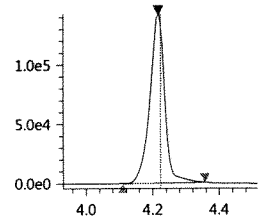
HFPO_DA-13C
Conc 3.5383
RT 4.309 Area 612215
Q 332.00>286.80 2.22e5



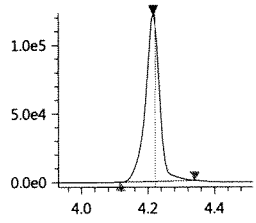
4_2-FTS-13C_IS
Conc 5.0000
RT 4.216 Area 437365
ISTD 328.80>309.05 1.43e5



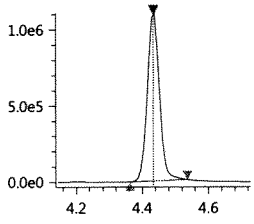
4_2-FTS-13C
Conc 3.8785
RT 4.216 Area 437365
Q 328.80>309.05 1.43e5



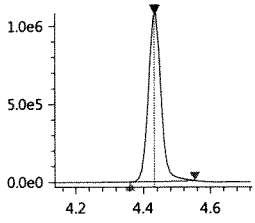
4_2-FTS_1
Conc 3.2698
RT 4.217 Area 364235
Q 327.00>307.05 1.23e5



PFHpA
Conc 4.5841
RT 4.434 Area 2830334
Q 362.90>319.00 1.11e6



PFHpA-13C_IS
Conc 5.0000
RT 4.433 Area 2810268
ISTD 366.90>322.10 1.08e6



JUL 27 2017

Validation Report

Data File: J:\LCMS06\Data\072717_b1\072717_121
Lab ID: KQ1710166-01
RunType: LCS
Matrix: Water

Date Acquired: 7/27/17 13:16
Batch ID: 555244
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: JT 7/28/17

Secondary Review: JUL 28 2017

Printed: 7/27/17 15:35
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072717_b1\072717_121	**Instrument:**	K-LCMS-06
Acqu Date:	7/27/17 13:16	**Vial:**	2
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ1710166-01	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	555244	**Prep Lot:**	293672	**Report Group:**	KQ1710166
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	7/25/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700133
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.695	421542	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.409	2393880	4.1922	84	19 - 126	N
13C2-PFHxA	4.240	3283115	4.3208	86	10 - 151	N
18O2-PFHxS	4.429	370013	3.5999	72	20 - 128	Y
13C2-6:2 FTS	4.594	331054	3.0122	60	10 - 187	Y
13C4-PFOA	4.604	3831334	4.3373	87	13 - 142	N
13C5-PFNA	4.785	3154123	3.8958	78	15 - 143	N
13C4-PFOS	4.769	435259	3.8727	77	11 - 131	Y
13C2-PFDA	4.975	2863639	4.1215	82	25 - 129	N
13C2-PFUnDA	5.164	2998384	3.8403	77	16 - 129	N
13C2-PFDoDA	5.348	3806651	3.9071	78	17 - 114	N
D7-MeFOSE	5.668	312440	3.7356	75	32 - 113	N
D9-EtFOSE	5.803	333783	3.3882	68	20 - 113	N
D5-EtFOSA	5.836	351648	3.0368	61	19 - 103	N
13C2-8:2 FTS	4.974	344425	3.3976	68	50 - 150	N
13C2-PFTeDA	5.665	2665760	3.4572	69	50 - 150	N
13C4-PFHpA	4.432	2928214	3.8000	76	50 - 150	N
13C5-PFPeA	3.977	1051652	3.7914	76	50 - 150	N
13C3-PFBS	4.026	660258	3.7787	76	50 - 150	N
13C8-FOSA	5.306	1028575	3.5078	70	50 - 150	N

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.409	2422381	4.0031	128		N
Perfluoropentanoic acid (PFPeA)	3.978	2843545	4.4233	142		N

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed: 7/28/17 9:48
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072717_b1\072717_121	**Instrument:**	K-LCMS-06
Acqu Date:	7/27/17 13:16	**Vial:**	2
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ1710166-01	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.026	416501	3.3180	106		N
Perfluorohexanoic acid (PFHxA)	4.240	2648086	3.9459	126		N
Perfluoroheptanoic acid (PFHpA)	4.432	3063569	4.9297	158		N
Perfluorohexane sulfonic acid (PFHxS)	4.429	328429	2.9692	95.0		Y
Perfluorooctanoic acid (PFOA)	4.605	3889863	3.7946	121		N
Perfluoroheptane sulfonic acid (PFHpS)	4.595	285196	3.9812	127		Y
Perfluorononanoic acid (PFNA)	4.785	2747333	4.1571	133		N
Perfluorooctane sulfonic acid (PFOS)	4.769	246151	3.5512	114		Y
Perfluorodecanoic acid (PFDA)	4.975	3056640	3.9398	126		N
Perfluoroundecanoic acid (PFUnDA)	5.164	2621623	3.8383	123		N
Perfluorooctane sulfonamide (FOSA)	5.306	1052430	3.5008	112		N
Perfluorododecanoic acid (PFDoDA)	5.348	1993550	3.8754	124		N
Perfluorotridecanoic acid (PFTrDA)	5.514	2431741	4.1705	133		N
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.698	261882	2.5643	82.1		N
N-Methyl perfluorooctane sulfonamidoethanol	5.677	457298	3.4646	111		N
Perfluorotetradecanoic acid (PFTeDA)	5.665	1227420	4.4722	143		N
N-Ethyl perfluorooctane sulfonamidoethanol	5.815	551296	4.0759	130		N
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.841	46268	3.4623	111		N
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.973	256976	3.6017	115		N
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.594	297305	3.5543	114		Y
Perfluorodecane sulfonic acid (PFDS)	5.139	259707	3.2511	104		Y

Prep Amount:	125.0000 mL	**Dilution:**	1
Prep Final Amount:	4.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/28/17 9:48

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072717_121

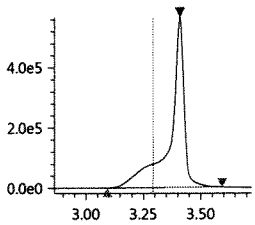
Sample ID: KQ1710166-01 VCS
Date acquired: 7/27/2017 1:16:57 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072717_b1\072717_121.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.409	2393880	2393880	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.409	2393880	421542	1	4.1922	ng/mL	----	----	Auto
PFBA	3.409	2422381	2393880	2	4.0031	ng/mL	----	----	Auto
PFPeA-13C_IS	3.977	1051652	1051652	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.977	1051652	421542	1	3.7914	ng/mL	----	----	Auto
PFPeA	3.978	2843545	1051652	4	4.4233	ng/mL	----	----	Auto
PFBS_1	4.026	416501	660258	16	3.3180	ng/mL	----	----	Auto
PFBS-13C	4.026	660258	421542	1	3.7787	ng/mL	----	----	Auto
PFBS-13C_IS	4.026	660258	660258	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.240	3283115	3283115	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.240	3283115	421542	1	4.3208	ng/mL	----	----	Auto
PFHxA	4.240	2648086	3283115	6	3.9459	ng/mL	----	----	Auto
HPFO_DA	4.306	439648	592742	3	3.6802	ng/mL	----	----	Auto
HFPO_DA-13C_IS	4.306	592742	592742	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.306	592742	421542	1	3.5095	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.214	581299	581299	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.214	581299	421542	1	3.2967	ng/mL	----	----	Auto
4_2-FTS_1	4.214	482295	581299	5	3.2051	ng/mL	----	----	Auto
PFHpA	4.432	3063569	2928214	8	4.9297	ng/mL	----	----	Auto
PFHpA-13C_IS	4.432	2928214	2928214	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.432	2928214	421542	1	3.8000	ng/mL	----	----	Auto
PFHxS-18O_IS	4.429	370013	370013	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.429	370013	421542	1	3.5999	ng/mL	----	----	Auto
PFHxS_1	4.429	328429	370013	7	2.9692	ng/mL	----	----	Auto
6_2-FTS-13C	4.594	331054	421542	1	3.0122	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.594	331054	331054	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.594	297305	331054	10	3.5543	ng/mL	----	----	Auto
PFHpS_1	4.595	285196	370013	7	3.9812	ng/mL	----	----	Auto
PFOA-13C_IS	4.604	3831334	3831334	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.604	3831334	421542	1	4.3373	ng/mL	----	----	Auto
PFOA	4.605	3889863	3831334	9	3.7946	ng/mL	----	----	Auto
PFOS_1	4.769	246151	435259	13	3.5512	ng/mL	----	----	Auto
PFOS-13C_IS	4.769	435259	435259	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.769	435259	421542	1	3.8727	ng/mL	----	----	Auto
PFNA-13C_IS	4.785	3154123	3154123	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.785	3154123	421542	1	3.8958	ng/mL	----	----	Auto
PFNA	4.785	2747333	3154123	11	4.1571	ng/mL	----	----	Auto
PFDA-13C_IS	4.975	2863639	2863639	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.975	2863639	421542	1	4.1215	ng/mL	----	----	Auto
PFDA	4.975	3056640	2863639	12	3.9398	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.974	344425	344425	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.974	344425	421542	1	3.3976	ng/mL	----	----	Auto
8_2-FTS_1	4.973	256976	344425	15	3.6017	ng/mL	----	----	Auto
PFDS_1	5.139	259707	435259	13	3.2511	ng/mL	----	----	Auto
PFUnA	5.164	2621623	2998384	14	3.8383	ng/mL	----	----	Auto
PFUnA-13C_IS	5.164	2998384	2998384	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.164	2998384	421542	1	3.8403	ng/mL	----	----	Auto
PFDoA	5.348	1993550	3806651	17	3.8754	ng/mL	----	----	Auto
PFDoA-13C	5.348	3806651	421542	1	3.9071	ng/mL	----	----	Auto
PFDoA-13C_IS	5.348	3806651	3806651	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	5.355	217185	344425	15	4.0982	ng/mL	----	----	Auto
PFTrDA	5.514	2431741	2665760	22	4.1705	ng/mL	----	----	Auto
PFTeDA	5.665	1227420	2665760	22	4.4722	ng/mL	----	----	Auto
PFTeDA-13C	5.665	2665760	421542	1	3.4572	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.665	2665760	2665760	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.306	1028575	1028575	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.306	1028575	421542	1	3.5078	ng/mL	----	----	Auto
FOSA	5.306	1052430	1028575	18	3.5008	ng/mL	----	----	Auto
N-MeFOSAA	5.085	443644	752090	19	3.7567	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.082	752090	421542	1	3.6581	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.082	752090	752090	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.695	421542	421542	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.698	261882	312440	20	2.5643	ng/mL	----	----	Auto
N-MeFOSE-d7	5.668	312440	421542	1	3.7356	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.668	312440	312440	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	5.677	457298	312440	20	3.4646	ng/mL	----	----	Auto
N-EtFOSAA	5.186	434653	705649	21	3.4777	ng/mL	----	----	Auto

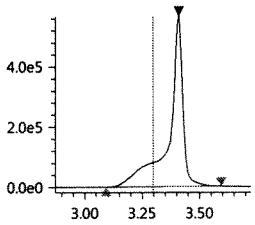
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.182	705649	705649	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.182	705649	421542	1	3.9249	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.836	351648	351648	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.836	351648	421542	1	3.0368	ng/mL	----	----	Auto
N-EtFOSA	5.841	46268	351648	23	3.4623	ng/mL	----	----	Auto
N-EtFOSE-d9_IS	5.803	333783	333783	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.803	333783	421542	1	3.3882	ng/mL	----	----	Auto
N-EtFOSE	5.815	551296	333783	24	4.0759	ng/mL	----	----	Auto

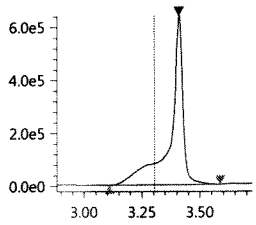
PFBA-13C_IS
Conc 5.0000
RT 3.409 Area 2393880
ISTD 216.90>172.15 5.68e5



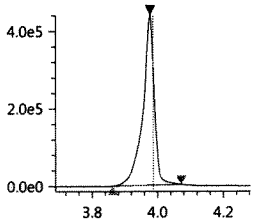
PFBA-13C
Conc 4.1922
RT 3.409 Area 2393880
Q 216.90>172.15 5.68e5



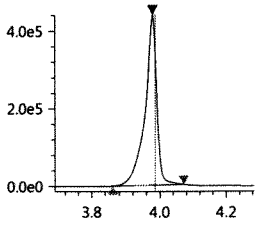
PFBA
Conc 4.0031
RT 3.409 Area 2422381
Q 213.00>169.10 6.46e5



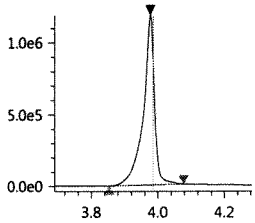
PFPeA-13C_IS
Conc 5.0000
RT 3.977 Area 1051652
ISTD 267.90>223.00 4.42e5



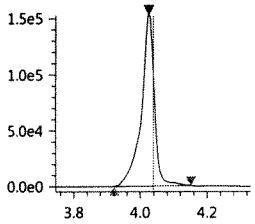
PFPeA-13C
Conc 3.7914
RT 3.977 Area 1051652
Q 267.90>223.00 4.42e5



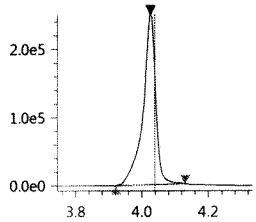
PFPeA
Conc 4.4233
RT 3.978 Area 2843545
Q 263.05>219.10 1.19e6



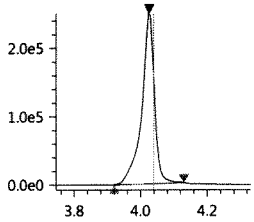
PFBS_1
Conc 3.3180
RT 4.026 Area 416501
Q 299.00>80.00 1.53e5



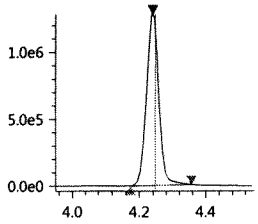
PFBS-13C
Conc 3.7787
RT 4.026 Area 660258
Q 301.80>80.00 2.51e5



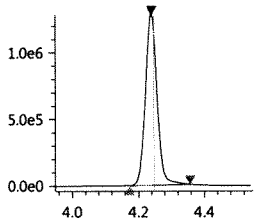
PFBS-13C_IS
Conc 5.0000
RT 4.026 Area 660258
ISTD 301.80>80.00 2.51e5



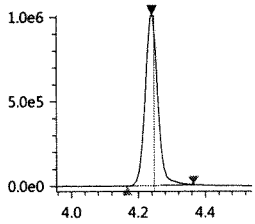
PFHxA-13C_IS
Conc 5.0000
RT 4.240 Area 3283115
ISTD 314.90>270.10 1.28e6



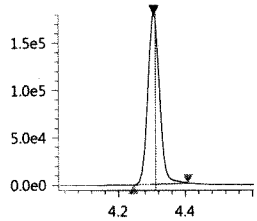
PFHxA-13C
Conc 4.3208
RT 4.240 Area 3283115
Q 314.90>270.10 1.28e6



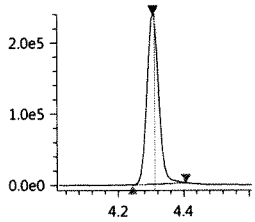
PFHxA
Conc 3.9459
RT 4.240 Area 2648086
Q 313.00>269.00 1.01e6



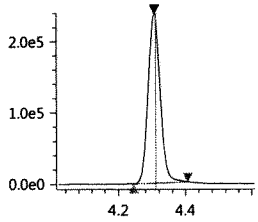
HPFO_DA
Conc 3.6802
RT 4.306 Area 439648
Q 329.00>169.00 1.81e5



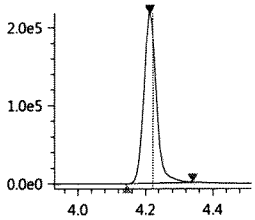
HFPO_DA-13C_IS
Conc 5.0000
RT 4.306 Area 592742
ISTD 332.00>286.80 2.40e5



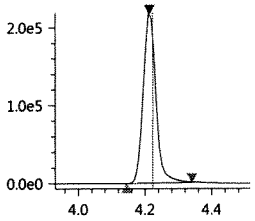
HFPO_DA-13C
Conc 3.5095
RT 4.306 Area 592742
Q 332.00>286.80 2.40e5



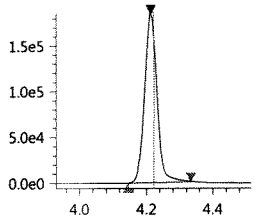
4_2-FTS-13C_IS
Conc 5.0000
RT 4.214 Area 581299
ISTD 328.80>309.05 2.19e5



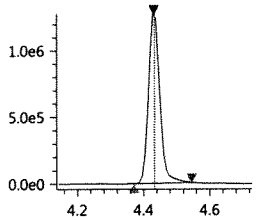
4_2-FTS-13C
Conc 3.2967
RT 4.214 Area 581299
Q 328.80>309.05 2.19e5



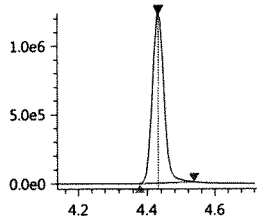
4_2-FTS_1
Conc 3.2051
RT 4.214 Area 482295
Q 327.00>307.05 1.87e5



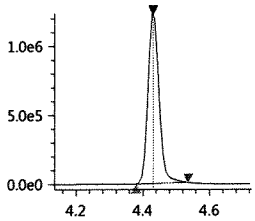
PFHpA
Conc 4.9297
RT 4.432 Area 3063569
Q 362.90>319.00 1.28e6



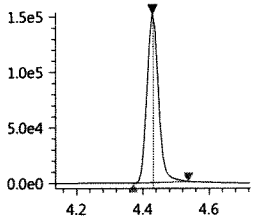
PFHpA-13C_IS
Conc 5.0000
RT 4.432 Area 2928214
ISTD 366.90>322.10 1.24e6



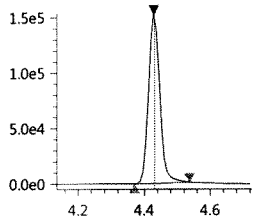
PFHpA-13C
Conc 3.8000
RT 4.432 Area 2928214
Q 366.90>322.10 1.24e6



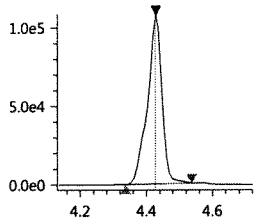
PFHxS-18O_IS
Conc 5.0000
RT 4.429 Area 370013
ISTD 402.70>84.05 1.54e5



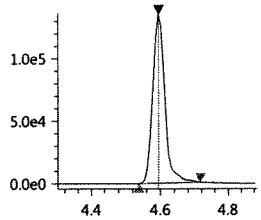
PFHxS-18O
Conc 3.5999
RT 4.429 Area 370013
Q 402.70>84.05 1.54e5



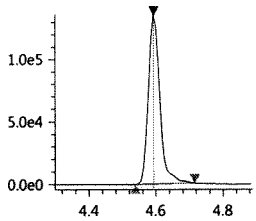
PFHxS_1
Conc 2.9692
RT 4.429 Area 328429
Q 399.00>80.00 1.09e5



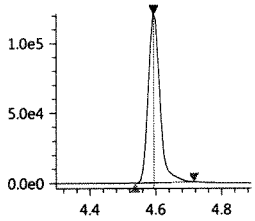
6_2-FTS-13C
Conc 3.0122
RT 4.594 Area 331054
Q 428.90>409.00 1.37e5



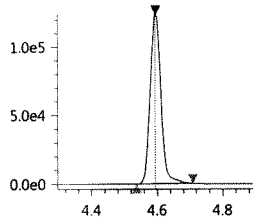
6_2-FTS-13C_IS
Conc 5.0000
RT 4.594 Area 331054
ISTD 428.90>409.00 1.37e5



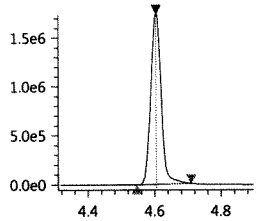
6_2-FTS_1
Conc 3.5543
RT 4.594 Area 297305
Q 427.00>407.00 1.22e5



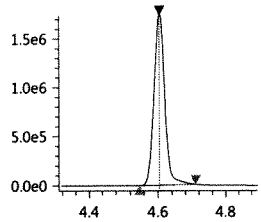
PFHpS_1
Conc 3.9812
RT 4.595 Area 285196
Q 449.00>80.15 1.24e5



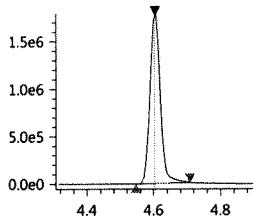
PFOA-13C_IS
Conc 5.0000
RT 4.604 Area 3831334
ISTD 416.80>372.05 1.74e6



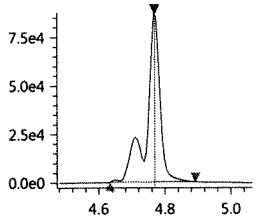
PFOA-13C
Conc 4.3373
RT 4.604 Area 3831334
Q 416.80>372.05 1.74e6



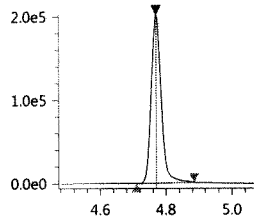
PFOA
Conc 3.7946
RT 4.605 Area 3889863
Q 413.00>369.00 1.79e6



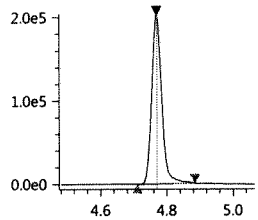
PFOS_1
Conc 3.5512
RT 4.769 Area 246151
Q 499.00>80.00 8.78e4



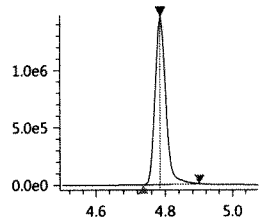
PFOS-13C_IS
Conc 5.0000
RT 4.769 Area 435259
ISTD 502.80>80.05 2.04e5



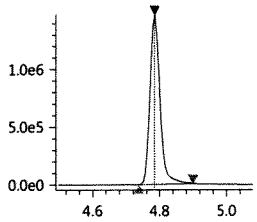
PFOS-13C
Conc 3.8727
RT 4.769 Area 435259
Q 502.80>80.05 2.04e5



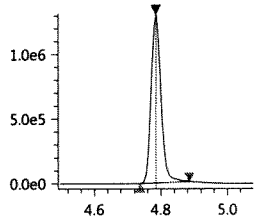
PFNA-13C_IS
Conc 5.0000
RT 4.785 Area 3154123
ISTD 467.80>423.00 1.48e6



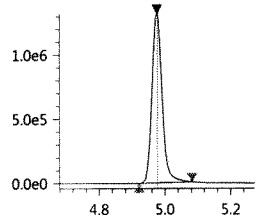
PFNA-13C
Conc 3.8958
RT 4.785 Area 3154123
Q 467.80>423.00 1.48e6



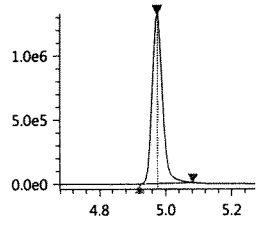
PFNA
Conc 4.1571
RT 4.785 Area 2747333
Q 463.00>418.90 1.32e6



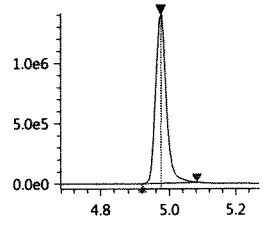
PFDA-13C_IS
Conc 5.0000
RT 4.975 Area 2863639
ISTD 514.80>469.95 1.33e6



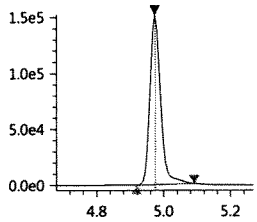
PFDA-13C
Conc 4.1215
RT 4.975 Area 2863639
Q 514.80>469.95 1.33e6



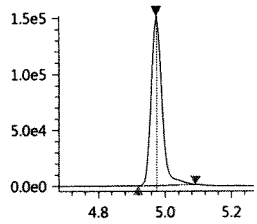
PFDA
Conc 3.9398
RT 4.975 Area 3056640
Q 513.00>468.80 1.42e6



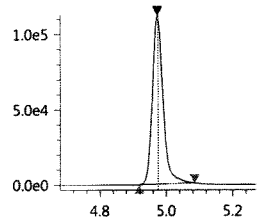
8_2-FTS-13C_IS
Conc 5.0000
RT 4.974 Area 344425
ISTD 528.80>509.00 1.52e5



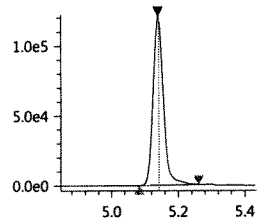
8_2-FTS-13C
Conc 3.3976
RT 4.974 Area 344425
Q 528.80>509.00 1.52e5



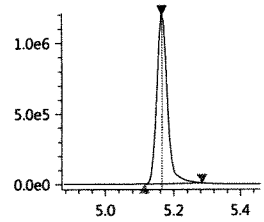
8_2-FTS_1
Conc 3.6017
RT 4.973 Area 256976
Q 526.90>506.90 1.13e5



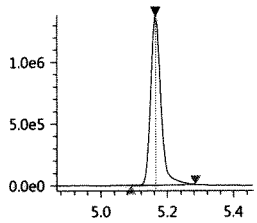
PFDS_1
Conc 3.2511
RT 5.139 Area 259707
Q 599.00>79.90 1.22e5



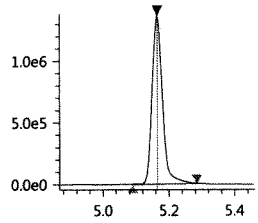
PFUnA
Conc 3.8383
RT 5.164 Area 2621623
Q 563.00>518.90 1.21e6



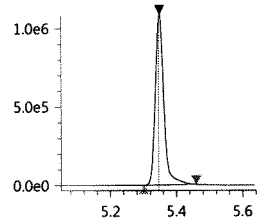
PFUnA-13C_IS
Conc 5.0000
RT 5.164 Area 2998384
ISTD 564.80>519.95 1.39e6



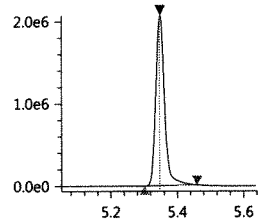
PFUnA-13C
Conc 3.8403
RT 5.164 Area 2998384
Q 564.80>519.95 1.39e6



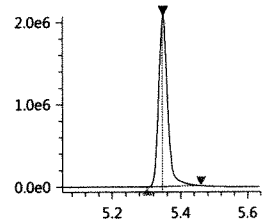
PFDoA
Conc 3.8754
RT 5.348 Area 1993550
Q 613.05>569.00 1.09e6



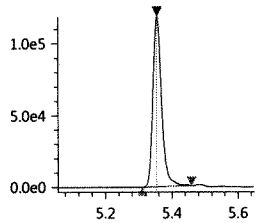
PFDoA-13C
Conc 3.9071
RT 5.348 Area 3806651
Q 614.80>569.95 2.08e6



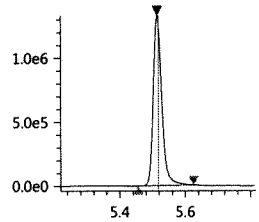
PFDoA-13C_IS
Conc 5.0000
RT 5.348 Area 3806651
ISTD 614.80>569.95 2.08e6



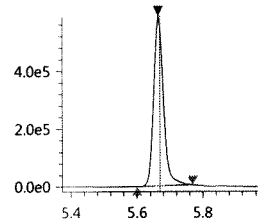
10_2-FtS_1
Conc 4.0982
RT 5.355 Area 217185
Q 627.00>606.95 1.19e5



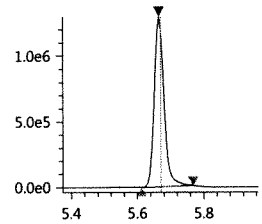
PFTrDA
Conc 4.1705
RT 5.514 Area 2431741
Q 663.00>618.90 1.33e6



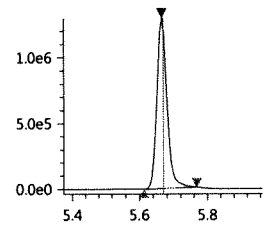
PFTeDA
Conc 4.4722
RT 5.665 Area 1227420
Q 713.40>669.00 5.90e5



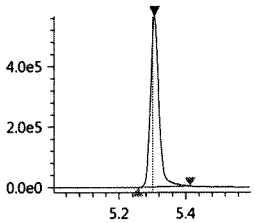
PFTeDA-13C
Conc 3.4572
RT 5.665 Area 2665760
Q 714.70>669.90 1.30e6



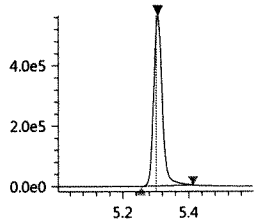
PFTeDA-13C_IS
Conc 5.0000
RT 5.665 Area 2665760
ISTD 714.70>669.90 1.30e6



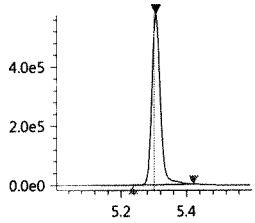
FOSA-13C_IS
Conc 5.0000
RT 5.306 Area 1028575
ISTD 506.00>78.05 5.66e5



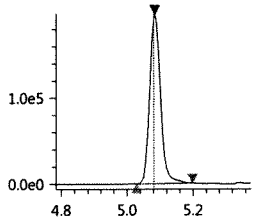
FOSA-13C
Conc 3.5078
RT 5.306 Area 1028575
Q 506.00>78.05 5.66e5



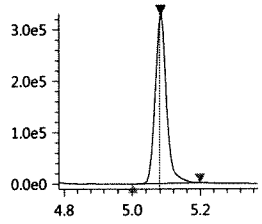
FOSA
Conc 3.5008
RT 5.306 Area 1052430
Q 498.00>78.00 5.78e5



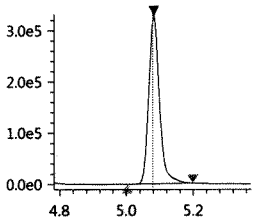
N-MeFOSAA
Conc 3.7567
RT 5.085 Area 443644
Q 570.20>419.00 1.99e5



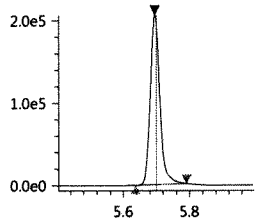
N-MeFOSAA-d3
Conc 3.6581
RT 5.082 Area 752090
Q 572.80>419.05 3.32e5



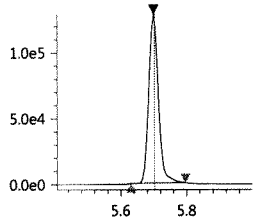
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.082 Area 752090
ISTD 572.80>419.05 3.32e5



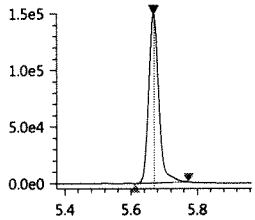
N-MeFOSA_IS
Conc 5.0000
RT 5.695 Area 421542
ISTD 514.90>168.90 2.06e5



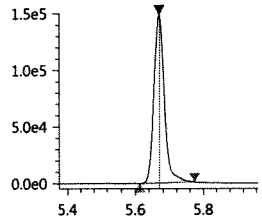
N-MeFOSA
Conc 2.5643
RT 5.698 Area 261882
Q 512.00>169.10 1.29e5



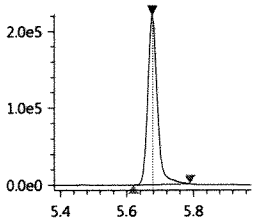
N-MeFOSE-d7
Conc 3.7356
RT 5.668 Area 312440
Q 622.70>59.10 1.50e5



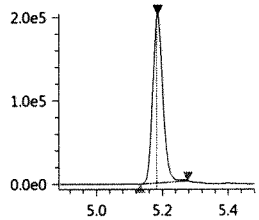
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.668 Area 312440
ISTD 622.70>59.10 1.50e5



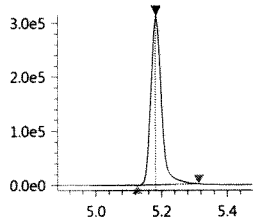
N-MeFOSE
Conc 3.4646
RT 5.677 Area 457298
Q 616.00>59.00 2.23e5



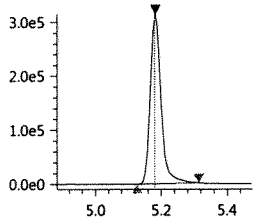
N-EtFOSAA
Conc 3.4777
RT 5.186 Area 434653
Q 584.20>418.95 2.05e5



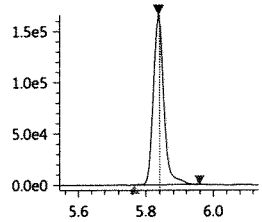
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.182 Area 705649
ISTD 588.80>419.00 3.16e5



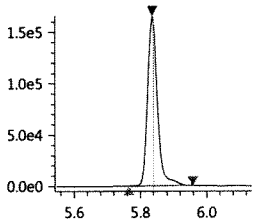
N-EtFOSAA-d5
Conc 3.9249
RT 5.182 Area 705649
Q 588.80>419.00 3.16e5



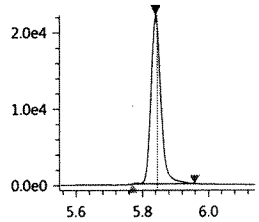
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.836 Area 351648
ISTD 530.90>169.15 1.66e5



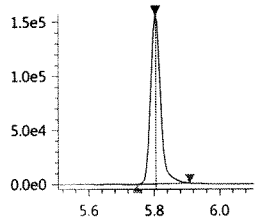
N-EtFOSA-d9
Conc 3.0368
RT 5.836 Area 351648
Q 530.90>169.15 1.66e5



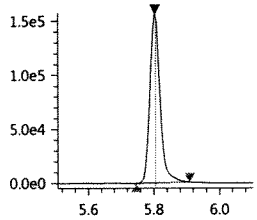
N-EtFOSA
Conc 3.4623
RT 5.841 Area 46268
Q 526.90>169.10 2.23e4



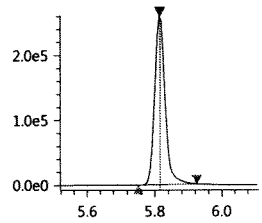
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.803 Area 333783
ISTD 638.70>59.10 1.57e5



N-EtFOSE-d9
Conc 3.3882
RT 5.803 Area 333783
Q 638.70>59.10 1.57e5



N-EtFOSE
Conc 4.0759
RT 5.815 Area 551296
Q 630.00>58.90 2.62e5



Validation Report

Data File: J:\LCMS06\Data\072817_b1\072817_121
Lab ID: KQ1710166-01
RunType: LCS
Matrix: Water

Date Acquired: 7/28/17 12:18
Batch ID: 555465
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
Surrogates	X	

Primary Review: JT 7/28/17

Secondary Review: JUL 2 8 2017

Printed: 7/28/17 14:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072817_b1\072817_121	**Instrument:**	K-LCMS-06
Acqu Date:	7/28/17 12:18	**Vial:**	2
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ1710166-01	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	555465	**Prep Lot:**	293672	**Report Group:**	KQ1710166
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	7/25/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.685	422879	5.0000	NA

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.402	2268423	4.3286	87	19 - 126	N
13C2-PFHxA	4.231	3221085	4.6017	92	10 - 151	N
18O2-PFHxS	4.419	365908	3.7378	75	20 - 128	Y
13C2-6:2 FTS	4.583	238072	3.9244	78	10 - 187	N
13C4-PFOA	4.594	3254878	3.9414	79	13 - 142	N
13C5-PFNA	4.775	3241229	3.9785	80	15 - 143	N
13C4-PFOS	4.759	482202	4.3042	86	11 - 131	N
13C2-PFDA	4.963	3100339	4.3380	87	25 - 129	N
13C2-PFUnDA	5.152	3242535	4.0965	82	16 - 129	N
13C2-PFDoDA	5.335	4132718	4.0763	82	17 - 114	N
D7-MeFOSE	5.658	336562	3.9418	79	32 - 113	N
D9-EtFOSE	5.793	360134	4.0532	81	20 - 113	N
D5-EtFOSA	5.825	354911	3.0997	62	19 - 103	N
13C2-8:2 FTS	4.961	300645	5.0539	101	50 - 150	N
13C2-PFTeDA	5.652	2825150	4.0721	81	50 - 150	N
13C4-PFHpA	4.422	2950666	4.6031	92	50 - 150	N
13C5-PFPeA	3.969	1036597	4.4148	88	50 - 150	N
13C3-PFBS	4.019	611637	4.0318	81	50 - 150	N
13C8-FOSA	5.294	1075913	3.8305	77	50 - 150	N

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.403	2336778	4.8618	156		N
Perfluoropentanoic acid (PFPeA)	3.970	2769249	4.8564	155		N

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed: 7/28/17 14:32

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072817_b1\072817_121	**Instrument:**	K-LCMS-06
Acqu Date:	7/28/17 12:18	**Vial:**	2
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ1710166-01	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.019	390841	3.6377	116		N
Perfluorohexanoic acid (PFHxA)	4.230	2659448	5.0183	161		N
Perfluoroheptanoic acid (PFHpA)	4.423	2964910	5.3078	170		N
Perfluorohexane sulfonic acid (PFHxS)	4.419	312812	3.5080	112		
Perfluorooctanoic acid (PFOA)	4.594	3382862	4.6442	149		N
Perfluoroheptane sulfonic acid (PFHpS)	4.585	261680	3.8187	122		N
Perfluorononanoic acid (PFNA)	4.775	2828395	5.1712	165		N
Perfluorooctane sulfonic acid (PFOS)	4.759	238351	3.2860	105		N
Perfluorodecanoic acid (PFDA)	4.963	3181642	4.5997	147		N
Perfluoroundecanoic acid (PFUnDA)	5.152	2824069	5.0318	161		N
Perfluorooctane sulfonamide (FOSA)	5.294	1110699	3.5279	113		N
Perfluorododecanoic acid (PFDoDA)	5.335	2180199	4.8587	155		N
Perfluorotridecanoic acid (PFTrDA)	5.502	2724902	4.7627	152		N
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.688	260330	2.3633	75.6		N
N-Methyl perfluorooctane sulfonamidoethanol	5.666	485474	3.5249	113		N
Perfluorotetradecanoic acid (PFTeDA)	5.653	1283819	5.0752	162		N
N-Ethyl perfluorooctane sulfonamidoethanol	5.804	561405	3.3178	106		N
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.830	46112	3.0419	97.3		N
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.961	190669	3.1315	100		N
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.583	211901	4.0245	129		N
Perfluorodecane sulfonic acid (PFDS)	5.127	256806	3.3885	108		

Prep Amount:	125.0000 mL	**Dilution:**	1
Prep Final Amount:	4.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/28/17 14:32

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072817_121

Sample ID: KQ1710166-01 LCS
Date acquired: 7/28/2017 12:18:03 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b1\072817_121.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 2

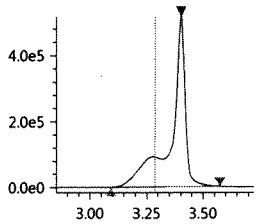
Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.402	2268423	2268423	2	5.0000	ng/mL	5	100.00	Auto
PFBA-13C	3.402	2268423	422879	1	4.3286	ng/mL	5	86.57	Auto
PFBA	3.403	2336778	2268423	2	4.8618	ng/mL	5	97.24	M
PFPeA-13C_IS	3.969	1036597	1036597	4	5.0000	ng/mL	5	100.00	Auto
PFPeA-13C	3.969	1036597	422879	1	4.4148	ng/mL	5	88.30	Auto
PFPeA	3.970	2769249	1036597	4	4.8564	ng/mL	5	97.13	Auto
PFBS_1	4.019	390841	611637	16	3.6377	ng/mL	4.43685	81.99	M
PFBS-13C	4.019	611637	422879	1	4.0318	ng/mL	5	80.64	Auto
PFBS-13C_IS	4.019	611637	611637	16	5.0000	ng/mL	5	100.00	Auto
PFHxA-13C_IS	4.231	3221085	3221085	6	5.0000	ng/mL	5	100.00	Auto
PFHxA-13C	4.231	3221085	422879	1	4.6017	ng/mL	5	92.03	Auto
PFHxA	4.230	2659448	3221085	6	5.0183	ng/mL	5	100.37	Auto
HPFO_DA	4.297	503500	724155	3	4.1971	ng/mL	5	83.94	Auto
HFPO_DA-13C_IS	4.297	724155	724155	3	5.0000	ng/mL	5	100.00	Auto
HFPO_DA-13C	4.297	724155	422879	1	4.0279	ng/mL	5	80.56	Auto
4_2-FTS-13C_IS	4.206	388935	388935	5	5.0000	ng/mL	5	100.00	Auto
4_2-FTS-13C	4.206	388935	422879	1	4.5558	ng/mL	5	91.12	Auto
4_2-FTS_1	4.205	303292	388935	5	3.3863	ng/mL	4.68609	72.26	Auto
PFHpA	4.423	2964910	2950666	8	5.3078	ng/mL	5	106.16	Auto
PFHpA-13C_IS	4.422	2950666	2950666	8	5.0000	ng/mL	5	100.00	Auto
PFHpA-13C	4.422	2950666	422879	1	4.6031	ng/mL	5	92.06	Auto
PFHxS-18O_IS	4.419	365908	365908	7	5.0000	ng/mL	5	100.00	Auto
PFHxS-18O	4.419	365908	422879	1	3.7378	ng/mL	5	74.76	Auto
PFHxS_1	4.419	312812	365908	7	3.5080	ng/mL	4.565377	76.84	Auto
6_2-FTS-13C	4.583	238072	422879	1	3.9244	ng/mL	5	78.49	Auto
6_2-FTS-13C_IS	4.583	238072	238072	10	5.0000	ng/mL	5	100.00	Auto
6_2-FTS_1	4.583	211901	238072	10	4.0245	ng/mL	4.755838	84.62	M
PFHpS_1	4.585	261680	365908	7	3.8187	ng/mL	4.767191	80.10	M
PFOA-13C_IS	4.594	3254878	3254878	9	5.0000	ng/mL	5	100.00	Auto
PFOA-13C	4.594	3254878	422879	1	3.9414	ng/mL	5	78.83	Auto
PFOA	4.594	3382862	3254878	9	4.6442	ng/mL	5	92.88	Auto
PFOS_1	4.759	238351	482202	13	3.2860	ng/mL	4.646145	70.72	Auto
PFOS-13C_IS	4.759	482202	482202	13	5.0000	ng/mL	5	100.00	Auto
PFOS-13C	4.759	482202	422879	1	4.3042	ng/mL	5	86.08	Auto
PFNA-13C_IS	4.775	3241229	3241229	11	5.0000	ng/mL	5	100.00	Auto
PFNA-13C	4.775	3241229	422879	1	3.9785	ng/mL	5	79.57	Auto
PFNA	4.775	2828395	3241229	11	5.1712	ng/mL	5	103.42	Auto
PFDA-13C_IS	4.963	3100339	3100339	12	5.0000	ng/mL	5	100.00	Auto
PFDA-13C	4.963	3100339	422879	1	4.3380	ng/mL	5	86.76	Auto
PFDA	4.963	3181642	3100339	12	4.5997	ng/mL	5	91.99	Auto
8_2-FTS-13C_IS	4.961	300645	300645	15	5.0000	ng/mL	5	100.00	Auto
8_2-FTS-13C	4.961	300645	422879	1	5.0539	ng/mL	5	101.08	Auto
8_2-FTS_1	4.961	190669	300645	15	3.1315	ng/mL	4.800223	65.24	Auto
PFDS_1	5.127	256806	482202	13	3.3885	ng/mL	4.823334	70.25	Auto
PFUnA	5.152	2824069	3242535	14	5.0318	ng/mL	5	100.64	Auto
PFUnA-13C_IS	5.152	3242535	3242535	14	5.0000	ng/mL	5	100.00	Auto
PFUnA-13C	5.152	3242535	422879	1	4.0965	ng/mL	5	81.93	Auto
PFDoA	5.335	2180199	4132718	17	4.8587	ng/mL	5	97.17	Auto
PFDoA-13C	5.335	4132718	422879	1	4.0763	ng/mL	5	81.53	Auto
PFDoA-13C_IS	5.335	4132718	4132718	17	5.0000	ng/mL	5	100.00	Auto
10_2-FtS_1	5.343	170189	300645	15	3.3852	ng/mL	4.830956	70.07	Auto
PFTrDA	5.502	2724902	2825150	22	4.7627	ng/mL	5	95.25	Auto
PFTeDA	5.653	1283819	2825150	22	5.0752	ng/mL	5	101.50	Auto
PFTeDA-13C	5.652	2825150	422879	1	4.0721	ng/mL	5	81.44	Auto
PFTeDA-13C_IS	5.652	2825150	2825150	22	5.0000	ng/mL	5	100.00	Auto
FOSA-13C_IS	5.294	1075913	1075913	18	5.0000	ng/mL	5	100.00	Auto
FOSA-13C	5.294	1075913	422879	1	3.8305	ng/mL	5	76.61	Auto
FOSA	5.294	1110699	1075913	18	3.5279	ng/mL	5	70.56	Auto
N-MeFOSAA	5.072	417795	700904	19	3.9124	ng/mL	5	78.25	Auto
N-MeFOSAA-d3	5.070	700904	422879	1	4.4272	ng/mL	5	88.54	Auto
N-MeFOSAA-d3_IS	5.070	700904	700904	19	5.0000	ng/mL	5	100.00	Auto
N-MeFOSA_IS	5.685	422879	422879	1	5.0000	ng/mL	5	100.00	Auto
N-MeFOSA	5.688	260330	336562	20	2.3633	ng/mL	5	47.27	Auto
N-MeFOSE-d7	5.658	336562	422879	1	3.9418	ng/mL	5	78.84	Auto
N-MeFOSE-d7_IS	5.658	336562	336562	20	5.0000	ng/mL	5	100.00	Auto
N-MeFOSE	5.666	485474	336562	20	3.5249	ng/mL	5	70.50	Auto
N-EtFOSAA	5.173	408306	659944	21	3.7646	ng/mL	5	75.29	Auto

JT

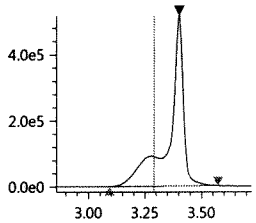
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.170	659944	659944	21	5.0000	ng/mL	5	100.00	Auto
N-EtFOSAA-d5	5.170	659944	422879	1	4.2836	ng/mL	5	85.67	Auto
N-EtFOSA-d9_IS	5.825	354911	354911	23	5.0000	ng/mL	5	100.00	Auto
N-EtFOSA-d9	5.825	354911	422879	1	3.0997	ng/mL	5	61.99	Auto
N-EtFOSA	5.830	46112	354911	23	3.0419	ng/mL	5	60.84	Auto
N-EtFOSE-d9_IS	5.793	360134	360134	24	5.0000	ng/mL	5	100.00	Auto
N-EtFOSE-d9	5.793	360134	422879	1	4.0532	ng/mL	5	81.06	Auto
N-EtFOSE	5.804	561405	360134	24	3.3178	ng/mL	5	66.36	Auto

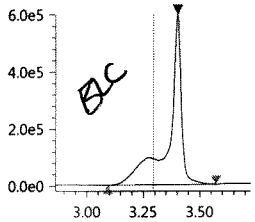
PFBA-13C_IS
Conc 5.0000
RT 3.402 Area 2268423
ISTD 216.90>172.15 5.18e5



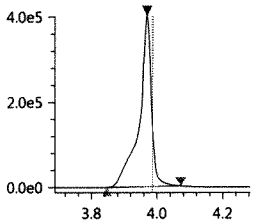
PFBA-13C
Conc 4.3286
RT 3.402 Area 2268423
Q 216.90>172.15 5.18e5



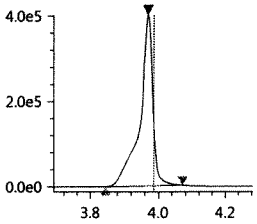
PFBA
Conc 4.8618
RT 3.403 Area 2336778
Q 213.00>169.10 6.01e5



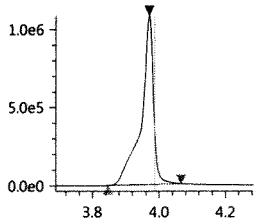
PFPeA-13C_IS
Conc 5.0000
RT 3.969 Area 1036597
ISTD 267.90>223.00 4.03e5



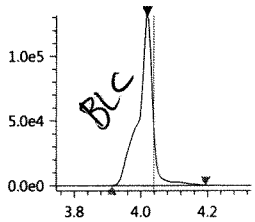
PFPeA-13C
Conc 4.4148
RT 3.969 Area 1036597
Q 267.90>223.00 4.03e5



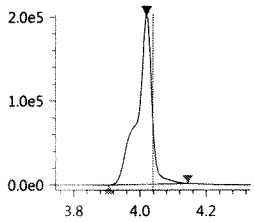
PFPeA
Conc 4.8564
RT 3.970 Area 2769249
Q 263.05>219.10 1.09e6



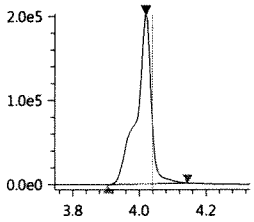
PFBS_1
Conc 3.6377
RT 4.019 Area 390841
Q 299.00>80.00 1.32e5



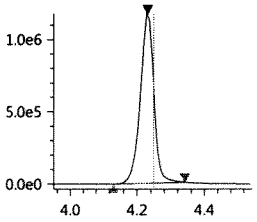
PFBS-13C
Conc 4.0318
RT 4.019 Area 611637
Q 301.80>80.00 2.03e5



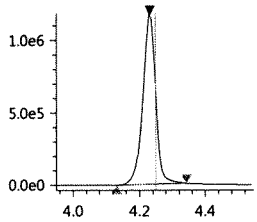
PFBS-13C_IS
Conc 5.0000
RT 4.019 Area 611637
ISTD 301.80>80.00 2.03e5



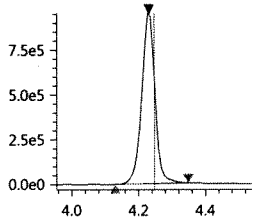
PFHxA-13C_IS
Conc 5.0000
RT 4.231 Area 3221085
ISTD 314.90>270.10 1.18e6



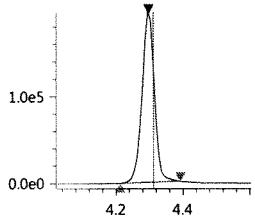
PFHxA-13C
Conc 4.6017
RT 4.231 Area 3221085
Q 314.90>270.10 1.18e6



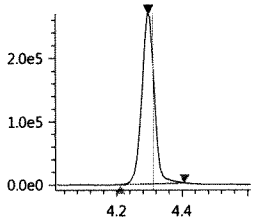
PFHxA
Conc 5.0183
RT 4.230 Area 2659448
Q 313.00>269.00 9.56e5



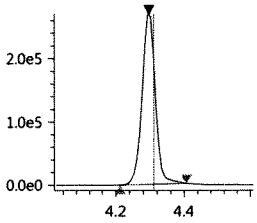
HPFO_DA
Conc 4.1971
RT 4.297 Area 503500
Q 329.00>169.00 1.97e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.297 Area 724155
ISTD 332.00>286.80 2.71e5



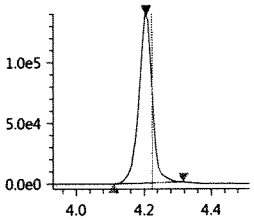
HFPO_DA-13C
Conc 4.0279
RT 4.297 Area 724155
Q 332.00>286.80 2.71e5



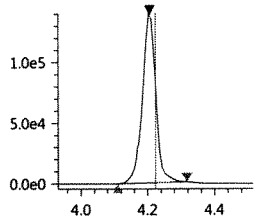
JUL 28 2017

JT

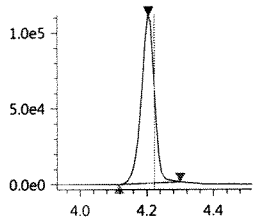
4_2-FTS-13C_IS
Conc 5.0000
RT 4.206 Area 388935
ISTD 328.80>309.05 1.40e5



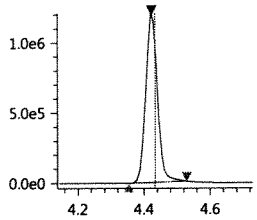
4_2-FTS-13C
Conc 4.5558
RT 4.206 Area 388935
Q 328.80>309.05 1.40e5



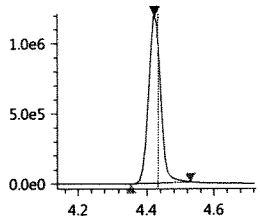
4_2-FTS_1
Conc 3.3863
RT 4.205 Area 303292
Q 327.00>307.05 1.12e5



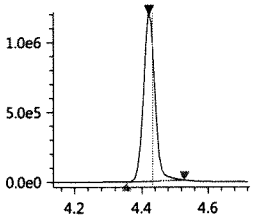
PFHpA
Conc 5.3078
RT 4.423 Area 2964910
Q 362.90>319.00 1.21e6



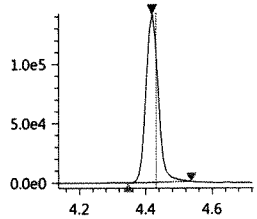
PFHpA-13C_IS
Conc 5.0000
RT 4.422 Area 2950666
ISTD 366.90>322.10 1.22e6



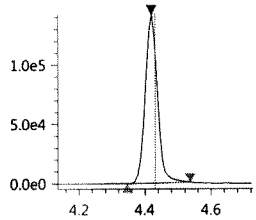
PFHpA-13C
Conc 4.6031
RT 4.422 Area 2950666
Q 366.90>322.10 1.22e6



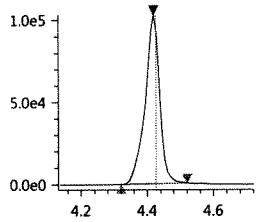
PFHxS-18O_IS
Conc 5.0000
RT 4.419 Area 365908
ISTD 402.70>84.05 1.43e5



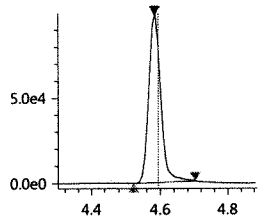
PFHxS-18O
Conc 3.7378
RT 4.419 Area 365908
Q 402.70>84.05 1.43e5



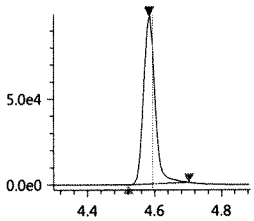
PFHxS_1
Conc 3.5080
RT 4.419 Area 312812
Q 399.00>80.00 1.03e5



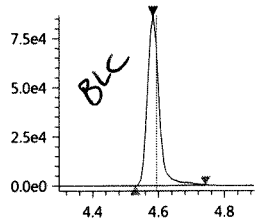
6_2-FTS-13C
Conc 3.9244
RT 4.583 Area 238072
Q 428.90>409.00 9.97e4



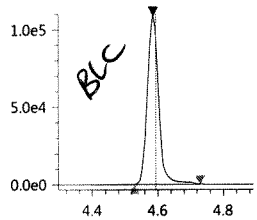
6_2-FTS-13C_IS
Conc 5.0000
RT 4.583 Area 238072
ISTD 428.90>409.00 9.97e4



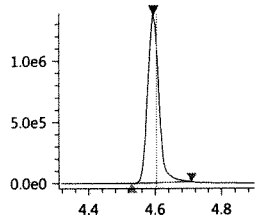
6_2-FTS_1
Conc 4.0245
RT 4.583 Area 211901
Q 427.00>407.00 8.68e4



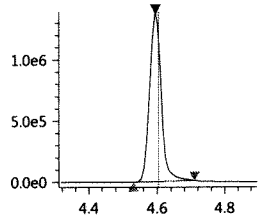
PFHpS_1
Conc 3.8187
RT 4.585 Area 261680
Q 449.00>80.15 1.10e5



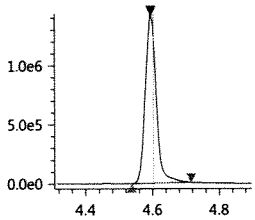
PFOA-13C_IS
Conc 5.0000
RT 4.594 Area 3254878
ISTD 416.80>372.05 1.39e6



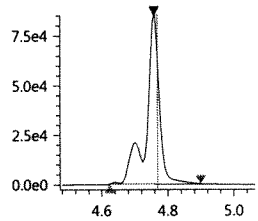
PFOA-13C
Conc 3.9414
RT 4.594 Area 3254878
Q 416.80>372.05 1.39e6



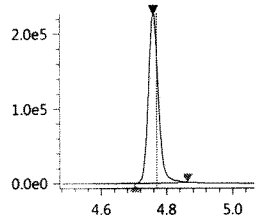
PFOA
Conc 4.6442
RT 4.594 Area 3382862
Q 413.00>369.00 1.44e6



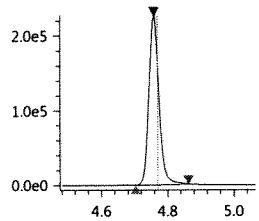
PFOS_1
Conc 3.2860
RT 4.759 Area 238351
Q 499.00>80.00 8.56e4



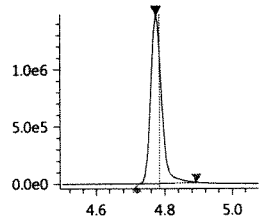
PFOS-13C_IS
Conc 5.0000
RT 4.759 Area 482202
ISTD 502.80>80.05 2.27e5



PFOS-13C
Conc 4.3042
RT 4.759 Area 482202
Q 502.80>80.05 2.27e5

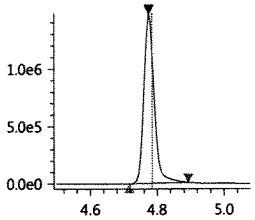


PFNA-13C_IS
Conc 5.0000
RT 4.775 Area 3241229
ISTD 467.80>423.00 1.48e6

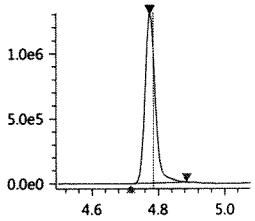


JUL 28 2017

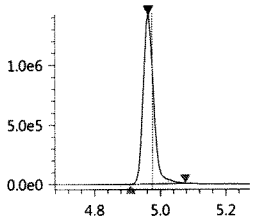
PFNA-13C
Conc 3.9785
RT 4.775 Area 3241229
Q 467.80>423.00 1.48e6



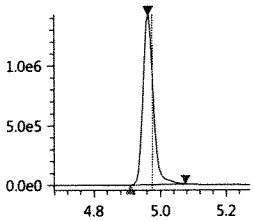
PFNA
Conc 5.1712
RT 4.775 Area 2828395
Q 463.00>418.90 1.31e6



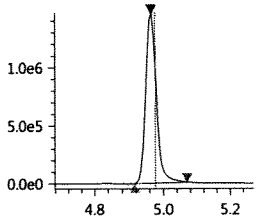
PFDA-13C_IS
Conc 5.0000
RT 4.963 Area 3100339
ISTD 514.80>469.95 1.43e6



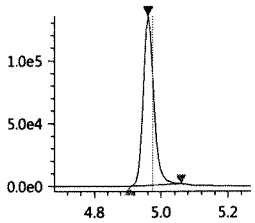
PFDA-13C
Conc 4.3380
RT 4.963 Area 3100339
Q 514.80>469.95 1.43e6



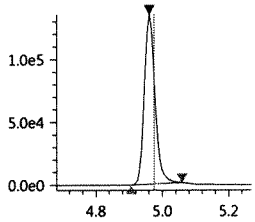
PFDA
Conc 4.5997
RT 4.963 Area 3181642
Q 513.00>468.80 1.48e6



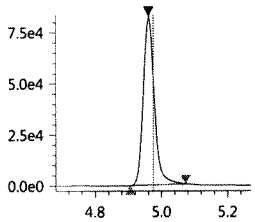
8_2-FTS-13C_IS
Conc 5.0000
RT 4.961 Area 300645
ISTD 528.80>509.00 1.36e5



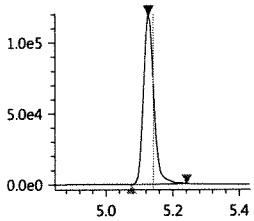
8_2-FTS-13C
Conc 5.0539
RT 4.961 Area 300645
Q 528.80>509.00 1.36e5



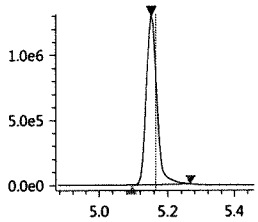
8_2-FTS_1
Conc 3.1315
RT 4.961 Area 190669
Q 526.90>506.90 8.36e4



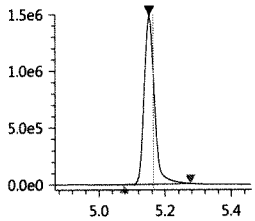
PFDS_1
Conc 3.3885
RT 5.127 Area 256806
Q 599.00>79.90 1.21e5



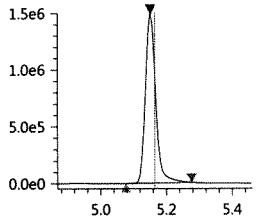
PFUnA
Conc 5.0318
RT 5.152 Area 2824069
Q 563.00>518.90 1.32e6



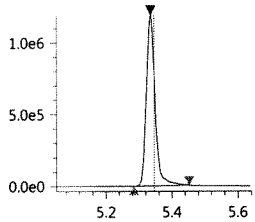
PFUnA-13C_IS
Conc 5.0000
RT 5.152 Area 3242535
ISTD 564.80>519.95 1.51e6



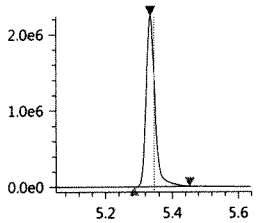
PFUnA-13C
Conc 4.0965
RT 5.152 Area 3242535
Q 564.80>519.95 1.51e6



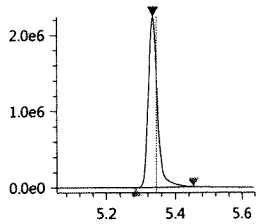
PFDoA
Conc 4.8587
RT 5.335 Area 2180199
Q 613.05>569.00 1.19e6



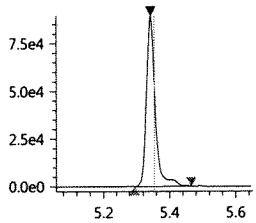
PFDoA-13C
Conc 4.0763
RT 5.335 Area 4132718
Q 614.80>569.95 2.25e6



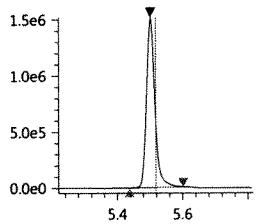
PFDoA-13C_IS
Conc 5.0000
RT 5.335 Area 4132718
ISTD 614.80>569.95 2.25e6



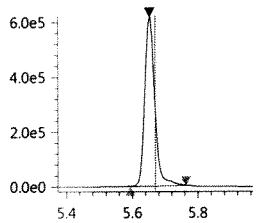
10_2-FtS_1
Conc 3.3852
RT 5.343 Area 170189
Q 627.00>606.95 8.96e4



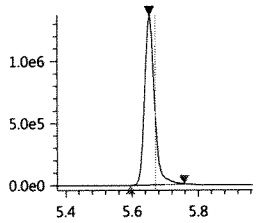
PFTrDA
Conc 4.7627
RT 5.502 Area 2724902
Q 663.00>618.90 1.52e6



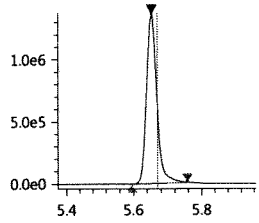
PFTeDA
Conc 5.0752
RT 5.653 Area 1283819
Q 713.40>669.00 6.24e5



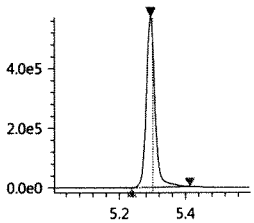
PFTeDA-13C
Conc 4.0721
RT 5.652 Area 2825150
Q 714.70>669.90 1.38e6



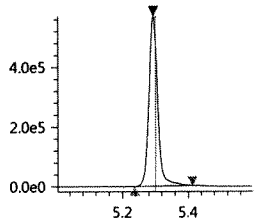
PFTeDA-13C_IS
Conc 5.0000
RT 5.652 Area 2825150
ISTD 714.70>669.90 1.38e6



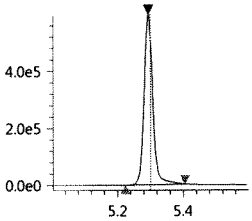
FOSA-13C_IS
Conc 5.0000
RT 5.294 Area 1075913
ISTD 506.00>78.05 5.71e5



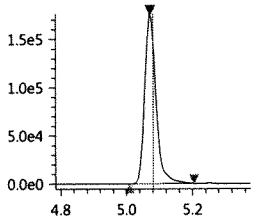
FOSA-13C
Conc 3.8305
RT 5.294 Area 1075913
Q 506.00>78.05 5.71e5



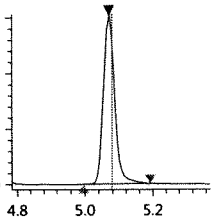
FOSA
Conc 3.5279
RT 5.294 Area 1110699
Q 498.00>78.00 5.97e5



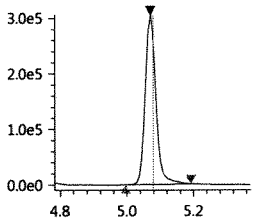
N-MeFOSAA
Conc 3.9124
RT 5.072 Area 417795
Q 570.20>419.00 1.77e5



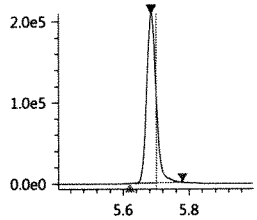
N-MeFOSAA-d3
Conc 4.4272
RT 5.070 Area 700904
Q 572.80>419.05 3.06e5



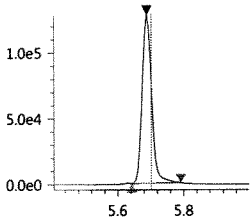
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.070 Area 700904
ISTD 572.80>419.05 3.06e5



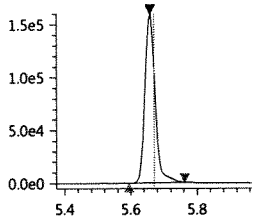
N-MeFOSA_IS
Conc 5.0000
RT 5.685 Area 422879
ISTD 514.90>168.90 2.10e5



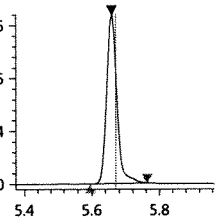
N-MeFOSA
Conc 2.3633
RT 5.688 Area 260330
Q 512.00>169.10 1.29e5



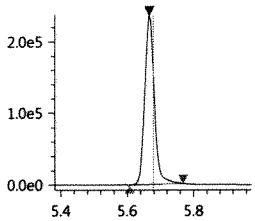
N-MeFOSE-d7
Conc 3.9418
RT 5.658 Area 336562
Q 622.70>59.10 1.61e5



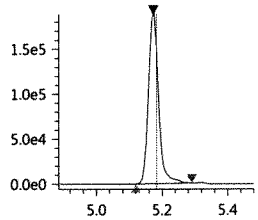
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.658 Area 336562
ISTD 622.70>59.10 1.61e5



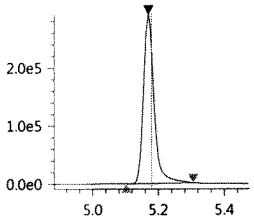
N-MeFOSE
Conc 3.5249
RT 5.666 Area 485474
Q 616.00>59.00 2.38e5



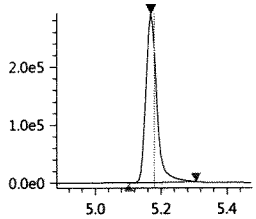
N-EtFOSAA
Conc 3.7646
RT 5.173 Area 408306
Q 584.20>418.95 1.89e5



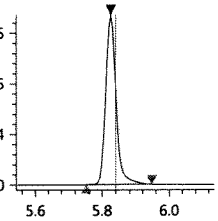
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.170 Area 659944
ISTD 588.80>419.00 2.94e5



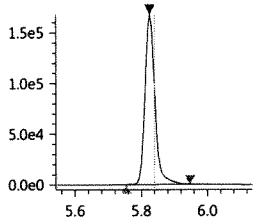
N-EtFOSAA-d5
Conc 4.2836
RT 5.170 Area 659944
Q 588.80>419.00 2.94e5



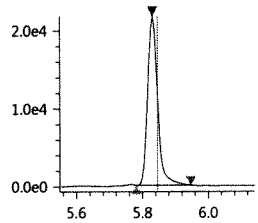
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.825 Area 354911
ISTD 530.90>169.15 1.68e5



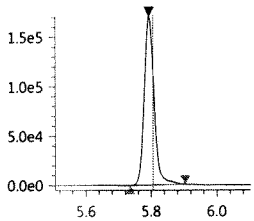
N-EtFOSA-d9
Conc 3.0997
RT 5.825 Area 354911
Q 530.90>169.15 1.68e5



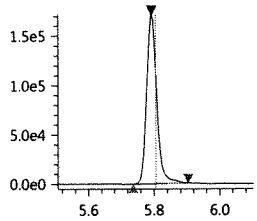
N-EtFOSA
Conc 3.0419
RT 5.830 Area 46112
Q 526.90>169.10 2.19e4



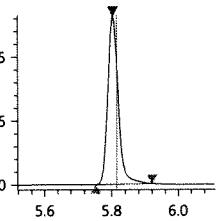
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.793 Area 360134
ISTD 638.70>59.10 1.72e5



N-EtFOSE-d9
Conc 4.0532
RT 5.793 Area 360134
Q 638.70>59.10 1.72e5



N-EtFOSE
Conc 3.3178
RT 5.804 Area 561405
Q 630.00>58.90 2.66e5



Insight Report

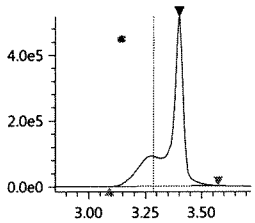
Befores

Printed at 7/28/2017 1:45:07 PM

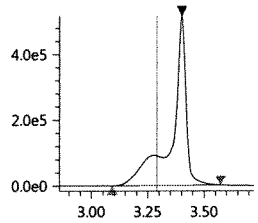
072817_121

Sample ID: KQ1710166-01 LCS
Date acquired: 7/28/2017 12:18:03 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b1\072817_121.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 2

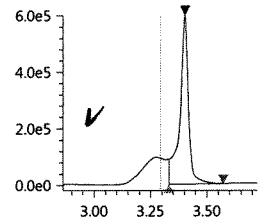
PFBA-13C_IS
Conc 5.0000
RT 3.402 Area 2268423
ISTD 216.90>172.15 5.18e5



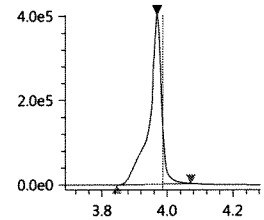
PFBA-13C
Conc 4.3286
RT 3.402 Area 2268423
Q 216.90>172.15 5.18e5



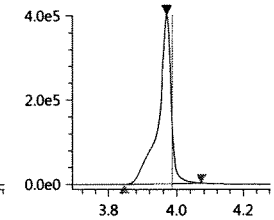
PFBA
Conc 3.3684
RT 3.403 Area 1618991
Q 213.00>169.10 6.01e5



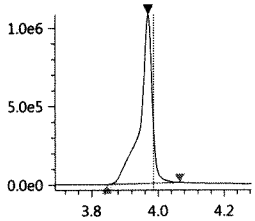
PFPeA-13C_IS
Conc 5.0000
RT 3.969 Area 1036597
ISTD 267.90>223.00 4.03e5



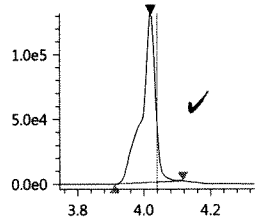
PFPeA-13C
Conc 4.4148
RT 3.969 Area 1036597
Q 267.90>223.00 4.03e5



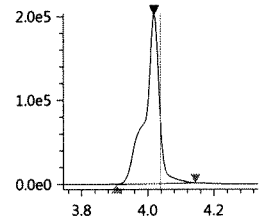
PFPeA
Conc 4.8564
RT 3.970 Area 2769249
Q 263.05>219.10 1.09e6



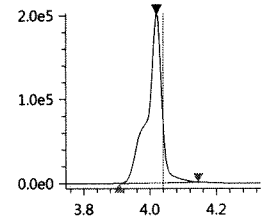
PFBS_1
Conc 3.4522
RT 4.019 Area 370912
Q 299.00>80.00 1.32e5



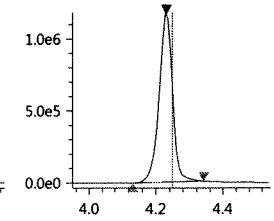
PFBS-13C
Conc 4.0318
RT 4.019 Area 611637
Q 301.80>80.00 2.03e5



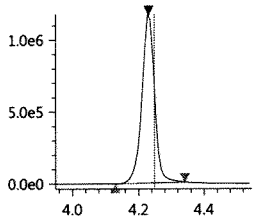
PFBS-13C_IS
Conc 5.0000
RT 4.019 Area 611637
ISTD 301.80>80.00 2.03e5



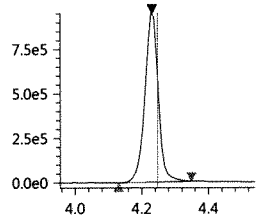
PFHxA-13C_IS
Conc 5.0000
RT 4.231 Area 3221085
ISTD 314.90>270.10 1.18e6



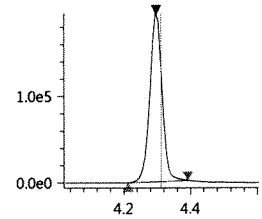
PFHxA-13C
Conc 4.6017
RT 4.231 Area 3221085
Q 314.90>270.10 1.18e6



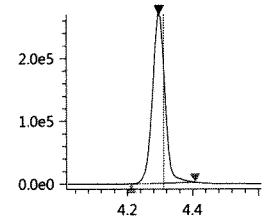
PFHxA
Conc 5.0183
RT 4.230 Area 2659448
Q 313.00>269.00 9.56e5



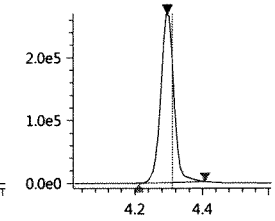
HPFO_DA
Conc 4.1971
RT 4.297 Area 503500
Q 329.00>169.00 1.97e5



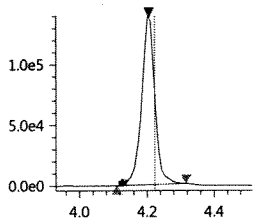
HFPO_DA-13C_IS
Conc 5.0000
RT 4.297 Area 724155
ISTD 332.00>286.80 2.71e5



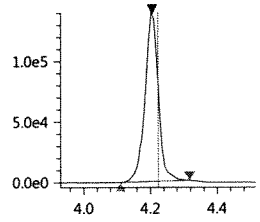
HFPO_DA-13C
Conc 4.0279
RT 4.297 Area 724155
Q 332.00>286.80 2.71e5



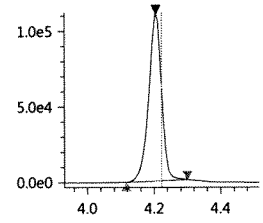
4_2-FTS-13C_IS
Conc 5.0000
RT 4.206 Area 388935
ISTD 328.80>309.05 1.40e5



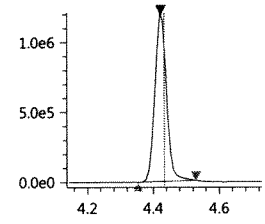
4_2-FTS-13C
Conc 4.5558
RT 4.206 Area 388935
Q 328.80>309.05 1.40e5



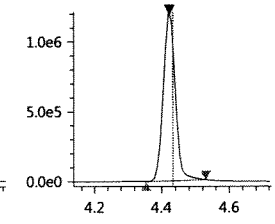
4_2-FTS_1
Conc 3.3863
RT 4.205 Area 303292
Q 327.00>307.05 1.12e5



PFHpA
Conc 5.3078
RT 4.423 Area 2964910
Q 362.90>319.00 1.21e6

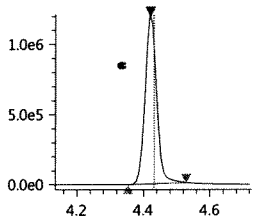


PFHpA-13C_IS
Conc 5.0000
RT 4.422 Area 2950666
ISTD 366.90>322.10 1.22e6

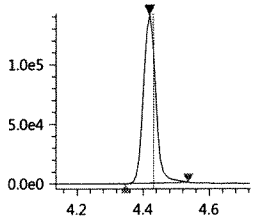


JUL 28 2017

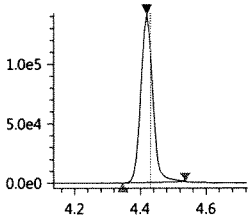
PFHpA-13C
Conc 4.6031
RT 4.422 Area 2950666
Q 366.90>322.10 1.22e6



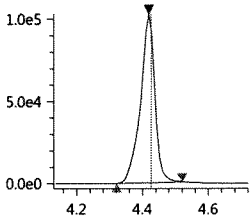
PFHxS-18O_IS
Conc 5.0000
RT 4.419 Area 365908
ISTD 402.70>84.05 1.43e5



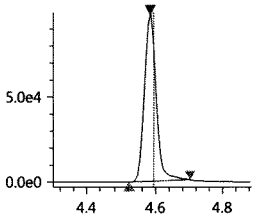
PFHxS-18O
Conc 3.7378
RT 4.419 Area 365908
Q 402.70>84.05 1.43e5



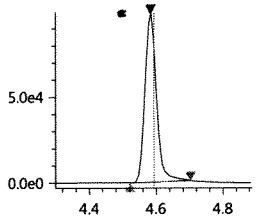
PFHxS_1
Conc 3.5080
RT 4.419 Area 312812
Q 399.00>80.00 1.03e5



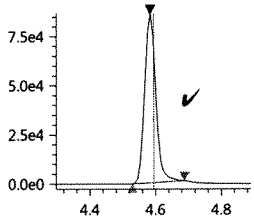
6_2-FTS-13C
Conc 3.9244
RT 4.583 Area 238072
Q 428.90>409.00 9.97e4



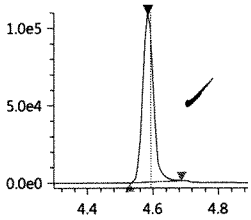
6_2-FTS-13C_IS
Conc 5.0000
RT 4.583 Area 238072
ISTD 428.90>409.00 9.97e4



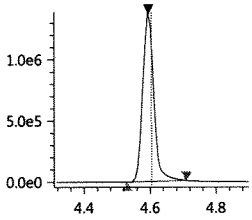
6_2-FTS_1
Conc 3.8556
RT 4.583 Area 203143
Q 427.00>407.00 8.68e4



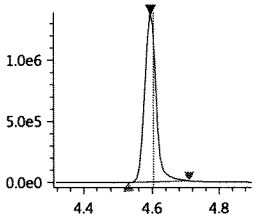
PFHpS_1
Conc 3.8517
RT 4.585 Area 253210
Q 449.00>80.15 1.10e5



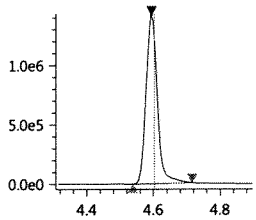
PFOA-13C_IS
Conc 5.0000
RT 4.594 Area 3254878
ISTD 416.80>372.05 1.39e6



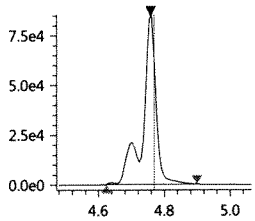
PFOA-13C
Conc 3.9414
RT 4.594 Area 3254878
Q 416.80>372.05 1.39e6



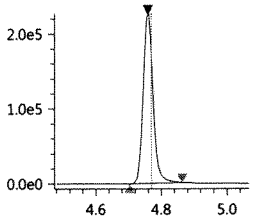
PFOA
Conc 4.6442
RT 4.594 Area 3382862
Q 413.00>369.00 1.44e6



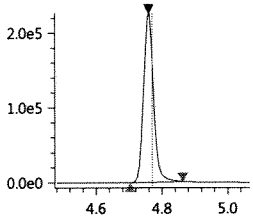
PFOS_1
Conc 3.2860
RT 4.759 Area 238351
Q 499.00>80.00 8.56e4



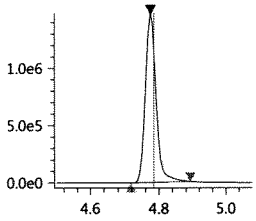
PFOS-13C_IS
Conc 5.0000
RT 4.759 Area 482202
ISTD 502.80>80.05 2.27e5



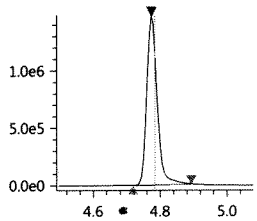
PFOS-13C
Conc 4.3042
RT 4.759 Area 482202
Q 502.80>80.05 2.27e5



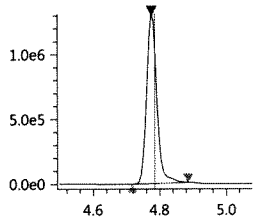
PFNA-13C_IS
Conc 5.0000
RT 4.775 Area 3241229
ISTD 467.80>423.00 1.48e6



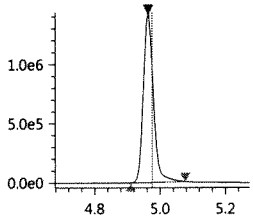
PFNA-13C
Conc 3.9785
RT 4.775 Area 3241229
Q 467.80>423.00 1.48e6



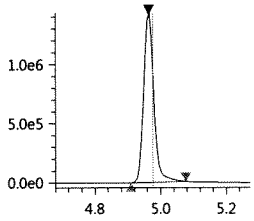
PFNA
Conc 5.1712
RT 4.775 Area 2828395
Q 463.00>418.90 1.31e6



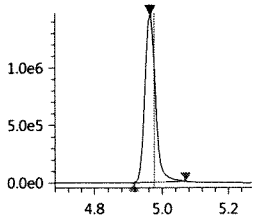
PFDA-13C_IS
Conc 5.0000
RT 4.963 Area 3100339
ISTD 514.80>469.95 1.43e6



PFDA-13C
Conc 4.3380
RT 4.963 Area 3100339
Q 514.80>469.95 1.43e6



PFDA
Conc 4.5997
RT 4.963 Area 3181642
Q 513.00>468.80 1.48e6



Validation Report

Data File: J:\LCMS06\Data\072617_b2\072617_121
Lab ID: KQ1710166-02
RunType: DLCS
Matrix: Water

Date Acquired: 7/26/17 12:43
Batch ID: 555050
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-6:2 FTS	185	70	130	Narrate- native ok
	13C2-8:2 FTS	169	70	130	↓

Primary Review: JT 7/27/17

Secondary Review: JUL 27 2017

Printed: 7/27/17 9:27
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072617_b2\072617_121	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 12:43	**Vial:**	5
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ1710166-02	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	555050	**Prep Lot:**	293672	**Report Group:**	KQ1710166
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	7/25/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.693	437206	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.409	2428697	4.9607	99	19 - 126	Y
13C2-PFHxA	4.239	3187318	4.6375	93	10 - 151	Y
18O2-PFHxS	4.428	352752	3.4668	69	20 - 128	Y
13C2-6:2 FTS	4.593	363885	5.4683	109	10 - 187	Y
13C4-PFOA	4.604	3851266	4.3273	87	13 - 142	Y
13C5-PFNA	4.784	3444836	4.3127	86	15 - 143	Y
13C4-PFOS	4.768	436187	3.9270	79	11 - 131	Y
13C2-PFDA	4.973	2917238	4.4231	88	25 - 129	Y
13C2-PFUnDA	5.161	3463583	4.4118	88	16 - 129	Y
13C2-PFDoDA	5.344	3984523	4.0070	80	17 - 114	Y
D7-MeFOSE	5.666	361398	3.1513	63	32 - 113	Y
D9-EtFOSE	5.801	417744	3.0204	60	20 - 113	Y
D5-EtFOSA	5.833	399388	3.3800	68	19 - 103	Y
13C2-8:2 FTS	4.971	391111	6.5235	130	50 - 150	Y
13C2-PFTeDA	5.661	2904173	3.6114	72	50 - 150	Y
13C4-PFHpA	4.431	2904322	4.1902	84	50 - 150	Y
13C5-PFPeA	3.977	1031800	4.2620	85	50 - 150	Y
13C3-PFBS	4.027	506374	2.9644	59	50 - 150	Y
13C8-FOSA	5.304	1080170	3.5797	72	50 - 150	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.410	2363447	3.7808	121		Y
Perfluoropentanoic acid (PFPeA)	3.978	2802282	4.1385	132		Y

Data File:	J:\LCMS06\Data\072617_b2\072617_121	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 12:43	**Vial:**	5
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ1710166-02	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.028	337351	3.9318	126		Y
Perfluorohexanoic acid (PFHxA)	4.239	2441188	3.8929	125		Y
Perfluoroheptanoic acid (PFHpA)	4.431	3008344	4.7146	151		Y
Perfluorohexane sulfonic acid (PFHxS)	4.427	293012	2.9934	95.8		Y
Perfluorooctanoic acid (PFOA)	4.604	4085443	4.1965	134		Y
Perfluoroheptane sulfonic acid (PFHpS)	4.594	260357	3.3875	108		Y
Perfluorononanoic acid (PFNA)	4.784	3177496	4.1862	134		Y
Perfluorooctane sulfonic acid (PFOS)	4.768	231220	3.2683	105		Y
Perfluorodecanoic acid (PFDA)	4.973	2962895	3.7085	119		Y
Perfluoroundecanoic acid (PFUnDA)	5.161	2866367	3.5868	115		Y
Perfluorooctane sulfonamide (FOSA)	5.304	1036804	3.1252	100		Y
Perfluorododecanoic acid (PFDoDA)	5.344	2097089	4.0295	129		Y
Perfluorotridecanoic acid (PFTrDA)	5.511	2638383	4.5663	146		Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.696	283259	3.2278	103		Y
N-Methyl perfluorooctane sulfonamidoethanol	5.675	473961	3.7323	119		Y
Perfluorotetradecanoic acid (PFTeDA)	5.661	1314290	4.1649	133		Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.812	587283	4.4798	143		Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.838	47229	3.1979	102		Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.971	254074	3.3691	108		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.593	308180	3.2126	103		Y
Perfluorodecane sulfonic acid (PFDS)	5.136	236404	2.8316	90.6		Y

Prep Amount:	125.0000 mL	**Dilution:**	1
Prep Final Amount:	4.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 9:27

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072617_121

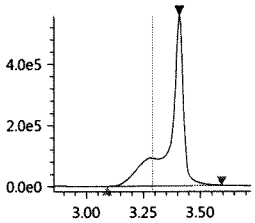
Sample ID: KQ1710166-02 DLES
Date acquired: 7/26/2017 12:43:14 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b2\072617_121.lcd
Vial: 12 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.409	2428697	2428697	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.409	2428697	437206	1	4.9607	ng/mL	----	----	Auto
PFBA	3.410	2363447	2428697	2	3.7808	ng/mL	----	----	M
PFPeA-13C_IS	3.977	1031800	1031800	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.977	1031800	437206	1	4.2620	ng/mL	----	----	Auto
PFPeA	3.978	2802282	1031800	4	4.1385	ng/mL	----	----	Auto
PFBS_1	4.028	337351	506374	16	3.9318	ng/mL	----	----	M
PFBS-13C	4.027	506374	437206	1	2.9644	ng/mL	----	----	Auto
PFBS-13C_IS	4.027	506374	506374	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.239	3187318	3187318	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.239	3187318	437206	1	4.6375	ng/mL	----	----	Auto
PFHxA	4.239	2441188	3187318	6	3.8929	ng/mL	----	----	Auto
HPFO_DA	4.305	362368	546394	3	3.4864	ng/mL	----	----	Auto
HFPO_DA-13C_IS	4.305	546394	546394	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.305	546394	437206	1	3.2072	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.213	496790	496790	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.213	496790	437206	1	4.4742	ng/mL	----	----	Auto
4_2-FTS_1	4.213	377050	496790	5	2.9799	ng/mL	----	----	Auto
PFHpA	4.431	3008344	2904322	8	4.7146	ng/mL	----	----	Auto
PFHpA-13C_IS	4.431	2904322	2904322	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.431	2904322	437206	1	4.1902	ng/mL	----	----	Auto
PFHxS-18O_IS	4.428	352752	352752	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.428	352752	437206	1	3.4668	ng/mL	----	----	Auto
PFHxS_1	4.427	293012	352752	7	2.9934	ng/mL	----	----	Auto
6_2-FTS-13C	4.593	363885	437206	1	5.4683	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.593	363885	363885	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.593	308180	363885	10	3.2126	ng/mL	----	----	Auto
PFHpS_1	4.594	260357	352752	7	3.3875	ng/mL	----	----	Auto
PFOA-13C_IS	4.604	3851266	3851266	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.604	3851266	437206	1	4.3273	ng/mL	----	----	Auto
PFOA	4.604	4085443	3851266	9	4.1965	ng/mL	----	----	Auto
PFOS_1	4.768	231220	436187	13	3.2683	ng/mL	----	----	Auto
PFOS-13C_IS	4.768	436187	436187	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.768	436187	437206	1	3.9270	ng/mL	----	----	Auto
PFNA-13C_IS	4.784	3444836	3444836	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.784	3444836	437206	1	4.3127	ng/mL	----	----	Auto
PFNA	4.784	3177496	3444836	11	4.1862	ng/mL	----	----	Auto
PFDA-13C_IS	4.973	2917238	2917238	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.973	2917238	437206	1	4.4231	ng/mL	----	----	Auto
PFDA	4.973	2962895	2917238	12	3.7085	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.971	391111	391111	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.971	391111	437206	1	6.5235	ng/mL	----	----	Auto
8_2-FTS_1	4.971	254074	391111	15	3.3691	ng/mL	----	----	Auto
PFDS_1	5.136	236404	436187	13	2.8316	ng/mL	----	----	Auto
PFUnA	5.161	2866367	3463583	14	3.5868	ng/mL	----	----	Auto
PFUnA-13C_IS	5.161	3463583	3463583	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.161	3463583	437206	1	4.4118	ng/mL	----	----	Auto
PFDoA	5.344	2097089	3984523	17	4.0295	ng/mL	----	----	Auto
PFDoA-13C	5.344	3984523	437206	1	4.0070	ng/mL	----	----	Auto
PFDoA-13C_IS	5.344	3984523	3984523	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	5.353	213695	391111	15	2.8895	ng/mL	----	----	Auto
PFTrDA	5.511	2638383	2904173	22	4.5663	ng/mL	----	----	Auto
PFTeDA	5.661	1314290	2904173	22	4.1649	ng/mL	----	----	Auto
PFTeDA-13C	5.661	2904173	437206	1	3.6114	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.661	2904173	2904173	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.304	1080170	1080170	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.304	1080170	437206	1	3.5797	ng/mL	----	----	Auto
FOSA	5.304	1036804	1080170	18	3.1252	ng/mL	----	----	Auto
N-MeFOSAA	5.082	453779	728297	19	3.8896	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.079	728297	437206	1	3.7268	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.079	728297	728297	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.693	437206	437206	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.696	283259	361398	20	3.2278	ng/mL	----	----	Auto
N-MeFOSE-d7	5.666	361398	437206	1	3.1513	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.666	361398	361398	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	5.675	473961	361398	20	3.7323	ng/mL	----	----	Auto
N-EtFOSAA	5.183	419381	733719	21	3.3870	ng/mL	----	----	Auto

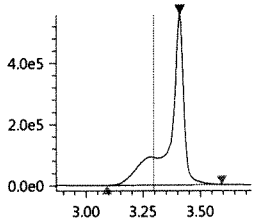
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.179	733719	733719	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.179	733719	437206	1	4.1388	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.833	399388	399388	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.833	399388	437206	1	3.3800	ng/mL	----	----	Auto
N-EtFOSA	5.838	47229	399388	23	3.1979	ng/mL	----	----	Auto
N-EtFOSE-d9_IS	5.801	417744	417744	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.801	417744	437206	1	3.0204	ng/mL	----	----	Auto
N-EtFOSE	5.812	587283	417744	24	4.4798	ng/mL	----	----	Auto

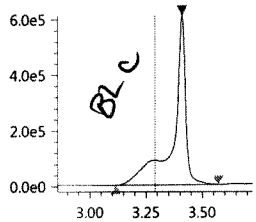
PFBA-13C_IS
Conc 5.0000
RT 3.409 Area 2428697
ISTD 216.90>172.15 5.60e5



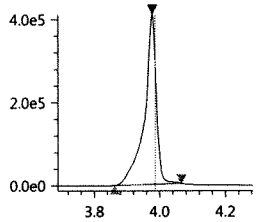
PFBA-13C
Conc 4.9607
RT 3.409 Area 2428697
Q 216.90>172.15 5.60e5



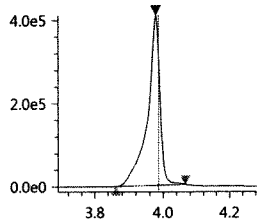
PFBA
Conc 3.7808
RT 3.410 Area 2363447
Q 213.00>169.10 6.16e5



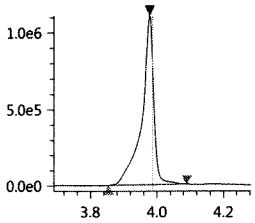
PFPeA-13C_IS
Conc 5.0000
RT 3.977 Area 1031800
ISTD 267.90>223.00 4.13e5



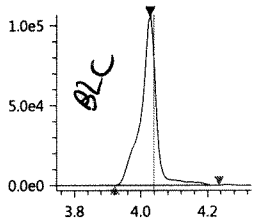
PFPeA-13C
Conc 4.2620
RT 3.977 Area 1031800
Q 267.90>223.00 4.13e5



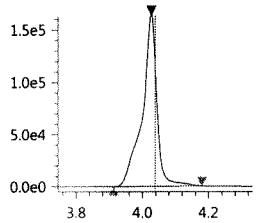
PFPeA
Conc 4.1385
RT 3.978 Area 2802282
Q 263.05>219.10 1.11e6



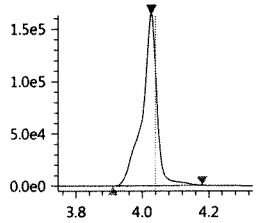
PFBS_1
Conc 3.9318
RT 4.028 Area 337351
Q 299.00>80.00 1.07e5



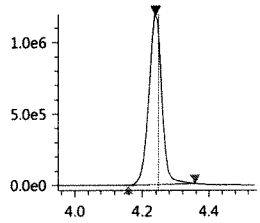
PFBS-13C
Conc 2.9644
RT 4.027 Area 506374
Q 301.80>80.00 1.63e5



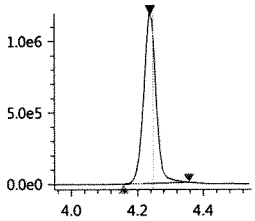
PFBS-13C_IS
Conc 5.0000
RT 4.027 Area 506374
ISTD 301.80>80.00 1.63e5



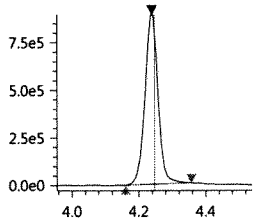
PFHxA-13C_IS
Conc 5.0000
RT 4.239 Area 3187318
ISTD 314.90>270.10 1.20e6



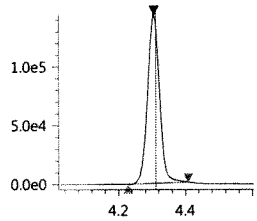
PFHxA-13C
Conc 4.6375
RT 4.239 Area 3187318
Q 314.90>270.10 1.20e6



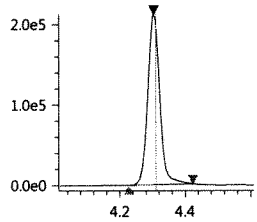
PFHxA
Conc 3.8929
RT 4.239 Area 2441188
Q 313.00>269.00 8.99e5



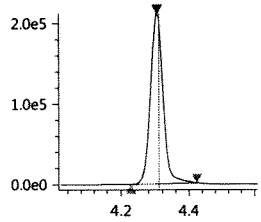
HPFO_DA
Conc 3.4864
RT 4.305 Area 362368
Q 329.00>169.00 1.46e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.305 Area 546394
ISTD 332.00>286.80 2.12e5

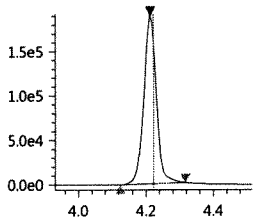


HFPO_DA-13C
Conc 3.2072
RT 4.305 Area 546394
Q 332.00>286.80 2.12e5

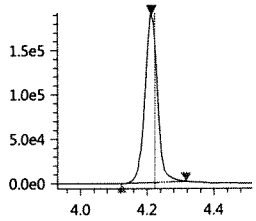


JUL 27 2017

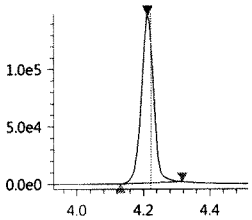
4_2-FTS-13C_IS
Conc 5.0000
RT 4.213 Area 496790
ISTD 328.80>309.05 1.93e5



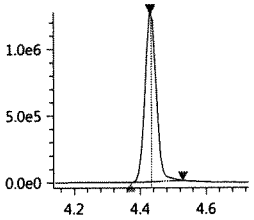
4_2-FTS-13C
Conc 4.4742
RT 4.213 Area 496790
Q 328.80>309.05 1.93e5



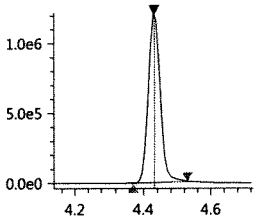
4_2-FTS_1
Conc 2.9799
RT 4.213 Area 377050
Q 327.00>307.05 1.49e5



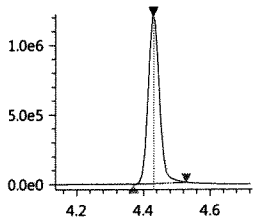
PFHpA
Conc 4.7146
RT 4.431 Area 3008344
Q 362.90>319.00 1.28e6



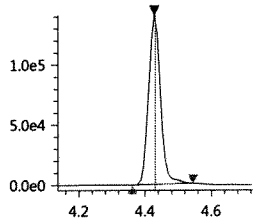
PFHpA-13C_IS
Conc 5.0000
RT 4.431 Area 2904322
ISTD 366.90>322.10 1.22e6



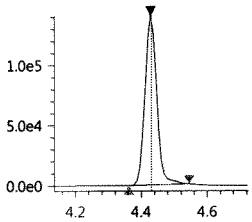
PFHpA-13C
Conc 4.1902
RT 4.431 Area 2904322
Q 366.90>322.10 1.22e6



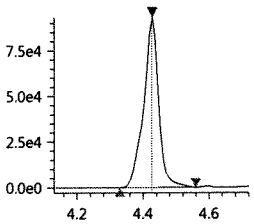
PFHxS-18O_IS
Conc 5.0000
RT 4.428 Area 352752
ISTD 402.70>84.05 1.41e5



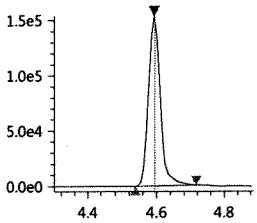
PFHxS-18O
Conc 3.4668
RT 4.428 Area 352752
Q 402.70>84.05 1.41e5



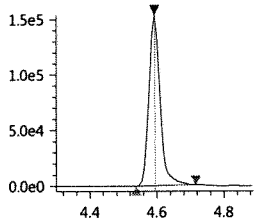
PFHxS_1
Conc 2.9934
RT 4.427 Area 293012
Q 399.00>80.00 9.33e4



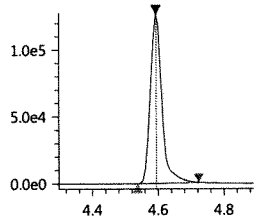
6_2-FTS-13C
Conc 5.4683
RT 4.593 Area 363885
Q 428.90>409.00 1.54e5



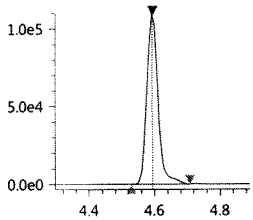
6_2-FTS-13C_IS
Conc 5.0000
RT 4.593 Area 363885
ISTD 428.90>409.00 1.54e5



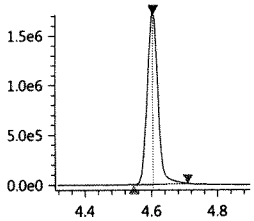
6_2-FTS_1
Conc 3.2126
RT 4.593 Area 308180
Q 427.00>407.00 1.28e5



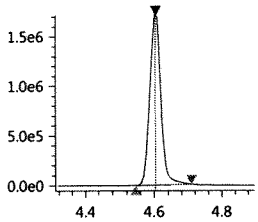
PFHpS_1
Conc 3.3875
RT 4.594 Area 260357
Q 449.00>80.15 1.10e5



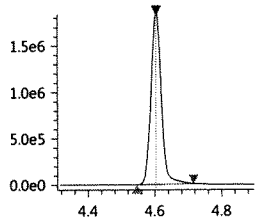
PFOA-13C_IS
Conc 5.0000
RT 4.604 Area 3851266
ISTD 416.80>372.05 1.72e6



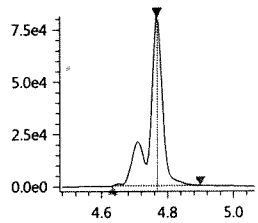
PFOA-13C
Conc 4.3273
RT 4.604 Area 3851266
Q 416.80>372.05 1.72e6



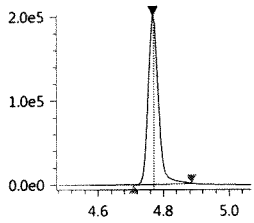
PFOA
Conc 4.1965
RT 4.604 Area 4085443
Q 413.00>369.00 1.84e6



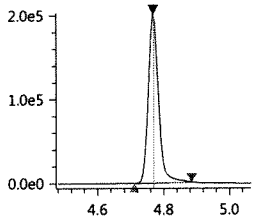
PFOS_1
Conc 3.2683
RT 4.768 Area 231220
Q 499.00>80.00 8.16e4



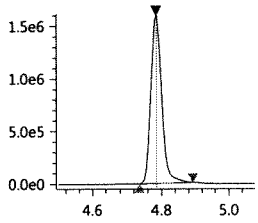
PFOS-13C_IS
Conc 5.0000
RT 4.768 Area 436187
ISTD 502.80>80.05 2.03e5



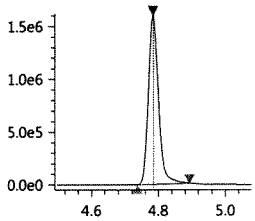
PFOS-13C
Conc 3.9270
RT 4.768 Area 436187
Q 502.80>80.05 2.03e5



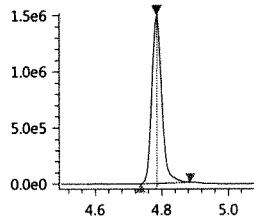
PFNA-13C_IS
Conc 5.0000
RT 4.784 Area 3444836
ISTD 467.80>423.00 1.62e6



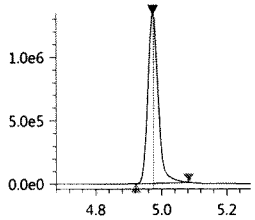
PFNA-13C
Conc 4.3127
RT 4.784 Area 3444836
Q 467.80>423.00 1.62e6



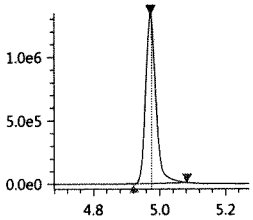
PFNA
Conc 4.1862
RT 4.784 Area 3177496
Q 463.00>418.90 1.52e6



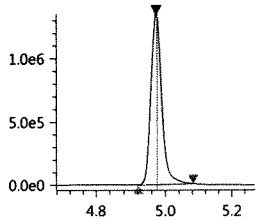
PFDA-13C_IS
Conc 5.0000
RT 4.973 Area 2917238
ISTD 514.80>469.95 1.35e6



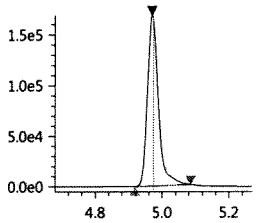
PFDA-13C
Conc 4.4231
RT 4.973 Area 2917238
Q 514.80>469.95 1.35e6



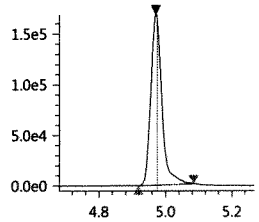
PFDA
Conc 3.7085
RT 4.973 Area 2962895
Q 513.00>468.80 1.35e6



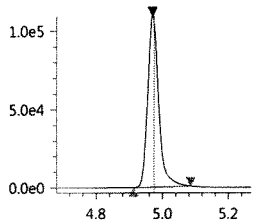
8_2-FTS-13C_IS
Conc 5.0000
RT 4.971 Area 391111
ISTD 528.80>509.00 1.69e5



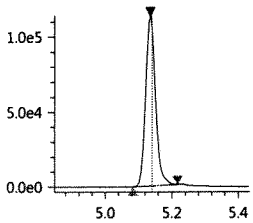
8_2-FTS-13C
Conc 6.5235
RT 4.971 Area 391111
Q 528.80>509.00 1.69e5



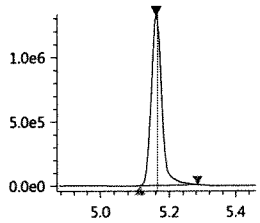
8_2-FTS_1
Conc 3.3691
RT 4.971 Area 254074
Q 526.90>506.90 1.09e5



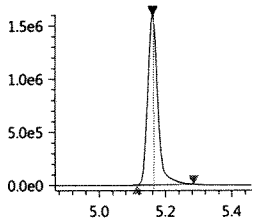
PFDS_1
Conc 2.8316
RT 5.136 Area 236404
Q 599.00>79.90 1.14e5



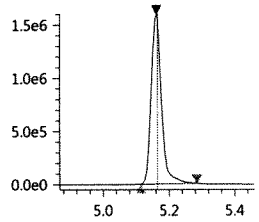
PFUnA
Conc 3.5868
RT 5.161 Area 2866367
Q 563.00>518.90 1.33e6



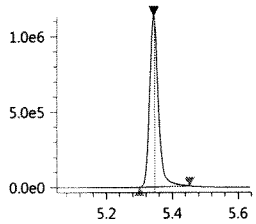
PFUnA-13C_IS
Conc 5.0000
RT 5.161 Area 3463583
ISTD 564.80>519.95 1.61e6



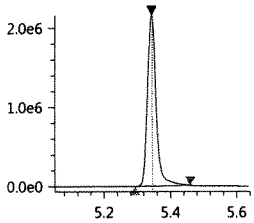
PFUnA-13C
Conc 4.4118
RT 5.161 Area 3463583
Q 564.80>519.95 1.61e6



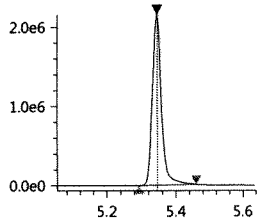
PFDoA
Conc 4.0295
RT 5.344 Area 2097089
Q 613.05>569.00 1.14e6



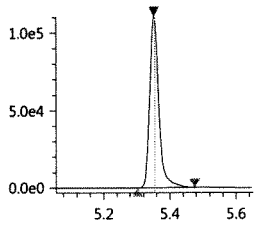
PFDoA-13C
Conc 4.0070
RT 5.344 Area 3984523
Q 614.80>569.95 2.16e6



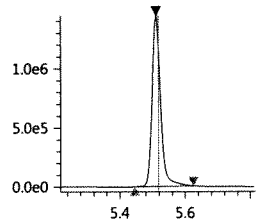
PFDoA-13C_IS
Conc 5.0000
RT 5.344 Area 3984523
ISTD 614.80>569.95 2.16e6



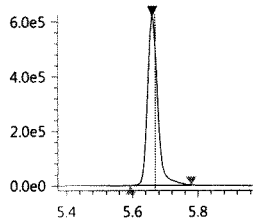
10_2-FtS_1
Conc 2.8895
RT 5.353 Area 213695
Q 627.00>606.95 1.11e5



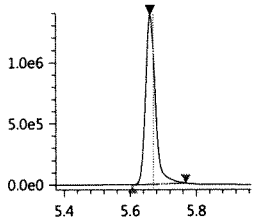
PFTrDA
Conc 4.5663
RT 5.511 Area 2638383
Q 663.00>618.90 1.45e6



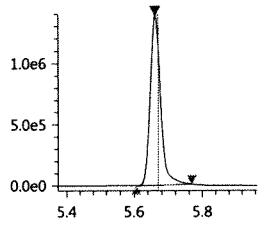
PFTeDA
Conc 4.1649
RT 5.661 Area 1314290
Q 713.40>669.00 6.27e5



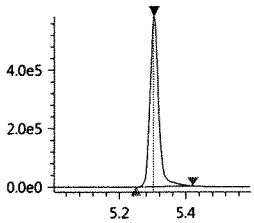
PFTeDA-13C
Conc 3.6114
RT 5.661 Area 2904173
Q 714.70>669.90 1.40e6



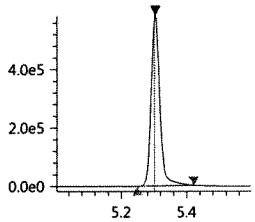
PFTeDA-13C_IS
Conc 5.0000
RT 5.661 Area 2904173
ISTD 714.70>669.90 1.40e6



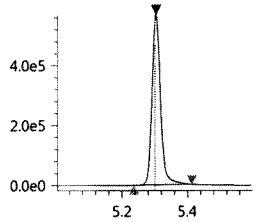
FOSA-13C_IS
Conc 5.0000
RT 5.304 Area 1080170
ISTD 506.00>78.05 5.85e5



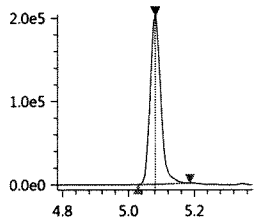
FOSA-13C
Conc 3.5797
RT 5.304 Area 1080170
Q 506.00>78.05 5.85e5



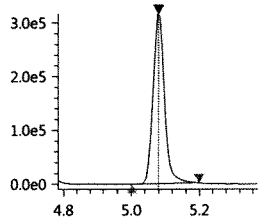
FOSA
Conc 3.1252
RT 5.304 Area 1036804
Q 498.00>78.00 5.69e5



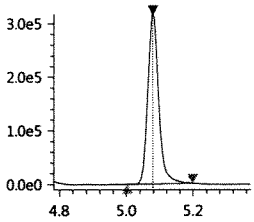
N-MeFOSAA
Conc 3.8896
RT 5.082 Area 453779
Q 570.20>419.00 2.05e5



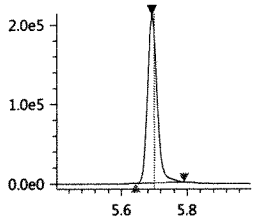
N-MeFOSAA-d3
Conc 3.7268
RT 5.079 Area 728297
Q 572.80>419.05 3.18e5



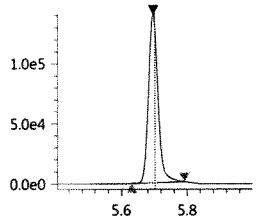
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.079 Area 728297
ISTD 572.80>419.05 3.18e5



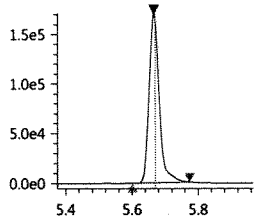
N-MeFOSA_IS
Conc 5.0000
RT 5.693 Area 437206
ISTD 514.90>168.90 2.14e5



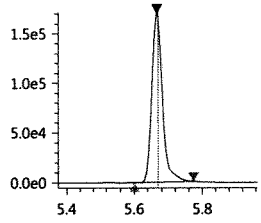
N-MeFOSA
Conc 3.2278
RT 5.696 Area 283259
Q 512.00>169.10 1.42e5



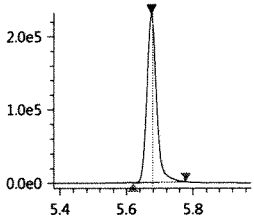
N-MeFOSE-d7
Conc 3.1513
RT 5.666 Area 361398
Q 622.70>59.10 1.72e5



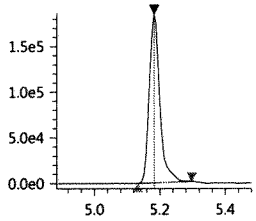
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.666 Area 361398
ISTD 622.70>59.10 1.72e5



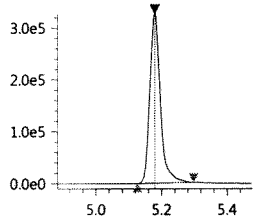
N-MeFOSE
Conc 3.7323
RT 5.675 Area 473961
Q 616.00>59.00 2.33e5



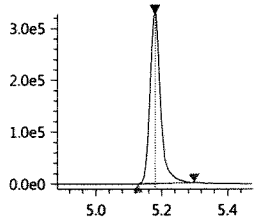
N-EtFOSAA
Conc 3.3870
RT 5.183 Area 419381
Q 584.20>418.95 1.87e5



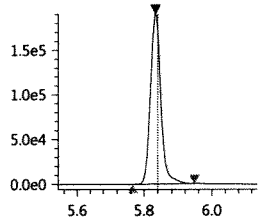
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.179 Area 733719
ISTD 588.80>419.00 3.29e5



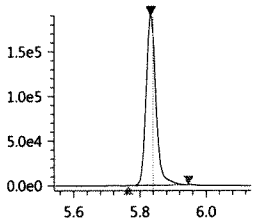
N-EtFOSAA-d5
Conc 4.1388
RT 5.179 Area 733719
Q 588.80>419.00 3.29e5



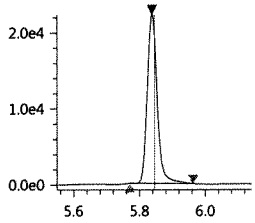
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.833 Area 399388
ISTD 530.90>169.15 1.90e5



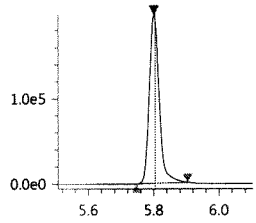
N-EtFOSA-d9
Conc 3.3800
RT 5.833 Area 399388
Q 530.90>169.15 1.90e5



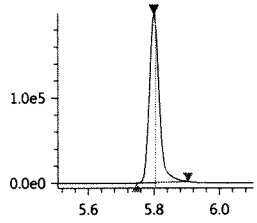
N-EtFOSA
Conc 3.1979
RT 5.838 Area 47229
Q 526.90>169.10 2.24e4



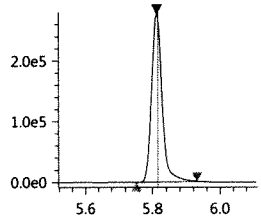
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.801 Area 417744
ISTD 638.70>59.10 1.99e5



N-EtFOSE-d9
Conc 3.0204
RT 5.801 Area 417744
Q 638.70>59.10 1.99e5



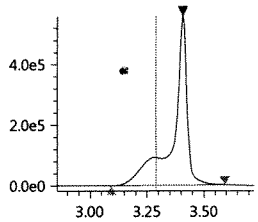
N-EtFOSE
Conc 4.4798
RT 5.812 Area 587283
Q 630.00>58.90 2.80e5



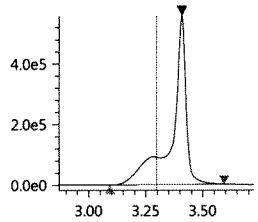
072617_121

Sample ID: KQ1710166-02 DLCS
Date acquired: 7/26/2017 12:43:14 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b2\072617_121.lcd
Vial: 12 | Inj. Volume: 15.0000uL | Tray: 2

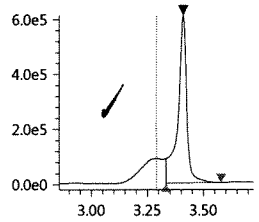
PFBA-13C_IS
Conc 5.0000
RT 3.409 Area 2428697
ISTD 216.90>172.15 5.60e5



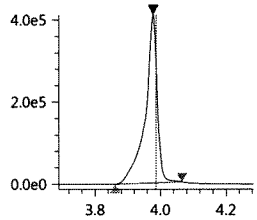
PFBA-13C
Conc 4.9607
RT 3.409 Area 2428697
Q 216.90>172.15 5.60e5



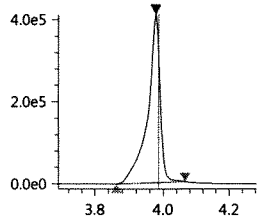
PFBA
Conc 2.7439
RT 3.410 Area 1715260
Q 213.00>169.10 6.16e5



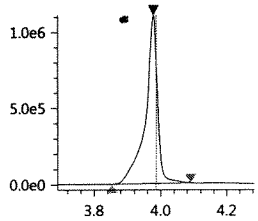
PFPeA-13C_IS
Conc 5.0000
RT 3.977 Area 1031800
ISTD 267.90>223.00 4.13e5



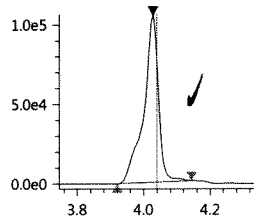
PFPeA-13C
Conc 4.2620
RT 3.977 Area 1031800
Q 267.90>223.00 4.13e5



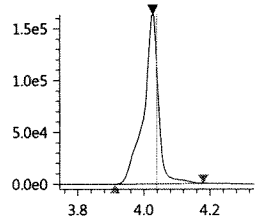
PFPeA
Conc 4.1385
RT 3.978 Area 2802282
Q 263.05>219.10 1.11e6



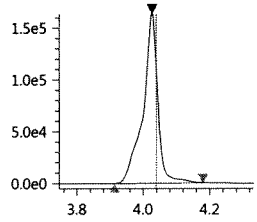
PFBS_1
Conc 3.7200
RT 4.028 Area 319173
Q 299.00>80.00 1.07e5



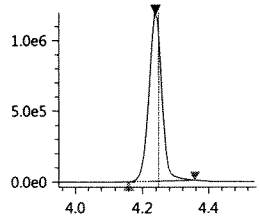
PFBS-13C
Conc 2.9644
RT 4.027 Area 506374
Q 301.80>80.00 1.63e5



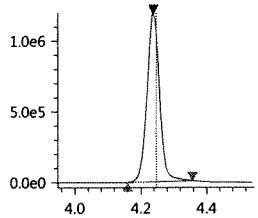
PFBS-13C_IS
Conc 5.0000
RT 4.027 Area 506374
ISTD 301.80>80.00 1.63e5



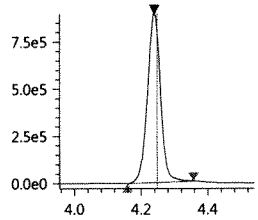
PFHxA-13C_IS
Conc 5.0000
RT 4.239 Area 3187318
ISTD 314.90>270.10 1.20e6



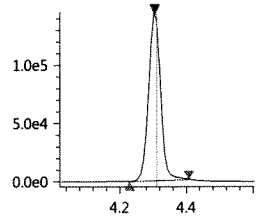
PFHxA-13C
Conc 4.6375
RT 4.239 Area 3187318
Q 314.90>270.10 1.20e6



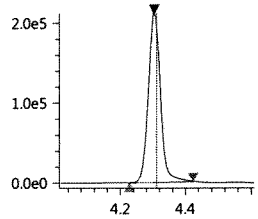
PFHxA
Conc 3.8929
RT 4.239 Area 2441188
Q 313.00>269.00 8.99e5



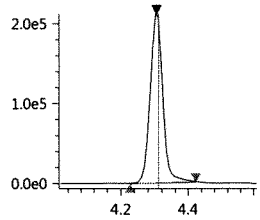
HPFO_DA
Conc 3.4864
RT 4.305 Area 362368
Q 329.00>169.00 1.46e5



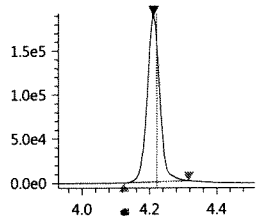
HFPO_DA-13C_IS
Conc 5.0000
RT 4.305 Area 546394
ISTD 332.00>286.80 2.12e5



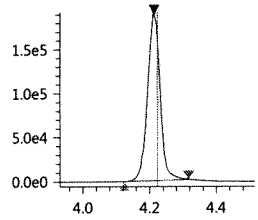
HFPO_DA-13C
Conc 3.2072
RT 4.305 Area 546394
Q 332.00>286.80 2.12e5



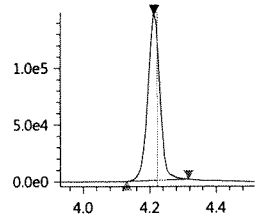
4_2-FTS-13C_IS
Conc 5.0000
RT 4.213 Area 496790
ISTD 328.80>309.05 1.93e5



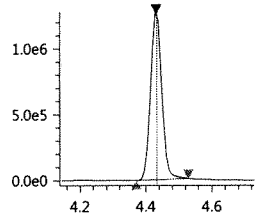
4_2-FTS-13C
Conc 4.4742
RT 4.213 Area 496790
Q 328.80>309.05 1.93e5



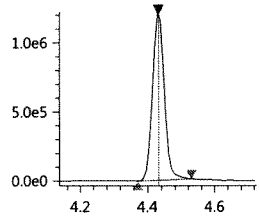
4_2-FTS_1
Conc 2.9799
RT 4.213 Area 377050
Q 327.00>307.05 1.49e5



PFHpA
Conc 4.7146
RT 4.431 Area 3008344
Q 362.90>319.00 1.28e6



PFHpA-13C_IS
Conc 5.0000
RT 4.431 Area 2904322
ISTD 366.90>322.10 1.22e6



JUL 27 2017

Validation Report

Data File: J:\LCMS06\Data\072717_b1\072717_122
Lab ID: KQ1710166-02
RunType: DLCS
Matrix: Water

Date Acquired: 7/27/17 13:27
Batch ID: 555244
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: JT 7/28/17

Secondary Review: JUL 28 2017

Printed: 7/27/17 15:35
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072717_b1\072717_122	**Instrument:**	K-LCMS-06
Acqu Date:	7/27/17 13:27	**Vial:**	3
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ1710166-02	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	555244	**Prep Lot:**	293672	**Report Group:**	KQ1710166
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	7/25/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700133
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.691	452241	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.408	2372228	3.8723	77	19 - 126	N
13C2-PFHxA	4.238	3253579	3.9912	80	10 - 151	N
18O2-PFHxS	4.427	375968	3.4096	68	20 - 128	N
13C2-6:2 FTS	4.591	375359	3.1835	64	10 - 187	N
13C4-PFOA	4.603	3553960	3.7502	75	13 - 142	N
13C5-PFNA	4.783	3472009	3.9973	80	15 - 143	N
13C4-PFOS	4.766	426130	3.5341	71	11 - 131	Y
13C2-PFDA	4.971	2694903	3.6153	72	25 - 129	N
13C2-PFUnDA	5.160	2996615	3.5775	72	16 - 129	N
13C2-PFDoDA	5.343	3692215	3.5324	71	17 - 114	N
D7-MeFOSE	5.663	307911	3.4316	69	32 - 113	N
D9-EtFOSE	5.798	392396	3.7128	74	20 - 113	N
D5-EtFOSA	5.831	383739	3.0890	62	19 - 103	N
13C2-8:2 FTS	4.970	378381	3.4792	70	50 - 150	N
13C2-PFTeDA	5.660	2705598	3.2707	65	50 - 150	N
13C4-PFHpA	4.429	2725282	3.2966	66	50 - 150	N
13C5-PFPeA	3.976	1041036	3.4983	70	50 - 150	N
13C3-PFBS	4.025	636865	3.3974	68	50 - 150	N
13C8-FOSA	5.302	1046554	3.3268	67	50 - 150	N

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.409	2316189	3.8626	124		N
Perfluoropentanoic acid (PFPeA)	3.976	2801623	4.4021	141		N

Data File:	J:\LCMS06\Data\072717_b1\072717_122	**Instrument:**	K-LCMS-06
Acqu Date:	7/27/17 13:27	**Vial:**	3
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ1710166-02	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.025	387171	3.1976	102		N
Perfluorohexanoic acid (PFHxA)	4.238	2673755	4.0203	129		N
Perfluoroheptanoic acid (PFHpA)	4.430	2779793	4.8055	154		N
Perfluorohexane sulfonic acid (PFHxS)	4.425	314809	2.8010	89.6		N
Perfluorooctanoic acid (PFOA)	4.603	3703581	3.8948	125		N
Perfluoroheptane sulfonic acid (PFHpS)	4.592	267726	3.6782	118		N
Perfluorononanoic acid (PFNA)	4.783	2982157	4.0993	131		N
Perfluorooctane sulfonic acid (PFOS)	4.767	235910	3.4764	111	Y	~~N~~
Perfluorodecanoic acid (PFDA)	4.972	2724985	3.7323	119		N
Perfluoroundecanoic acid (PFUnDA)	5.160	2680460	3.9268	126		N
Perfluorooctane sulfonamide (FOSA)	5.302	1011832	3.3079	106		N
Perfluorododecanoic acid (PFDoDA)	5.343	1912152	3.8324	123		N
Perfluorotridecanoic acid (PFTrDA)	5.510	2448304	4.1371	132		N
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.693	276132	2.7436	87.8		N
N-Methyl perfluorooctane sulfonamidoethanol	5.672	431428	3.3166	106		N
Perfluorotetradecanoic acid (PFTeDA)	5.660	1195695	4.2895	137		N
N-Ethyl perfluorooctane sulfonamidoethanol	5.810	556577	3.5003	112		N
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.837	46127	3.1631	101		N
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.969	234952	2.9975	95.9		N
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.591	295249	3.1131	99.6		N
Perfluorodecane sulfonic acid (PFDS)	5.135	236032	3.0180	96.6		Y

Prep Amount:	125.0000 mL	**Dilution:**	1
Prep Final Amount:	4.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 15:45

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072717_122

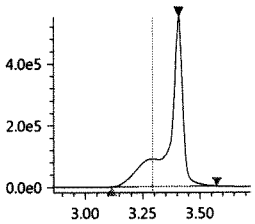
Sample ID: KQ1710166-02 ALS
Date acquired: 7/27/2017 1:27:23 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072717_b1\072717_122.lcd
Vial: 2 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.408	2372228	2372228	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.408	2372228	452241	1	3.8723	ng/mL	----	----	Auto
PFBA	3.409	2316189	2372228	2	3.8626	ng/mL	----	----	M
PFPeA-13C_IS	3.976	1041036	1041036	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.976	1041036	452241	1	3.4983	ng/mL	----	----	Auto
PFPeA	3.976	2801623	1041036	4	4.4021	ng/mL	----	----	Auto
PFBS_1	4.025	387171	636865	16	3.1976	ng/mL	----	----	Auto
PFBS-13C	4.025	636865	452241	1	3.3974	ng/mL	----	----	Auto
PFBS-13C_IS	4.025	636865	636865	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.238	3253579	3253579	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.238	3253579	452241	1	3.9912	ng/mL	----	----	Auto
PFHxA	4.238	2673755	3253579	6	4.0203	ng/mL	----	----	Auto
HPFO_DA	4.303	328280	527486	3	3.0879	ng/mL	----	----	Auto
HFPO_DA-13C_IS	4.303	527486	527486	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.303	527486	452241	1	2.9111	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.212	584411	584411	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.212	584411	452241	1	3.0894	ng/mL	----	----	Auto
4_2-FTS_1	4.211	448706	584411	5	2.9660	ng/mL	----	----	Auto
PFHpA	4.430	2779793	2725282	8	4.8055	ng/mL	----	----	Auto
PFHpA-13C_IS	4.429	2725282	2725282	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.429	2725282	452241	1	3.2966	ng/mL	----	----	Auto
PFHxS-18O_IS	4.427	375968	375968	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.427	375968	452241	1	3.4096	ng/mL	----	----	Auto
PFHxS_1	4.425	314809	375968	7	2.8010	ng/mL	----	----	Auto
6_2-FTS-13C	4.591	375359	452241	1	3.1835	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.591	375359	375359	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.591	295249	375359	10	3.1131	ng/mL	----	----	Auto
PFHpS_1	4.592	267726	375968	7	3.6782	ng/mL	----	----	Auto
PFOA-13C_IS	4.603	3553960	3553960	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.603	3553960	452241	1	3.7502	ng/mL	----	----	Auto
PFOA	4.603	3703581	3553960	9	3.8948	ng/mL	----	----	Auto
PFOS_1	4.767	235910	426130	13	3.4764	ng/mL	----	----	Auto
PFOS-13C_IS	4.766	426130	426130	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.766	426130	452241	1	3.5341	ng/mL	----	----	Auto
PFNA-13C_IS	4.783	3472009	3472009	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.783	3472009	452241	1	3.9973	ng/mL	----	----	Auto
PFNA	4.783	2982157	3472009	11	4.0993	ng/mL	----	----	Auto
PFDA-13C_IS	4.971	2694903	2694903	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.971	2694903	452241	1	3.6153	ng/mL	----	----	Auto
PFDA	4.972	2724985	2694903	12	3.7323	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.970	378381	378381	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.970	378381	452241	1	3.4792	ng/mL	----	----	Auto
8_2-FTS_1	4.969	234952	378381	15	2.9975	ng/mL	----	----	Auto
PFDS_1	5.135	236032	426130	13	3.0180	ng/mL	----	----	Auto
PFUnA	5.160	2680460	2996615	14	3.9268	ng/mL	----	----	Auto
PFUnA-13C_IS	5.160	2996615	2996615	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.160	2996615	452241	1	3.5775	ng/mL	----	----	Auto
PFDoA	5.343	1912152	3692215	17	3.8324	ng/mL	----	----	Auto
PFDoA-13C	5.343	3692215	452241	1	3.5324	ng/mL	----	----	Auto
PFDoA-13C_IS	5.343	3692215	3692215	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	5.351	202141	378381	15	3.4777	ng/mL	----	----	Auto
PFTrDA	5.510	2448304	2705598	22	4.1371	ng/mL	----	----	Auto
PFTeDA	5.660	1195695	2705598	22	4.2895	ng/mL	----	----	Auto
PFTeDA-13C	5.660	2705598	452241	1	3.2707	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.660	2705598	2705598	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.302	1046554	1046554	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.302	1046554	452241	1	3.3268	ng/mL	----	----	Auto
FOSA	5.302	1011832	1046554	18	3.3079	ng/mL	----	----	Auto
N-MeFOSAA	5.080	433755	729713	19	3.7856	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.078	729713	452241	1	3.3083	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.078	729713	729713	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.691	452241	452241	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.693	276132	307911	20	2.7436	ng/mL	----	----	Auto
N-MeFOSE-d7	5.663	307911	452241	1	3.4316	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.663	307911	307911	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	5.672	431428	307911	20	3.3166	ng/mL	----	----	Auto
N-EtFOSAA	5.182	410618	697192	21	3.3253	ng/mL	----	----	Auto

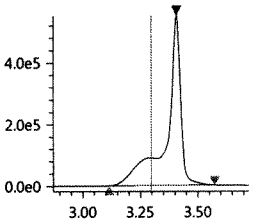
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.178	697192	697192	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.178	697192	452241	1	3.6146	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.831	383739	383739	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.831	383739	452241	1	3.0890	ng/mL	----	----	Auto
N-EtFOSA	5.837	46127	383739	23	3.1631	ng/mL	----	----	Auto
N-EtFOSE-d9_IS	5.798	392396	392396	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.798	392396	452241	1	3.7128	ng/mL	----	----	Auto
N-EtFOSE	5.810	556577	392396	24	3.5003	ng/mL	----	----	Auto

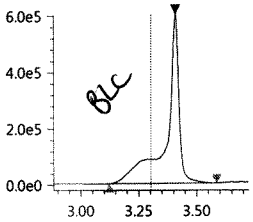
PFBA-13C_IS
Conc 5.0000
RT 3.408 Area 2372228
ISTD 216.90>172.15 5.52e5



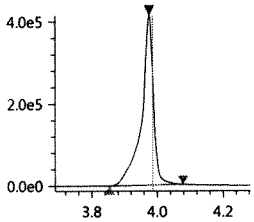
PFBA-13C
Conc 3.8723
RT 3.408 Area 2372228
Q 216.90>172.15 5.52e5



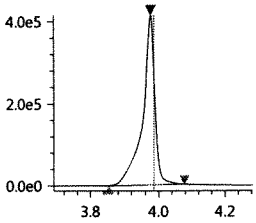
PFBA
Conc 3.8626
RT 3.409 Area 2316189
Q 213.00>169.10 6.07e5



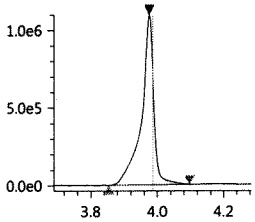
PFPeA-13C_IS
Conc 5.0000
RT 3.976 Area 1041036
ISTD 267.90>223.00 4.16e5



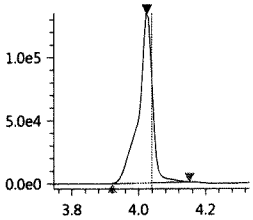
PFPeA-13C
Conc 3.4983
RT 3.976 Area 1041036
Q 267.90>223.00 4.16e5



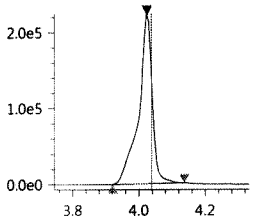
PFPeA
Conc 4.4021
RT 3.976 Area 2801623
Q 263.05>219.10 1.10e6



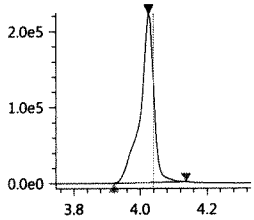
PFBS_1
Conc 3.1976
RT 4.025 Area 387171
Q 299.00>80.00 1.35e5



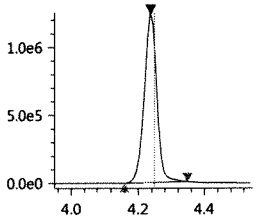
PFBS-13C
Conc 3.3974
RT 4.025 Area 636865
Q 301.80>80.00 2.25e5



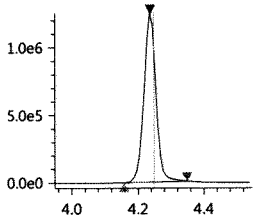
PFBS-13C_IS
Conc 5.0000
RT 4.025 Area 636865
ISTD 301.80>80.00 2.25e5



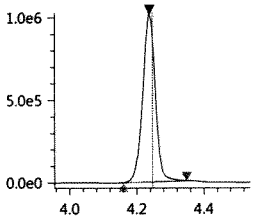
PFHxA-13C_IS
Conc 5.0000
RT 4.238 Area 3253579
ISTD 314.90>270.10 1.26e6



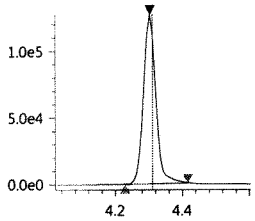
PFHxA-13C
Conc 3.9912
RT 4.238 Area 3253579
Q 314.90>270.10 1.26e6



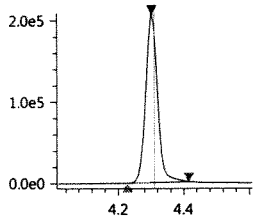
PFHxA
Conc 4.0203
RT 4.238 Area 2673755
Q 313.00>269.00 1.03e6



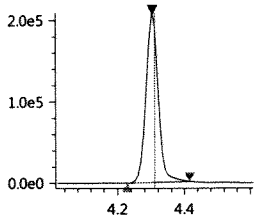
HPFO_DA
Conc 3.0879
RT 4.303 Area 328280
Q 329.00>169.00 1.28e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.303 Area 527486
ISTD 332.00>286.80 2.09e5

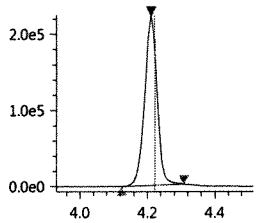


HFPO_DA-13C
Conc 2.9111
RT 4.303 Area 527486
Q 332.00>286.80 2.09e5

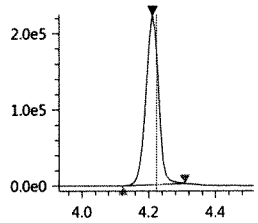


JUL 28 2017

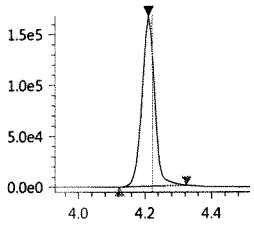
4_2-FTS-13C_IS
Conc 5.0000
RT 4.212 Area 584411
ISTD 328.80>309.05 2.25e5



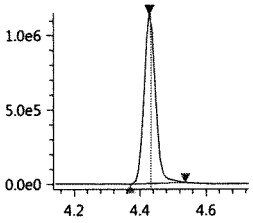
4_2-FTS-13C
Conc 3.0894
RT 4.212 Area 584411
Q 328.80>309.05 2.25e5



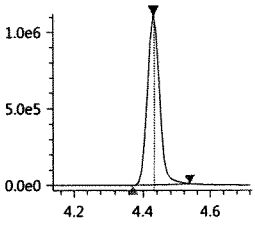
4_2-FTS_1
Conc 2.9660
RT 4.211 Area 448706
Q 327.00>307.05 1.69e5



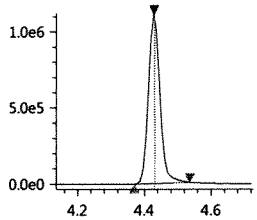
PFHpA
Conc 4.8055
RT 4.430 Area 2779793
Q 362.90>319.00 1.15e6



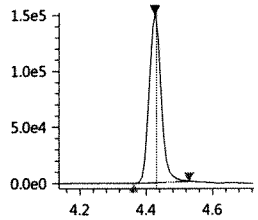
PFHpA-13C_IS
Conc 5.0000
RT 4.429 Area 2725282
ISTD 366.90>322.10 1.12e6



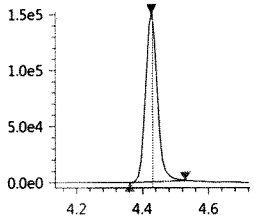
PFHpA-13C
Conc 3.2966
RT 4.429 Area 2725282
Q 366.90>322.10 1.12e6



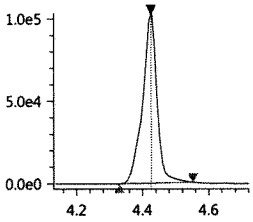
PFHxS-18O_IS
Conc 5.0000
RT 4.427 Area 375968
ISTD 402.70>84.05 1.52e5



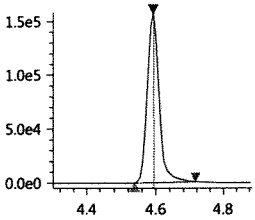
PFHxS-18O
Conc 3.4096
RT 4.427 Area 375968
Q 402.70>84.05 1.52e5



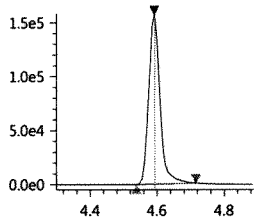
PFHxS_1
Conc 2.8010
RT 4.425 Area 314809
Q 399.00>80.00 1.04e5



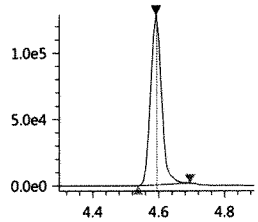
6_2-FTS-13C
Conc 3.1835
RT 4.591 Area 375359
Q 428.90>409.00 1.59e5



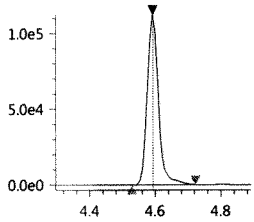
6_2-FTS-13C_IS
Conc 5.0000
RT 4.591 Area 375359
ISTD 428.90>409.00 1.59e5



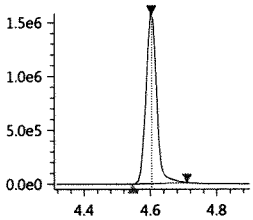
6_2-FTS_1
Conc 3.1131
RT 4.591 Area 295249
Q 427.00>407.00 1.29e5



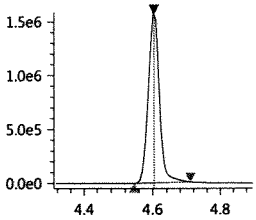
PFHpS_1
Conc 3.6782
RT 4.592 Area 267726
Q 449.00>80.15 1.13e5



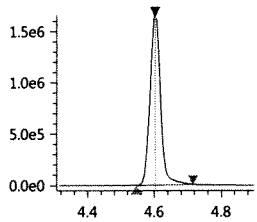
PFOA-13C_IS
Conc 5.0000
RT 4.603 Area 3553960
ISTD 416.80>372.05 1.59e6



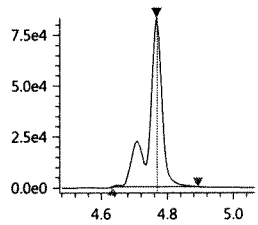
PFOA-13C
Conc 3.7502
RT 4.603 Area 3553960
Q 416.80>372.05 1.59e6



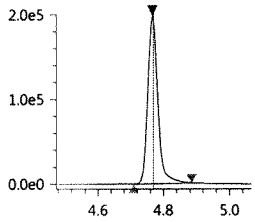
PFOA
Conc 3.8948
RT 4.603 Area 3703581
Q 413.00>369.00 1.66e6



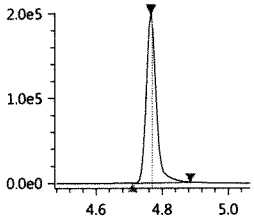
PFOS_1
Conc 3.4764
RT 4.767 Area 235910
Q 499.00>80.00 8.35e4



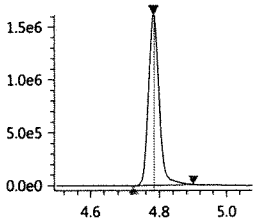
PFOS-13C_IS
Conc 5.0000
RT 4.766 Area 426130
ISTD 502.80>80.05 2.01e5



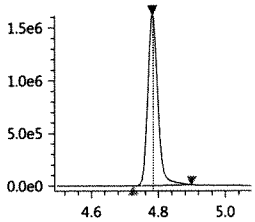
PFOS-13C
Conc 3.5341
RT 4.766 Area 426130
Q 502.80>80.05 2.01e5



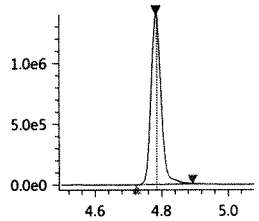
PFNA-13C_IS
Conc 5.0000
RT 4.783 Area 3472009
ISTD 467.80>423.00 1.62e6



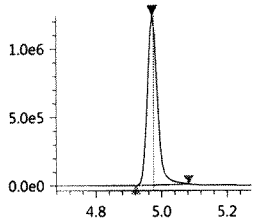
PFNA-13C
Conc 3.9973
RT 4.783 Area 3472009
Q 467.80>423.00 1.62e6



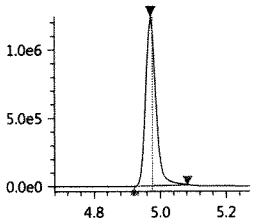
PFNA
Conc 4.0993
RT 4.783 Area 2982157
Q 463.00>418.90 1.40e6



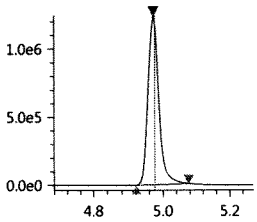
PFDA-13C_IS
Conc 5.0000
RT 4.971 Area 2694903
ISTD 514.80>469.95 1.24e6



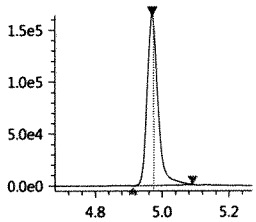
PFDA-13C
Conc 3.6153
RT 4.971 Area 2694903
Q 514.80>469.95 1.24e6



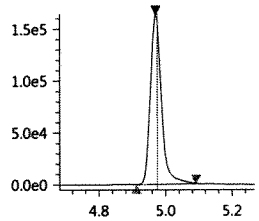
PFDA
Conc 3.7323
RT 4.972 Area 2724985
Q 513.00>468.80 1.25e6



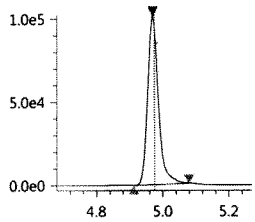
8_2-FTS-13C_IS
Conc 5.0000
RT 4.970 Area 378381
ISTD 528.80>509.00 1.65e5



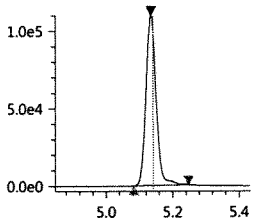
8_2-FTS-13C
Conc 3.4792
RT 4.970 Area 378381
Q 528.80>509.00 1.65e5



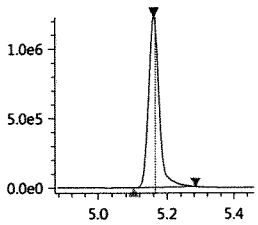
8_2-FTS_1
Conc 2.9975
RT 4.969 Area 234952
Q 526.90>506.90 1.03e5



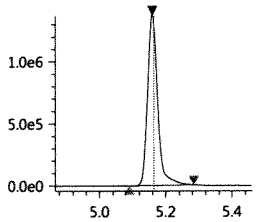
PFDS_1
Conc 3.0180
RT 5.135 Area 236032
Q 599.00>79.90 1.10e5



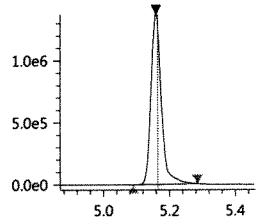
PFUnA
Conc 3.9268
RT 5.160 Area 2680460
Q 563.00>518.90 1.23e6



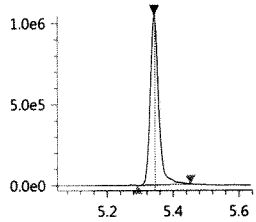
PFUnA-13C_IS
Conc 5.0000
RT 5.160 Area 2996615
ISTD 564.80>519.95 1.37e6



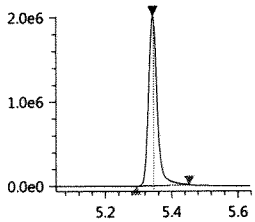
PFUnA-13C
Conc 3.5775
RT 5.160 Area 2996615
Q 564.80>519.95 1.37e6



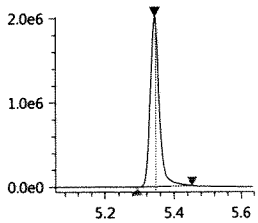
PFDoA
Conc 3.8324
RT 5.343 Area 1912152
Q 613.05>569.00 1.05e6



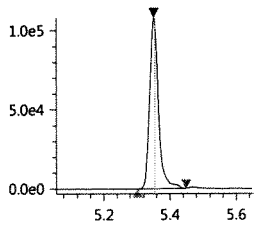
PFDoA-13C
Conc 3.5324
RT 5.343 Area 3692215
Q 614.80>569.95 2.02e6



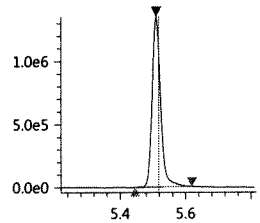
PFDoA-13C_IS
Conc 5.0000
RT 5.343 Area 3692215
ISTD 614.80>569.95 2.02e6



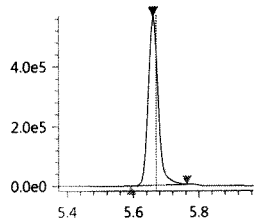
10_2-FtS_1
Conc 3.4777
RT 5.351 Area 202141
Q 627.00>606.95 1.08e5



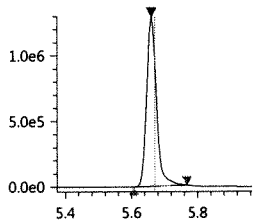
PFTrDA
Conc 4.1371
RT 5.510 Area 2448304
Q 663.00>618.90 1.35e6



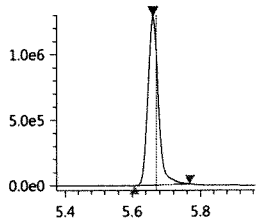
PFTeDA
Conc 4.2895
RT 5.660 Area 1195695
Q 713.40>669.00 5.72e5



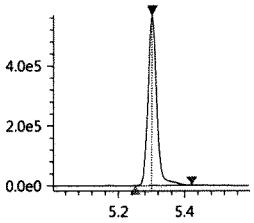
PFTeDA-13C
Conc 3.2707
RT 5.660 Area 2705598
Q 714.70>669.90 1.30e6



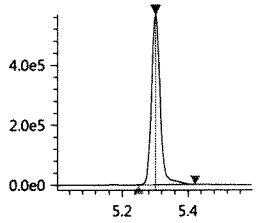
PFTeDA-13C_IS
Conc 5.0000
RT 5.660 Area 2705598
ISTD 714.70>669.90 1.30e6



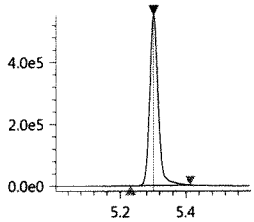
FOSA-13C_IS
Conc 5.0000
RT 5.302 Area 1046554
ISTD 506.00>78.05 5.70e5



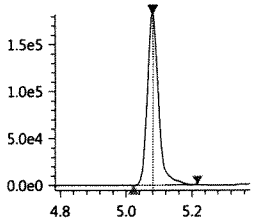
FOSA-13C
Conc 3.3268
RT 5.302 Area 1046554
Q 506.00>78.05 5.70e5



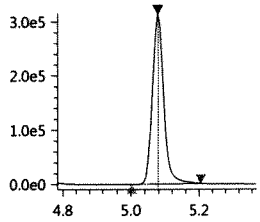
FOSA
Conc 3.3079
RT 5.302 Area 1011832
Q 498.00>78.00 5.53e5



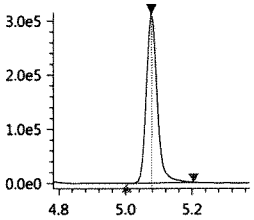
N-MeFOSAA
Conc 3.7856
RT 5.080 Area 433755
Q 570.20>419.00 1.82e5



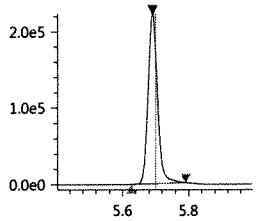
N-MeFOSAA-d3
Conc 3.3083
RT 5.078 Area 729713
Q 572.80>419.05 3.16e5



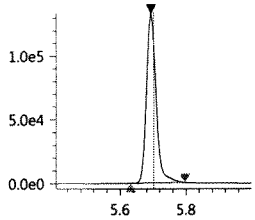
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.078 Area 729713
ISTD 572.80>419.05 3.16e5



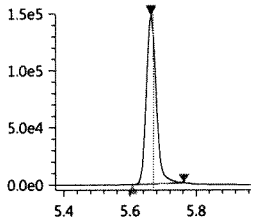
N-MeFOSA_IS
Conc 5.0000
RT 5.691 Area 452241
ISTD 514.90>168.90 2.24e5



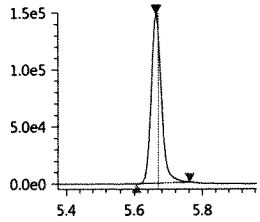
N-MeFOSA
Conc 2.7436
RT 5.693 Area 276132
Q 512.00>169.10 1.34e5



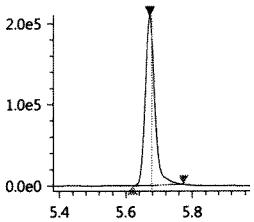
N-MeFOSE-d7
Conc 3.4316
RT 5.663 Area 307911
Q 622.70>59.10 1.50e5



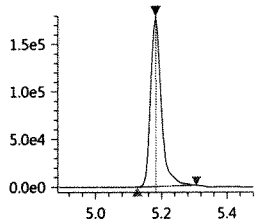
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.663 Area 307911
ISTD 622.70>59.10 1.50e5



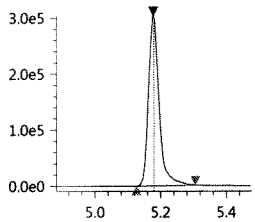
N-MeFOSE
Conc 3.3166
RT 5.672 Area 431428
Q 616.00>59.00 2.11e5



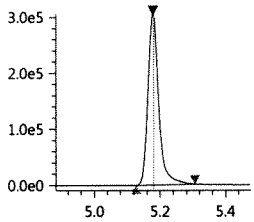
N-EtFOSAA
Conc 3.3253
RT 5.182 Area 410618
Q 584.20>418.95 1.80e5



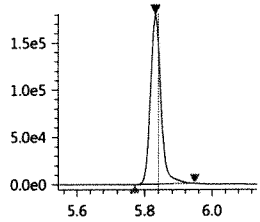
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.178 Area 697192
ISTD 588.80>419.00 3.06e5



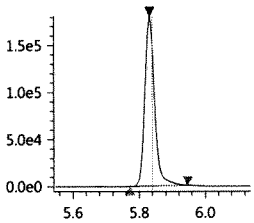
N-EtFOSAA-d5
Conc 3.6146
RT 5.178 Area 697192
Q 588.80>419.00 3.06e5



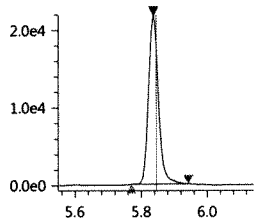
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.831 Area 383739
ISTD 530.90>169.15 1.82e5



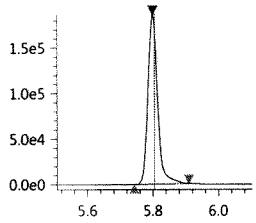
N-EtFOSA-d9
Conc 3.0890
RT 5.831 Area 383739
Q 530.90>169.15 1.82e5



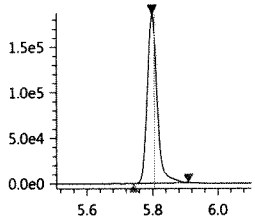
N-EtFOSA
Conc 3.1631
RT 5.837 Area 46127
Q 526.90>169.10 2.20e4



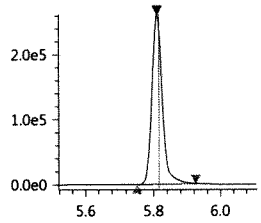
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.798 Area 392396
ISTD 638.70>59.10 1.88e5



N-EtFOSE-d9
Conc 3.7128
RT 5.798 Area 392396
Q 638.70>59.10 1.88e5



N-EtFOSE
Conc 3.5003
RT 5.810 Area 556577
Q 630.00>58.90 2.63e5



Insight Report

Before 5

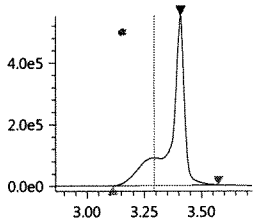
Printed at 7/27/2017 3:05:16 PM

JT 7/28/17

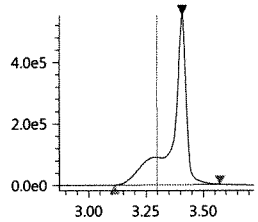
072717_122

Sample ID: KQ1710166-02 DL5
Date acquired: 7/27/2017 1:27:23 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072717_b1\072717_122.lcd
Vial: 2 | Inj. Volume: 15.0000uL | Tray: 2

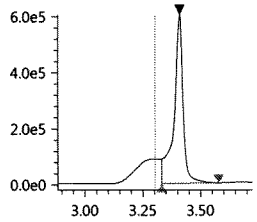
PFBA-13C_IS
Conc 5.0000
RT 3.408 Area 2372228
ISTD 216.90>172.15 5.52e5



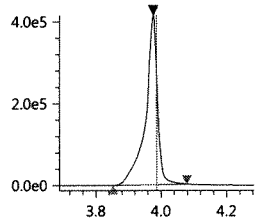
PFBA-13C
Conc 3.8723
RT 3.408 Area 2372228
Q 216.90>172.15 5.52e5



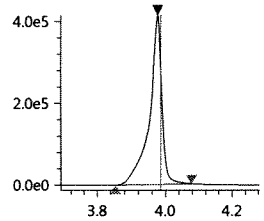
PFBA
Conc 2.8039
RT 3.409 Area 1681361
Q 213.00>169.10 6.07e5



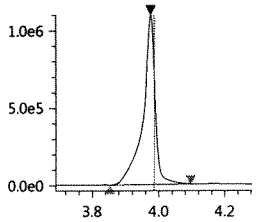
PFPeA-13C_IS
Conc 5.0000
RT 3.976 Area 1041036
ISTD 267.90>223.00 4.16e5



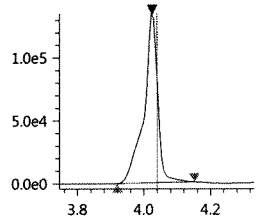
PFPeA-13C
Conc 3.4983
RT 3.976 Area 1041036
Q 267.90>223.00 4.16e5



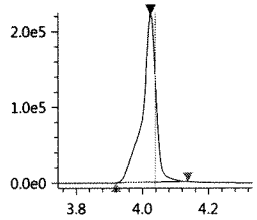
PFPeA
Conc 4.4021
RT 3.976 Area 2801623
Q 263.05>219.10 1.10e6



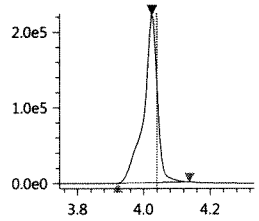
PFBS_1
Conc 3.1976
RT 4.025 Area 387171
Q 299.00>80.00 1.35e5



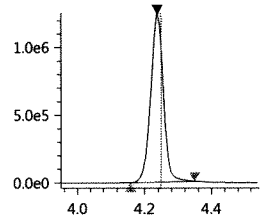
PFBS-13C
Conc 3.3974
RT 4.025 Area 636865
Q 301.80>80.00 2.25e5



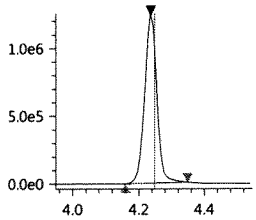
PFBS-13C_IS
Conc 5.0000
RT 4.025 Area 636865
ISTD 301.80>80.00 2.25e5



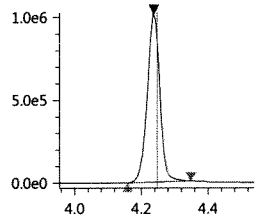
PFHxA-13C_IS
Conc 5.0000
RT 4.238 Area 3253579
ISTD 314.90>270.10 1.26e6



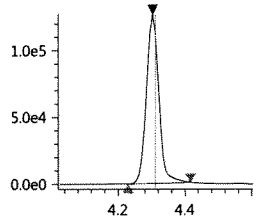
PFHxA-13C
Conc 3.9912
RT 4.238 Area 3253579
Q 314.90>270.10 1.26e6



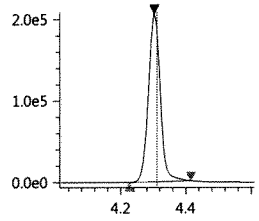
PFHxA
Conc 4.0203
RT 4.238 Area 2673755
Q 313.00>269.00 1.03e6



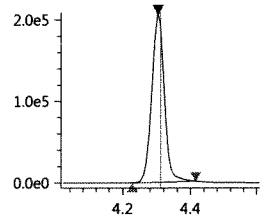
HPFO_DA
Conc 3.0879
RT 4.303 Area 328280
Q 329.00>169.00 1.28e5



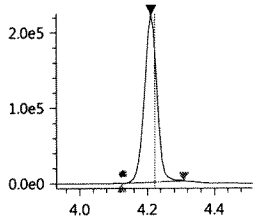
HFPO_DA-13C_IS
Conc 5.0000
RT 4.303 Area 527486
ISTD 332.00>286.80 2.09e5



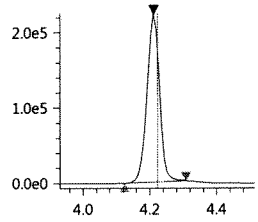
HFPO_DA-13C
Conc 2.9111
RT 4.303 Area 527486
Q 332.00>286.80 2.09e5



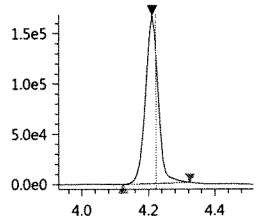
4_2-FTS-13C_IS
Conc 5.0000
RT 4.212 Area 584411
ISTD 328.80>309.05 2.25e5



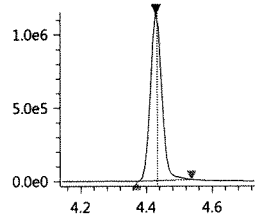
4_2-FTS-13C
Conc 3.0894
RT 4.212 Area 584411
Q 328.80>309.05 2.25e5



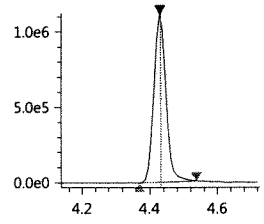
4_2-FTS_1
Conc 2.9660
RT 4.211 Area 448706
Q 327.00>307.05 1.69e5



PFHpA
Conc 4.8055
RT 4.430 Area 2779793
Q 362.90>319.00 1.15e6



PFHpA-13C_IS
Conc 5.0000
RT 4.429 Area 2725282
ISTD 366.90>322.10 1.12e6



JUL 28 2017

Validation Report

Data File: J:\LCMS06\Data\072817_b1\072817_122
Lab ID: KQ1710166-02
RunType: DLCS
Matrix: Water

Date Acquired: 7/28/17 12:28
Batch ID: 555465
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
Surrogates	X	

Primary Review: JT 7/28/17

Secondary Review: JUL 28 2017

Printed: 7/28/17 14:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072817_b1\072817_122	**Instrument:**	K-LCMS-06
Acqu Date:	7/28/17 12:28	**Vial:**	3
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ1710166-02	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	555465	**Prep Lot:**	293672	**Report Group:**	KQ1710166
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	7/25/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.692	457636	5.0000	NA

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.406	2248323	3.9644	79	19 - 126	N
13C2-PFHxA	4.238	3174070	4.1902	84	10 - 151	N
18O2-PFHxS	4.427	373225	3.5230	70	20 - 128	
13C2-6:2 FTS	4.591	289222	4.4055	88	10 - 187	
13C4-PFOA	4.602	3604119	4.0329	81	13 - 142	N
13C5-PFNA	4.782	3501838	3.9720	79	15 - 143	N
13C4-PFOS	4.765	471783	3.8914	78	11 - 131	N
13C2-PFDA	4.970	2992418	3.8690	77	25 - 129	N
13C2-PFUnDA	5.159	3237696	3.7797	76	16 - 129	N
13C2-PFDoDA	5.342	4125396	3.7600	75	17 - 114	N
D7-MeFOSE	5.665	345014	3.7339	75	32 - 113	N
D9-EtFOSE	5.800	414512	4.3109	86	20 - 113	N
D5-EtFOSA	5.832	395575	3.1924	64	19 - 103	N
13C2-8:2 FTS	4.969	283442	4.4028	88	50 - 150	N
13C2-PFTeDA	5.659	2895750	3.8569	77	50 - 150	N
13C4-PFHpA	4.429	2639289	3.8046	76	50 - 150	N
13C5-PFPeA	3.975	1005050	3.9553	79	50 - 150	N
13C3-PFBS	4.023	612723	3.7322	75	50 - 150	N
13C8-FOSA	5.301	1093243	3.5966	72	50 - 150	N

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.407	2233227	4.6879	150		N
Perfluoropentanoic acid (PFPeA)	3.975	2672231	4.8329	155		N

Printed: 7/28/17 14:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072817_b1\072817_122	**Instrument:**	K-LCMS-06
Acqu Date:	7/28/17 12:28	**Vial:**	3
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ1710166-02	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.024	366958	3.4093	109		N
Perfluorohexanoic acid (PFHxA)	4.238	2603952	4.9863	160		N
Perfluoroheptanoic acid (PFHpA)	4.430	2590067	5.1827	166		N
Perfluorohexane sulfonic acid (PFHxS)	4.425	314990	3.4631	111		Y
Perfluorooctanoic acid (PFOA)	4.602	3626670	4.4965	144		N
Perfluoroheptane sulfonic acid (PFHpS)	4.591	277041	3.9497	126		N
Perfluorononanoic acid (PFNA)	4.782	3092378	5.2330	167		N
Perfluorooctane sulfonic acid (PFOS)	4.765	241327	3.4005	109		N
Perfluorodecanoic acid (PFDA)	4.970	2948191	4.4159	141		N
Perfluoroundecanoic acid (PFUnDA)	5.159	2694314	4.8067	154		N
Perfluorooctane sulfonamide (FOSA)	5.301	1069994	3.3447	107		N
Perfluorododecanoic acid (PFDoDA)	5.342	2105559	4.7007	150		N
Perfluorotridecanoic acid (PFTrDA)	5.509	2621972	4.4711	143		N
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.695	276948	2.4525	78.5		N
N-Methyl perfluorooctane sulfonamidoethanol	5.673	478213	3.3871	108		N
Perfluorotetradecanoic acid (PFTeDA)	5.659	1224387	4.7154	151		N
N-Ethyl perfluorooctane sulfonamidoethanol	5.811	576769	2.9615	94.8		N
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.837	47822	2.8304	90.6		N
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.967	178170	3.1039	99.3		N
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.591	222972	3.4775	111		Y
Perfluorodecane sulfonic acid (PFDS)	5.133	231287	3.1192	99.8		Y

Prep Amount:	125.0000 mL	**Dilution:**	1
Prep Final Amount:	4.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/28/17 14:32

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072817_122

Sample ID: KQ1710166-02 DLCS
Date acquired: 7/28/2017 12:28:33 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b1\072817_122.lcd
Vial: 2 | Inj. Volume: 15.0000uL | Tray: 2

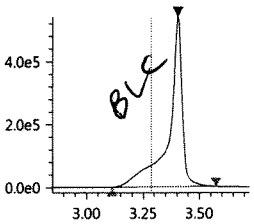
Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.406	2248323	2248323	2	5.0000	ng/mL	5	100.00	M
PFBA-13C	3.406	2248323	457636	1	3.9644	ng/mL	5	79.29	M
PFBA	3.407	2233227	2248323	2	4.6879	ng/mL	5	93.76	Auto
PFPeA-13C_IS	3.975	1005050	1005050	4	5.0000	ng/mL	5	100.00	Auto
PFPeA-13C	3.975	1005050	457636	1	3.9553	ng/mL	5	79.11	Auto
PFPeA	3.975	2672231	1005050	4	4.8329	ng/mL	5	96.66	Auto
PFBS_1	4.024	366958	612723	16	3.4093	ng/mL	4.43685	76.84	Auto
PFBS-13C	4.023	612723	457636	1	3.7322	ng/mL	5	74.64	Auto
PFBS-13C_IS	4.023	612723	612723	16	5.0000	ng/mL	5	100.00	Auto
PFHxA-13C_IS	4.238	3174070	3174070	6	5.0000	ng/mL	5	100.00	Auto
PFHxA-13C	4.238	3174070	457636	1	4.1902	ng/mL	5	83.80	Auto
PFHxA	4.238	2603952	3174070	6	4.9863	ng/mL	5	99.73	Auto
HPFO_DA	4.303	319425	536374	3	3.5949	ng/mL	5	71.90	Auto
HFPO_DA-13C_IS	4.303	536374	536374	3	5.0000	ng/mL	5	100.00	Auto
HFPO_DA-13C	4.303	536374	457636	1	2.7569	ng/mL	5	55.14	Auto
4_2-FTS-13C_IS	4.212	354158	354158	5	5.0000	ng/mL	5	100.00	Auto
4_2-FTS-13C	4.212	354158	457636	1	3.8334	ng/mL	5	76.67	Auto
4_2-FTS_1	4.212	271275	354158	5	3.3263	ng/mL	4.68609	70.98	Auto
PFHpA	4.430	2590067	2639289	8	5.1827	ng/mL	5	103.65	Auto
PFHpA-13C_IS	4.429	2639289	2639289	8	5.0000	ng/mL	5	100.00	Auto
PFHpA-13C	4.429	2639289	457636	1	3.8046	ng/mL	5	76.09	Auto
PFHxS-18O_IS	4.427	373225	373225	7	5.0000	ng/mL	5	100.00	Auto
PFHxS-18O	4.427	373225	457636	1	3.5230	ng/mL	5	70.46	Auto
PFHxS_1	4.425	314990	373225	7	3.4631	ng/mL	4.565377	75.86	M
6_2-FTS-13C	4.591	289222	457636	1	4.4055	ng/mL	5	88.11	Auto
6_2-FTS-13C_IS	4.591	289222	289222	10	5.0000	ng/mL	5	100.00	Auto
6_2-FTS_1	4.591	222972	289222	10	3.4775	ng/mL	4.755838	73.12	M
PFHpS_1	4.591	277041	373225	7	3.9497	ng/mL	4.767191	82.85	M
PFOA-13C_IS	4.602	3604119	3604119	9	5.0000	ng/mL	5	100.00	Auto
PFOA-13C	4.602	3604119	457636	1	4.0329	ng/mL	5	80.66	Auto
PFOA	4.602	3626670	3604119	9	4.4965	ng/mL	5	89.93	Auto
PFOS_1	4.765	241327	471783	13	3.4005	ng/mL	4.646145	73.19	Auto
PFOS-13C_IS	4.765	471783	471783	13	5.0000	ng/mL	5	100.00	Auto
PFOS-13C	4.765	471783	457636	1	3.8914	ng/mL	5	77.83	Auto
PFNA-13C_IS	4.782	3501838	3501838	11	5.0000	ng/mL	5	100.00	Auto
PFNA-13C	4.782	3501838	457636	1	3.9720	ng/mL	5	79.44	Auto
PFNA	4.782	3092378	3501838	11	5.2330	ng/mL	5	104.66	Auto
PFDA-13C_IS	4.970	2992418	2992418	12	5.0000	ng/mL	5	100.00	Auto
PFDA-13C	4.970	2992418	457636	1	3.8690	ng/mL	5	77.38	Auto
PFDA	4.970	2948191	2992418	12	4.4159	ng/mL	5	88.32	Auto
8_2-FTS-13C_IS	4.969	283442	283442	15	5.0000	ng/mL	5	100.00	Auto
8_2-FTS-13C	4.969	283442	457636	1	4.4028	ng/mL	5	88.06	Auto
8_2-FTS_1	4.967	178170	283442	15	3.1039	ng/mL	4.800223	64.66	Auto
PFDS_1	5.133	231287	471783	13	3.1192	ng/mL	4.823334	64.67	Auto
PFUnA	5.159	2694314	3237696	14	4.8067	ng/mL	5	96.13	Auto
PFUnA-13C_IS	5.159	3237696	3237696	14	5.0000	ng/mL	5	100.00	Auto
PFUnA-13C	5.159	3237696	457636	1	3.7797	ng/mL	5	75.59	Auto
PFDoA	5.342	2105559	4125396	17	4.7007	ng/mL	5	94.01	Auto
PFDoA-13C	5.342	4125396	457636	1	3.7600	ng/mL	5	75.20	Auto
PFDoA-13C_IS	5.342	4125396	4125396	17	5.0000	ng/mL	5	100.00	Auto
10_2-FtS_1	5.351	168915	283442	15	3.5638	ng/mL	4.830956	73.77	Auto
PFTrDA	5.509	2621972	2895750	22	4.4711	ng/mL	5	89.42	Auto
PFTeDA	5.659	1224387	2895750	22	4.7154	ng/mL	5	94.31	Auto
PFTeDA-13C	5.659	2895750	457636	1	3.8569	ng/mL	5	77.14	Auto
PFTeDA-13C_IS	5.659	2895750	2895750	22	5.0000	ng/mL	5	100.00	Auto
FOSA-13C_IS	5.301	1093243	1093243	18	5.0000	ng/mL	5	100.00	Auto
FOSA-13C	5.301	1093243	457636	1	3.5966	ng/mL	5	71.93	Auto
FOSA	5.301	1069994	1093243	18	3.3447	ng/mL	5	66.89	Auto
N-MeFOSAA	5.079	401957	668049	19	3.9491	ng/mL	5	78.98	Auto
N-MeFOSAA-d3	5.076	668049	457636	1	3.8992	ng/mL	5	77.98	Auto
N-MeFOSAA-d3_IS	5.076	668049	668049	19	5.0000	ng/mL	5	100.00	Auto
N-MeFOSA_IS	5.692	457636	457636	1	5.0000	ng/mL	5	100.00	Auto
N-MeFOSA	5.695	276948	345014	20	2.4525	ng/mL	5	49.05	Auto
N-MeFOSE-d7	5.665	345014	457636	1	3.7339	ng/mL	5	74.68	Auto
N-MeFOSE-d7_IS	5.665	345014	345014	20	5.0000	ng/mL	5	100.00	Auto
N-MeFOSE	5.673	478213	345014	20	3.3871	ng/mL	5	67.74	Auto
N-EtFOSAA	5.181	399904	623712	21	3.9013	ng/mL	5	78.03	Auto

JT

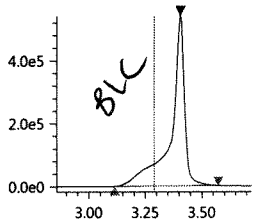
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.177	623712	623712	21	5.0000	ng/mL	5	100.00	Auto
N-EtFOSAA-d5	5.177	623712	457636	1	3.7410	ng/mL	5	74.82	Auto
N-EtFOSA-d9_IS	5.832	395575	395575	23	5.0000	ng/mL	5	100.00	Auto
N-EtFOSA-d9	5.832	395575	457636	1	3.1924	ng/mL	5	63.85	Auto
N-EtFOSA	5.837	47822	395575	23	2.8304	ng/mL	5	56.61	Auto
N-EtFOSE-d9_IS	5.800	414512	414512	24	5.0000	ng/mL	5	100.00	Auto
N-EtFOSE-d9	5.800	414512	457636	1	4.3109	ng/mL	5	86.22	Auto
N-EtFOSE	5.811	576769	414512	24	2.9615	ng/mL	5	59.23	Auto

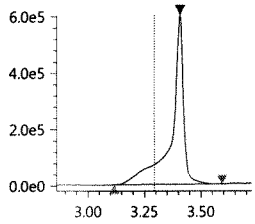
PFBA-13C_IS
Conc 5.0000
RT 3.406 Area 2248323
ISTD 216.90>172.15 5.42e5



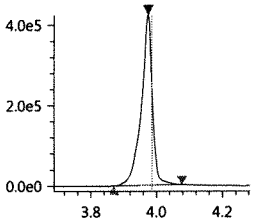
PFBA-13C
Conc 3.9644
RT 3.406 Area 2248323
Q 216.90>172.15 5.42e5



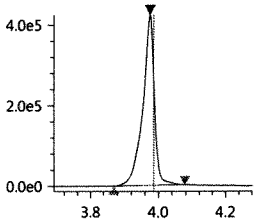
PFBA
Conc 4.6879
RT 3.407 Area 2233227
Q 213.00>169.10 6.07e5



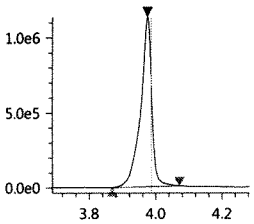
PFPeA-13C_IS
Conc 5.0000
RT 3.975 Area 1005050
ISTD 267.90>223.00 4.25e5



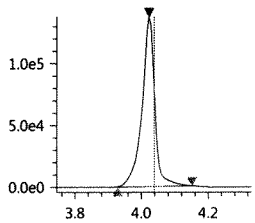
PFPeA-13C
Conc 3.9553
RT 3.975 Area 1005050
Q 267.90>223.00 4.25e5



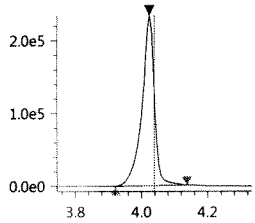
PFPeA
Conc 4.8329
RT 3.975 Area 2672231
Q 263.05>219.10 1.14e6



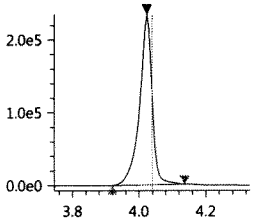
PFBS_1
Conc 3.4093
RT 4.024 Area 366958
Q 299.00>80.00 1.38e5



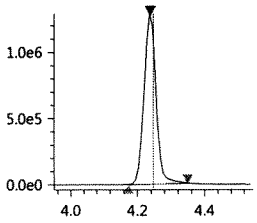
PFBS-13C
Conc 3.7322
RT 4.023 Area 612723
Q 301.80>80.00 2.35e5



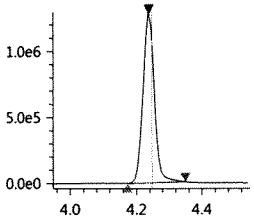
PFBS-13C_IS
Conc 5.0000
RT 4.023 Area 612723
ISTD 301.80>80.00 2.35e5



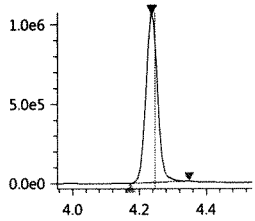
PFHxA-13C_IS
Conc 5.0000
RT 4.238 Area 3174070
ISTD 314.90>270.10 1.29e6



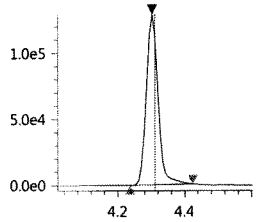
PFHxA-13C
Conc 4.1902
RT 4.238 Area 3174070
Q 314.90>270.10 1.29e6



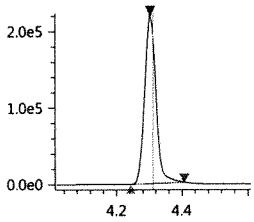
PFHxA
Conc 4.9863
RT 4.238 Area 2603952
Q 313.00>269.00 1.08e6



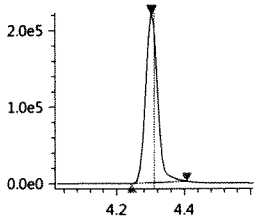
HPFO_DA
Conc 3.5949
RT 4.303 Area 319425
Q 329.00>169.00 1.29e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.303 Area 536374
ISTD 332.00>286.80 2.24e5

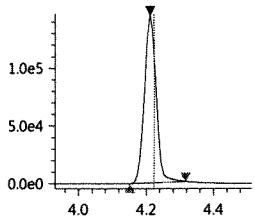


HFPO_DA-13C
Conc 2.7569
RT 4.303 Area 536374
Q 332.00>286.80 2.24e5

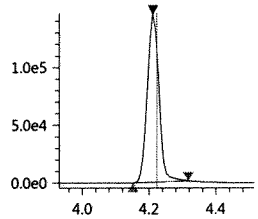


JUL 28 2017

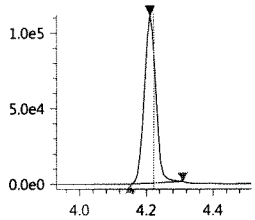
4_2-FTS-13C_IS
Conc 5.0000
RT 4.212 Area 354158
ISTD 328.80>309.05 1.47e5



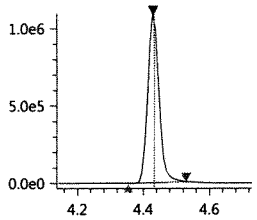
4_2-FTS-13C
Conc 3.8334
RT 4.212 Area 354158
Q 328.80>309.05 1.47e5



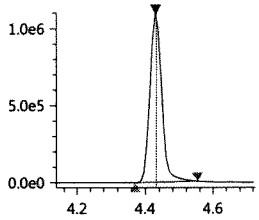
4_2-FTS_1
Conc 3.3263
RT 4.212 Area 271275
Q 327.00>307.05 1.13e5



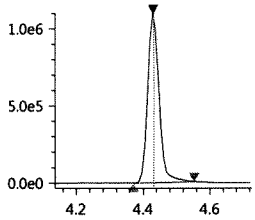
PFHpA
Conc 5.1827
RT 4.430 Area 2590067
Q 362.90>319.00 1.10e6



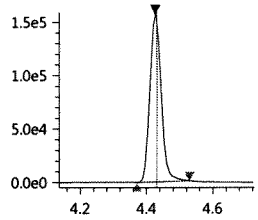
PFHpA-13C_IS
Conc 5.0000
RT 4.429 Area 2639289
ISTD 366.90>322.10 1.11e6



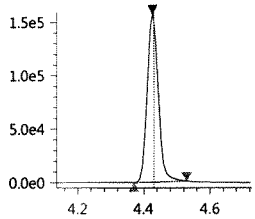
PFHpA-13C
Conc 3.8046
RT 4.429 Area 2639289
Q 366.90>322.10 1.11e6



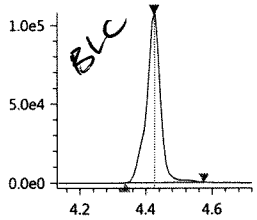
PFHxS-18O_IS
Conc 5.0000
RT 4.427 Area 373225
ISTD 402.70>84.05 1.60e5



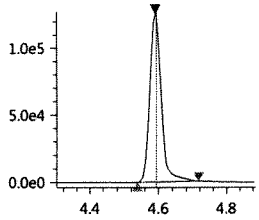
PFHxS-18O
Conc 3.5230
RT 4.427 Area 373225
Q 402.70>84.05 1.60e5



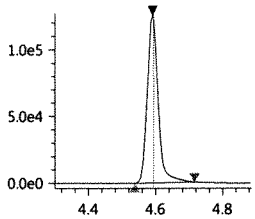
PFHxS_1
Conc 3.4631
RT 4.425 Area 314990
Q 399.00>80.00 1.08e5



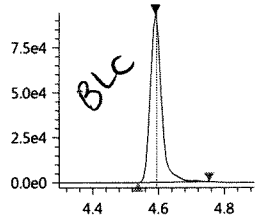
6_2-FTS-13C
Conc 4.4055
RT 4.591 Area 289222
Q 428.90>409.00 1.27e5



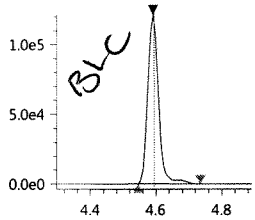
6_2-FTS-13C_IS
Conc 5.0000
RT 4.591 Area 289222
ISTD 428.90>409.00 1.27e5



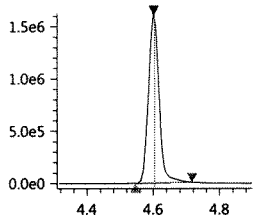
6_2-FTS_1
Conc 3.4775
RT 4.591 Area 222972
Q 427.00>407.00 9.46e4



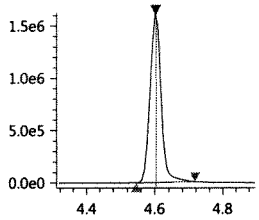
PFHpS_1
Conc 3.9497
RT 4.591 Area 277041
Q 449.00>80.15 1.22e5



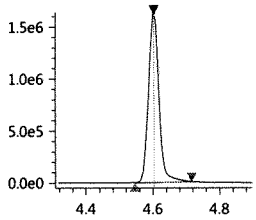
PFOA-13C_IS
Conc 5.0000
RT 4.602 Area 3604119
ISTD 416.80>372.05 1.63e6



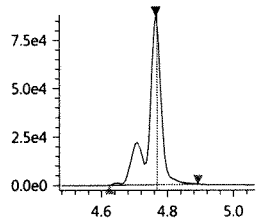
PFOA-13C
Conc 4.0329
RT 4.602 Area 3604119
Q 416.80>372.05 1.63e6



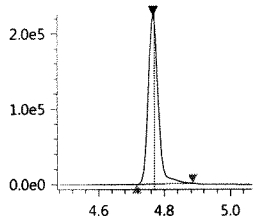
PFOA
Conc 4.4965
RT 4.602 Area 3626670
Q 413.00>369.00 1.64e6



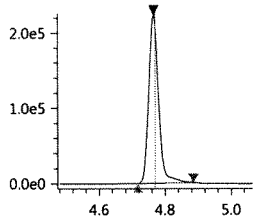
PFOS_1
Conc 3.4005
RT 4.765 Area 241327
Q 499.00>80.00 8.83e4



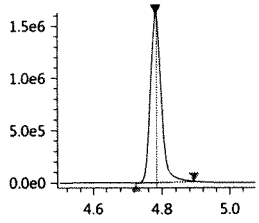
PFOS-13C_IS
Conc 5.0000
RT 4.765 Area 471783
ISTD 502.80>80.05 2.27e5



PFOS-13C
Conc 3.8914
RT 4.765 Area 471783
Q 502.80>80.05 2.27e5

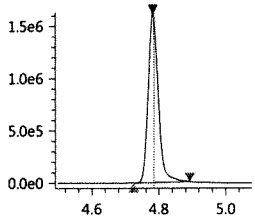


PFNA-13C_IS
Conc 5.0000
RT 4.782 Area 3501838
ISTD 467.80>423.00 1.63e6

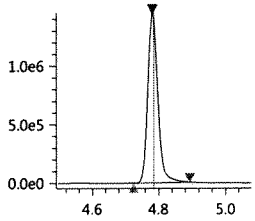


JUL 28 2017

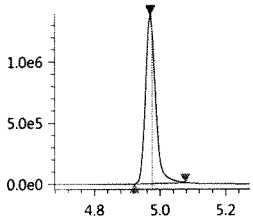
PFNA-13C
Conc 3.9720
RT 4.782 Area 3501838
Q 467.80>423.00 1.63e6



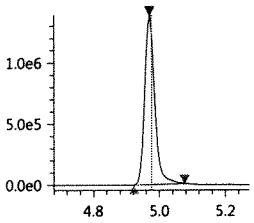
PFNA
Conc 5.2330
RT 4.782 Area 3092378
Q 463.00>418.90 1.46e6



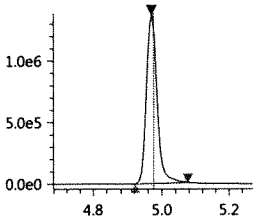
PFDA-13C_IS
Conc 5.0000
RT 4.970 Area 2992418
ISTD 514.80>469.95 1.39e6



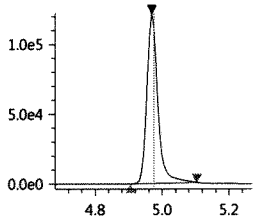
PFDA-13C
Conc 3.8690
RT 4.970 Area 2992418
Q 514.80>469.95 1.39e6



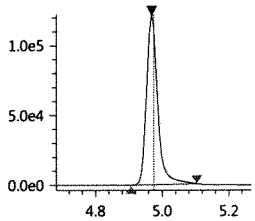
PFDA
Conc 4.4159
RT 4.970 Area 2948191
Q 513.00>468.80 1.39e6



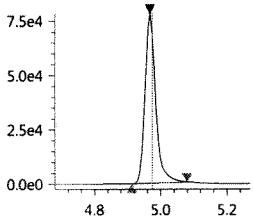
8_2-FTS-13C_IS
Conc 5.0000
RT 4.969 Area 283442
ISTD 528.80>509.00 1.22e5



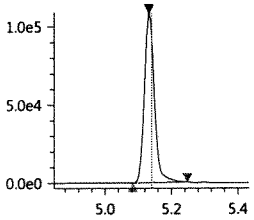
8_2-FTS-13C
Conc 4.4028
RT 4.969 Area 283442
Q 528.80>509.00 1.22e5



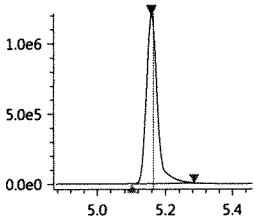
8_2-FTS_1
Conc 3.1039
RT 4.967 Area 178170
Q 526.90>506.90 7.86e4



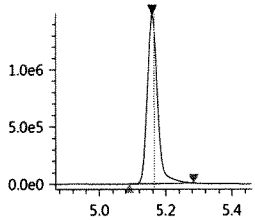
PFDS_1
Conc 3.1192
RT 5.133 Area 231287
Q 599.00>79.90 1.09e5



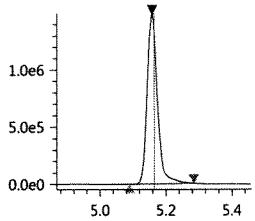
PFUnA
Conc 4.8067
RT 5.159 Area 2694314
Q 563.00>518.90 1.22e6



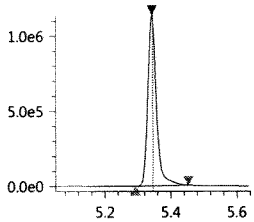
PFUnA-13C_IS
Conc 5.0000
RT 5.159 Area 3237696
ISTD 564.80>519.95 1.50e6



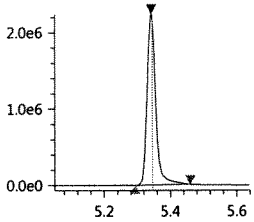
PFUnA-13C
Conc 3.7797
RT 5.159 Area 3237696
Q 564.80>519.95 1.50e6



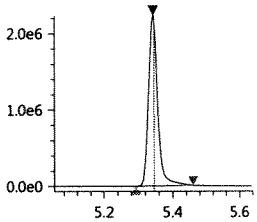
PFDoA
Conc 4.7007
RT 5.342 Area 2105559
Q 613.05>569.00 1.14e6



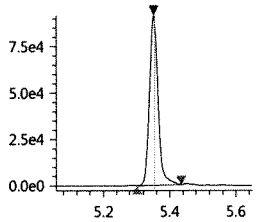
PFDoA-13C
Conc 3.7600
RT 5.342 Area 4125396
Q 614.80>569.95 2.24e6



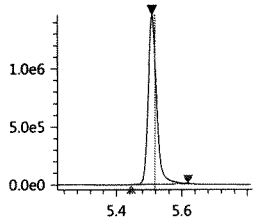
PFDoA-13C_IS
Conc 5.0000
RT 5.342 Area 4125396
ISTD 614.80>569.95 2.24e6



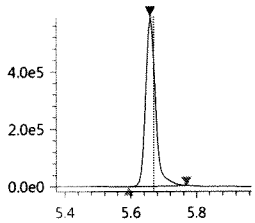
10_2-FtS_1
Conc 3.5638
RT 5.351 Area 168915
Q 627.00>606.95 9.19e4



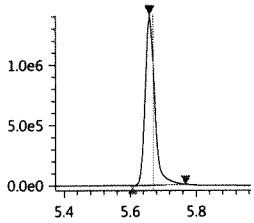
PFTrDA
Conc 4.4711
RT 5.509 Area 2621972
Q 663.00>618.90 1.47e6



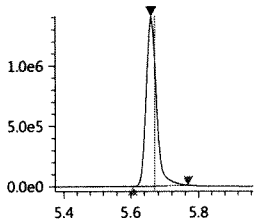
PFTeDA
Conc 4.7154
RT 5.659 Area 1224387
Q 713.40>669.00 5.93e5



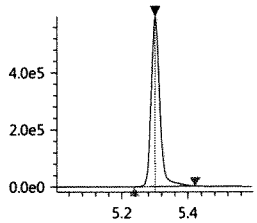
PFTeDA-13C
Conc 3.8569
RT 5.659 Area 2895750
Q 714.70>669.90 1.41e6



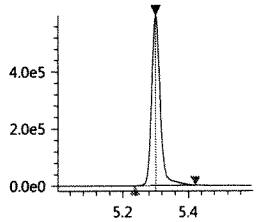
PFTeDA-13C_IS
Conc 5.0000
RT 5.659 Area 2895750
ISTD 714.70>669.90 1.41e6



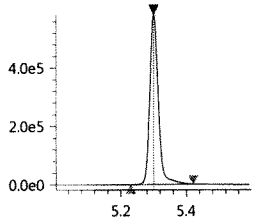
FOSA-13C_IS
Conc 5.0000
RT 5.301 Area 1093243
ISTD 506.00>78.05 5.99e5



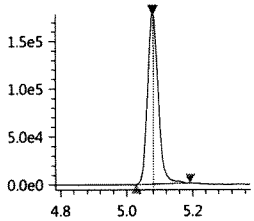
FOSA-13C
Conc 3.5966
RT 5.301 Area 1093243
Q 506.00>78.05 5.99e5



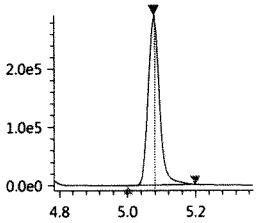
FOSA
Conc 3.3447
RT 5.301 Area 1069994
Q 498.00>78.00 5.85e5



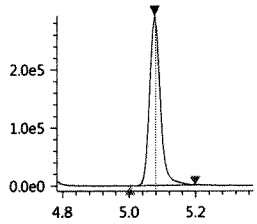
N-MeFOSAA
Conc 3.9491
RT 5.079 Area 401957
Q 570.20>419.00 1.79e5



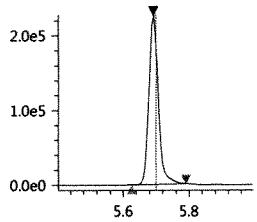
N-MeFOSAA-d3
Conc 3.8992
RT 5.076 Area 668049
Q 572.80>419.05 2.93e5



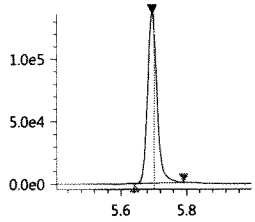
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.076 Area 668049
ISTD 572.80>419.05 2.93e5



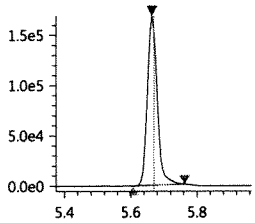
N-MeFOSA_IS
Conc 5.0000
RT 5.692 Area 457636
ISTD 514.90>168.90 2.28e5



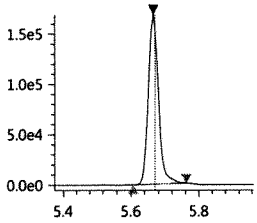
N-MeFOSA
Conc 2.4525
RT 5.695 Area 276948
Q 512.00>169.10 1.36e5



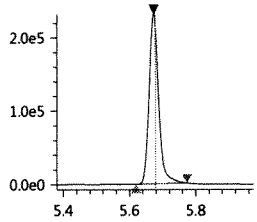
N-MeFOSE-d7
Conc 3.7339
RT 5.665 Area 345014
Q 622.70>59.10 1.69e5



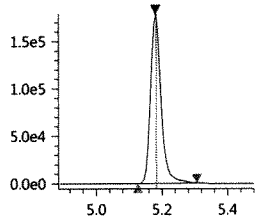
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.665 Area 345014
ISTD 622.70>59.10 1.69e5



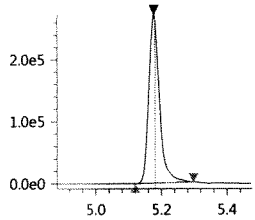
N-MeFOSE
Conc 3.3871
RT 5.673 Area 478213
Q 616.00>59.00 2.33e5



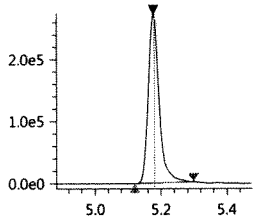
N-EtFOSAA
Conc 3.9013
RT 5.181 Area 399904
Q 584.20>418.95 1.80e5



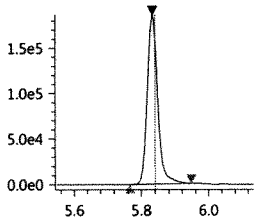
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.177 Area 623712
ISTD 588.80>419.00 2.75e5



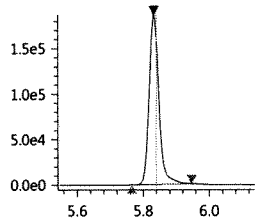
N-EtFOSAA-d5
Conc 3.7410
RT 5.177 Area 623712
Q 588.80>419.00 2.75e5



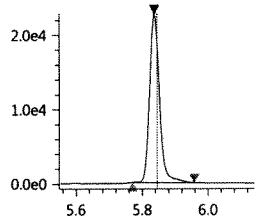
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.832 Area 395575
ISTD 530.90>169.15 1.87e5



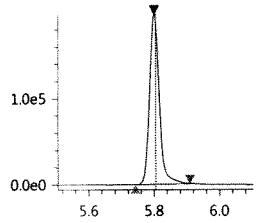
N-EtFOSA-d9
Conc 3.1924
RT 5.832 Area 395575
Q 530.90>169.15 1.87e5



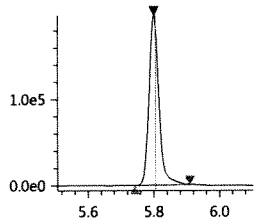
N-EtFOSA
Conc 2.8304
RT 5.837 Area 47822
Q 526.90>169.10 2.29e4



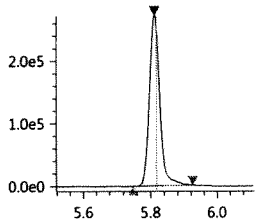
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.800 Area 414512
ISTD 638.70>59.10 1.98e5



N-EtFOSE-d9
Conc 4.3109
RT 5.800 Area 414512
Q 638.70>59.10 1.98e5



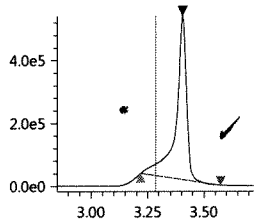
N-EtFOSE
Conc 2.9615
RT 5.811 Area 576769
Q 630.00>58.90 2.72e5



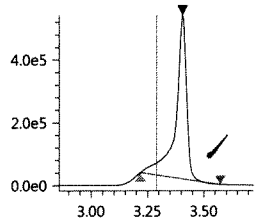
072817_122

Sample ID: KQ1710166-02 DVLS
Date acquired: 7/28/2017 12:28:33 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b1\072817_122.lcd
Vial: 2 | Inj. Volume: 15.0000uL | Tray: 2

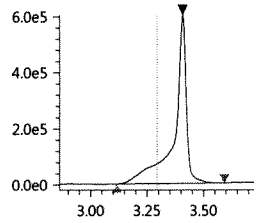
PFBA-13C_IS
Conc 5.0000
RT 3.406 Area 1736458
ISTD 216.90>172.15 5.42e5



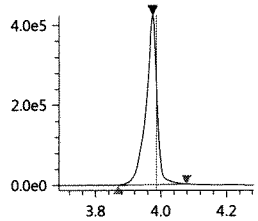
PFBA-13C
Conc 3.0619
RT 3.406 Area 1736458
Q 216.90>172.15 5.42e5



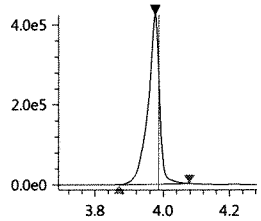
PFBA
Conc 6.0697
RT 3.407 Area 2233227
Q 213.00>169.10 6.07e5



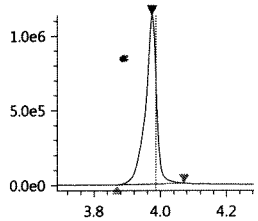
PFPeA-13C_IS
Conc 5.0000
RT 3.975 Area 1005050
ISTD 267.90>223.00 4.25e5



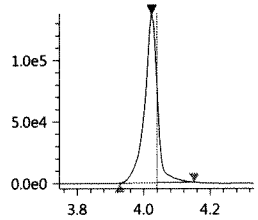
PFPeA-13C
Conc 3.9553
RT 3.975 Area 1005050
Q 267.90>223.00 4.25e5



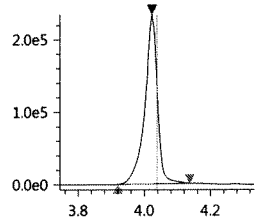
PFPeA
Conc 4.8329
RT 3.975 Area 2672231
Q 263.05>219.10 1.14e6



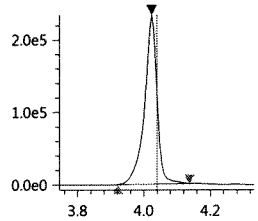
PFBS_1
Conc 3.4093
RT 4.024 Area 366958
Q 299.00>80.00 1.38e5



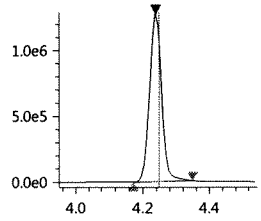
PFBS-13C
Conc 3.7322
RT 4.023 Area 612723
Q 301.80>80.00 2.35e5



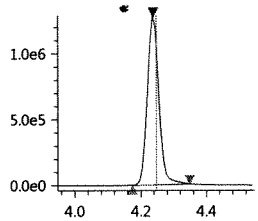
PFBS-13C_IS
Conc 5.0000
RT 4.023 Area 612723
ISTD 301.80>80.00 2.35e5



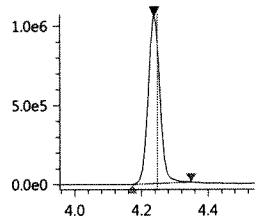
PFHxA-13C_IS
Conc 5.0000
RT 4.238 Area 3174070
ISTD 314.90>270.10 1.29e6



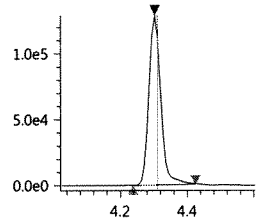
PFHxA-13C
Conc 4.1902
RT 4.238 Area 3174070
Q 314.90>270.10 1.29e6



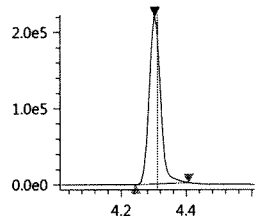
PFHxA
Conc 4.9863
RT 4.238 Area 2603952
Q 313.00>269.00 1.08e6



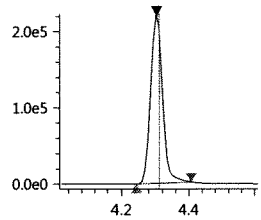
HPFO_DA
Conc 3.5949
RT 4.303 Area 319425
Q 329.00>169.00 1.29e5



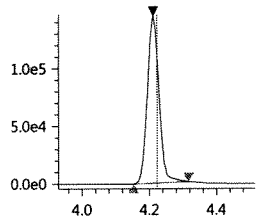
HFPO_DA-13C_IS
Conc 5.0000
RT 4.303 Area 536374
ISTD 332.00>286.80 2.24e5



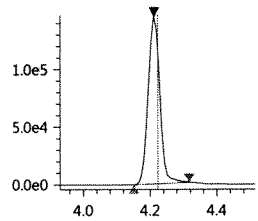
HFPO_DA-13C
Conc 2.7569
RT 4.303 Area 536374
Q 332.00>286.80 2.24e5



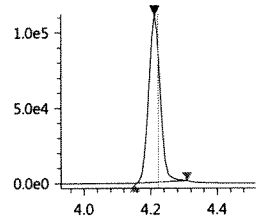
4_2-FTS-13C_IS
Conc 5.0000
RT 4.212 Area 354158
ISTD 328.80>309.05 1.47e5



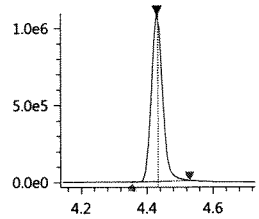
4_2-FTS-13C
Conc 3.8334
RT 4.212 Area 354158
Q 328.80>309.05 1.47e5



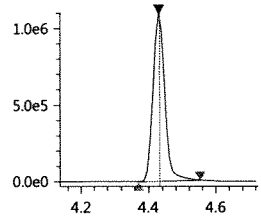
4_2-FTS_1
Conc 3.3263
RT 4.212 Area 271275
Q 327.00>307.05 1.13e5



PFHpA
Conc 5.1827
RT 4.430 Area 2590067
Q 362.90>319.00 1.10e6

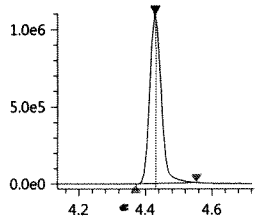


PFHpA-13C_IS
Conc 5.0000
RT 4.429 Area 2639289
ISTD 366.90>322.10 1.11e6

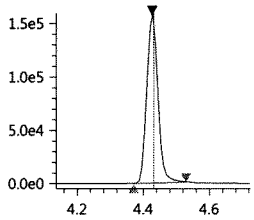


JUL 28 2017

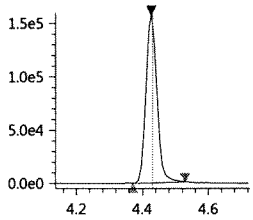
PFHpA-13C
Conc 3.8046
RT 4.429 Area 2639289
Q 366.90>322.10 1.11e6



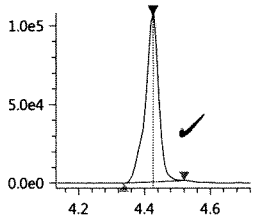
PFHxS-18O_IS
Conc 5.0000
RT 4.427 Area 373225
ISTD 402.70>84.05 1.60e5



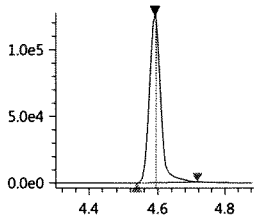
PFHxS-18O
Conc 3.5230
RT 4.427 Area 373225
Q 402.70>84.05 1.60e5



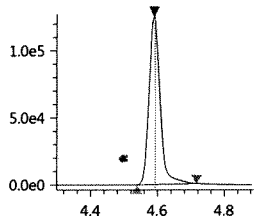
PFHxS_1
Conc 3.3610
RT 4.425 Area 305696
Q 399.00>80.00 1.08e5



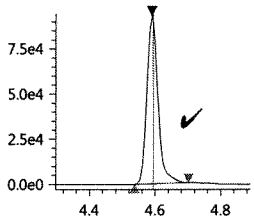
6_2-FTS-13C
Conc 4.4055
RT 4.591 Area 289222
Q 428.90>409.00 1.27e5



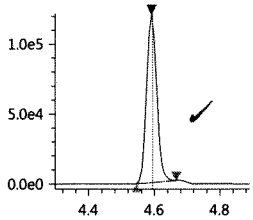
6_2-FTS-13C_IS
Conc 5.0000
RT 4.591 Area 289222
ISTD 428.90>409.00 1.27e5



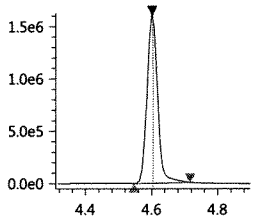
6_2-FTS_1
Conc 3.4156
RT 4.591 Area 219071
Q 427.00>407.00 9.46e4



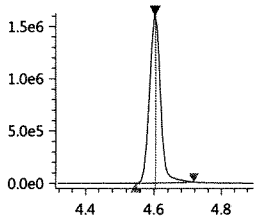
PFHpS_1
Conc 3.9259
RT 4.591 Area 263185
Q 449.00>80.15 1.22e5



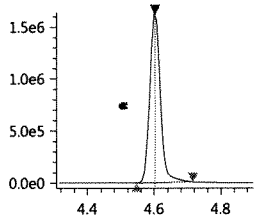
PFOA-13C_IS
Conc 5.0000
RT 4.602 Area 3604119
ISTD 416.80>372.05 1.63e6



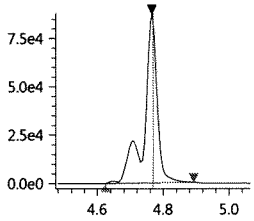
PFOA-13C
Conc 4.0329
RT 4.602 Area 3604119
Q 416.80>372.05 1.63e6



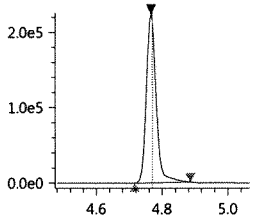
PFOA
Conc 4.4965
RT 4.602 Area 3626670
Q 413.00>369.00 1.64e6



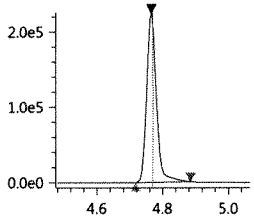
PFOS_1
Conc 3.4005
RT 4.765 Area 241327
Q 499.00>80.00 8.83e4



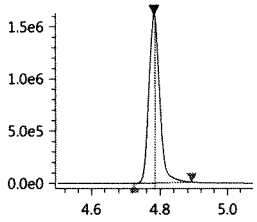
PFOS-13C_IS
Conc 5.0000
RT 4.765 Area 471783
ISTD 502.80>80.05 2.27e5



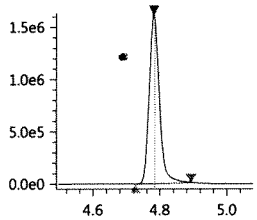
PFOS-13C
Conc 3.8914
RT 4.765 Area 471783
Q 502.80>80.05 2.27e5



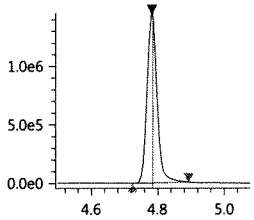
PFNA-13C_IS
Conc 5.0000
RT 4.782 Area 3501838
ISTD 467.80>423.00 1.63e6



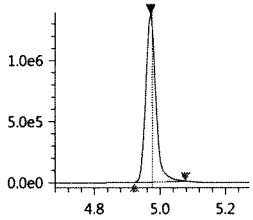
PFNA-13C
Conc 3.9720
RT 4.782 Area 3501838
Q 467.80>423.00 1.63e6



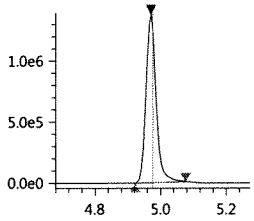
PFNA
Conc 5.2330
RT 4.782 Area 3092378
Q 463.00>418.90 1.46e6



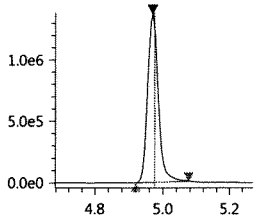
PFDA-13C_IS
Conc 5.0000
RT 4.970 Area 2992418
ISTD 514.80>469.95 1.39e6



PFDA-13C
Conc 3.8690
RT 4.970 Area 2992418
Q 514.80>469.95 1.39e6



PFDA
Conc 4.4159
RT 4.970 Area 2948191
Q 513.00>468.80 1.39e6



Validation Report

Data File: J:\LCMS06\Data\072617_b3\072617_132
Lab ID: KQ1710167-01
RunType: LCS
Matrix: Drinking Water

Date Acquired: 7/26/17 14:38
Batch ID: 555060
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-6:2 FTS	178	70	130	Natives ok
	13C2-8:2 FTS	170	70	130	↓

Primary Review: 7-27-17

Secondary Review: JUL 27 2017

Printed: 7/27/17 11:45
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072617_b3\072617_132	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 14:38	**Vial:**	3
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ1710167-01	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Drinking Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/22/17

Analysis Lot:	555060	**Prep Lot:**	293673	**Report Group:**	KQ1710167
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	7/25/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.698	428553	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.418	2413315	5.0288	101	19 - 126	Y
13C2-PFHxA	4.247	3365236	4.9953	100	10 - 151	Y
18O2-PFHxS	4.436	390613	3.9164	78	20 - 128	Y
13C2-6:2 FTS	4.602	393346	6.0304	121	10 - 187	Y
13C4-PFOA	4.613	4021839	4.6102	92	13 - 142	Y
13C5-PFNA	4.791	3388119	4.3273	87	15 - 143	Y
13C4-PFOS	4.775	454894	4.1781	84	11 - 131	Y
13C2-PFDA	4.979	3037265	4.6981	94	25 - 129	Y
13C2-PFUnDA	5.167	3403567	4.4229	88	16 - 129	Y
13C2-PFDoDA	5.351	3847477	3.9473	79	17 - 114	Y
D7-MeFOSE	5.671	313662	2.7903	56	32 - 113	Y
D9-EtFOSE	5.805	341843	2.5215	50	20 - 113	Y
D5-EtFOSA	5.837	256913	2.2181	44	19 - 103	Y
13C2-8:2 FTS	4.977	436856	7.4336	149	50 - 150	Y
13C2-PFTeDA	5.666	2686017	3.4075	68	50 - 150	Y
13C4-PFHpA	4.439	3028834	4.4581	89	50 - 150	Y
13C5-PFPeA	3.986	1040014	4.3827	88	50 - 150	Y
13C3-PFBS	4.035	502659	3.0021	60	50 - 150	Y
13C8-FOSA	5.310	938452	3.1728	63	50 - 150	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.419	2127504	3.4251	114		Y
Perfluoropentanoic acid (PFPeA)	3.986	2525985	3.6923	123		Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 11:45

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072617_b3\072617_132	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 14:38	**Vial:**	3
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ1710167-01	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.035	395008	4.6379	155		Y
Perfluorohexanoic acid (PFHxA)	4.247	2280022	3.4465	115		Y
Perfluoroheptanoic acid (PFHpA)	4.439	2752664	4.1366	138		Y
Perfluorohexane sulfonic acid (PFHxS)	4.435	359557	3.3172	111		Y
Perfluorooctanoic acid (PFOA)	4.613	3749515	3.6881	123		Y
Perfluoroheptane sulfonic acid (PFHpS)	4.602	377910	4.4404	148		Y
Perfluorononanoic acid (PFNA)	4.791	2875140	3.8513	128		Y
Perfluorooctane sulfonic acid (PFOS)	4.775	271949	3.6859	123		Y
Perfluorodecanoic acid (PFDA)	4.980	2752818	3.3094	110		Y
Perfluoroundecanoic acid (PFUnDA)	5.168	2494697	3.1768	106		Y
Perfluorooctane sulfonamide (FOSA)	5.310	1129809	3.9199	131		Y
Perfluorododecanoic acid (PFDoDA)	5.351	1880314	3.7417	125		Y
Perfluorotridecanoic acid (PFTrDA)	5.517	2231735	4.1762	139		Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.701	292350	3.8384	128		Y
N-Methyl perfluorooctane sulfonamidoethanol	5.679	518872	4.7078	157		Y
Perfluorotetradecanoic acid (PFTeDA)	5.666	1086522	3.7132	124		Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.816	617163	5.7530	192		Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.843	47280	4.9768	166		Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.977	350556	4.1618	139		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.601	412707	3.9800	133		Y
Perfluorodecane sulfonic acid (PFDS)	5.143	301203	3.4594	115		Y

Prep Amount:	60 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 11:45

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072617_132

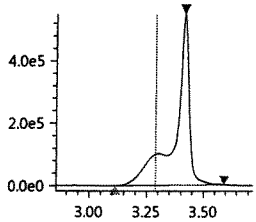
Sample ID: KQ1710167-01
Date acquired: 7/26/2017 2:38:26 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b3\072617_132.lcd
Vial: 21 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.418	2413315	2413315	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.418	2413315	428553	1	5.0288	ng/mL	----	----	Auto
PFBA	3.419	2127504	2413315	2	3.4251	ng/mL	----	----	M
PFPeA-13C_IS	3.986	1040014	1040014	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.986	1040014	428553	1	4.3827	ng/mL	----	----	Auto
PFPeA	3.986	2525985	1040014	4	3.6923	ng/mL	----	----	Auto
PFBS_1	4.035	395008	502659	16	4.6379	ng/mL	----	----	Auto
PFBS-13C	4.035	502659	428553	1	3.0021	ng/mL	----	----	Auto
PFBS-13C_IS	4.035	502659	502659	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.247	3365236	3365236	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.247	3365236	428553	1	4.9953	ng/mL	----	----	Auto
PFHxA	4.247	2280022	3365236	6	3.4465	ng/mL	----	----	Auto
HPFO_DA	4.314	504700	599328	3	4.4269	ng/mL	----	----	Auto
HFPO_DA-13C_IS	4.313	599328	599328	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.313	599328	428553	1	3.5889	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.221	566131	566131	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.221	566131	428553	1	5.2017	ng/mL	----	----	Auto
4_2-FTS_1	4.221	523527	566131	5	3.6308	ng/mL	----	----	Auto
PFHpA	4.439	2752664	3028834	8	4.1366	ng/mL	----	----	Auto
PFHpA-13C_IS	4.439	3028834	3028834	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.439	3028834	428553	1	4.4581	ng/mL	----	----	Auto
PFHxS-18O_IS	4.436	390613	390613	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.436	390613	428553	1	3.9164	ng/mL	----	----	Auto
PFHxS_1	4.435	359557	390613	7	3.3172	ng/mL	----	----	Auto
6_2-FTS-13C	4.602	393346	428553	1	6.0304	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.602	393346	393346	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.601	412707	393346	10	3.9800	ng/mL	----	----	Auto
PFHpS_1	4.602	377910	390613	7	4.4404	ng/mL	----	----	Auto
PFOA-13C_IS	4.613	4021839	4021839	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.613	4021839	428553	1	4.6102	ng/mL	----	----	Auto
PFOA	4.613	3749515	4021839	9	3.6881	ng/mL	----	----	Auto
PFOS_1	4.775	271949	454894	13	3.6859	ng/mL	----	----	Auto
PFOS-13C_IS	4.775	454894	454894	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.775	454894	428553	1	4.1781	ng/mL	----	----	Auto
PFNA-13C_IS	4.791	3388119	3388119	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.791	3388119	428553	1	4.3273	ng/mL	----	----	Auto
PFNA	4.791	2875140	3388119	11	3.8513	ng/mL	----	----	Auto
PFDA-13C_IS	4.979	3037265	3037265	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.979	3037265	428553	1	4.6981	ng/mL	----	----	Auto
PFDA	4.980	2752818	3037265	12	3.3094	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.977	436856	436856	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.977	436856	428553	1	7.4336	ng/mL	----	----	Auto
8_2-FTS_1	4.977	350556	436856	15	4.1618	ng/mL	----	----	Auto
PFDS_1	5.143	301203	454894	13	3.4594	ng/mL	----	----	Auto
PFUnA	5.168	2494697	3403567	14	3.1768	ng/mL	----	----	Auto
PFUnA-13C_IS	5.167	3403567	3403567	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.167	3403567	428553	1	4.4229	ng/mL	----	----	Auto
PFDoA	5.351	1880314	3847477	17	3.7417	ng/mL	----	----	Auto
PFDoA-13C	5.351	3847477	428553	1	3.9473	ng/mL	----	----	Auto
PFDoA-13C_IS	5.351	3847477	3847477	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	5.360	260784	436856	15	3.1570	ng/mL	----	----	Auto
PFTrDA	5.517	2231735	2686017	22	4.1762	ng/mL	----	----	Auto
PFTeDA	5.666	1086522	2686017	22	3.7132	ng/mL	----	----	Auto
PFTeDA-13C	5.666	2686017	428553	1	3.4075	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.666	2686017	2686017	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.310	938452	938452	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.310	938452	428553	1	3.1728	ng/mL	----	----	Auto
FOSA	5.310	1129809	938452	18	3.9199	ng/mL	----	----	Auto
N-MeFOSAA	5.089	573064	732266	19	4.8854	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.086	732266	428553	1	3.8228	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.086	732266	732266	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.698	428553	428553	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.701	292350	313662	20	3.8384	ng/mL	----	----	Auto
N-MeFOSE-d7	5.671	313662	428553	1	2.7903	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.671	313662	313662	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	5.679	518872	313662	20	4.7078	ng/mL	----	----	Auto
N-EtFOSAA	5.190	490079	679890	21	4.2714	ng/mL	----	----	Auto

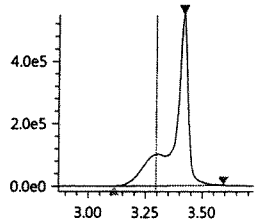
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.186	679890	679890	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.186	679890	428553	1	3.9126	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.837	256913	256913	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.837	256913	428553	1	2.2181	ng/mL	----	----	Auto
N-EtFOSA	5.843	47280	256913	23	4.9768	ng/mL	----	----	Auto
N-EtFOSE-d9_IS	5.805	341843	341843	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.805	341843	428553	1	2.5215	ng/mL	----	----	Auto
N-EtFOSE	5.816	617163	341843	24	5.7530	ng/mL	----	----	Auto

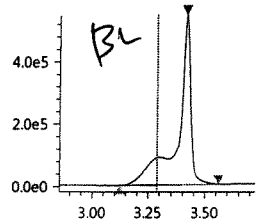
PFBA-13C_IS
Conc 5.0000
RT 3.418 Area 2413315
ISTD 216.90>172.15 5.50e5



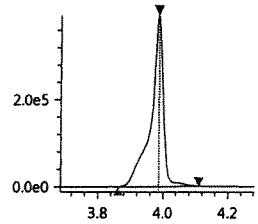
PFBA-13C
Conc 5.0288
RT 3.418 Area 2413315
Q 216.90>172.15 5.50e5



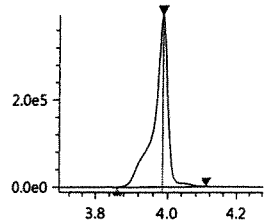
PFBA
Conc 3.4251
RT 3.419 Area 2127504
Q 213.00>169.10 5.51e5



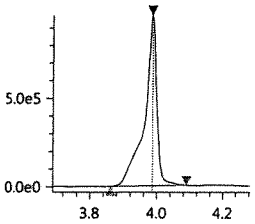
PFPeA-13C_IS
Conc 5.0000
RT 3.986 Area 1040014
ISTD 267.90>223.00 3.95e5



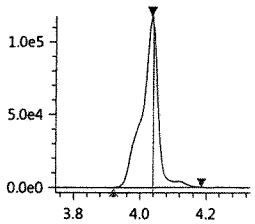
PFPeA-13C
Conc 4.3827
RT 3.986 Area 1040014
Q 267.90>223.00 3.95e5



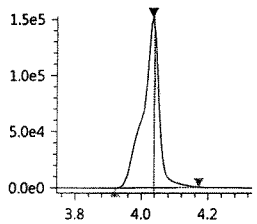
PFPeA
Conc 3.6923
RT 3.986 Area 2525985
Q 263.05>219.10 9.71e5



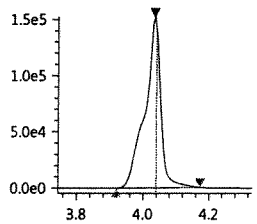
PFBS_1
Conc 4.6379
RT 4.035 Area 395008
Q 299.00>80.00 1.18e5



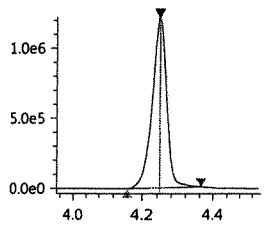
PFBS-13C
Conc 3.0021
RT 4.035 Area 502659
Q 301.80>80.00 1.53e5



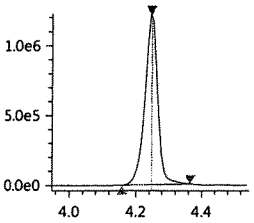
PFBS-13C_IS
Conc 5.0000
RT 4.035 Area 502659
ISTD 301.80>80.00 1.53e5



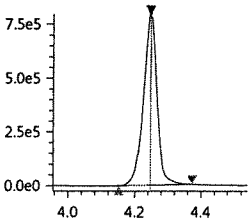
PFHxA-13C_IS
Conc 5.0000
RT 4.247 Area 3365236
ISTD 314.90>270.10 1.23e6



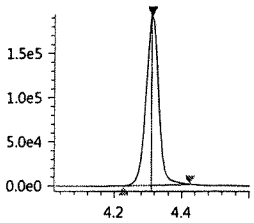
PFHxA-13C
Conc 4.9953
RT 4.247 Area 3365236
Q 314.90>270.10 1.23e6



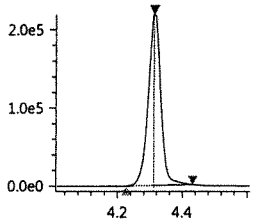
PFHxA
Conc 3.4465
RT 4.247 Area 2280022
Q 313.00>269.00 7.96e5



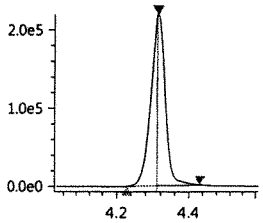
HPFO_DA
Conc 4.4269
RT 4.314 Area 504700
Q 329.00>169.00 1.94e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.313 Area 599328
ISTD 332.00>286.80 2.20e5

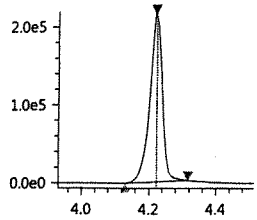


HFPO_DA-13C
Conc 3.5889
RT 4.313 Area 599328
Q 332.00>286.80 2.20e5

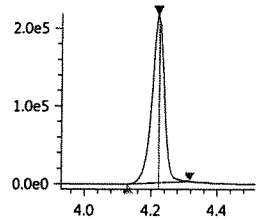


JUL 27 2017

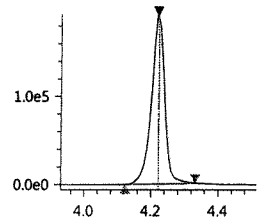
4_2-FTS-13C_IS
Conc 5.0000
RT 4.221 Area 566131
ISTD 328.80>309.05 2.20e5



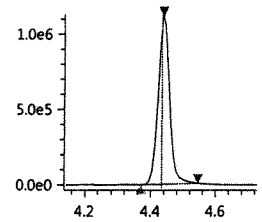
4_2-FTS-13C
Conc 5.2017
RT 4.221 Area 566131
Q 328.80>309.05 2.20e5



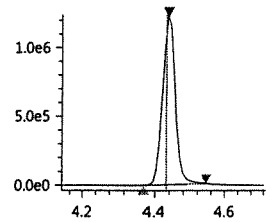
4_2-FTS_1
Conc 3.6308
RT 4.221 Area 523527
Q 327.00>307.05 1.94e5



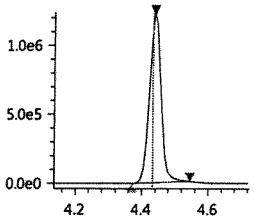
PFHpA
Conc 4.1366
RT 4.439 Area 2752664
Q 362.90>319.00 1.13e6



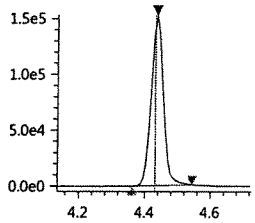
PFHpA-13C_IS
Conc 5.0000
RT 4.439 Area 3028834
ISTD 366.90>322.10 1.24e6



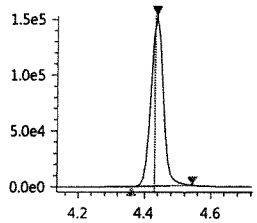
PFHpA-13C
Conc 4.4581
RT 4.439 Area 3028834
Q 366.90>322.10 1.24e6



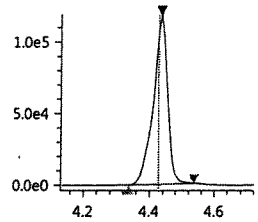
PFHxS-18O_IS
Conc 5.0000
RT 4.436 Area 390613
ISTD 402.70>84.05 1.53e5



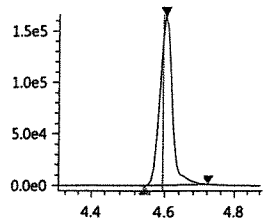
PFHxS-18O
Conc 3.9164
RT 4.436 Area 390613
Q 402.70>84.05 1.53e5



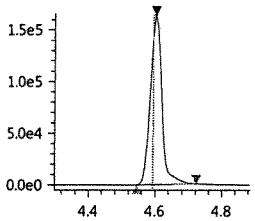
PFHxS_1
Conc 3.3172
RT 4.435 Area 359557
Q 399.00>80.00 1.19e5



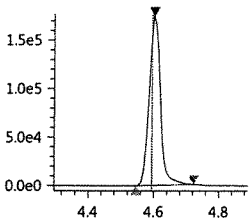
6_2-FTS-13C
Conc 6.0304
RT 4.602 Area 393346
Q 428.90>409.00 1.66e5



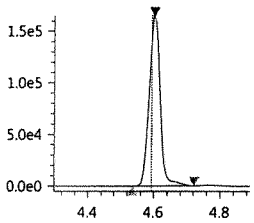
6_2-FTS-13C_IS
Conc 5.0000
RT 4.602 Area 393346
ISTD 428.90>409.00 1.66e5



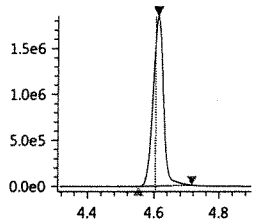
6_2-FTS_1
Conc 3.9800
RT 4.601 Area 412707
Q 427.00>407.00 1.77e5



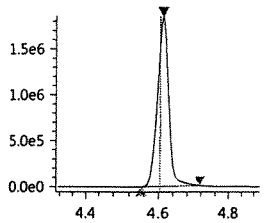
PFHpS_1
Conc 4.4404
RT 4.602 Area 377910
Q 449.00>80.15 1.66e5



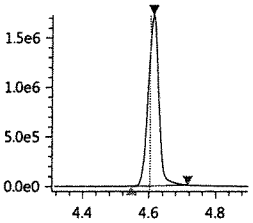
PFOA-13C_IS
Conc 5.0000
RT 4.613 Area 4021839
ISTD 416.80>372.05 1.86e6



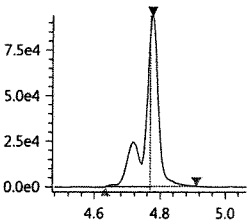
PFOA-13C
Conc 4.6102
RT 4.613 Area 4021839
Q 416.80>372.05 1.86e6



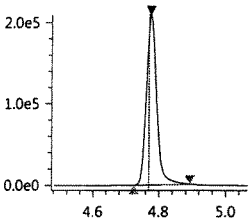
PFOA
Conc 3.6881
RT 4.613 Area 3749515
Q 413.00>369.00 1.73e6



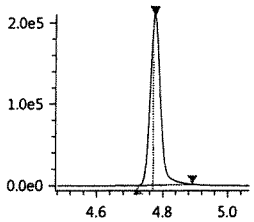
PFOS_1
Conc 3.6859
RT 4.775 Area 271949
Q 499.00>80.00 9.41e4



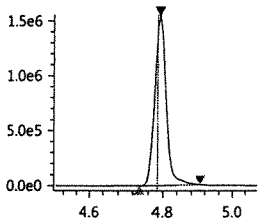
PFOS-13C_IS
Conc 5.0000
RT 4.775 Area 454894
ISTD 502.80>80.05 2.10e5



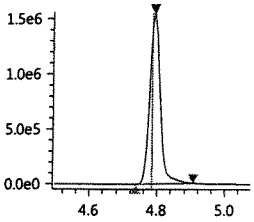
PFOS-13C
Conc 4.1781
RT 4.775 Area 454894
Q 502.80>80.05 2.10e5



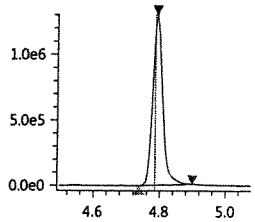
PFNA-13C_IS
Conc 5.0000
RT 4.791 Area 3388119
ISTD 467.80>423.00 1.56e6



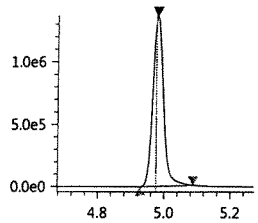
PFNA-13C
Conc 4.3273
RT 4.791 Area 3388119
Q 467.80>423.00 1.56e6



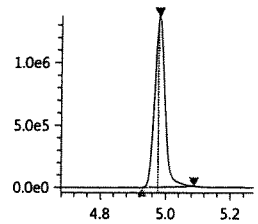
PFNA
Conc 3.8513
RT 4.791 Area 2875140
Q 463.00>418.90 1.31e6



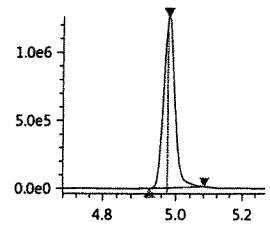
PFDA-13C_IS
Conc 5.0000
RT 4.979 Area 3037265
ISTD 514.80>469.95 1.37e6



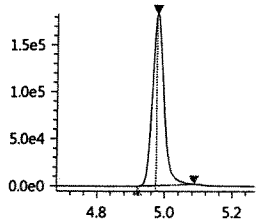
PFDA-13C
Conc 4.6981
RT 4.979 Area 3037265
Q 514.80>469.95 1.37e6



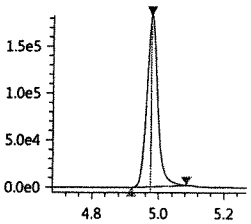
PFDA
Conc 3.3094
RT 4.980 Area 2752818
Q 513.00>468.80 1.26e6



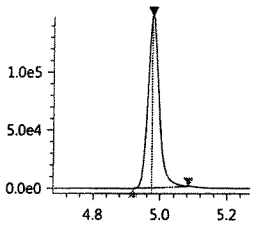
8_2-FTS-13C_IS
Conc 5.0000
RT 4.977 Area 436856
ISTD 528.80>509.00 1.83e5



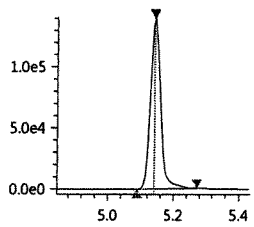
8_2-FTS-13C
Conc 7.4336
RT 4.977 Area 436856
Q 528.80>509.00 1.83e5



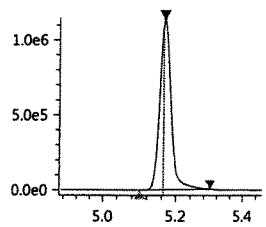
8_2-FTS_1
Conc 4.1618
RT 4.977 Area 350556
Q 526.90>506.90 1.48e5



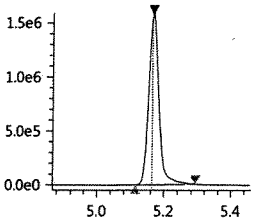
PFDS_1
Conc 3.4594
RT 5.143 Area 301203
Q 599.00>79.90 1.41e5



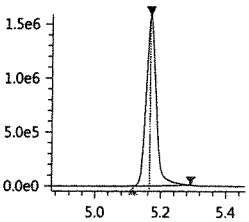
PFUnA
Conc 3.1768
RT 5.168 Area 2494697
Q 563.00>518.90 1.15e6



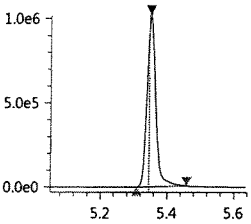
PFUnA-13C_IS
Conc 5.0000
RT 5.167 Area 3403567
ISTD 564.80>519.95 1.59e6



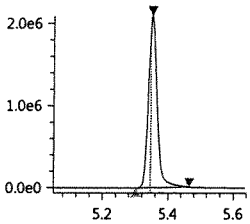
PFUnA-13C
Conc 4.4229
RT 5.167 Area 3403567
Q 564.80>519.95 1.59e6



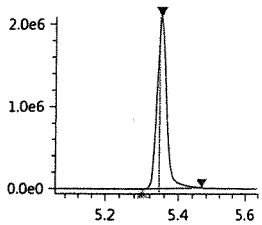
PFDoA
Conc 3.7417
RT 5.351 Area 1880314
Q 613.05>569.00 1.02e6



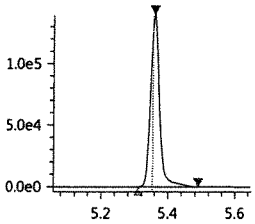
PFDoA-13C
Conc 3.9473
RT 5.351 Area 3847477
Q 614.80>569.95 2.09e6



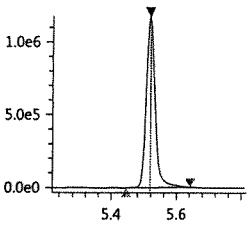
PFDoA-13C_IS
Conc 5.0000
RT 5.351 Area 3847477
ISTD 614.80>569.95 2.09e6



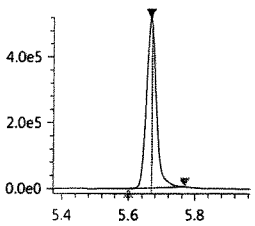
10_2-FtS_1
Conc 3.1570
RT 5.360 Area 260784
Q 627.00>606.95 1.40e5



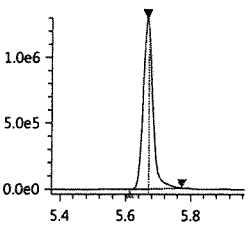
PFTrDA
Conc 4.1762
RT 5.517 Area 2231735
Q 663.00>618.90 1.18e6



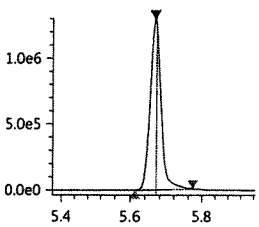
PFTeDA
Conc 3.7132
RT 5.666 Area 1086522
Q 713.40>669.00 5.23e5



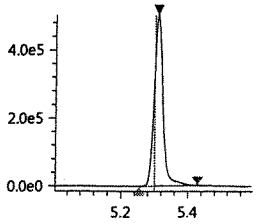
PFTeDA-13C
Conc 3.4075
RT 5.666 Area 2686017
Q 714.70>669.90 1.30e6



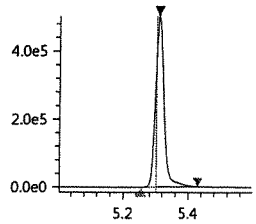
PFTeDA-13C_IS
Conc 5.0000
RT 5.666 Area 2686017
ISTD 714.70>669.90 1.30e6



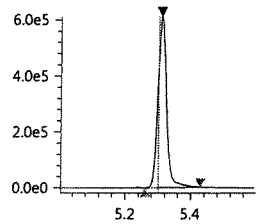
FOSA-13C_IS
Conc 5.0000
RT 5.310 Area 938452
ISTD 506.00>78.05 5.04e5



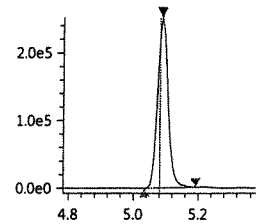
FOSA-13C
Conc 3.1728
RT 5.310 Area 938452
Q 506.00>78.05 5.04e5



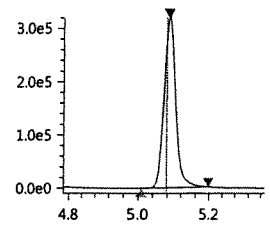
FOSA
Conc 3.9199
RT 5.310 Area 1129809
Q 498.00>78.00 6.11e5



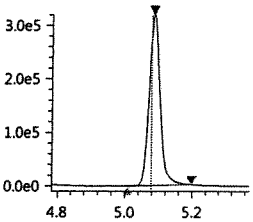
N-MeFOSAA
Conc 4.8854
RT 5.089 Area 573064
Q 570.20>419.00 2.52e5



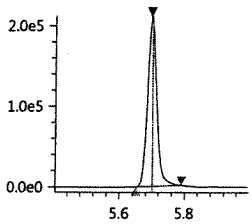
N-MeFOSAA-d3
Conc 3.8228
RT 5.086 Area 732266
Q 572.80>419.05 3.20e5



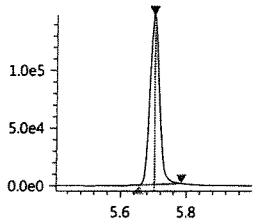
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.086 Area 732266
ISTD 572.80>419.05 3.20e5



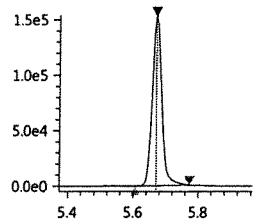
N-MeFOSA_IS
Conc 5.0000
RT 5.698 Area 428553
ISTD 514.90>168.90 2.12e5



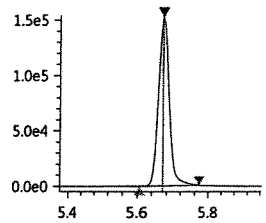
N-MeFOSA
Conc 3.8384
RT 5.701 Area 292350
Q 512.00>169.10 1.48e5



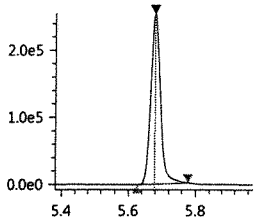
N-MeFOSE-d7
Conc 2.7903
RT 5.671 Area 313662
Q 622.70>59.10 1.54e5



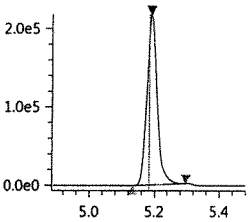
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.671 Area 313662
ISTD 622.70>59.10 1.54e5



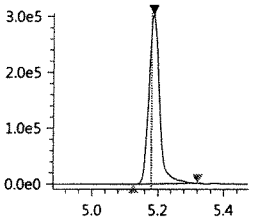
N-MeFOSE
Conc 4.7078
RT 5.679 Area 518872
Q 616.00>59.00 2.56e5



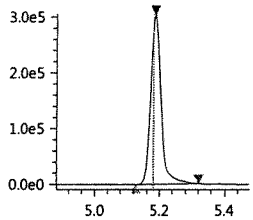
N-EtFOSAA
Conc 4.2714
RT 5.190 Area 490079
Q 584.20>418.95 2.19e5



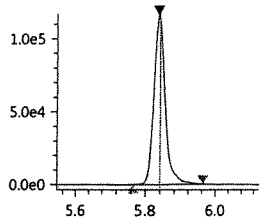
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.186 Area 679890
ISTD 588.80>419.00 3.06e5



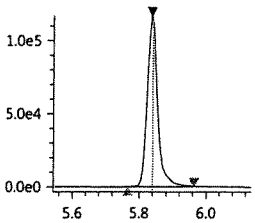
N-EtFOSAA-d5
Conc 3.9126
RT 5.186 Area 679890
Q 588.80>419.00 3.06e5



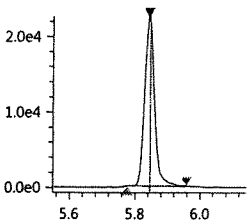
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.837 Area 256913
ISTD 530.90>169.15 1.17e5



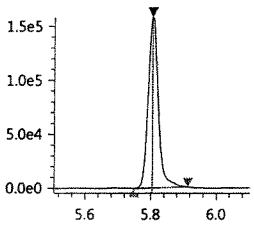
N-EtFOSA-d9
Conc 2.2181
RT 5.837 Area 256913
Q 530.90>169.15 1.17e5



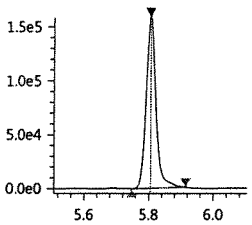
N-EtFOSA
Conc 4.9768
RT 5.843 Area 47280
Q 526.90>169.10 2.27e4



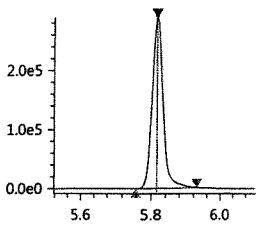
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.805 Area 341843
ISTD 638.70>59.10 1.58e5



N-EtFOSE-d9
Conc 2.5215
RT 5.805 Area 341843
Q 638.70>59.10 1.58e5



N-EtFOSE
Conc 5.7530
RT 5.816 Area 617163
Q 630.00>58.90 2.89e5



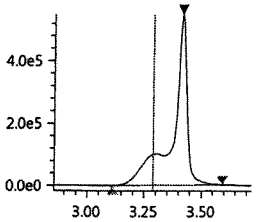
Insight Report

Printed at 7/27/2017 9:23:02 AM

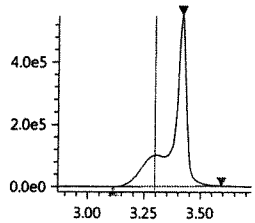
072617_132 B4

Sample ID: KQ1710167-01
Date acquired: 7/26/2017 2:38:26 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b3\072617_132.lcd
Vial: 21 | Inj. Volume: 15.0000uL | Tray: 2

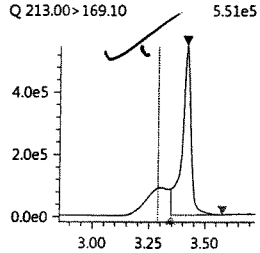
PFBA-13C_IS
Conc 5.0000
RT 3.418 Area 2413315
ISTD 216.90>172.15 5.50e5



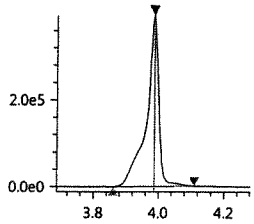
PFBA-13C
Conc 5.0288
RT 3.418 Area 2413315
Q 216.90>172.15 5.50e5



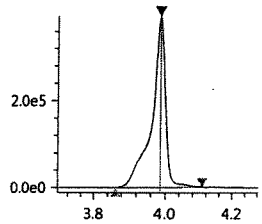
PFBA
Conc 2.4155
RT 3.419 Area 1500369
Q 213.00>169.10 5.51e5



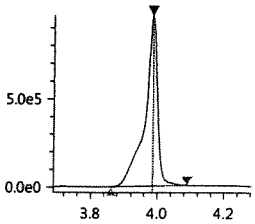
PFPeA-13C_IS
Conc 5.0000
RT 3.986 Area 1040014
ISTD 267.90>223.00 3.95e5



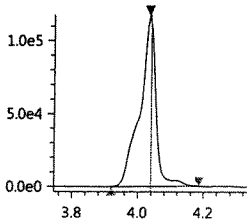
PFPeA-13C
Conc 4.3827
RT 3.986 Area 1040014
Q 267.90>223.00 3.95e5



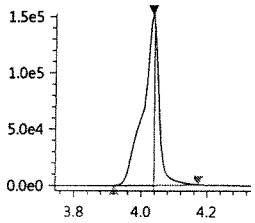
PFPeA
Conc 3.6923
RT 3.986 Area 2525985
Q 263.05>219.10 9.71e5



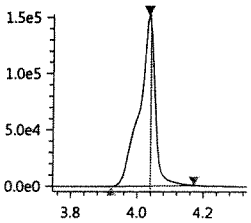
PFBS_1
Conc 4.6379
RT 4.035 Area 395008
Q 299.00>80.00 1.18e5



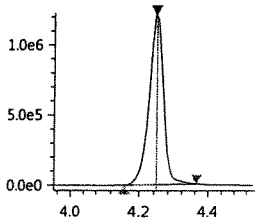
PFBS-13C
Conc 3.0021
RT 4.035 Area 502659
Q 301.80>80.00 1.53e5



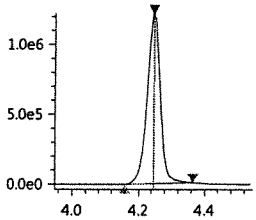
PFBS-13C_IS
Conc 5.0000
RT 4.035 Area 502659
ISTD 301.80>80.00 1.53e5



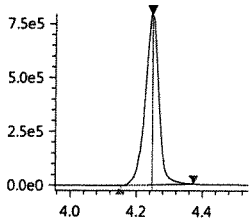
PFHxA-13C_IS
Conc 5.0000
RT 4.247 Area 3365236
ISTD 314.90>270.10 1.23e6



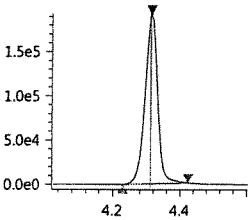
PFHxA-13C
Conc 4.9953
RT 4.247 Area 3365236
Q 314.90>270.10 1.23e6



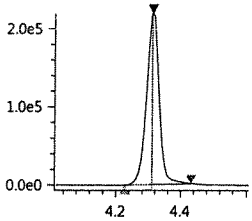
PFHxA
Conc 3.4465
RT 4.247 Area 2280022
Q 313.00>269.00 7.96e5



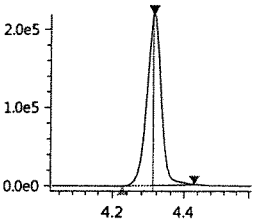
HPFO_DA
Conc 4.4269
RT 4.314 Area 504700
Q 329.00>169.00 1.94e5



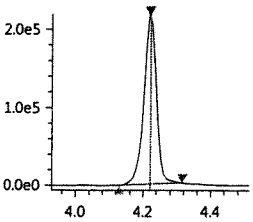
HFPO_DA-13C_IS
Conc 5.0000
RT 4.313 Area 599328
ISTD 332.00>286.80 2.20e5



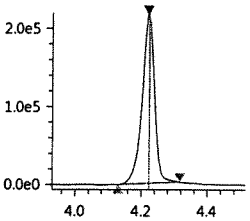
HFPO_DA-13C
Conc 3.5889
RT 4.313 Area 599328
Q 332.00>286.80 2.20e5



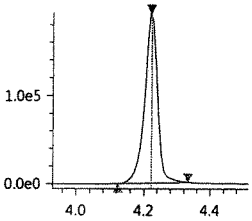
4_2-FTS-13C_IS
Conc 5.0000
RT 4.221 Area 566131
ISTD 328.80>309.05 2.20e5



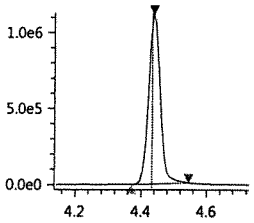
4_2-FTS-13C
Conc 5.2017
RT 4.221 Area 566131
Q 328.80>309.05 2.20e5



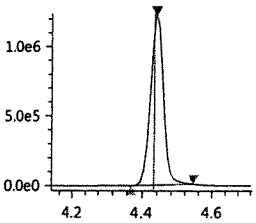
4_2-FTS_1
Conc 3.6308
RT 4.221 Area 523527
Q 327.00>307.05 1.94e5



PFHpA
Conc 4.1366
RT 4.439 Area 2752664
Q 362.90>319.00 1.13e6



PFHpA-13C_IS
Conc 5.0000
RT 4.439 Area 3028834
ISTD 366.90>322.10 1.24e6



JUL 27 2017

Validation Report

Data File: J:\LCMS06\Data\072817_b2\072817_136
Lab ID: KQ1710167-01
RunType: LCS
Matrix: Drinking Water

Date Acquired: 7/28/17 14:55
Batch ID: 555466
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	138	70	130	NR plus CCV bracket
Surrogates	13C3-PFBS	49	50	150	interim limits
	13C8-FOSA	44	50	150	↓

Primary Review: LOD 7/31/17

Secondary Review: AM 7/31/17

Printed: 7/31/17 11:29
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072817_b2\072817_136	**Instrument:**	K-LCMS-06
Acqu Date:	7/28/17 14:55	**Vial:**	9
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ1710167-01	**Raw Units:**	ng/mL

Bottle ID:	*	**Tier:**	II	**Matrix:**	Drinking Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/22/17

Analysis Lot:	555466	**Prep Lot:**	293673	**Report Group:**	KQ1710167
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	7/25/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS *	**Calibration ID:**	KC1700134
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.696	435462	5.0000	OK

Surrogate Compounds

Parameter Name *	RT	Response	Solution Conc	% Rec		% Rec Criteria	Rpt?
13C4-PFBA	3.407	1522260	2.8208	56		19 - 126	Y
13C2-PFHxA	4.241	2085344	2.8931	58		10 - 151	N
18O2-PFHxS	4.431	283726	2.8145	56		20 - 128	N
13C2-6:2 FTS	4.596	190246	3.0454	61		10 - 187	N
13C4-PFOA	4.607	2737810	3.2195	64		13 - 142	N
13C5-PFNA	4.788	2287521	2.7267	55		15 - 143	N
13C4-PFOS *	4.772	303846	2.6338	53		11 - 131	N
13C2-PFDA	4.977	2178753	2.9604	59		25 - 129	Y
13C2-PFUnDA	5.165	2429893	2.9811	60		16 - 129	Y
13C2-PFDoDA	5.349	2940295	2.8163	56		17 - 114	N
D7-MeFOSE	5.670	208594	2.3725	47		32 - 113	N
D9-EtFOSE	5.804	226361	2.4740	49		20 - 113	N
D5-EtFOSA	5.836	200802	1.7031	34		19 - 103	N
13C2-8:2 FTS	4.976	259106	4.2298	85		50 - 150	N
13C2-PFTeDA *	5.664	1885958	2.6399	53		50 - 150	N
13C4-PFHpA	4.433	1895674	2.8718	57		50 - 150	N
13C5-PFPeA	3.978	640823	2.6503	53		50 - 150	N
13C3-PFBS	4.027	382199	2.4466	49	*	50 - 150	N
13C8-FOSA	5.307	630588	2.1802	44	*	50 - 150	N

Target Compounds

Final Conc.Units: ng/L

Parameter Name *	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.409	2221672	6.8880	230		Y
Perfluoropentanoic acid (PFPeA)	3.979	2680570	7.6582	255		N

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/31/17 11:29

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072817_b2\072817_136	**Instrument:**	K-LCMS-06
Acqu Date:	7/28/17 14:55	**Vial:**	9
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ1710167-01	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.027	445892	6.6414	221		N
Perfluorohexanoic acid (PFHxA)	4.241	2477682	7.2313	241		N
Perfluoroheptanoic acid (PFHpA)	4.433	2898724	8.1014	270		N
Perfluorohexane sulfonic acid (PFHxS)	4.430	373725	5.4050	180		N
Perfluorooctanoic acid (PFOA)	4.607	4066357	6.6369	221		N
Perfluoroheptane sulfonic acid (PFHpS)	4.597	368583	6.4609	215		N
Perfluorononanoic acid (PFNA)	4.788	3137814	8.1287	271		N
Perfluorooctane sulfonic acid (PFOS)	4.772	254779	5.5742	186		N
Perfluorodecanoic acid (PFDA)	4.977	3229967	6.6447	221		Y
Perfluoroundecanoic acid (PFUnDA)	5.165	3133845	7.4635	249		Y
Perfluorooctane sulfonamide (FOSA)	5.307	1200436	6.5056	217		N
Perfluorododecanoic acid (PFDoDA)	5.349	2378796	7.4512	248		N
Perfluorotridecanoic acid (PFTrDA)	5.515	2931109	7.6744	256		N
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.699	317433	4.6495	155		N
N-Methyl perfluorooctane sulfonamidoethanol	5.678	547665	6.4159	214		N
Perfluorotetradecanoic acid (PFTeDA)	5.665	1428230	8.5230	284		N
N-Ethyl perfluorooctane sulfonamidoethanol	5.815	658309	6.1897	206		N
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.842	52604	6.1333	204		N
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.975	303149	5.7771	193		N
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.596	314611	7.5310	251		N
Perfluorodecane sulfonic acid (PFDS)	5.140	297747	6.2349	208		N

Prep Amount:	60 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/31/17 11:29

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072817_136

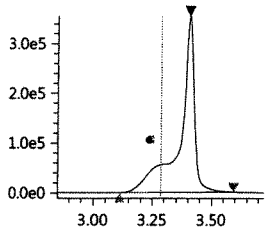
Sample ID: KQ1710167-01
Date acquired: 7/28/2017 2:55:10 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b2\072817_136.lcd
Vial: 14 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.407	1522260	1522260	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.407	1522260	435462	1	2.8208	ng/mL	----	----	Auto
PFBA	3.409	2221672	1522260	2	6.8880	ng/mL	----	----	Auto
PFPeA-13C_IS	3.978	640823	640823	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.978	640823	435462	1	2.6503	ng/mL	----	----	Auto
PFPeA	3.979	2680570	640823	4	7.6582	ng/mL	----	----	Auto
PFBS_1	4.027	445892	382199	16	6.6414	ng/mL	----	----	Auto
PFBS-13C	4.027	382199	435462	1	2.4466	ng/mL	----	----	Auto
PFBS-13C_IS	4.027	382199	382199	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.241	2085344	2085344	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.241	2085344	435462	1	2.8931	ng/mL	----	----	Auto
PFHxA	4.241	2477682	2085344	6	7.2313	ng/mL	----	----	Auto
HPFO_DA	4.308	525280	401735	3	7.8929	ng/mL	----	----	Auto
HFPO_DA-13C_IS	4.308	401735	401735	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.308	401735	435462	1	2.1700	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.214	240284	240284	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.214	240284	435462	1	2.7333	ng/mL	----	----	Auto
4_2-FTS_1	4.215	340610	240284	5	6.1557	ng/mL	----	----	Auto
PFHpA	4.433	2898724	1895674	8	8.1014	ng/mL	----	----	Auto
PFHpA-13C_IS	4.433	1895674	1895674	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.433	1895674	435462	1	2.8718	ng/mL	----	----	Auto
PFHxS-18O_IS	4.431	283726	283726	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.431	283726	435462	1	2.8145	ng/mL	----	----	Auto
PFHxS_1	4.430	373725	283726	7	5.4050	ng/mL	----	----	Auto
6_2-FTS-13C	4.596	190246	435462	1	3.0454	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.596	190246	190246	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.596	314611	190246	10	7.5310	ng/mL	----	----	Auto
PFHpS_1	4.597	368583	283726	7	6.4609	ng/mL	----	----	Auto
PFOA-13C_IS	4.607	2737810	2737810	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.607	2737810	435462	1	3.2195	ng/mL	----	----	Auto
PFOA	4.607	4066357	2737810	9	6.6369	ng/mL	----	----	Auto
PFOS_1	4.772	254779	303846	13	5.5742	ng/mL	----	----	Auto
PFOS-13C_IS	4.772	303846	303846	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.772	303846	435462	1	2.6338	ng/mL	----	----	Auto
PFNA-13C_IS	4.788	2287521	2287521	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.788	2287521	435462	1	2.7267	ng/mL	----	----	Auto
PFNA	4.788	3137814	2287521	11	8.1287	ng/mL	----	----	Auto
PFDA-13C_IS	4.977	2178753	2178753	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.977	2178753	435462	1	2.9604	ng/mL	----	----	Auto
PFDA	4.977	3229967	2178753	12	6.6447	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.976	259106	259106	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.976	259106	435462	1	4.2298	ng/mL	----	----	Auto
8_2-FTS_1	4.975	303149	259106	15	5.7771	ng/mL	----	----	Auto
PFDS_1	5.140	297747	303846	13	6.2349	ng/mL	----	----	Auto
PFUnA	5.165	3133845	2429893	14	7.4635	ng/mL	----	----	Auto
PFUnA-13C_IS	5.165	2429893	2429893	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.165	2429893	435462	1	2.9811	ng/mL	----	----	Auto
PFDoA	5.349	2378796	2940295	17	7.4512	ng/mL	----	----	Auto
PFDoA-13C	5.349	2940295	435462	1	2.8163	ng/mL	----	----	Auto
PFDoA-13C_IS	5.349	2940295	2940295	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	5.357	367686	259106	15	8.4860	ng/mL	----	----	Auto
PFTrDA	5.515	2931109	1885958	22	7.6744	ng/mL	----	----	Auto
PFTeDA	5.665	1428230	1885958	22	8.5230	ng/mL	----	----	Auto
PFTeDA-13C	5.664	1885958	435462	1	2.6399	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.664	1885958	1885958	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.307	630588	630588	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.307	630588	435462	1	2.1802	ng/mL	----	----	Auto
FOSA	5.307	1200436	630588	18	6.5056	ng/mL	----	----	Auto
N-MeFOSAA	5.087	542798	468427	19	7.5967	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.084	468427	435462	1	2.8733	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.084	468427	468427	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.696	435462	435462	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.699	317433	208594	20	4.6495	ng/mL	----	----	Auto
N-MeFOSE-d7	5.670	208594	435462	1	2.3725	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.670	208594	208594	20	5.0000	ng/mL	----	----	Auto

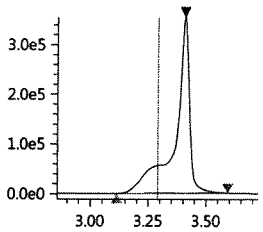
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-MeFOSE	5.678	547665	208594	20	6.4159	ng/mL	----	----	Auto
N-EtFOSAA	5.187	616578	486431	21	7.7126	ng/mL	----	----	Auto
N-EtFOSAA-d5_IS	5.183	486431	486431	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.183	486431	435462	1	3.0661	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.836	200802	200802	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.836	200802	435462	1	1.7031	ng/mL	----	----	Auto
N-EtFOSA	5.842	52604	200802	23	6.1333	ng/mL	----	----	Auto
N-EtFOSE-d9_IS	5.804	226361	226361	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.804	226361	435462	1	2.4740	ng/mL	----	----	Auto
N-EtFOSE	5.815	658309	226361	24	6.1897	ng/mL	----	----	Auto

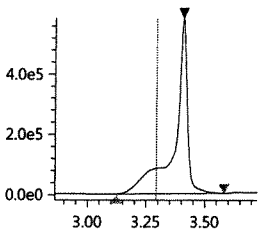
PFBA-13C_IS
Conc 5.0000
RT 3.407 Area 1522260
ISTD 216.90>172.15 3.56e5



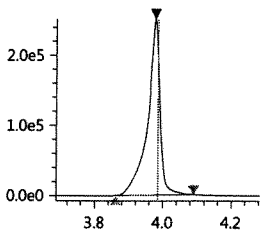
PFBA-13C
Conc 2.8208
RT 3.407 Area 1522260
Q 216.90>172.15 3.56e5



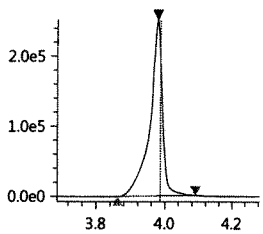
PFBA
Conc 6.8880
RT 3.409 Area 2221672
Q 213.00>169.10 5.86e5



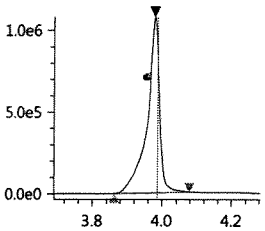
PFPeA-13C_IS
Conc 5.0000
RT 3.978 Area 640823
ISTD 267.90>223.00 2.52e5



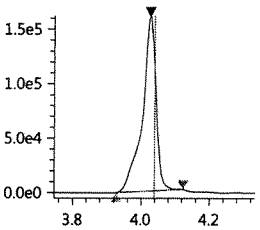
PFPeA-13C
Conc 2.6503
RT 3.978 Area 640823
Q 267.90>223.00 2.52e5



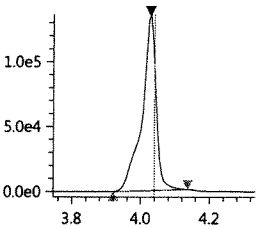
PFPeA
Conc 7.6582
RT 3.979 Area 2680570
Q 263.05>219.10 1.08e6



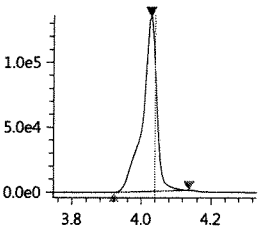
PFBS_1
Conc 6.6414
RT 4.027 Area 445892
Q 299.00>80.00 1.62e5



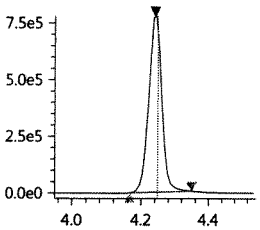
PFBS-13C
Conc 2.4466
RT 4.027 Area 382199
Q 301.80>80.00 1.36e5



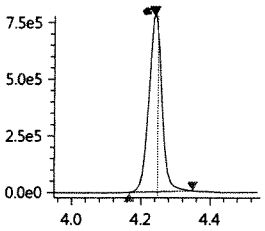
PFBS-13C_IS
Conc 5.0000
RT 4.027 Area 382199
ISTD 301.80>80.00 1.36e5



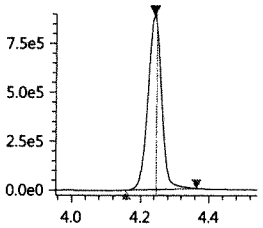
PFHxA-13C_IS
Conc 5.0000
RT 4.241 Area 2085344
ISTD 314.90>270.10 7.80e5



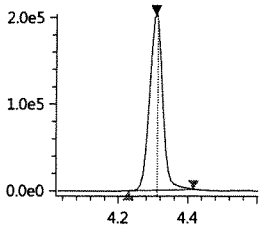
PFHxA-13C
Conc 2.8931
RT 4.241 Area 2085344
Q 314.90>270.10 7.80e5



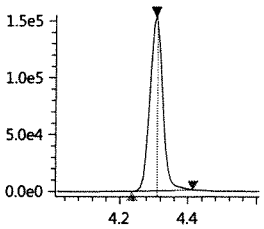
PFHxA
Conc 7.2313
RT 4.241 Area 2477682
Q 313.00>269.00 9.04e5



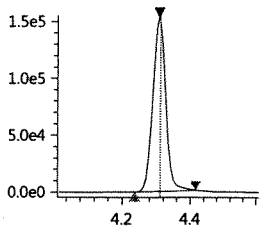
HPFO_DA
Conc 7.8929
RT 4.308 Area 525280
Q 329.00>169.00 2.04e5



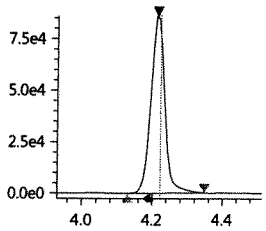
HFPO_DA-13C_IS
Conc 5.0000
RT 4.308 Area 401735
ISTD 332.00>286.80 1.55e5



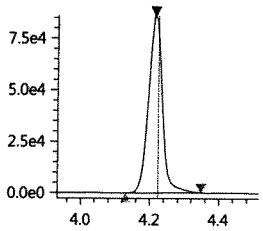
HFPO_DA-13C
Conc 2.1700
RT 4.308 Area 401735
Q 332.00>286.80 1.55e5



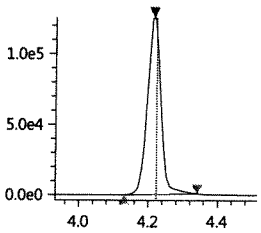
4_2-FTS-13C_IS
Conc 5.0000
RT 4.214 Area 240284
ISTD 328.80>309.05 8.62e4



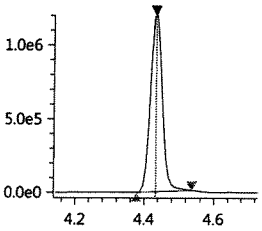
4_2-FTS-13C
Conc 2.7333
RT 4.214 Area 240284
Q 328.80>309.05 8.62e4



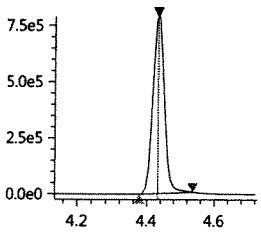
4_2-FTS_1
Conc 6.1557
RT 4.215 Area 340610
Q 327.00>307.05 1.26e5



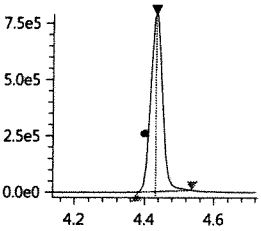
PFHpA
Conc 8.1014
RT 4.433 Area 2898724
Q 362.90>319.00 1.20e6



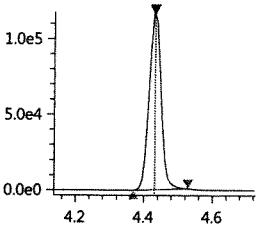
PFHpA-13C_IS
Conc 5.0000
RT 4.433 Area 1895674
ISTD 366.90>322.10 7.90e5



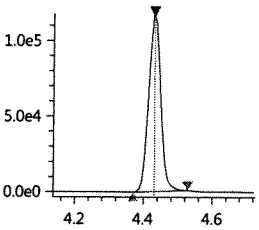
PFHpA-13C
Conc 2.8718
RT 4.433 Area 1895674
Q 366.90>322.10 7.90e5



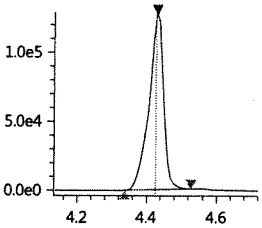
PFHxS-18O_IS
Conc 5.0000
RT 4.431 Area 283726
ISTD 402.70>84.05 1.18e5



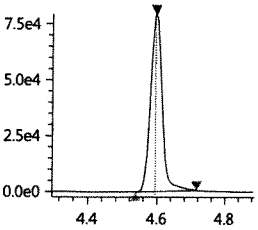
PFHxS-18O
Conc 2.8145
RT 4.431 Area 283726
Q 402.70>84.05 1.18e5



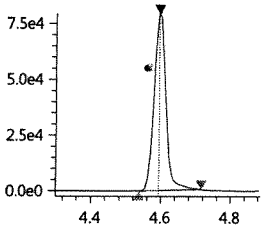
PFHxS_1
Conc 5.4050
RT 4.430 Area 373725
Q 399.00>80.00 1.29e5



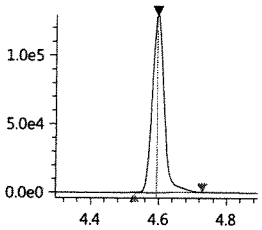
6_2-FTS-13C
Conc 3.0454
RT 4.596 Area 190246
Q 428.90>409.00 7.95e4



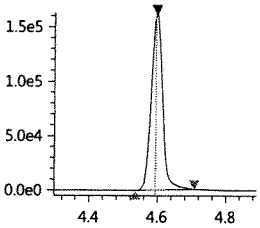
6_2-FTS-13C_IS
Conc 5.0000
RT 4.596 Area 190246
ISTD 428.90>409.00 7.95e4



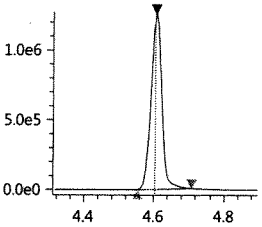
6_2-FTS_1
Conc 7.5310
RT 4.596 Area 314611
Q 427.00>407.00 1.29e5



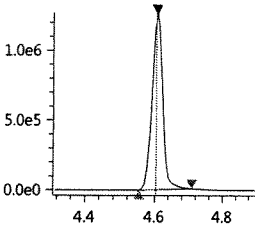
PFHpS_1
Conc 6.4609
RT 4.597 Area 368583
Q 449.00>80.15 1.63e5



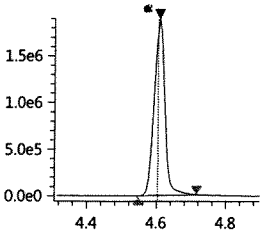
PFOA-13C_IS
Conc 5.0000
RT 4.607 Area 2737810
ISTD 416.80>372.05 1.27e6



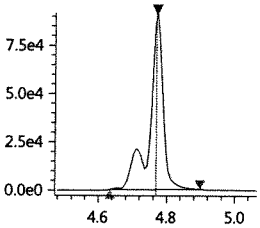
PFOA-13C
Conc 3.2195
RT 4.607 Area 2737810
Q 416.80>372.05 1.27e6



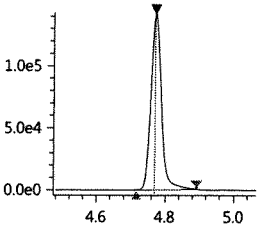
PFOA
Conc 6.6369
RT 4.607 Area 4066357
Q 413.00>369.00 1.90e6



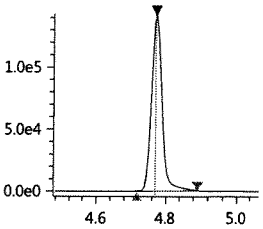
PFOS_1
Conc 5.5742
RT 4.772 Area 254779
Q 499.00>80.00 9.19e4



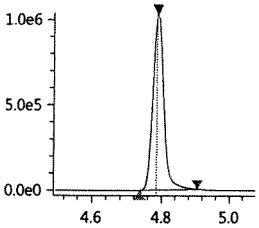
PFOS-13C_IS
Conc 5.0000
RT 4.772 Area 303846
ISTD 502.80>80.05 1.43e5



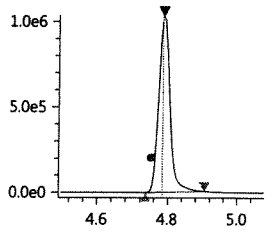
PFOS-13C
Conc 2.6338
RT 4.772 Area 303846
Q 502.80>80.05 1.43e5



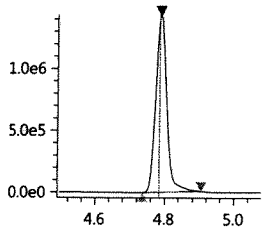
PFNA-13C_IS
Conc 5.0000
RT 4.788 Area 2287521
ISTD 467.80>423.00 1.04e6



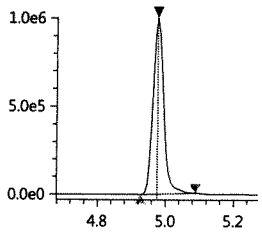
PFNA-13C
Conc 2.7267
RT 4.788 Area 2287521
Q 467.80>423.00 1.04e6



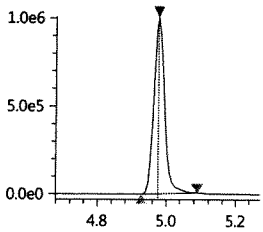
PFNA
Conc 8.1287
RT 4.788 Area 3137814
Q 463.00>418.90 1.44e6



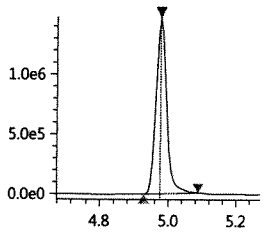
PFDA-13C_IS
Conc 5.0000
RT 4.977 Area 2178753
ISTD 514.80>469.95 1.01e6



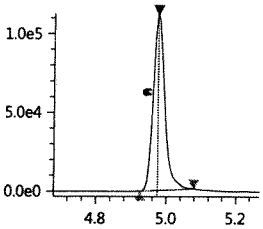
PFDA-13C
Conc 2.9604
RT 4.977 Area 2178753
Q 514.80>469.95 1.01e6



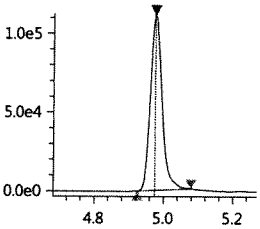
PFDA
Conc 6.6447
RT 4.977 Area 3229967
Q 513.00>468.80 1.48e6



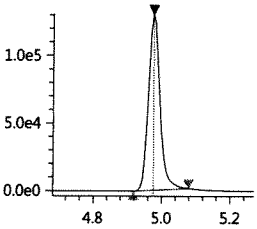
8_2-FTS-13C_IS
Conc 5.0000
RT 4.976 Area 259106
ISTD 528.80>509.00 1.13e5



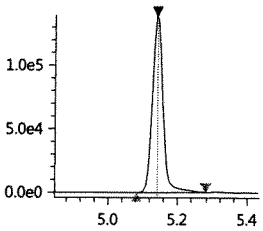
8_2-FTS-13C
Conc 4.2298
RT 4.976 Area 259106
Q 528.80>509.00 1.13e5



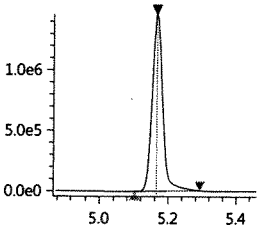
8_2-FTS_1
Conc 5.7771
RT 4.975 Area 303149
Q 526.90>506.90 1.31e5



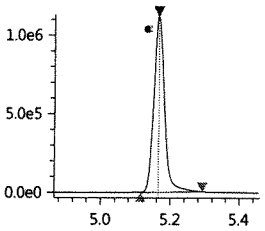
PFDS_1
Conc 6.2349
RT 5.140 Area 297747
Q 599.00>79.90 1.40e5



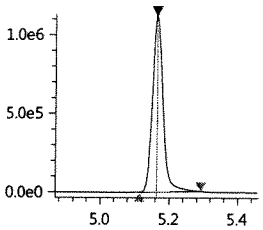
PFUnA
Conc 7.4635
RT 5.165 Area 3133845
Q 563.00>518.90 1.46e6



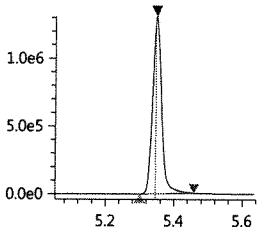
PFUnA-13C_IS
Conc 5.0000
RT 5.165 Area 2429893
ISTD 564.80>519.95 1.13e6



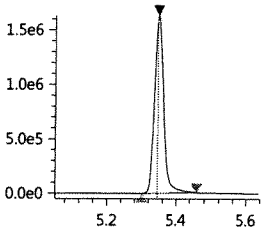
PFUnA-13C
Conc 2.9811
RT 5.165 Area 2429893
Q 564.80>519.95 1.13e6



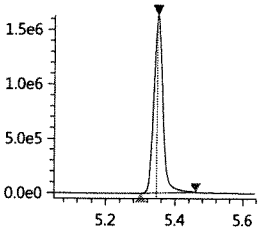
PFDoA
Conc 7.4512
RT 5.349 Area 2378796
Q 613.05>569.00 1.31e6



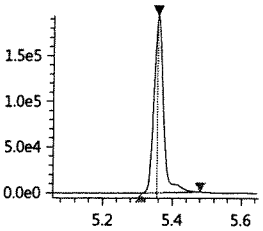
PFDoA-13C
Conc 2.8163
RT 5.349 Area 2940295
Q 614.80>569.95 1.63e6



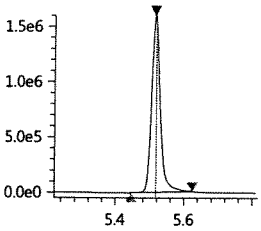
PFDoA-13C_IS
Conc 5.0000
RT 5.349 Area 2940295
ISTD 614.80>569.95 1.63e6



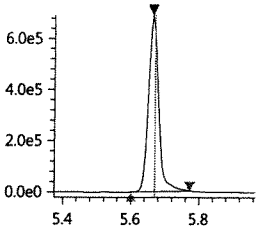
10_2-FtS_1
Conc 8.4860
RT 5.357 Area 367686
Q 627.00>606.95 1.94e5



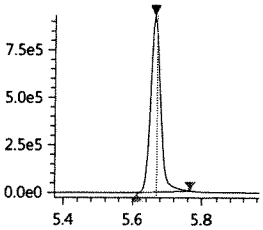
PFTrDA
Conc 7.6744
RT 5.515 Area 2931109
Q 663.00>618.90 1.60e6



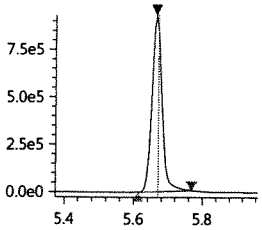
PFTeDA
Conc 8.5230
RT 5.665 Area 1428230
Q 713.40>669.00 6.94e5



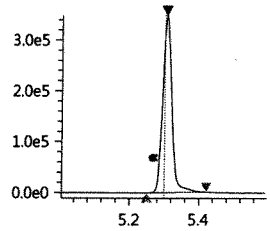
PFTeDA-13C
Conc 2.6399
RT 5.664 Area 1885958
Q 714.70>669.90 9.34e5



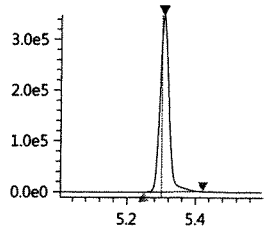
PFTeDA-13C_IS
Conc 5.0000
RT 5.664 Area 1885958
ISTD 714.70>669.90 9.34e5



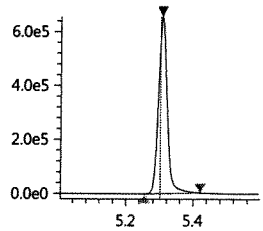
FOSA-13C_IS
Conc 5.0000
RT 5.307 Area 630588
ISTD 506.00>78.05 3.49e5



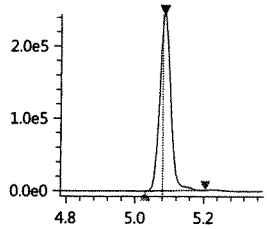
FOSA-13C
Conc 2.1802
RT 5.307 Area 630588
Q 506.00>78.05 3.49e5



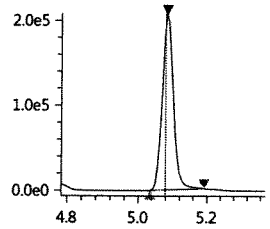
FOSA
Conc 6.5056
RT 5.307 Area 1200436
Q 498.00>78.00 6.58e5



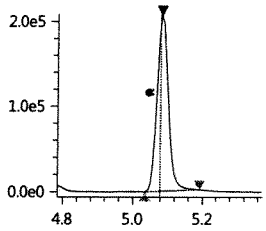
N-MeFOSAA
Conc 7.5967
RT 5.087 Area 542798
Q 570.20>419.00 2.45e5



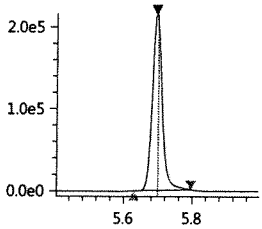
N-MeFOSAA-d3
Conc 2.8733
RT 5.084 Area 468427
Q 572.80>419.05 2.08e5



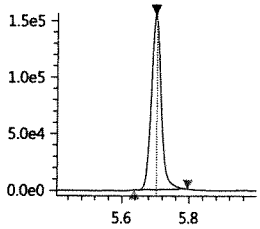
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.084 Area 468427
ISTD 572.80>419.05 2.08e5



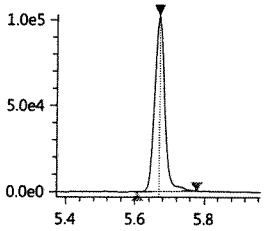
N-MeFOSA_IS
Conc 5.0000
RT 5.696 Area 435462
ISTD 514.90>168.90 2.17e5



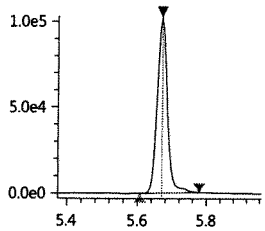
N-MeFOSA
Conc 4.6495
RT 5.699 Area 317433
Q 512.00>169.10 1.57e5



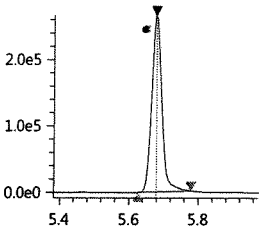
N-MeFOSE-d7
Conc 2.3725
RT 5.670 Area 208594
Q 622.70>59.10 1.03e5



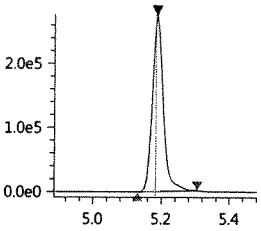
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.670 Area 208594
ISTD 622.70>59.10 1.03e5



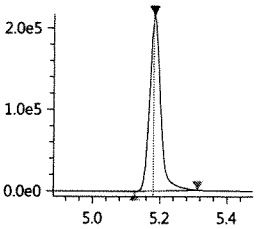
N-MeFOSE
Conc 6.4159
RT 5.678 Area 547665
Q 616.00>59.00 2.67e5



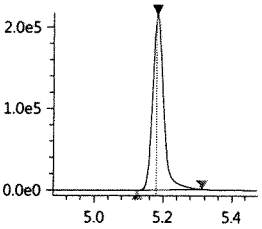
N-EtFOSAA
Conc 7.7126
RT 5.187 Area 616578
Q 584.20>418.95 2.77e5



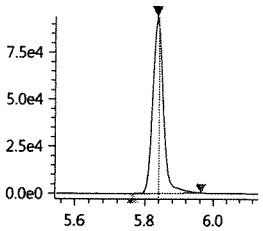
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.183 Area 486431
ISTD 588.80>419.00 2.18e5



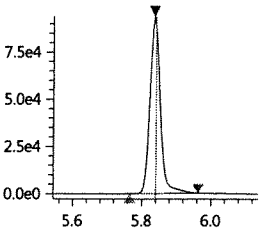
N-EtFOSAA-d5
Conc 3.0661
RT 5.183 Area 486431
Q 588.80>419.00 2.18e5



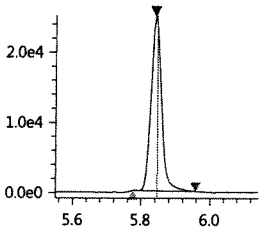
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.836 Area 200802
ISTD 530.90>169.15 9.42e4



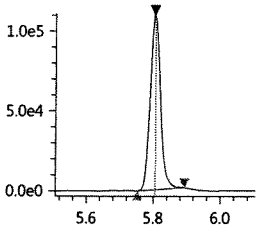
N-EtFOSA-d9
Conc 1.7031
RT 5.836 Area 200802
Q 530.90>169.15 9.42e4



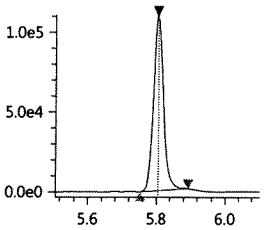
N-EtFOSA
Conc 6.1333
RT 5.842 Area 52604
Q 526.90>169.10 2.53e4



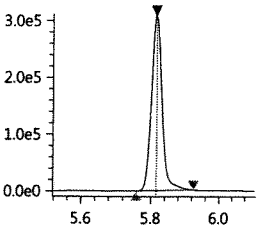
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.804 Area 226361
ISTD 638.70>59.10 1.11e5



N-EtFOSE-d9
Conc 2.4740
RT 5.804 Area 226361
Q 638.70>59.10 1.11e5



N-EtFOSE
Conc 6.1897
RT 5.815 Area 658309
Q 630.00>58.90 3.12e5



Validation Report

Data File: J:\LCMS06\Data\072617_b3\072617_133
Lab ID: KQ1710167-02
RunType: DLCS
Matrix: Drinking Water

Date Acquired: 7/26/17 14:48
Batch ID: 555060
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-6:2 FTS	178	70	130	Natives ok
	13C2-8:2 FTS	170	70	130	↓

Primary Review: 7-27-17

Secondary Review: JUL 27 2017

Printed: 7/27/17 11:45
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072617_b3\072617_133	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 14:48	**Vial:**	4
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ1710167-02	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Drinking Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/22/17

Analysis Lot:	555060	**Prep Lot:**	293673	**Report Group:**	KQ1710167
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	7/25/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.700	420879	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.420	2036520	4.3210	86	19 - 126	Y
13C2-PFHxA	4.250	2581090	3.9012	78	10 - 151	Y
18O2-PFHxS	4.438	365197	3.7284	75	20 - 128	Y
13C2-6:2 FTS	4.603	362901	5.6651	113	10 - 187	Y
13C4-PFOA	4.615	3434073	4.0083	80	13 - 142	Y
13C5-PFNA	4.793	2733105	3.5544	71	15 - 143	Y
13C4-PFOS	4.777	384092	3.5921	72	11 - 131	Y
13C2-PFDA	4.982	2668113	4.2023	84	25 - 129	Y
13C2-PFUnDA	5.170	2846821	3.7668	75	16 - 129	Y
13C2-PFDoDA	5.353	3366943	3.5173	70	17 - 114	Y
D7-MeFOSE	5.673	261291	2.3668	47	32 - 113	Y
D9-EtFOSE	5.807	292347	2.1957	44	20 - 113	Y
D5-EtFOSA	5.839	225535	1.9827	40	19 - 103	Y
13C2-8:2 FTS	4.980	388792	6.7364	135	50 - 150	Y
13C2-PFTeDA	5.668	2426004	3.1338	63	50 - 150	Y
13C4-PFHpA	4.440	2637742	3.9533	79	50 - 150	Y
13C5-PFPeA	3.988	884823	3.7967	76	50 - 150	Y
13C3-PFBS	4.038	441795	2.6867	54	50 - 150	Y
13C8-FOSA	5.312	806196	2.7754	56	50 - 150	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.421	1487702	2.8382	94.6		Y
Perfluoropentanoic acid (PFPeA)	3.989	1739197	2.9725	99.1		Y

Data File:	J:\LCMS06\Data\072617_b3\072617_133	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 14:48	**Vial:**	4
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ1710167-02	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.038	385880	5.1549	172		Y
Perfluorohexanoic acid (PFHxA)	4.250	1598534	3.1516	105		Y
Perfluoroheptanoic acid (PFHpA)	4.440	1942386	3.3517	112		Y
Perfluorohexane sulfonic acid (PFHxS)	4.437	370931	3.6603	122		Y
Perfluorooctanoic acid (PFOA)	4.615	2573837	2.9650	98.8		Y
Perfluoroheptane sulfonic acid (PFHpS)	4.604	381947	4.8002	160		Y
Perfluorononanoic acid (PFNA)	4.793	1908249	3.1687	106		Y
Perfluorooctane sulfonic acid (PFOS)	4.777	265885	4.2680	142		Y
Perfluorodecanoic acid (PFDA)	4.982	2055821	2.8134	93.8		Y
Perfluoroundecanoic acid (PFUnDA)	5.170	1753345	2.6694	89.0		Y
Perfluorooctane sulfonamide (FOSA)	5.312	1128799	4.5588	152		Y
Perfluorododecanoic acid (PFDoDA)	5.353	1397383	3.1776	106		Y
Perfluorotridecanoic acid (PFTrDA)	5.519	1623033	3.3626	112		Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.702	282279	4.4490	148		Y
N-Methyl perfluorooctane sulfonamidoethanol	5.681	501198	5.4588	182		Y
Perfluorotetradecanoic acid (PFTeDA)	5.668	843422	3.1787	106		Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.818	596507	6.5018	217		Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.845	48922	5.8661	196		Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.979	344703	4.5982	153		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.603	427344	4.4669	149		Y
Perfluorodecane sulfonic acid (PFDS)	5.145	267204	3.6346	121		Y

Prep Amount:	60 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 11:45

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072617_133

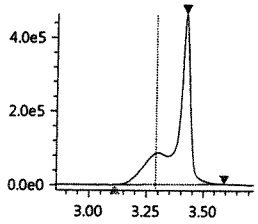
Sample ID: KQ1710167-02
Date acquired: 7/26/2017 2:48:56 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b3\072617_133.lcd
Vial: 22 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.420	2036520	2036520	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.420	2036520	420879	1	4.3210	ng/mL	----	----	Auto
PFBA	3.421	1487702	2036520	2	2.8382	ng/mL	----	----	M
PFPeA-13C_IS	3.988	884823	884823	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.988	884823	420879	1	3.7967	ng/mL	----	----	Auto
PFPeA	3.989	1739197	884823	4	2.9725	ng/mL	----	----	Auto
PFBS_1	4.038	385880	441795	16	5.1549	ng/mL	----	----	Auto
PFBS-13C	4.038	441795	420879	1	2.6867	ng/mL	----	----	Auto
PFBS-13C_IS	4.038	441795	441795	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.250	2581090	2581090	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.250	2581090	420879	1	3.9012	ng/mL	----	----	Auto
PFHxA	4.250	1598534	2581090	6	3.1516	ng/mL	----	----	Auto
HPFO_DA	4.316	438607	489849	3	4.7070	ng/mL	----	----	Auto
HFPO_DA-13C_IS	4.316	489849	489849	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.316	489849	420879	1	2.9868	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.224	401891	401891	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.224	401891	420879	1	3.7600	ng/mL	----	----	Auto
4_2-FTS_1	4.223	399935	401891	5	3.9072	ng/mL	----	----	Auto
PFHpA	4.440	1942386	2637742	8	3.3517	ng/mL	----	----	Auto
PFHpA-13C_IS	4.440	2637742	2637742	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.440	2637742	420879	1	3.9533	ng/mL	----	----	Auto
PFHxS-18O_IS	4.438	365197	365197	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.438	365197	420879	1	3.7284	ng/mL	----	----	Auto
PFHxS_1	4.437	370931	365197	7	3.6603	ng/mL	----	----	Auto
6_2-FTS-13C	4.603	362901	420879	1	5.6651	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.603	362901	362901	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.603	427344	362901	10	4.4669	ng/mL	----	----	Auto
PFHpS_1	4.604	381947	365197	7	4.8002	ng/mL	----	----	Auto
PFOA-13C_IS	4.615	3434073	3434073	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.615	3434073	420879	1	4.0083	ng/mL	----	----	Auto
PFOA	4.615	2573837	3434073	9	2.9650	ng/mL	----	----	Auto
PFOS_1	4.777	265885	384092	13	4.2680	ng/mL	----	----	Auto
PFOS-13C_IS	4.777	384092	384092	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.777	384092	420879	1	3.5921	ng/mL	----	----	Auto
PFNA-13C_IS	4.793	2733105	2733105	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.793	2733105	420879	1	3.5544	ng/mL	----	----	Auto
PFNA	4.793	1908249	2733105	11	3.1687	ng/mL	----	----	Auto
PFDA-13C_IS	4.982	2668113	2668113	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.982	2668113	420879	1	4.2023	ng/mL	----	----	Auto
PFDA	4.982	2055821	2668113	12	2.8134	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.980	388792	388792	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.980	388792	420879	1	6.7364	ng/mL	----	----	Auto
8_2-FTS_1	4.979	344703	388792	15	4.5982	ng/mL	----	----	Auto
PFDS_1	5.145	267204	384092	13	3.6346	ng/mL	----	----	Auto
PFUnA	5.170	1753345	2846821	14	2.6694	ng/mL	----	----	Auto
PFUnA-13C_IS	5.170	2846821	2846821	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.170	2846821	420879	1	3.7668	ng/mL	----	----	Auto
PFDoA	5.353	1397383	3366943	17	3.1776	ng/mL	----	----	Auto
PFDoA-13C	5.353	3366943	420879	1	3.5173	ng/mL	----	----	Auto
PFDoA-13C_IS	5.353	3366943	3366943	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	5.361	245569	388792	15	3.3403	ng/mL	----	----	Auto
PFTrDA	5.519	1623033	2426004	22	3.3626	ng/mL	----	----	Auto
PFTeDA	5.668	843422	2426004	22	3.1787	ng/mL	----	----	Auto
PFTeDA-13C	5.668	2426004	420879	1	3.1338	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.668	2426004	2426004	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.312	806196	806196	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.312	806196	420879	1	2.7754	ng/mL	----	----	Auto
FOSA	5.312	1128799	806196	18	4.5588	ng/mL	----	----	Auto
N-MeFOSAA	5.091	573081	631622	19	5.6640	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.089	631622	420879	1	3.3575	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.089	631622	631622	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.700	420879	420879	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.702	282279	261291	20	4.4490	ng/mL	----	----	Auto
N-MeFOSE-d7	5.673	261291	420879	1	2.3668	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.673	261291	261291	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	5.681	501198	261291	20	5.4588	ng/mL	----	----	Auto
N-EtFOSAA	5.192	512575	558007	21	5.4432	ng/mL	----	----	Auto

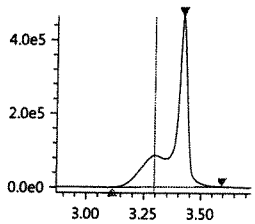
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.188	558007	558007	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.188	558007	420879	1	3.2697	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.839	225535	225535	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.839	225535	420879	1	1.9827	ng/mL	----	----	Auto
N-EtFOSA	5.845	48922	225535	23	5.8661	ng/mL	----	----	Auto
N-EtFOSE-d9_IS	5.807	292347	292347	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.807	292347	420879	1	2.1957	ng/mL	----	----	Auto
N-EtFOSE	5.818	596507	292347	24	6.5018	ng/mL	----	----	Auto

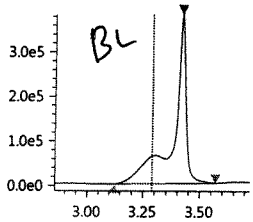
PFBA-13C_IS
Conc 5.0000
RT 3.420 Area 2036520
ISTD 216.90>172.15 4.64e5



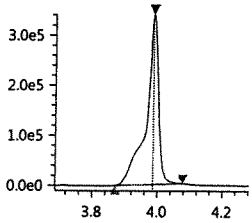
PFBA-13C
Conc 4.3210
RT 3.420 Area 2036520
Q 216.90>172.15 4.64e5



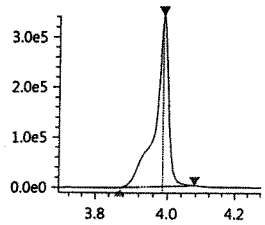
PFBA
Conc 2.8382
RT 3.421 Area 1487702
Q 213.00>169.10 3.84e5



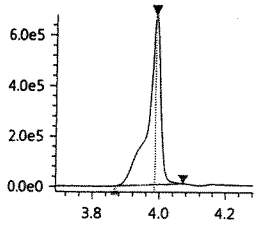
PFPeA-13C_IS
Conc 5.0000
RT 3.988 Area 884823
ISTD 267.90>223.00 3.42e5



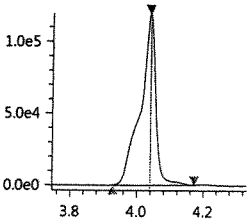
PFPeA-13C
Conc 3.7967
RT 3.988 Area 884823
Q 267.90>223.00 3.42e5



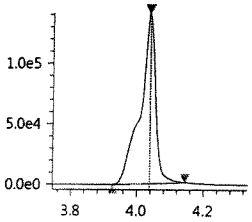
PFPeA
Conc 2.9725
RT 3.989 Area 1739197
Q 263.05>219.10 6.79e5



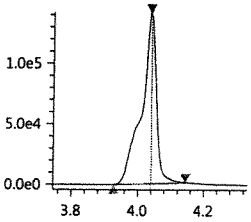
PFBS_1
Conc 5.1549
RT 4.038 Area 385880
Q 299.00>80.00 1.20e5



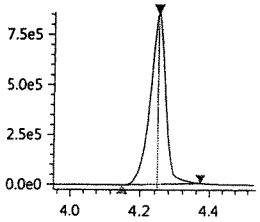
PFBS-13C
Conc 2.6867
RT 4.038 Area 441795
Q 301.80>80.00 1.42e5



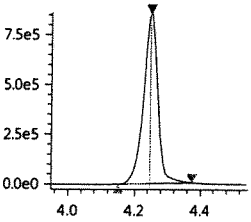
PFBS-13C_IS
Conc 5.0000
RT 4.038 Area 441795
ISTD 301.80>80.00 1.42e5



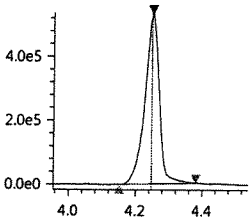
PFHxA-13C_IS
Conc 5.0000
RT 4.250 Area 2581090
ISTD 314.90>270.10 8.62e5



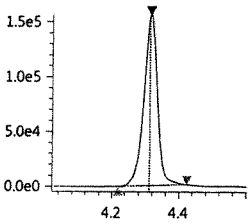
PFHxA-13C
Conc 3.9012
RT 4.250 Area 2581090
Q 314.90>270.10 8.62e5



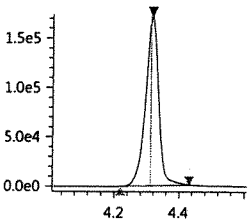
PFHxA
Conc 3.1516
RT 4.250 Area 1598534
Q 313.00>269.00 5.37e5



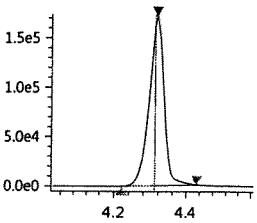
HPFO_DA
Conc 4.7070
RT 4.316 Area 438607
Q 329.00>169.00 1.57e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.316 Area 489849
ISTD 332.00>286.80 1.74e5

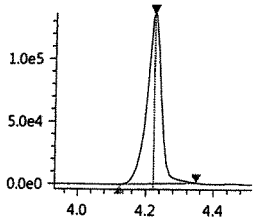


HFPO_DA-13C
Conc 2.9868
RT 4.316 Area 489849
Q 332.00>286.80 1.74e5

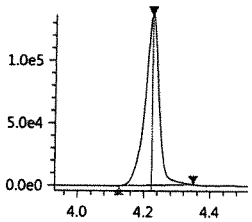


JUL 27 2017

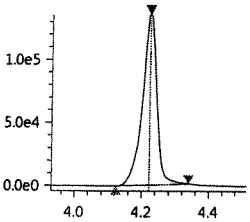
4_2-FTS-13C_IS
Conc 5.0000
RT 4.224 Area 401891
ISTD 328.80>309.05 1.37e5



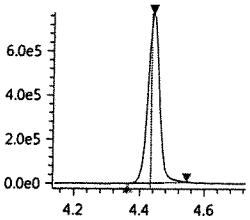
4_2-FTS-13C
Conc 3.7600
RT 4.224 Area 401891
Q 328.80>309.05 1.37e5



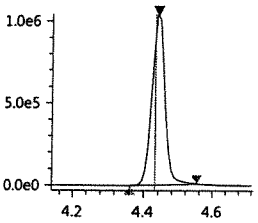
4_2-FTS_1
Conc 3.9072
RT 4.223 Area 399935
Q 327.00>307.05 1.36e5



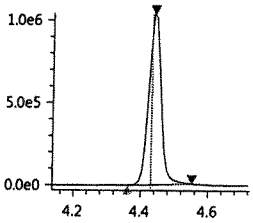
PFHpA
Conc 3.3517
RT 4.440 Area 1942386
Q 362.90>319.00 7.75e5



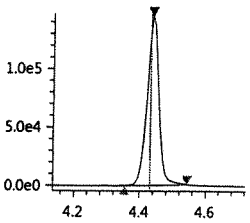
PFHpA-13C_IS
Conc 5.0000
RT 4.440 Area 2637742
ISTD 366.90>322.10 1.04e6



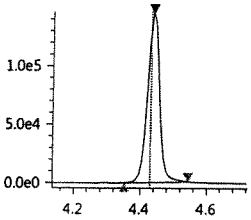
PFHpA-13C
Conc 3.9533
RT 4.440 Area 2637742
Q 366.90>322.10 1.04e6



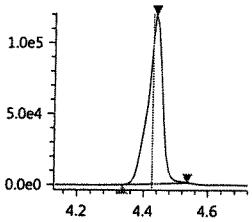
PFHxS-18O_IS
Conc 5.0000
RT 4.438 Area 365197
ISTD 402.70>84.05 1.47e5



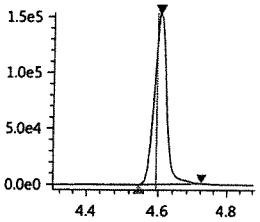
PFHxS-18O
Conc 3.7284
RT 4.438 Area 365197
Q 402.70>84.05 1.47e5



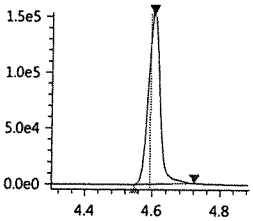
PFHxS_1
Conc 3.6603
RT 4.437 Area 370931
Q 399.00>80.00 1.21e5



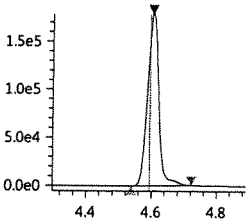
6_2-FTS-13C
Conc 5.6651
RT 4.603 Area 362901
Q 428.90>409.00 1.54e5



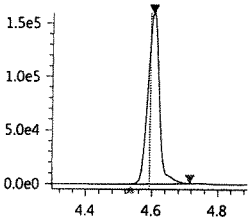
6_2-FTS-13C_IS
Conc 5.0000
RT 4.603 Area 362901
ISTD 428.90>409.00 1.54e5



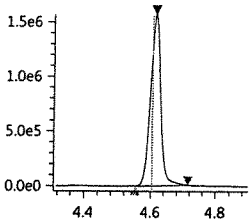
6_2-FTS_1
Conc 4.4669
RT 4.603 Area 427344
Q 427.00>407.00 1.78e5



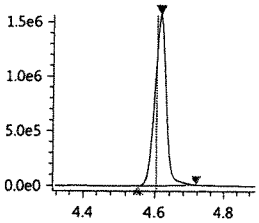
PFHpS_1
Conc 4.8002
RT 4.604 Area 381947
Q 449.00>80.15 1.60e5



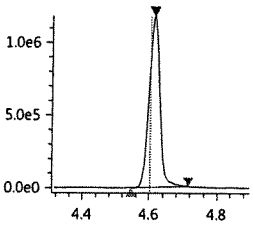
PFOA-13C_IS
Conc 5.0000
RT 4.615 Area 3434073
ISTD 416.80>372.05 1.57e6



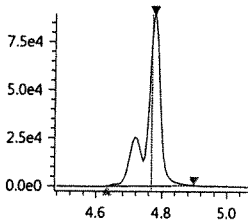
PFOA-13C
Conc 4.0083
RT 4.615 Area 3434073
Q 416.80>372.05 1.57e6



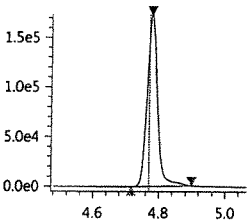
PFOA
Conc 2.9650
RT 4.615 Area 2573837
Q 413.00>369.00 1.19e6



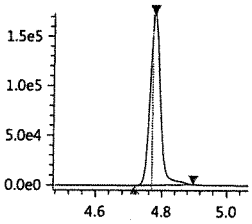
PFOS_1
Conc 4.2680
RT 4.777 Area 265885
Q 499.00>80.00 8.97e4



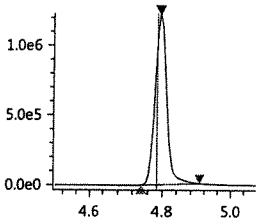
PFOS-13C_IS
Conc 5.0000
RT 4.777 Area 384092
ISTD 502.80>80.05 1.73e5



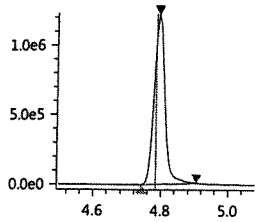
PFOS-13C
Conc 3.5921
RT 4.777 Area 384092
Q 502.80>80.05 1.73e5



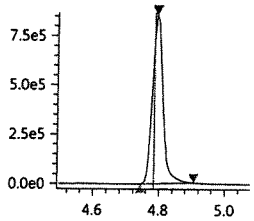
PFNA-13C_IS
Conc 5.0000
RT 4.793 Area 2733105
ISTD 467.80>423.00 1.23e6



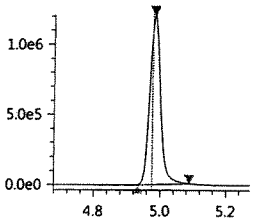
PFNA-13C
Conc 3.5544
RT 4.793 Area 2733105
Q 467.80>423.00 1.23e6



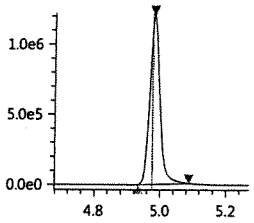
PFNA
Conc 3.1687
RT 4.793 Area 1908249
Q 463.00>418.90 8.67e5



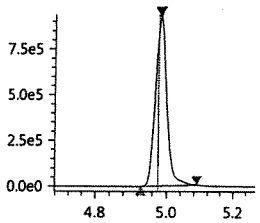
PFDA-13C_IS
Conc 5.0000
RT 4.982 Area 2668113
ISTD 514.80>469.95 1.22e6



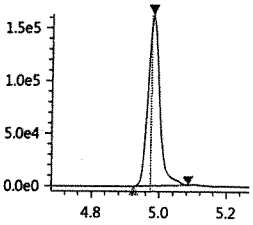
PFDA-13C
Conc 4.2023
RT 4.982 Area 2668113
Q 514.80>469.95 1.22e6



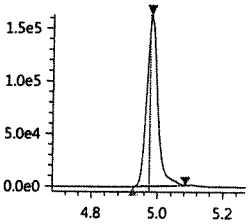
PFDA
Conc 2.8134
RT 4.982 Area 2055821
Q 513.00>468.80 9.37e5



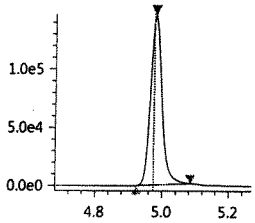
8_2-FTS-13C_IS
Conc 5.0000
RT 4.980 Area 388792
ISTD 528.80>509.00 1.63e5



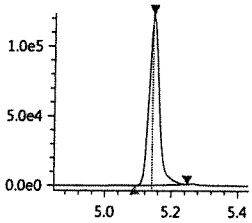
8_2-FTS-13C
Conc 6.7364
RT 4.980 Area 388792
Q 528.80>509.00 1.63e5



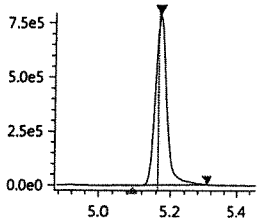
8_2-FTS_1
Conc 4.5982
RT 4.979 Area 344703
Q 526.90>506.90 1.48e5



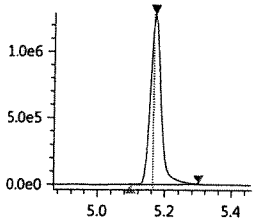
PFDS_1
Conc 3.6346
RT 5.145 Area 267204
Q 599.00>79.90 1.24e5



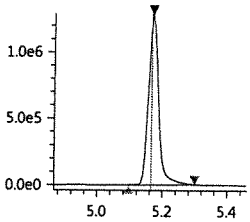
PFUnA
Conc 2.6694
RT 5.170 Area 1753345
Q 563.00>518.90 7.96e5



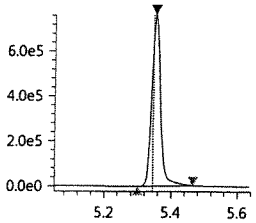
PFUnA-13C_IS
Conc 5.0000
RT 5.170 Area 2846821
ISTD 564.80>519.95 1.29e6



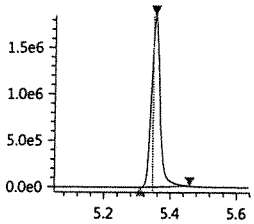
PFUnA-13C
Conc 3.7668
RT 5.170 Area 2846821
Q 564.80>519.95 1.29e6



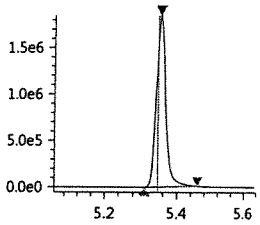
PFDoA
Conc 3.1776
RT 5.353 Area 1397383
Q 613.05>569.00 7.64e5



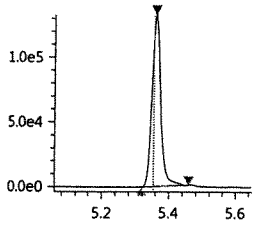
PFDoA-13C
Conc 3.5173
RT 5.353 Area 3366943
Q 614.80>569.95 1.85e6



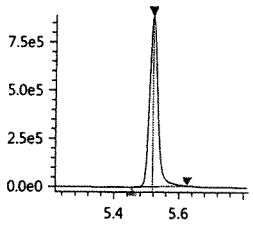
PFDoA-13C_IS
Conc 5.0000
RT 5.353 Area 3366943
ISTD 614.80>569.95 1.85e6



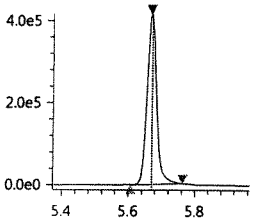
10_2-FtS_1
Conc 3.3403
RT 5.361 Area 245569
Q 627.00>606.95 1.33e5



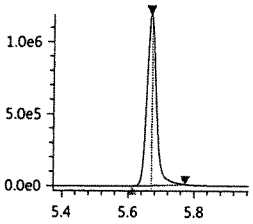
PFTrDA
Conc 3.3626
RT 5.519 Area 1623033
Q 663.00>618.90 8.91e5



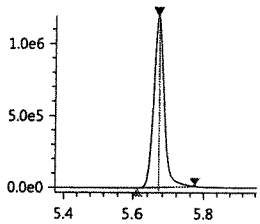
PFTeDA
Conc 3.1787
RT 5.668 Area 843422
Q 713.40>669.00 4.19e5



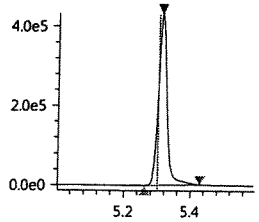
PFTeDA-13C
Conc 3.1338
RT 5.668 Area 2426004
Q 714.70>669.90 1.19e6



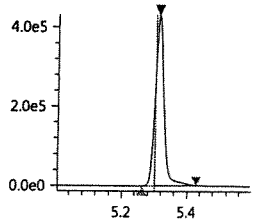
PFTeDA-13C_IS
Conc 5.0000
RT 5.668 Area 2426004
ISTD 714.70>669.90 1.19e6



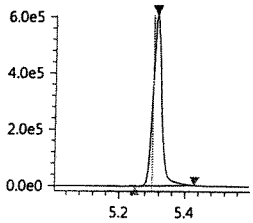
FOSA-13C_IS
Conc 5.0000
RT 5.312 Area 806196
ISTD 506.00>78.05 4.32e5



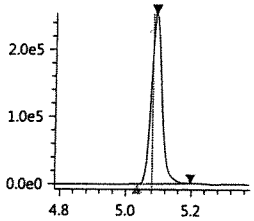
FOSA-13C
Conc 2.7754
RT 5.312 Area 806196
Q 506.00>78.05 4.32e5



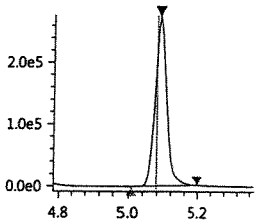
FOSA
Conc 4.5588
RT 5.312 Area 1128799
Q 498.00>78.00 6.08e5



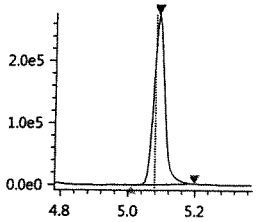
N-MeFOSAA
Conc 5.6640
RT 5.091 Area 573081
Q 570.20>419.00 2.54e5



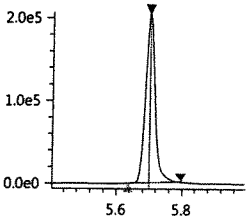
N-MeFOSAA-d3
Conc 3.3575
RT 5.089 Area 631622
Q 572.80>419.05 2.76e5



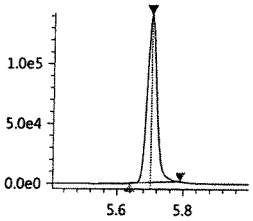
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.089 Area 631622
ISTD 572.80>419.05 2.76e5



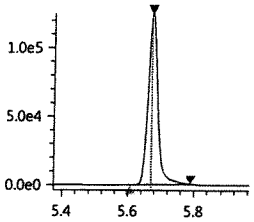
N-MeFOSA_IS
Conc 5.0000
RT 5.700 Area 420879
ISTD 514.90>168.90 2.07e5



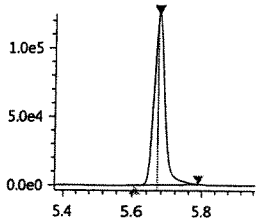
N-MeFOSA
Conc 4.4490
RT 5.702 Area 282279
Q 512.00>169.10 1.43e5



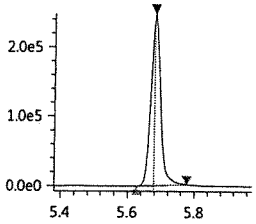
N-MeFOSE-d7
Conc 2.3668
RT 5.673 Area 261291
Q 622.70>59.10 1.25e5



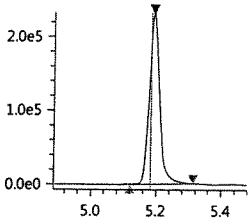
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.673 Area 261291
ISTD 622.70>59.10 1.25e5



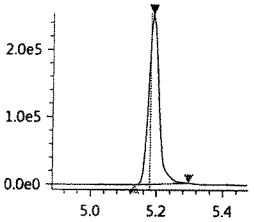
N-MeFOSE
Conc 5.4588
RT 5.681 Area 501198
Q 616.00>59.00 2.48e5



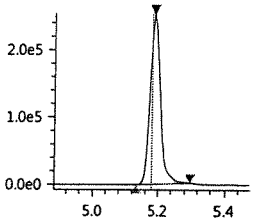
N-EtFOSAA
Conc 5.4432
RT 5.192 Area 512575
Q 584.20>418.95 2.33e5



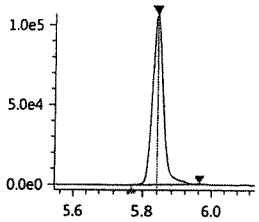
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.188 Area 558007
ISTD 588.80>419.00 2.55e5



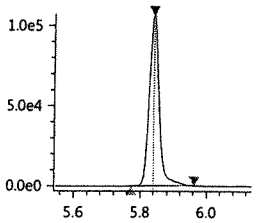
N-EtFOSAA-d5
Conc 3.2697
RT 5.188 Area 558007
Q 588.80>419.00 2.55e5



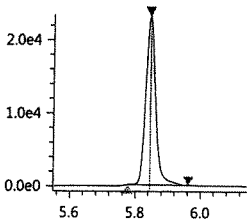
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.839 Area 225535
ISTD 530.90>169.15 1.07e5



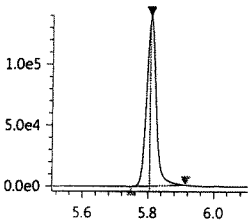
N-EtFOSA-d9
Conc 1.9827
RT 5.839 Area 225535
Q 530.90>169.15 1.07e5



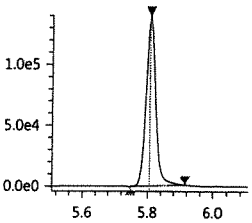
N-EtFOSA
Conc 5.8661
RT 5.845 Area 48922
Q 526.90>169.10 2.35e4



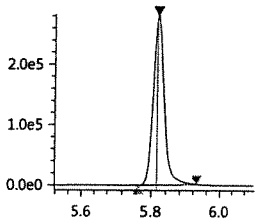
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.807 Area 292347
ISTD 638.70>59.10 1.41e5



N-EtFOSE-d9
Conc 2.1957
RT 5.807 Area 292347
Q 638.70>59.10 1.41e5



N-EtFOSE
Conc 6.5018
RT 5.818 Area 596507
Q 630.00>58.90 2.83e5



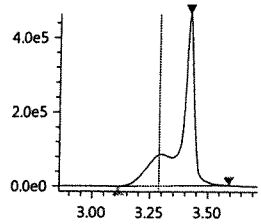
Insight Report

Printed at 7/27/2017 9:23:02 AM

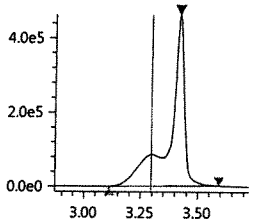
072617_133 B4

Sample ID: KQ1710167-02
Date acquired: 7/26/2017 2:48:56 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b3\072617_133.lcd
Vial: 22 | Inj. Volume: 15.0000uL | Tray: 2

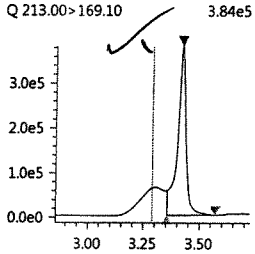
PFBA-13C_IS
Conc 5.0000
RT 3.420 Area 2036520
ISTD 216.90>172.15 4.64e5



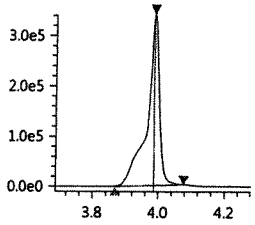
PFBA-13C
Conc 4.3210
RT 3.420 Area 2036520
Q 216.90>172.15 4.64e5



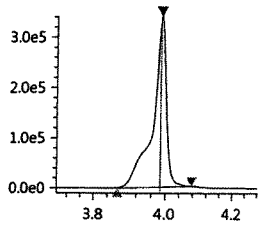
PFBA
Conc 1.9277
RT 3.421 Area 1010448
Q 213.00>169.10 3.84e5



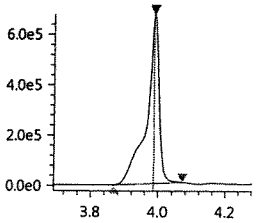
PFPeA-13C_IS
Conc 5.0000
RT 3.988 Area 884823
ISTD 267.90>223.00 3.42e5



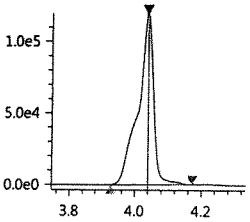
PFPeA-13C
Conc 3.7967
RT 3.988 Area 884823
Q 267.90>223.00 3.42e5



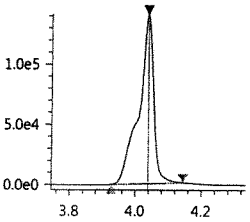
PFPeA
Conc 2.9725
RT 3.989 Area 1739197
Q 263.05>219.10 6.79e5



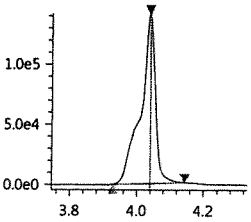
PFBS_1
Conc 5.1549
RT 4.038 Area 385880
Q 299.00>80.00 1.20e5



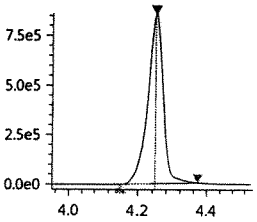
PFBS-13C
Conc 2.6867
RT 4.038 Area 441795
Q 301.80>80.00 1.42e5



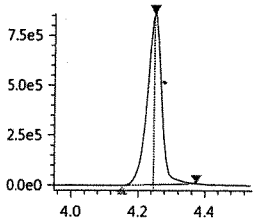
PFBS-13C_IS
Conc 5.0000
RT 4.038 Area 441795
ISTD 301.80>80.00 1.42e5



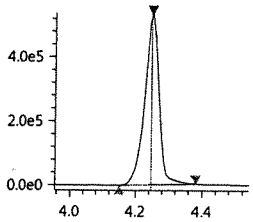
PFHxA-13C_IS
Conc 5.0000
RT 4.250 Area 2581090
ISTD 314.90>270.10 8.62e5



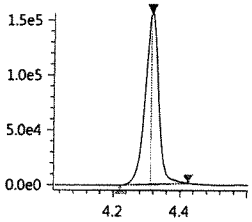
PFHxA-13C
Conc 3.9012
RT 4.250 Area 2581090
Q 314.90>270.10 8.62e5



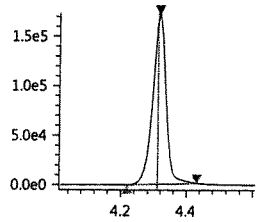
PFHxA
Conc 3.1516
RT 4.250 Area 1598534
Q 313.00>269.00 5.37e5



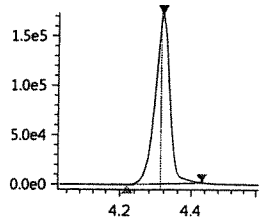
HPFO_DA
Conc 4.7070
RT 4.316 Area 438607
Q 329.00>169.00 1.57e5



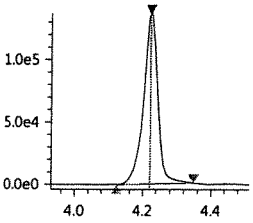
HFPO_DA-13C_IS
Conc 5.0000
RT 4.316 Area 489849
ISTD 332.00>286.80 1.74e5



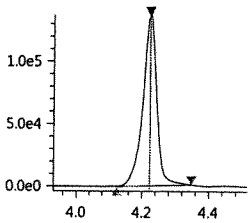
HFPO_DA-13C
Conc 2.9868
RT 4.316 Area 489849
Q 332.00>286.80 1.74e5



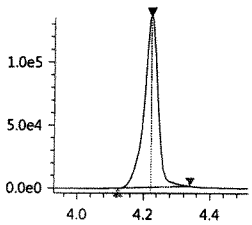
4_2-FTS-13C_IS
Conc 5.0000
RT 4.224 Area 401891
ISTD 328.80>309.05 1.37e5



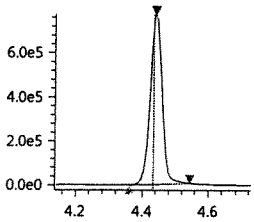
4_2-FTS-13C
Conc 3.7600
RT 4.224 Area 401891
Q 328.80>309.05 1.37e5



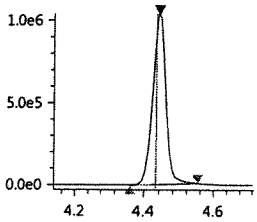
4_2-FTS_1
Conc 3.9072
RT 4.223 Area 399935
Q 327.00>307.05 1.36e5



PFHpA
Conc 3.3517
RT 4.440 Area 1942386
Q 362.90>319.00 7.75e5



PFHpA-13C_IS
Conc 5.0000
RT 4.440 Area 2637742
ISTD 366.90>322.10 1.04e6



JUL 27 2017

Validation Report

Data File: J:\LCMS06\Data\072817_b2\072817_137
Lab ID: KQ1710167-02
RunType: DLCS
Matrix: Drinking Water

Date Acquired: 7/28/17 15:05
Batch ID: 555466
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	138	70	130	NR this bracket

Primary Review: LSD 7/31/17

Secondary Review: MJ 7/31/17

Printed: 7/31/17 11:29
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072817_b2\072817_137	**Instrument:**	K-LCMS-06
Acqu Date:	7/28/17 15:05	**Vial:**	10
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ1710167-02	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Drinking Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/22/17

Analysis Lot:	555466	**Prep Lot:**	293673	**Report Group:**	KQ1710167
Analysis Method:	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	7/25/17		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700134
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.696	446738	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.409	1947412	3.5176	70	19 - 126	Y
13C2-PFHxA	4.242	2637432	3.5667	71	10 - 151	Y
18O2-PFHxS	4.432	328852	3.1798	64	20 - 128	N
13C2-6:2 FTS	4.597	234596	3.6606	73	10 - 187	N
13C4-PFOA	4.608	3487714	3.9978	80	13 - 142	Y
13C5-PFNA	4.789	2849629	3.3110	66	15 - 143	Y
13C4-PFOS	4.772	376646	3.1825	64	11 - 131	N
13C2-PFDA	4.978	2598193	3.4412	69	25 - 129	Y
13C2-PFUnDA	5.166	2972217	3.5544	71	16 - 129	Y
13C2-PFDoDA	5.349	3627645	3.3870	68	17 - 114	Y
D7-MeFOSE	5.669	263330	2.9194	58	32 - 113	N
D9-EtFOSE	5.804	291764	3.1083	62	20 - 113	N
D5-EtFOSA	5.836	285628	2.3614	47	19 - 103	N
13C2-8:2 FTS	4.976	281382	4.4775	90	50 - 150	N
13C2-PFTeDA	5.664	2316675	3.1609	63	50 - 150	N
13C4-PFHpA	4.434	2345020	3.4629	69	50 - 150	N
13C5-PFPeA	3.979	804929	3.2450	65	50 - 150	N
13C3-PFBS	4.027	497317	3.1031	62	50 - 150	N
13C8-FOSA	5.308	836270	2.8183	56	50 - 150	N

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.410	2099925	5.0884	170		Y
Perfluoropentanoic acid (PFPeA)	3.979	2622208	5.9430	198		N

Data File:	J:\LCMS06\Data\072817_b2\072817_137	**Instrument:**	K-LCMS-06
Acqu Date:	7/28/17 15:05	**Vial:**	10
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ1710167-02	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.027	438359	5.0178	167		N
Perfluorohexanoic acid (PFHxA)	4.242	2349424	5.4161	181		Y
Perfluoroheptanoic acid (PFHpA)	4.434	2799466	6.3147	210		N
Perfluorohexane sulfonic acid (PFHxS)	4.431	362548	4.5239	151		N
Perfluorooctanoic acid (PFOA)	4.608	3933643	5.0399	168		Y
Perfluoroheptane sulfonic acid (PFHpS)	4.598	358668	5.5571	185		N
Perfluorononanoic acid (PFNA)	4.789	2973439	6.1834	206		Y
Perfluorooctane sulfonic acid (PFOS)	4.773	259354	4.5776	153		N
Perfluorodecanoic acid (PFDA)	4.977	2797946	4.8267	161		Y
Perfluoroundecanoic acid (PFUnDA)	5.166	2805077	5.4547	182		Y
Perfluorooctane sulfonamide (FOSA)	5.308	1208484	4.9384	165		N
Perfluorododecanoic acid (PFDoDA)	5.349	2139139	5.4309	181		Y
Perfluorotridecanoic acid (PFTrDA)	5.515	2567740	5.4731	182		N
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.699	313802	3.6409	121		N
N-Methyl perfluorooctane sulfonamidoethanol	5.677	557811	5.1765	173		N
Perfluorotetradecanoic acid (PFTeDA)	5.664	1312642	6.3522	212		N
N-Ethyl perfluorooctane sulfonamidoethanol	5.815	653864	4.7698	159		N
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.841	54883	4.4987	150		N
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.976	261768	4.5936	153		N
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.597	296055	5.7323	191		N
Perfluorodecane sulfonic acid (PFDS)	5.141	275413	4.6525	155		N

Prep Amount:	60 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/31/17 11:29

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072817_137

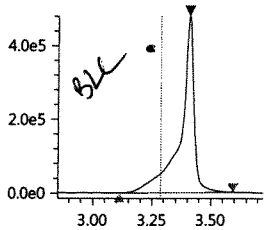
Sample ID: KQ1710167-02
Date acquired: 7/28/2017 3:05:37 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b2\072817_137.lcd
Vial: 15 | Inj. Volume: 15.0000uL | Tray: 2

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.409	1947695	1947695	2	5.0000	ng/mL	----	----	M
PFBA-13C	3.409	1947412	446738	1	3.5176	ng/mL	----	----	M
PFBA	3.410	2099925	1947695	2	5.0884	ng/mL	----	----	Auto
PFPeA-13C_IS	3.979	804929	804929	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.979	804929	446738	1	3.2450	ng/mL	----	----	Auto
PFPeA	3.979	2622208	804929	4	5.9430	ng/mL	----	----	Auto
PFBS_1	4.027	438359	497317	16	5.0178	ng/mL	----	----	Auto
PFBS-13C	4.027	497317	446738	1	3.1031	ng/mL	----	----	Auto
PFBS-13C_IS	4.027	497317	497317	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.242	2637432	2637432	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.242	2637432	446738	1	3.5667	ng/mL	----	----	Auto
PFHxA	4.242	2349424	2637432	6	5.4161	ng/mL	----	----	Auto
HPFO_DA	4.309	510900	501256	3	6.1527	ng/mL	----	----	Auto
HFPO_DA-13C_IS	4.309	501256	501256	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.309	501256	446738	1	2.6392	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.216	299954	299954	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.216	299954	446738	1	3.3259	ng/mL	----	----	Auto
4_2-FTS_1	4.216	321781	299954	5	4.6585	ng/mL	----	----	Auto
PFHpA	4.434	2799466	2345020	8	6.3147	ng/mL	----	----	Auto
PFHpA-13C_IS	4.434	2345020	2345020	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.434	2345020	446738	1	3.4629	ng/mL	----	----	Auto
PFHxS-18O_IS	4.432	328852	328852	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.432	328852	446738	1	3.1798	ng/mL	----	----	Auto
PFHxS_1	4.431	362548	328852	7	4.5239	ng/mL	----	----	Auto
6_2-FTS-13C	4.597	234596	446738	1	3.6606	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.597	234596	234596	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.597	296055	234596	10	5.7323	ng/mL	----	----	Auto
PFHpS_1	4.598	358668	328852	7	5.5571	ng/mL	----	----	Auto
PFOA-13C_IS	4.608	3487714	3487714	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.608	3487714	446738	1	3.9978	ng/mL	----	----	Auto
PFOA	4.608	3933643	3487714	9	5.0399	ng/mL	----	----	Auto
PFOS_1	4.773	259354	376646	13	4.5776	ng/mL	----	----	Auto
PFOS-13C_IS	4.772	376646	376646	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.772	376646	446738	1	3.1825	ng/mL	----	----	Auto
PFNA-13C_IS	4.789	2849629	2849629	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.789	2849629	446738	1	3.3110	ng/mL	----	----	Auto
PFNA	4.789	2973439	2849629	11	6.1834	ng/mL	----	----	Auto
PFDA-13C_IS	4.978	2598193	2598193	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.978	2598193	446738	1	3.4412	ng/mL	----	----	Auto
PFDA	4.977	2797946	2598193	12	4.8267	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.976	281382	281382	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.976	281382	446738	1	4.4775	ng/mL	----	----	Auto
8_2-FTS_1	4.976	261768	281382	15	4.5936	ng/mL	----	----	Auto
PFDS_1	5.141	275413	376646	13	4.6525	ng/mL	----	----	Auto
PFUnA	5.166	2805077	2972217	14	5.4547	ng/mL	----	----	Auto
PFUnA-13C_IS	5.166	2972217	2972217	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.166	2972217	446738	1	3.5544	ng/mL	----	----	Auto
PFDoA	5.349	2139139	3627645	17	5.4309	ng/mL	----	----	Auto
PFDoA-13C	5.349	3627645	446738	1	3.3870	ng/mL	----	----	Auto
PFDoA-13C_IS	5.349	3627645	3627645	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	5.358	293074	281382	15	6.2285	ng/mL	----	----	Auto
PFTrDA	5.515	2567740	2316675	22	5.4731	ng/mL	----	----	Auto
PFTeDA	5.664	1312642	2316675	22	6.3522	ng/mL	----	----	Auto
PFTeDA-13C	5.664	2316675	446738	1	3.1609	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.664	2316675	2316675	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.308	836270	836270	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.308	836270	446738	1	2.8183	ng/mL	----	----	Auto
FOSA	5.308	1208484	836270	18	4.9384	ng/mL	----	----	Auto
N-MeFOSAA	5.087	548408	568461	19	6.3262	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.084	568461	446738	1	3.3989	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.084	568461	568461	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.696	446738	446738	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.699	313802	263330	20	3.6409	ng/mL	----	----	Auto
N-MeFOSE-d7	5.669	263330	446738	1	2.9194	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.669	263330	263330	20	5.0000	ng/mL	----	----	Auto

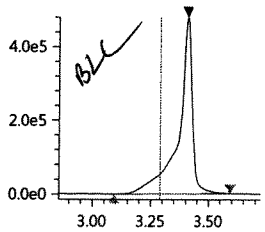
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-MeFOSE	5.677	557811	263330	20	5.1765	ng/mL	----	----	Auto
N-EtFOSAA	5.188	537523	590315	21	5.5405	ng/mL	----	----	Auto
N-EtFOSAA-d5_IS	5.184	590315	590315	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.184	590315	446738	1	3.6270	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.836	285628	285628	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.836	285628	446738	1	2.3614	ng/mL	----	----	Auto
N-EtFOSA	5.841	54883	285628	23	4.4987	ng/mL	----	----	Auto
N-EtFOSE-d9_IS	5.804	291764	291764	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.804	291764	446738	1	3.1083	ng/mL	----	----	Auto
N-EtFOSE	5.815	653864	291764	24	4.7698	ng/mL	----	----	Auto

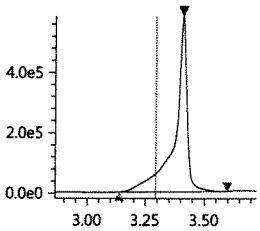
PFBA-13C_IS
Conc 5.0000
RT 3.409 Area 1947695
ISTD 216.90>172.15 4.81e5



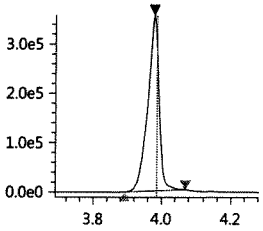
PFBA-13C
Conc 3.5176
RT 3.409 Area 1947412
Q 216.90>172.15 4.81e5



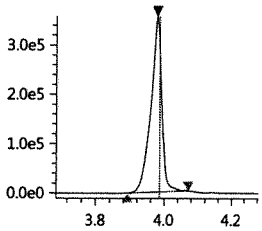
PFBA
Conc 5.0884
RT 3.410 Area 2099925
Q 213.00>169.10 5.86e5



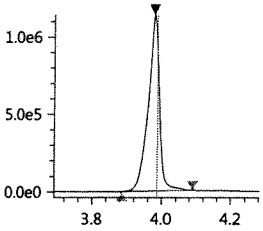
PFPeA-13C_IS
Conc 5.0000
RT 3.979 Area 804929
ISTD 267.90>223.00 3.58e5



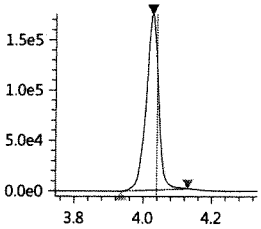
PFPeA-13C
Conc 3.2450
RT 3.979 Area 804929
Q 267.90>223.00 3.58e5



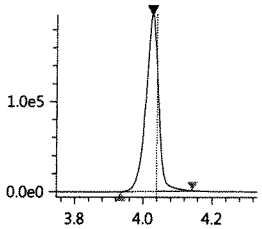
PFPeA
Conc 5.9430
RT 3.979 Area 2622208
Q 263.05>219.10 1.15e6



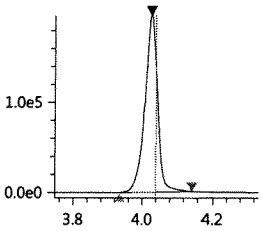
PFBS_1
Conc 5.0178
RT 4.027 Area 438359
Q 299.00>80.00 1.76e5



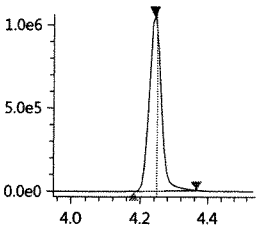
PFBS-13C
Conc 3.1031
RT 4.027 Area 497317
Q 301.80>80.00 1.97e5



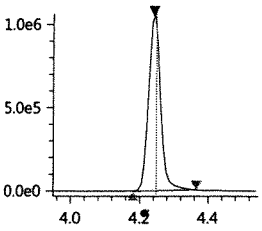
PFBS-13C_IS
Conc 5.0000
RT 4.027 Area 497317
ISTD 301.80>80.00 1.97e5



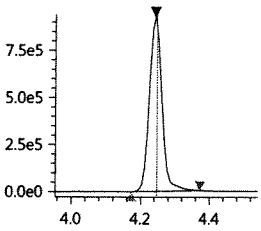
PFHxA-13C_IS
Conc 5.0000
RT 4.242 Area 2637432
ISTD 314.90>270.10 1.06e6



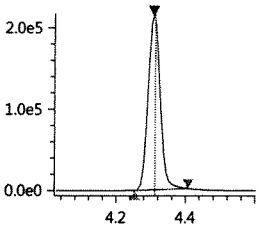
PFHxA-13C
Conc 3.5667
RT 4.242 Area 2637432
Q 314.90>270.10 1.06e6



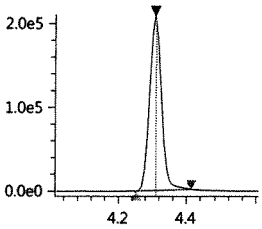
PFHxA
Conc 5.4161
RT 4.242 Area 2349424
Q 313.00>269.00 9.40e5



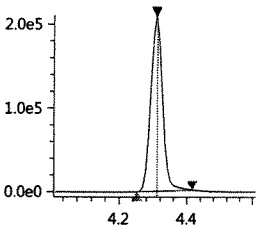
HPFO_DA
Conc 6.1527
RT 4.309 Area 510900
Q 329.00>169.00 2.18e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.309 Area 501256
ISTD 332.00>286.80 2.11e5

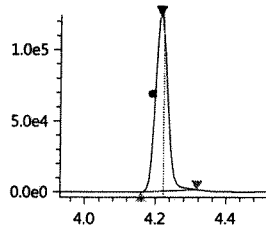


HFPO_DA-13C
Conc 2.6392
RT 4.309 Area 501256
Q 332.00>286.80 2.11e5

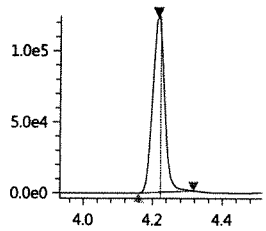


7/31/17

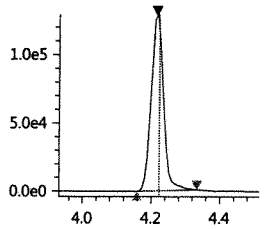
4_2-FTS-13C_IS
Conc 5.0000
RT 4.216 Area 299954
ISTD 328.80>309.05 1.25e5



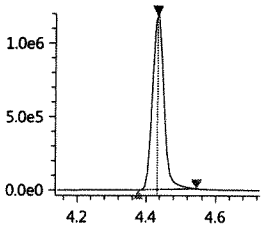
4_2-FTS-13C
Conc 3.3259
RT 4.216 Area 299954
Q 328.80>309.05 1.25e5



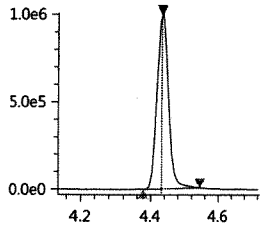
4_2-FTS_1
Conc 4.6585
RT 4.216 Area 321781
Q 327.00>307.05 1.30e5



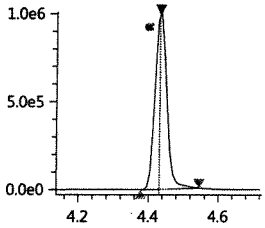
PFHpA
Conc 6.3147
RT 4.434 Area 2799466
Q 362.90>319.00 1.20e6



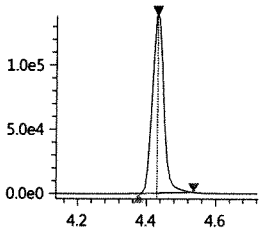
PFHpA-13C_IS
Conc 5.0000
RT 4.434 Area 2345020
ISTD 366.90>322.10 1.01e6



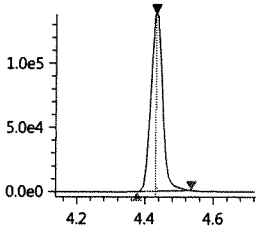
PFHpA-13C
Conc 3.4629
RT 4.434 Area 2345020
Q 366.90>322.10 1.01e6



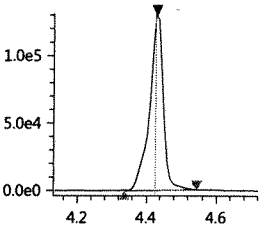
PFHxS-18O_IS
Conc 5.0000
RT 4.432 Area 328852
ISTD 402.70>84.05 1.38e5



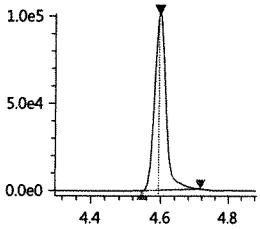
PFHxS-18O
Conc 3.1798
RT 4.432 Area 328852
Q 402.70>84.05 1.38e5



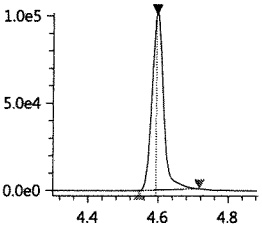
PFHxS_1
Conc 4.5239
RT 4.431 Area 362548
Q 399.00>80.00 1.32e5



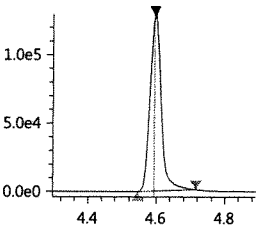
6_2-FTS-13C
Conc 3.6606
RT 4.597 Area 234596
Q 428.90>409.00 1.02e5



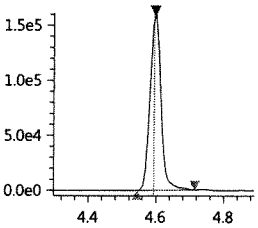
6_2-FTS-13C_IS
Conc 5.0000
RT 4.597 Area 234596
ISTD 428.90>409.00 1.02e5



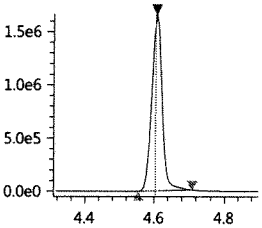
6_2-FTS_1
Conc 5.7323
RT 4.597 Area 296055
Q 427.00>407.00 1.30e5



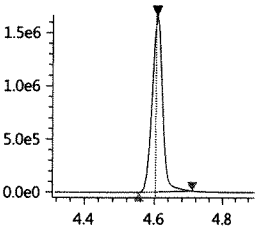
PFHpS_1
Conc 5.5571
RT 4.598 Area 358668
Q 449.00>80.15 1.61e5



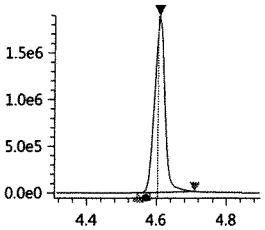
PFOA-13C_IS
Conc 5.0000
RT 4.608 Area 3487714
ISTD 416.80>372.05 1.67e6



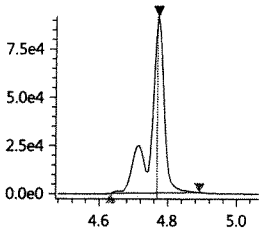
PFOA-13C
Conc 3.9978
RT 4.608 Area 3487714
Q 416.80>372.05 1.67e6



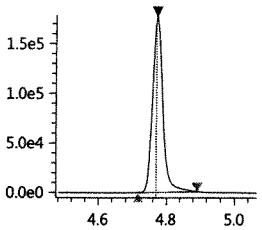
PFOA
Conc 5.0399
RT 4.608 Area 3933643
Q 413.00>369.00 1.90e6



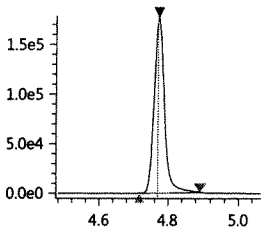
PFOS_1
Conc 4.5776
RT 4.773 Area 259354
Q 499.00>80.00 9.22e4



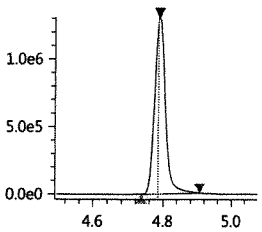
PFOS-13C_IS
Conc 5.0000
RT 4.772 Area 376646
ISTD 502.80>80.05 1.79e5



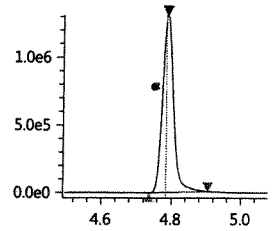
PFOS-13C
Conc 3.1825
RT 4.772 Area 376646
Q 502.80>80.05 1.79e5



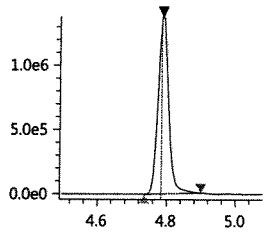
PFNA-13C_IS
Conc 5.0000
RT 4.789 Area 2849629
ISTD 467.80>423.00 1.31e6



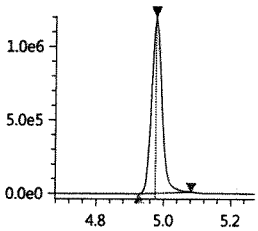
PFNA-13C
Conc 3.3110
RT 4.789 Area 2849629
Q 467.80>423.00 1.31e6



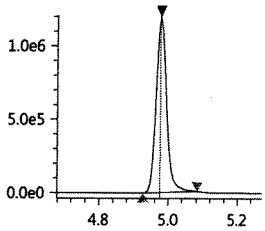
PFNA
Conc 6.1834
RT 4.789 Area 2973439
Q 463.00>418.90 1.38e6



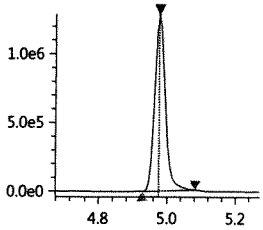
PFDA-13C_IS
Conc 5.0000
RT 4.978 Area 2598193
ISTD 514.80>469.95 1.21e6



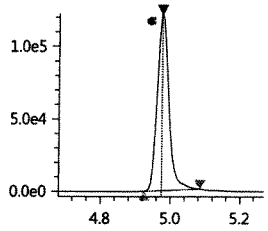
PFDA-13C
Conc 3.4412
RT 4.978 Area 2598193
Q 514.80>469.95 1.21e6



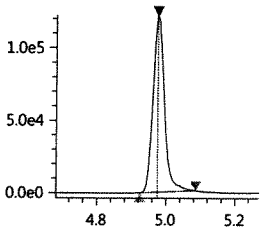
PFDA
Conc 4.8267
RT 4.977 Area 2797946
Q 513.00>468.80 1.29e6



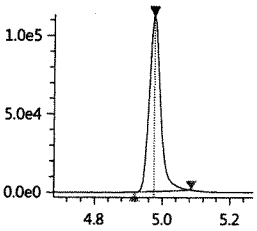
8_2-FTS-13C_IS
Conc 5.0000
RT 4.976 Area 281382
ISTD 528.80>509.00 1.22e5



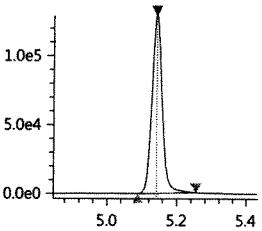
8_2-FTS-13C
Conc 4.4775
RT 4.976 Area 281382
Q 528.80>509.00 1.22e5



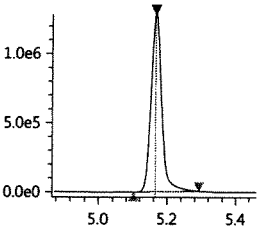
8_2-FTS_1
Conc 4.5936
RT 4.976 Area 261768
Q 526.90>506.90 1.13e5



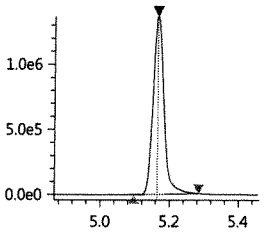
PFDS_1
Conc 4.6525
RT 5.141 Area 275413
Q 599.00>79.90 1.29e5



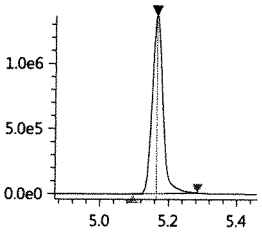
PFUnA
Conc 5.4547
RT 5.166 Area 2805077
Q 563.00>518.90 1.28e6



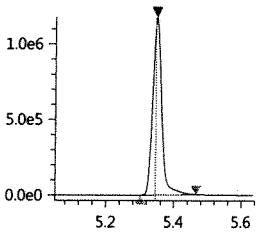
PFUnA-13C_IS
Conc 5.0000
RT 5.166 Area 2972217
ISTD 564.80>519.95 1.37e6



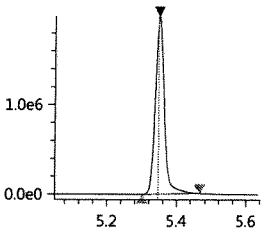
PFUnA-13C
Conc 3.5544
RT 5.166 Area 2972217
Q 564.80>519.95 1.37e6



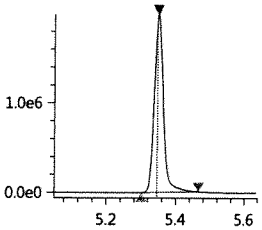
PFDoA
Conc 5.4309
RT 5.349 Area 2139139
Q 613.05>569.00 1.18e6



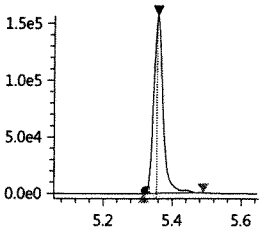
PFDoA-13C
Conc 3.3870
RT 5.349 Area 3627645
Q 614.80>569.95 1.99e6



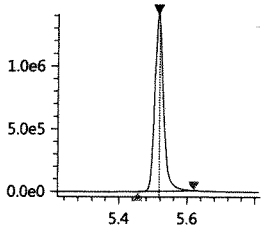
PFDoA-13C_IS
Conc 5.0000
RT 5.349 Area 3627645
ISTD 614.80>569.95 1.99e6



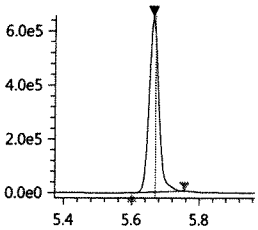
10_2-FtS_1
Conc 6.2285
RT 5.358 Area 293074
Q 627.00>606.95 1.57e5



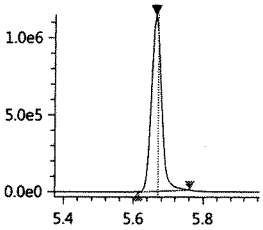
PFTrDA
Conc 5.4731
RT 5.515 Area 2567740
Q 663.00>618.90 1.41e6



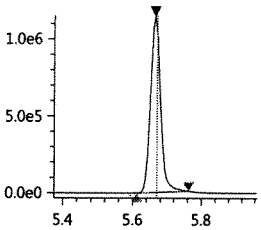
PFTeDA
Conc 6.3522
RT 5.664 Area 1312642
Q 713.40>669.00 6.58e5



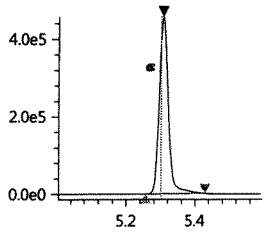
PFTeDA-13C
Conc 3.1609
RT 5.664 Area 2316675
Q 714.70>669.90 1.15e6



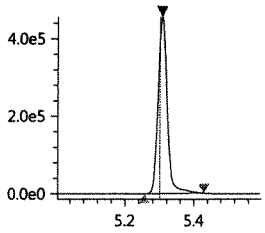
PFTeDA-13C_IS
Conc 5.0000
RT 5.664 Area 2316675
ISTD 714.70>669.90 1.15e6



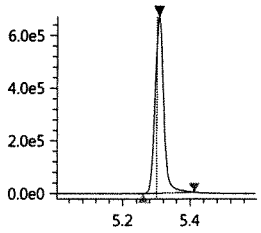
FOSA-13C_IS
Conc 5.0000
RT 5.308 Area 836270
ISTD 506.00>78.05 4.57e5



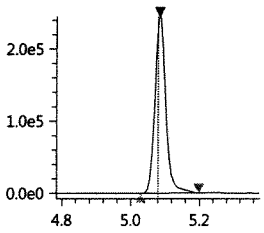
FOSA-13C
Conc 2.8183
RT 5.308 Area 836270
Q 506.00>78.05 4.57e5



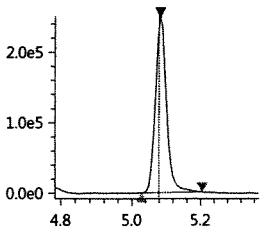
FOSA
Conc 4.9384
RT 5.308 Area 1208484
Q 498.00>78.00 6.73e5



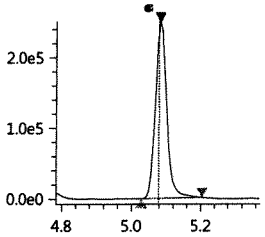
N-MeFOSAA
Conc 6.3262
RT 5.087 Area 548408
Q 570.20>419.00 2.46e5



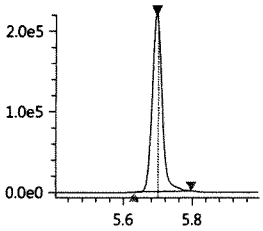
N-MeFOSAA-d3
Conc 3.3989
RT 5.084 Area 568461
Q 572.80>419.05 2.51e5



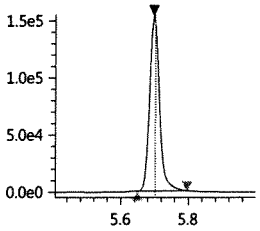
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.084 Area 568461
ISTD 572.80>419.05 2.51e5



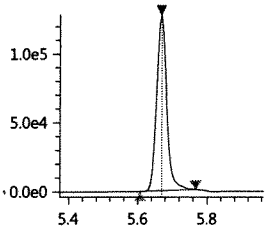
N-MeFOSA_IS
Conc 5.0000
RT 5.696 Area 446738
ISTD 514.90>168.90 2.21e5



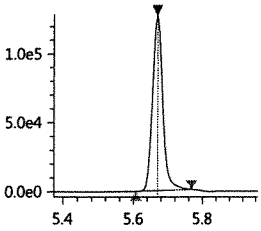
N-MeFOSA
Conc 3.6409
RT 5.699 Area 313802
Q 512.00>169.10 1.56e5



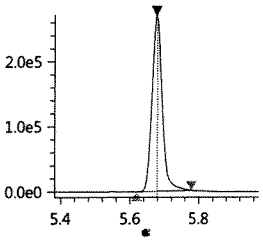
N-MeFOSE-d7
Conc 2.9194
RT 5.669 Area 263330
Q 622.70>59.10 1.29e5



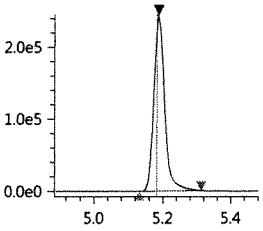
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.669 Area 263330
ISTD 622.70>59.10 1.29e5



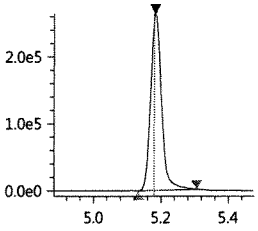
N-MeFOSE
Conc 5.1765
RT 5.677 Area 557811
Q 616.00>59.00 2.72e5



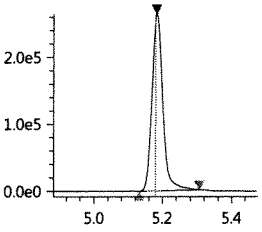
N-EtFOSAA
Conc 5.5405
RT 5.188 Area 537523
Q 584.20>418.95 2.46e5



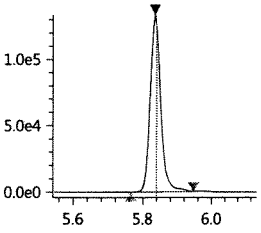
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.184 Area 590315
ISTD 588.80>419.00 2.64e5



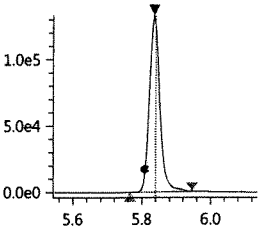
N-EtFOSAA-d5
Conc 3.6270
RT 5.184 Area 590315
Q 588.80>419.00 2.64e5



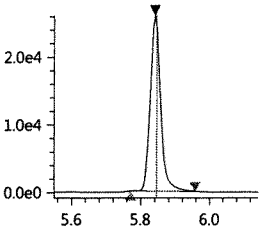
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.836 Area 285628
ISTD 530.90>169.15 1.33e5



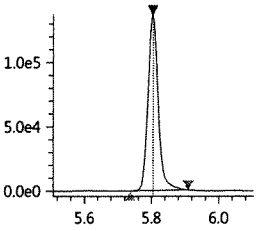
N-EtFOSA-d9
Conc 2.3614
RT 5.836 Area 285628
Q 530.90>169.15 1.33e5



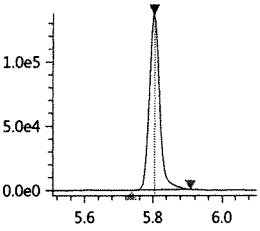
N-EtFOSA
Conc 4.4987
RT 5.841 Area 54883
Q 526.90>169.10 2.62e4



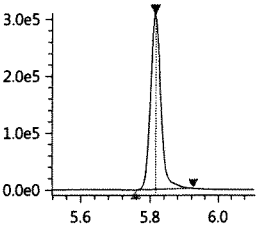
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.804 Area 291764
ISTD 638.70>59.10 1.38e5



N-EtFOSE-d9
Conc 3.1083
RT 5.804 Area 291764
Q 638.70>59.10 1.38e5



N-EtFOSE
Conc 4.7698
RT 5.815 Area 653864
Q 630.00>58.90 3.11e5



7/24/2017_b1

ALS Environmental

Injection Log

LCMS06 -Shimadzu 8050

ICAL Date:	7/17/2017		
Cal. Std. xp:	11/26/2017		
ICAL ID:	KC1700121		
LIMS ID:	554762		

1st Review: Justine Tennant

2nd Review: JUL 25 2017

Column: Phenomenx EVO-C18 100X4.6 mm S/N: H17-159040

Mobile Phases A: 5mM Ammonium Acetate in H2O 17-OLC-01-68B B: 5mM Ammonium Acetate In MeOH 17-OLC-01-68A

	Sample Name		File Name	Acquisition Method	Dilution	R	Comments
1	IB	IB	071717_106	PFAS_060917.lcm	1x		See 07/17/17_b1
2	0.01 ppb	17-OLC-01-59B	071717_107	PFAS_060917.lcm	1x		See 07/17/17_b1
3	0.02 ppb	17-OLC-01-59C	071717_108	PFAS_060917.lcm	1x		See 07/17/17_b1
4	0.05ppb	17-OLC-01-59D	071717_109	PFAS_060917.lcm	1x		See 07/17/17_b1
5	0.1ppb	17-OLC-01-59E	071717_110	PFAS_060917.lcm	1x		See 07/17/17_b1
6	0.25ppb	17-OLC-01-59F	071717_111	PFAS_060917.lcm	1x		See 07/17/17_b1
7	0.50ppb	17-OLC-01-59G	071717_112	PFAS_060917.lcm	1x		See 07/17/17_b1
8	1 ppb	17-OLC-01-59H	071717_113	PFAS_060917.lcm	1x		See 07/17/17_b1
9	5 ppb	17-OLC-01-59I	071717_114	PFAS_060917.lcm	1x		See 07/17/17_b1
10	10 ppb	17-OLC-01-59J	071717_115	PFAS_060917.lcm	1x		See 07/17/17_b1
11	20 ppb	17-OLC-01-59K	071717_116	PFAS_060917.lcm	1x		See 07/17/17_b1
12	IB	IB	071717_117	PFAS_060917.lcm	1x		See 07/17/17_b1
13	1 ppb ICV	17-OLC-01-59N	071717_118	PFAS_060917.lcm	1x		See 07/17/17_b1
14	IB	IB	071717_119	PFAS_060917.lcm	1x		See 07/17/17_b1
15	1 ppb	17-OLC-01-66C	072417_106	PFAS_060917.lcm	1x	☑	High for PFHpS. Narrate high bias, ND for samples, LCS/MS/DMS recoveries OK.
16	IB	IB	072417_107	PFAS_060917.lcm	1x	☑	
17	KQ1709896-04	MB	072417_108	PFAS_060917.lcm	1x	☑	
18	KQ1709896-03	LCS	072417_109	PFAS_060917.lcm	1x	☑	
19	K1707559-001		072417_110	PFAS_060917.lcm	1x	☑	
20	KQ1709896-01	K1707559-001 MS	072417_111	PFAS_060917.lcm	1x	☑	
21	KQ1709896-02	K1707559-001 DMS	072417_112	PFAS_060917.lcm	1x	☑	
22	K1707559-002		072417_113	PFAS_060917.lcm	1x	☑	
23	K1707559-003		072417_114	PFAS_060917.lcm	1x	☑	
24	K1707559-004		072417_115	PFAS_060917.lcm	1x	☑	
25	K1707681-001		072417_116	PFAS_060917.lcm	1x	☑	High recovery 8:2 surr-quant by IS.
26	K1707681-002		072417_117	PFAS_060917.lcm	1x	☑	High recovery 8:2 surr-quant by IS.

J:\LCMS06\Data\072417_b1\072417_b1_injection log

Validation Report

Data File: J:\LCMS06\Data\072417_b1\072417_106
Lab ID: KQ1710165-01
RunType: CCV
Matrix: Soil

Date Acquired: 7/24/17 15:42
Batch ID: 554762
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Above Highest ICAL Level	X	

Primary Review: JT 7/25/17
JUL 2 5 2017
Secondary Review: [illegible]

Printed: 7/25/17 8:15
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072417_b1\072417_106	**Instrument:**	K-LCMS-06
Acqu Date:	7/24/17 15:42	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1710165-01	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	PFOA	**Collect Date:**	7/18/17	**Receive Date:**	7/19/17

Analysis Lot:	554762	**Prep Lot:**		**Report Group:**	KQ1710165
Analysis Method:	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.703	339441	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
13C4-PFBA	3.420	1748692	4.6005	Y
13C2-PFHxA	4.254	2602118	4.8765	Y
18O2-PFHxS	4.440	349389	4.4228	Y
13C2-6:2 FTS	4.608	279492	5.4098	Y
13C4-PFOA	4.620	3743737	5.4181	Y
13C5-PFNA	4.797	3116355	5.0251	Y
13C4-PFOS	4.781	445781	5.1693	Y
13C2-PFDA	4.984	2625517	5.1274	Y
13C2-PFUnDA	5.171	3315776	5.4400	Y
13C2-PFDoDA	5.354	4113805	5.3285	Y
D7-MeFOSE	5.676	418745	4.7030	Y
D9-EtFOSE	5.809	495063	4.6104	Y
D5-EtFOSA	5.842	423780	4.6194	Y
13C2-8:2 FTS	4.983	235908	5.0681	Y
13C2-PFTeDA	5.667	3216756	5.1522	Y
13C4-PFHpA	4.444	2444773	4.5431	Y
13C5-PFPeA	3.990	873203	4.6458	Y
13C3-PFBS	4.039	678603	5.1169	Y
13C8-FOSA	5.317	1055549	4.5056	Y

Target Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
Perfluorobutanoic acid (PFBA)	3.421	421130	0.9357	Y
Perfluoropentanoic acid (PFPeA)	3.991	542506	0.8834	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/25/17 8:15
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072417_b1\072417_106	**Instrument:**	K-LCMS-06
Acqu Date:	7/24/17 15:42	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1710165-01	**Raw Units:**	ng/mL

Target Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.040	97580	0.8487	Y
Perfluorohexanoic acid (PFHxA)	4.255	596146	1.1530	Y
Perfluoroheptanoic acid (PFHpA)	4.444	561837	1.0460	Y
Perfluorohexane sulfonic acid (PFHxS)	4.441	71898	0.7416	Y
Perfluorooctanoic acid (PFOA)	4.620	704252	0.7442	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.609	95872	1.2594	Y
Perfluorononanoic acid (PFNA)	4.796	561523	0.8178	Y
Perfluorooctane sulfonic acid (PFOS)	4.781	49299	0.6818	Y
Perfluorodecanoic acid (PFDA)	4.984	539666	0.7505	Y
Perfluoroundecanoic acid (PFUnDA)	5.170	572843	0.7488	Y
Perfluorooctane sulfonamide (FOSA)	5.318	321130	0.9906	Y
Perfluorododecanoic acid (PFDoDA)	5.354	541311	1.0074	Y
Perfluorotridecanoic acid (PFTrDA)	5.519	572944	0.8952	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.706	89509	0.8803	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.684	140780	0.9568	Y
Perfluorotetradecanoic acid (PFTeDA)	5.667	387405	1.0423	Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.820	143423	0.9232	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.847	14123	0.9013	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.982	45179	0.9932	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.608	68229	0.9260	Y
Perfluorodecane sulfonic acid (PFDS)	5.147	87514	1.0257	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/25/17 8:15

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Insight Report

Printed at 7/25/2017 8:01:52 AM

Batch File: ----
Method File: J:\LCMS06\Data\072417_b1\072417_b1.lcm
Project File: J:\LCMS06\Data\072417_b1\072417_b1.damlp
Flags File: J:\LCMS06\Data\072417_b1\072417_b1.damlp

072417_106

Sample ID: 1 ppb
Date acquired: 7/24/2017 3:42:20 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_106.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 1

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.420	1748692	1748692	2	5.0000	ng/mL	5	100.00	Auto
PFBA-13C	3.420	1748692	339441	1	4.6005	ng/mL	5	92.01	Auto
PFBA	3.421	421130	1748692	2	0.9357	ng/mL	1	93.57	M
PFPeA-13C_IS	3.990	873203	873203	4	5.0000	ng/mL	5	100.00	Auto
PFPeA-13C	3.990	873203	339441	1	4.6458	ng/mL	5	92.92	Auto
PFPeA	3.991	542506	873203	4	0.8834	ng/mL	1	88.34	Auto
PFBS_1	4.040	97580	678603	16	0.8487	ng/mL	0.88737	95.64	Auto
PFBS-13C	4.039	678603	339441	1	5.1169	ng/mL	5	102.34	Auto
PFBS-13C_IS	4.039	678603	678603	16	5.0000	ng/mL	5	100.00	Auto
PFHxA-13C_IS	4.254	2602118	2602118	6	5.0000	ng/mL	5	100.00	Auto
PFHxA-13C	4.254	2602118	339441	1	4.8765	ng/mL	5	97.53	Auto
PFHxA	4.255	596146	2602118	6	1.1530	ng/mL	1	115.30	Auto
HPFO_DA	4.320	127093	788182	3	0.8477	ng/mL	1	84.77	Auto
HFPO_DA-13C_IS	4.320	788182	788182	3	5.0000	ng/mL	5	100.00	Auto
HFPO_DA-13C	4.320	788182	339441	1	5.9589	ng/mL	5	119.18	Auto
4_2-FTS-13C_IS	4.228	429455	429455	5	5.0000	ng/mL	5	100.00	Auto
4_2-FTS-13C	4.228	429455	339441	1	4.9818	ng/mL	5	99.64	Auto
4_2-FTS_1	4.228	83244	429455	5	0.7611	ng/mL	0.937218	81.20	M
PFHpA	4.444	561837	2444773	8	1.0460	ng/mL	1	104.60	Auto
PFHpA-13C_IS	4.444	2444773	2444773	8	5.0000	ng/mL	5	100.00	Auto
PFHpA-13C	4.444	2444773	339441	1	4.5431	ng/mL	5	90.86	Auto
PFHxS-18O_IS	4.440	349389	349389	7	5.0000	ng/mL	5	100.00	Auto
PFHxS-18O	4.440	349389	339441	1	4.4228	ng/mL	5	88.46	Auto
PFHxS_1	4.441	71898	349389	7	0.7416	ng/mL	0.913075	81.22	Auto
6_2-FTS-13C	4.608	279492	339441	1	5.4098	ng/mL	5	108.20	Auto
6_2-FTS-13C_IS	4.608	279492	279492	10	5.0000	ng/mL	5	100.00	Auto
6_2-FTS_1	4.608	68229	279492	10	0.9260	ng/mL	0.951168	97.35	Auto
PFHpS_1	4.609	95872	349389	7	1.2594	ng/mL	0.953438	132.09	Auto
PFOA-13C_IS	4.620	3743737	3743737	9	5.0000	ng/mL	5	100.00	Auto
PFOA-13C	4.620	3743737	339441	1	5.4181	ng/mL	5	108.36	Auto
PFOA	4.620	704252	3743737	9	0.7442	ng/mL	1	74.42	Auto
PFOS_1	4.781	49299	445781	13	0.6818	ng/mL	0.929229	73.38	Auto
PFOS-13C_IS	4.781	445781	445781	13	5.0000	ng/mL	5	100.00	Auto
PFOS-13C	4.781	445781	339441	1	5.1693	ng/mL	5	103.39	Auto
PFNA-13C_IS	4.797	3116355	3116355	11	5.0000	ng/mL	5	100.00	Auto
PFNA-13C	4.797	3116355	339441	1	5.0251	ng/mL	5	100.50	Auto
PFNA	4.796	561523	3116355	11	0.8178	ng/mL	1	81.78	Auto
PFDA-13C_IS	4.984	2625517	2625517	12	5.0000	ng/mL	5	100.00	Auto
PFDA-13C	4.984	2625517	339441	1	5.1274	ng/mL	5	102.55	Auto
PFDA	4.984	539666	2625517	12	0.7505	ng/mL	1	75.05	Auto
8_2-FTS-13C_IS	4.983	235908	235908	15	5.0000	ng/mL	5	100.00	Auto
8_2-FTS-13C	4.983	235908	339441	1	5.0681	ng/mL	5	101.36	Auto
8_2-FTS_1	4.982	45179	235908	15	0.9932	ng/mL	0.960045	103.46	Auto
PFDS_1	5.147	87514	445781	13	1.0257	ng/mL	0.964667	106.32	Auto
PFUnA	5.170	572843	3315776	14	0.7488	ng/mL	1	74.88	Auto
PFUnA-13C_IS	5.171	3315776	3315776	14	5.0000	ng/mL	5	100.00	Auto
PFUnA-13C	5.171	3315776	339441	1	5.4400	ng/mL	5	108.80	Auto
PFDoA	5.354	541311	4113805	17	1.0074	ng/mL	1	100.74	Auto
PFDoA-13C	5.354	4113805	339441	1	5.3285	ng/mL	5	106.57	Auto
PFDoA-13C_IS	5.354	4113805	4113805	17	5.0000	ng/mL	5	100.00	Auto
10_2-FtS_1	5.363	45207	235908	15	1.0134	ng/mL	0.966191	104.89	Auto
PFTrDA	5.519	572944	3216756	22	0.8952	ng/mL	1	89.52	Auto
PFTeDA	5.667	387405	3216756	22	1.0423	ng/mL	1	104.23	Auto
PFTeDA-13C	5.667	3216756	339441	1	5.1522	ng/mL	5	103.04	Auto
PFTeDA-13C_IS	5.667	3216756	3216756	22	5.0000	ng/mL	5	100.00	Auto
FOSA-13C_IS	5.317	1055549	1055549	18	5.0000	ng/mL	5	100.00	Auto
FOSA-13C	5.317	1055549	339441	1	4.5056	ng/mL	5	90.11	Auto
FOSA	5.318	321130	1055549	18	0.9906	ng/mL	1	99.06	Auto
N-MeFOSAA	5.091	109709	731731	19	0.9360	ng/mL	1	93.60	Auto
N-MeFOSAA-d3	5.089	731731	339441	1	4.8229	ng/mL	5	96.46	Auto
N-MeFOSAA-d3_IS	5.089	731731	731731	19	5.0000	ng/mL	5	100.00	Auto

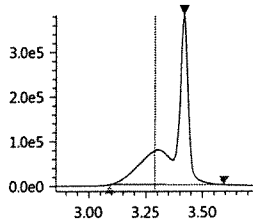
Insight Report

Printed at 7/25/2017 8:01:52 AM

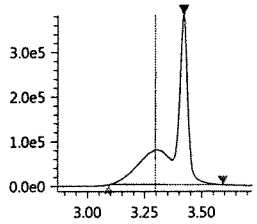
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-MeFOSA_IS	5.703	339441	339441	1	5.0000	ng/mL	5	100.00	Auto
N-MeFOSA	5.706	89509	418745	20	0.8803	ng/mL	1	88.03	Auto
N-MeFOSE-d7	5.676	418745	339441	1	4.7030	ng/mL	5	94.06	Auto
N-MeFOSE-d7_IS	5.676	418745	418745	20	5.0000	ng/mL	5	100.00	Auto
N-MeFOSE	5.684	140780	418745	20	0.9568	ng/mL	1	95.68	Auto
N-EtFOSAA	5.191	102229	701060	21	0.8641	ng/mL	1	86.41	Auto
N-EtFOSAA-d5_IS	5.187	701060	701060	21	5.0000	ng/mL	5	100.00	Auto
N-EtFOSAA-d5	5.187	701060	339441	1	5.0936	ng/mL	5	101.87	Auto
N-EtFOSA-d9_IS	5.842	423780	423780	23	5.0000	ng/mL	5	100.00	Auto
N-EtFOSA-d9	5.842	423780	339441	1	4.6194	ng/mL	5	92.39	Auto
N-EtFOSA	5.847	14123	423780	23	0.9013	ng/mL	1	90.13	Auto
N-EtFOSE-d9_IS	5.809	495063	495063	24	5.0000	ng/mL	5	100.00	Auto
N-EtFOSE-d9	5.809	495063	339441	1	4.6104	ng/mL	5	92.21	Auto
N-EtFOSE	5.820	143423	495063	24	0.9232	ng/mL	1	92.32	Auto

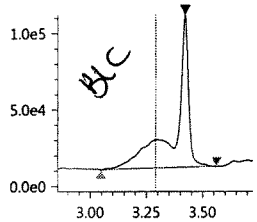
PFBA-13C_IS
Conc 5.0000
RT 3.420 Area 1748692
ISTD 216.90>172.15 3.83e5



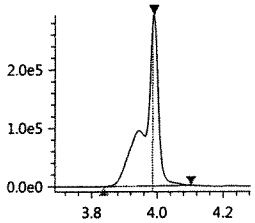
PFBA-13C
Conc 4.6005
RT 3.420 Area 1748692
Q 216.90>172.15 3.83e5



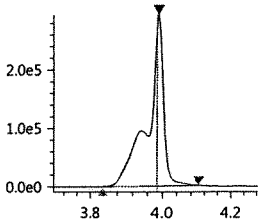
PFBA
Conc 0.9357
RT 3.421 Area 421130
Q 213.00>169.10 1.12e5



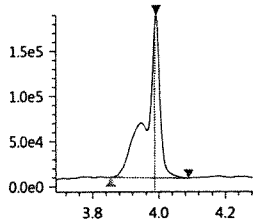
PFPeA-13C_IS
Conc 5.0000
RT 3.990 Area 873203
ISTD 267.90>223.00 2.94e5



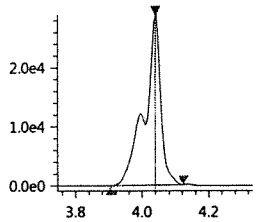
PFPeA-13C
Conc 4.6458
RT 3.990 Area 873203
Q 267.90>223.00 2.94e5



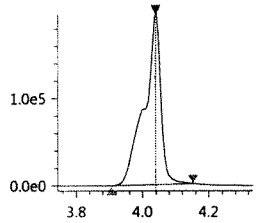
PFPeA
Conc 0.8834
RT 3.991 Area 542506
Q 263.05>219.10 1.90e5



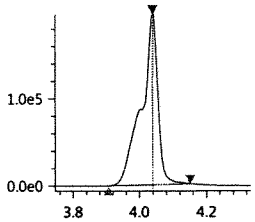
PFBS_1
Conc 0.8487
RT 4.040 Area 97580
Q 299.00>80.00 2.91e4



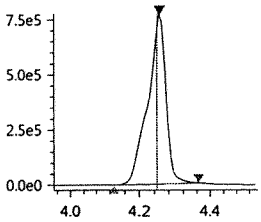
PFBS-13C
Conc 5.1169
RT 4.039 Area 678603
Q 301.80>80.00 1.97e5



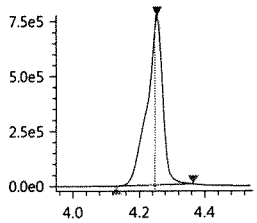
PFBS-13C_IS
Conc 5.0000
RT 4.039 Area 678603
ISTD 301.80>80.00 1.97e5



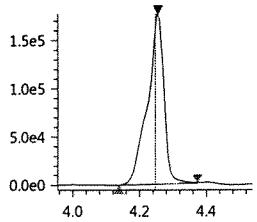
PFHxA-13C_IS
Conc 5.0000
RT 4.254 Area 2602118
ISTD 314.90>270.10 7.80e5



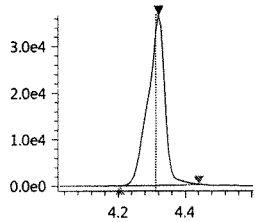
PFHxA-13C
Conc 4.8765
RT 4.254 Area 2602118
Q 314.90>270.10 7.80e5



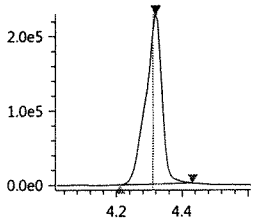
PFHxA
Conc 1.1530
RT 4.255 Area 596146
Q 313.00>269.00 1.78e5



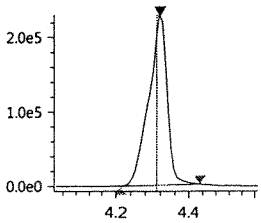
HPFO_DA
Conc 0.8477
RT 4.320 Area 127093
Q 329.00>169.00 3.69e4



HFPO_DA-13C_IS
Conc 5.0000
RT 4.320 Area 788182
ISTD 332.00>286.80 2.31e5



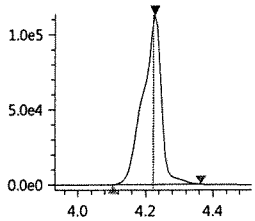
HFPO_DA-13C
Conc 5.9589
RT 4.320 Area 788182
Q 332.00>286.80 2.31e5



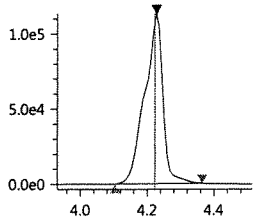
JUL 25 2017

JT

4_2-FTS-13C_IS
Conc 5.0000
RT 4.228 Area 429455
ISTD 328.80>309.05 1.14e5

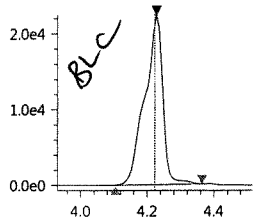


4_2-FTS-13C
Conc 4.9818
RT 4.228 Area 429455
Q 328.80>309.05 1.14e5

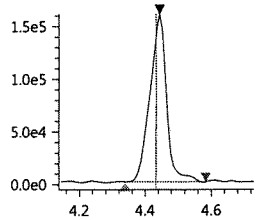


4_2-FTS_1
Conc 0.7611
RT 4.228 Area 83244
Q 327.00>307.05 2.25e4

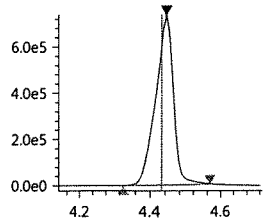
BLC



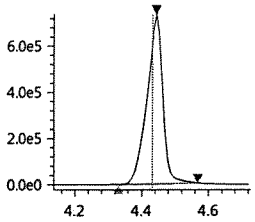
PFHpA
Conc 1.0460
RT 4.444 Area 561837
Q 362.90>319.00 1.62e5



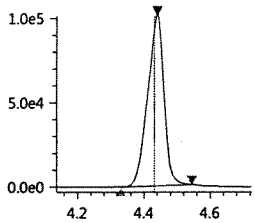
PFHpA-13C_IS
Conc 5.0000
RT 4.444 Area 2444773
ISTD 366.90>322.10 7.39e5



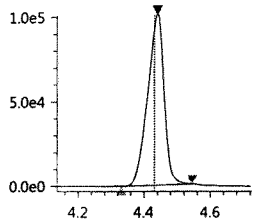
PFHpA-13C
Conc 4.5431
RT 4.444 Area 2444773
Q 366.90>322.10 7.39e5



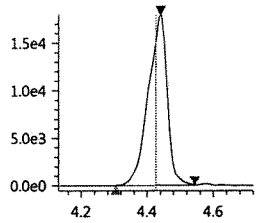
PFHxS-18O_IS
Conc 5.0000
RT 4.440 Area 349389
ISTD 402.70>84.05 1.01e5



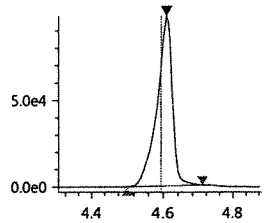
PFHxS-18O
Conc 4.4228
RT 4.440 Area 349389
Q 402.70>84.05 1.01e5



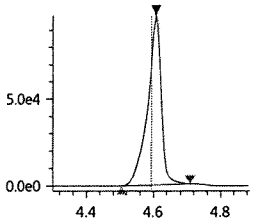
PFHxS_1
Conc 0.7416
RT 4.441 Area 71898
Q 399.00>80.00 1.80e4



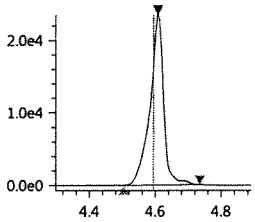
6_2-FTS-13C
Conc 5.4098
RT 4.608 Area 279492
Q 428.90>409.00 9.86e4



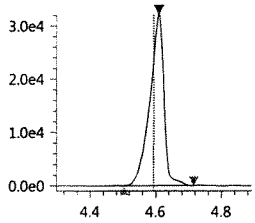
6_2-FTS-13C_IS
Conc 5.0000
RT 4.608 Area 279492
ISTD 428.90>409.00 9.86e4



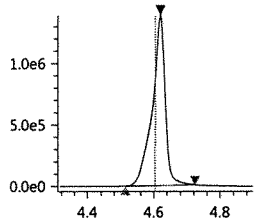
6_2-FTS_1
Conc 0.9260
RT 4.608 Area 68229
Q 427.00>407.00 2.36e4



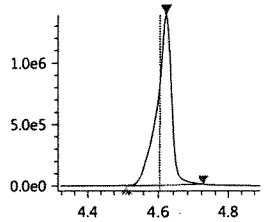
PFHpS_1
Conc 1.2594
RT 4.609 Area 95872
Q 449.00>80.15 3.21e4



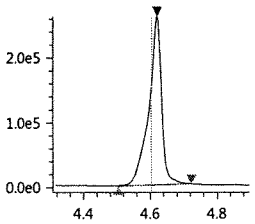
PFOA-13C_IS
Conc 5.0000
RT 4.620 Area 3743737
ISTD 416.80>372.05 1.39e6



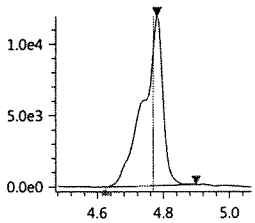
PFOA-13C
Conc 5.4181
RT 4.620 Area 3743737
Q 416.80>372.05 1.39e6



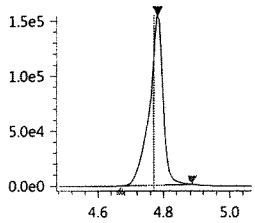
PFOA
Conc 0.7442
RT 4.620 Area 704252
Q 413.00>369.00 2.64e5



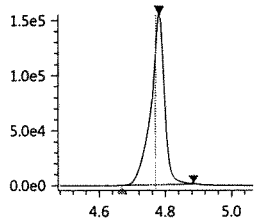
PFOS_1
Conc 0.6818
RT 4.781 Area 49299
Q 499.00>80.00 1.20e4



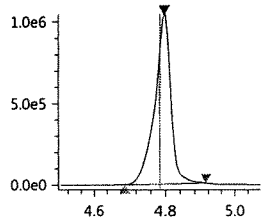
PFOS-13C_IS
Conc 5.0000
RT 4.781 Area 445781
ISTD 502.80>80.05 1.55e5



PFOS-13C
Conc 5.1693
RT 4.781 Area 445781
Q 502.80>80.05 1.55e5

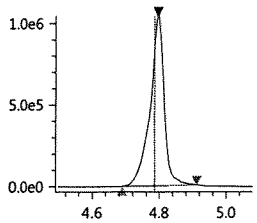


PFNA-13C_IS
Conc 5.0000
RT 4.797 Area 3116355
ISTD 467.80>423.00 1.05e6

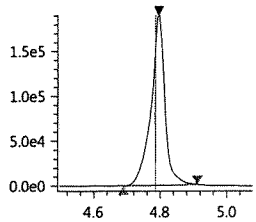


JUL 25 2017

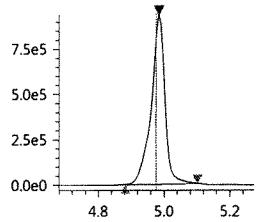
PFNA-13C
Conc 5.0251
RT 4.797 Area 3116355
Q 467.80>423.00 1.05e6



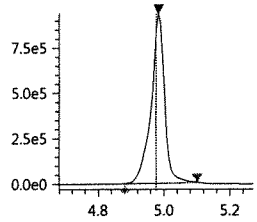
PFNA
Conc 0.8178
RT 4.796 Area 561523
Q 463.00>418.90 1.91e5



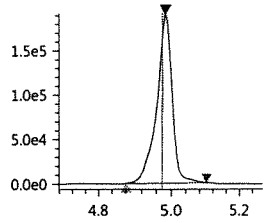
PFDA-13C_IS
Conc 5.0000
RT 4.984 Area 2625517
ISTD 514.80>469.95 9.45e5



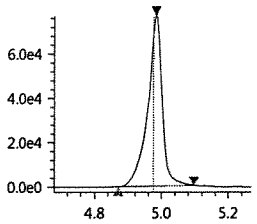
PFDA-13C
Conc 5.1274
RT 4.984 Area 2625517
Q 514.80>469.95 9.45e5



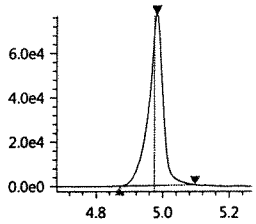
PFDA
Conc 0.7505
RT 4.984 Area 539666
Q 513.00>468.80 1.93e5



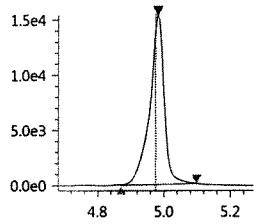
8_2-FTS-13C_IS
Conc 5.0000
RT 4.983 Area 235908
ISTD 528.80>509.00 7.70e4



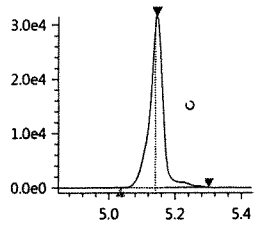
8_2-FTS-13C
Conc 5.0681
RT 4.983 Area 235908
Q 528.80>509.00 7.70e4



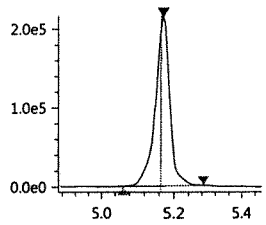
8_2-FTS_1
Conc 0.9932
RT 4.982 Area 45179
Q 526.90>506.90 1.55e4



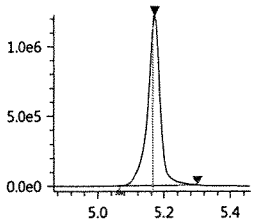
PFDS_1
Conc 1.0257
RT 5.147 Area 87514
Q 599.00>79.90 3.15e4



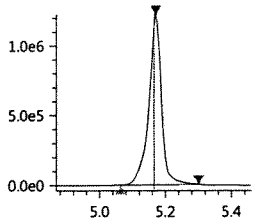
PFUnA
Conc 0.7488
RT 5.170 Area 572843
Q 563.00>518.90 2.17e5



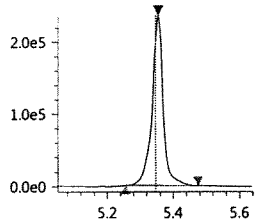
PFUnA-13C_IS
Conc 5.0000
RT 5.171 Area 3315776
ISTD 564.80>519.95 1.23e6



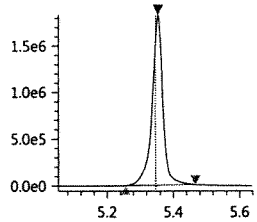
PFUnA-13C
Conc 5.4400
RT 5.171 Area 3315776
Q 564.80>519.95 1.23e6



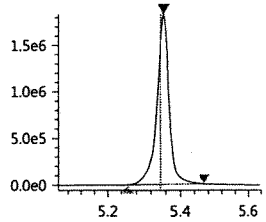
PFDoA
Conc 1.0074
RT 5.354 Area 541311
Q 613.05>569.00 2.38e5



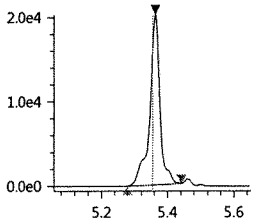
PFDoA-13C
Conc 5.3285
RT 5.354 Area 4113805
Q 614.80>569.95 1.84e6



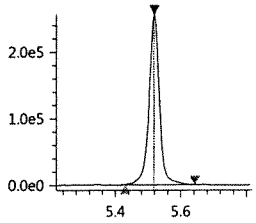
PFDoA-13C_IS
Conc 5.0000
RT 5.354 Area 4113805
ISTD 614.80>569.95 1.84e6



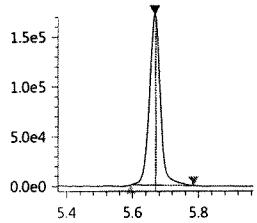
10_2-FtS_1
Conc 1.0134
RT 5.363 Area 45207
Q 627.00>606.95 2.03e4



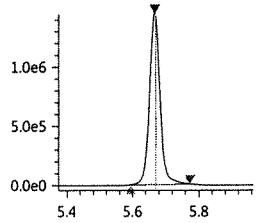
PFTrDA
Conc 0.8952
RT 5.519 Area 572944
Q 663.00>618.90 2.57e5



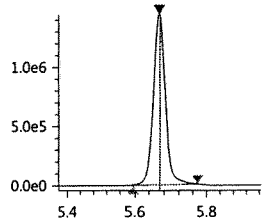
PFTeDA
Conc 1.0423
RT 5.667 Area 387405
Q 713.40>669.00 1.72e5



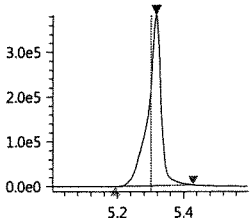
PFTeDA-13C
Conc 5.1522
RT 5.667 Area 3216756
Q 714.70>669.90 1.45e6



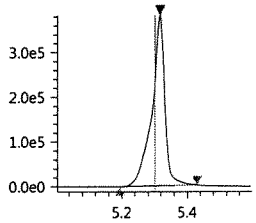
PFTeDA-13C_IS
Conc 5.0000
RT 5.667 Area 3216756
ISTD 714.70>669.90 1.45e6



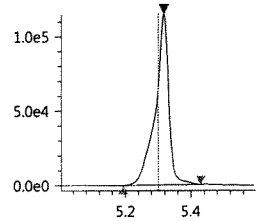
FOSA-13C_IS
Conc 5.0000
RT 5.317 Area 1055549
ISTD 506.00>78.05 3.84e5



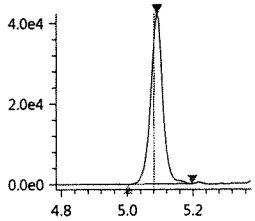
FOSA-13C
Conc 4.5056
RT 5.317 Area 1055549
Q 506.00>78.05 3.84e5



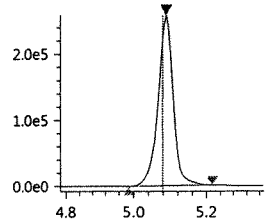
FOSA
Conc 0.9906
RT 5.318 Area 321130
Q 498.00>78.00 1.15e5



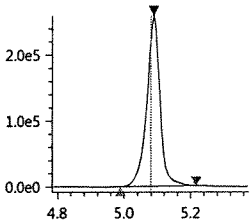
N-MeFOSAA
Conc 0.9360
RT 5.091 Area 109709
Q 570.20>419.00 4.25e4



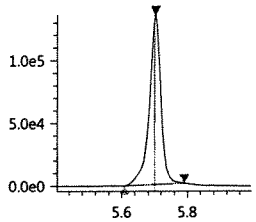
N-MeFOSAA-d3
Conc 4.8229
RT 5.089 Area 731731
Q 572.80>419.05 2.59e5



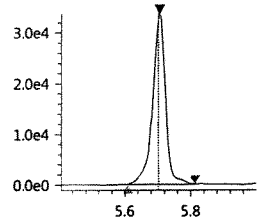
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.089 Area 731731
ISTD 572.80>419.05 2.59e5



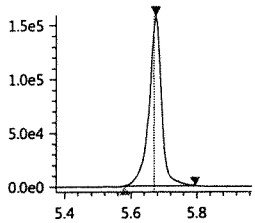
N-MeFOSA_IS
Conc 5.0000
RT 5.703 Area 339441
ISTD 514.90>168.90 1.36e5



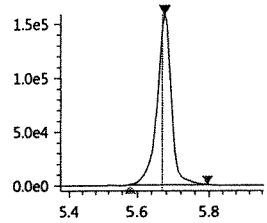
N-MeFOSA
Conc 0.8803
RT 5.706 Area 89509
Q 512.00>169.10 3.37e4



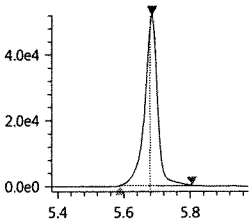
N-MeFOSE-d7
Conc 4.7030
RT 5.676 Area 418745
Q 622.70>59.10 1.59e5



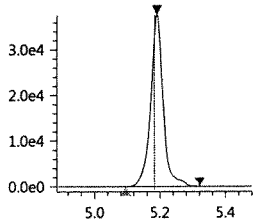
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.676 Area 418745
ISTD 622.70>59.10 1.59e5



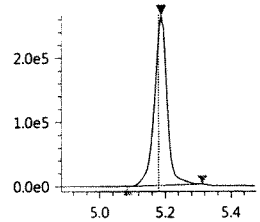
N-MeFOSE
Conc 0.9568
RT 5.684 Area 140780
Q 616.00>59.00 5.22e4



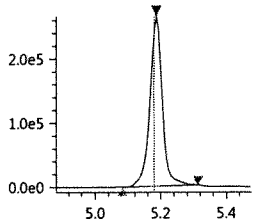
N-EtFOSAA
Conc 0.8641
RT 5.191 Area 102229
Q 584.20>418.95 3.76e4



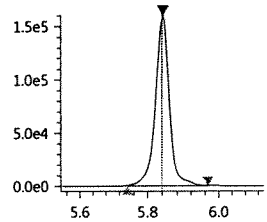
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.187 Area 701060
ISTD 588.80>419.00 2.67e5



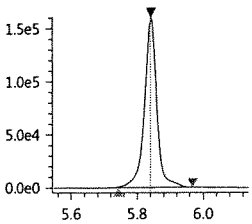
N-EtFOSAA-d5
Conc 5.0936
RT 5.187 Area 701060
Q 588.80>419.00 2.67e5



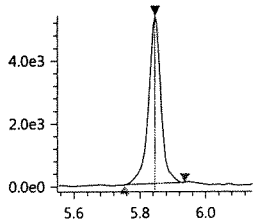
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.842 Area 423780
ISTD 530.90>169.15 1.61e5



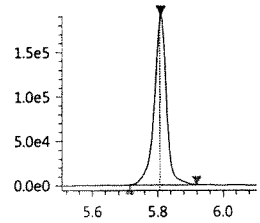
N-EtFOSA-d9
Conc 4.6194
RT 5.842 Area 423780
Q 530.90>169.15 1.61e5



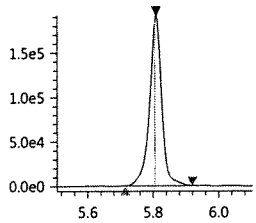
N-EtFOSA
Conc 0.9013
RT 5.847 Area 14123
Q 526.90>169.10 5.44e3



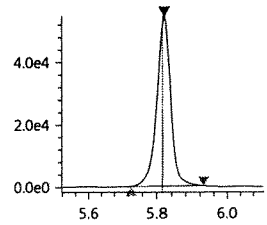
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.809 Area 495063
ISTD 638.70>59.10 1.92e5



N-EtFOSE-d9
Conc 4.6104
RT 5.809 Area 495063
Q 638.70>59.10 1.92e5



N-EtFOSE
Conc 0.9232
RT 5.820 Area 143423
Q 630.00>58.90 5.49e4



Insight Report

Befores

Printed at 7/25/2017 7:34:49 AM

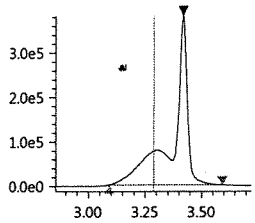
JT

Batch File: ----
Method File: J:\LCMS06\Data\072417_b1\072417_b1.lcm
Project File: J:\LCMS06\Data\072417_b1\072417_b1.damlp
Flags File: J:\LCMS06\Data\072417_b1\072417_b1.damlp

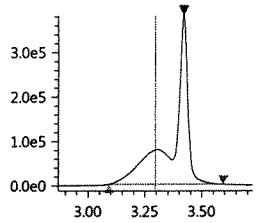
072417_106

Sample ID: 1 ppb
Date acquired: 7/24/2017 3:42:20 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_106.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 1

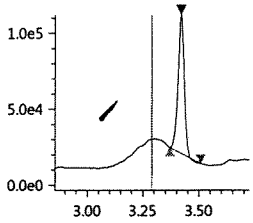
PFBA-13C_IS
Conc 5.0000
RT 3.420 Area 1748692
ISTD 216.90>172.15 3.83e5



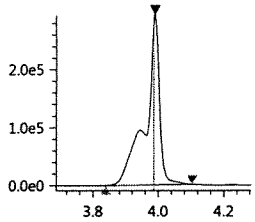
PFBA-13C
Conc 4.6005
RT 3.420 Area 1748692
Q 216.90>172.15 3.83e5



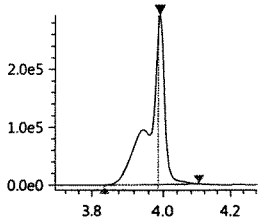
PFBA
Conc 0.3962
RT 3.421 Area 178309
Q 213.00>169.10 1.12e5



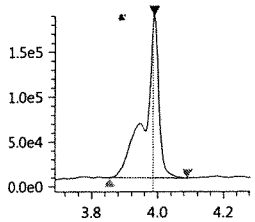
PFPeA-13C_IS
Conc 5.0000
RT 3.990 Area 873203
ISTD 267.90>223.00 2.94e5



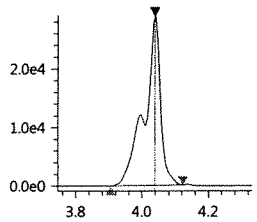
PFPeA-13C
Conc 4.6458
RT 3.990 Area 873203
Q 267.90>223.00 2.94e5



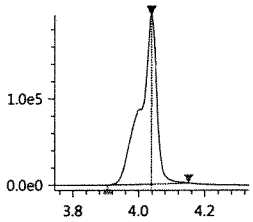
PFPeA
Conc 0.8834
RT 3.991 Area 542506
Q 263.05>219.10 1.90e5



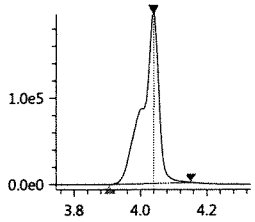
PFBS_1
Conc 0.8487
RT 4.040 Area 97580
Q 299.00>80.00 2.91e4



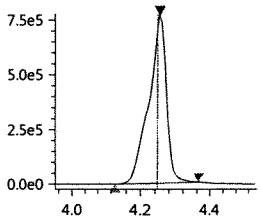
PFBS-13C
Conc 5.1169
RT 4.039 Area 678603
Q 301.80>80.00 1.97e5



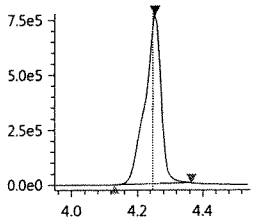
PFBS-13C_IS
Conc 5.0000
RT 4.039 Area 678603
ISTD 301.80>80.00 1.97e5



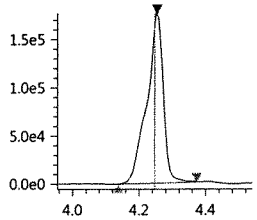
PFHxA-13C_IS
Conc 5.0000
RT 4.254 Area 2602118
ISTD 314.90>270.10 7.80e5



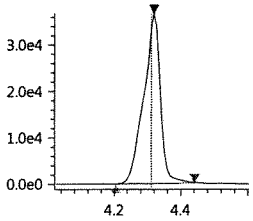
PFHxA-13C
Conc 4.8765
RT 4.254 Area 2602118
Q 314.90>270.10 7.80e5



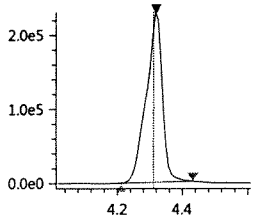
PFHxA
Conc 1.1530
RT 4.255 Area 596146
Q 313.00>269.00 1.78e5



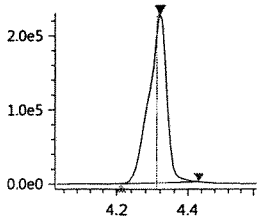
HPFO_DA
Conc 0.8477
RT 4.320 Area 127093
Q 329.00>169.00 3.69e4



HFPO_DA-13C_IS
Conc 5.0000
RT 4.320 Area 788182
ISTD 332.00>286.80 2.31e5



HFPO_DA-13C
Conc 5.9589
RT 4.320 Area 788182
Q 332.00>286.80 2.31e5



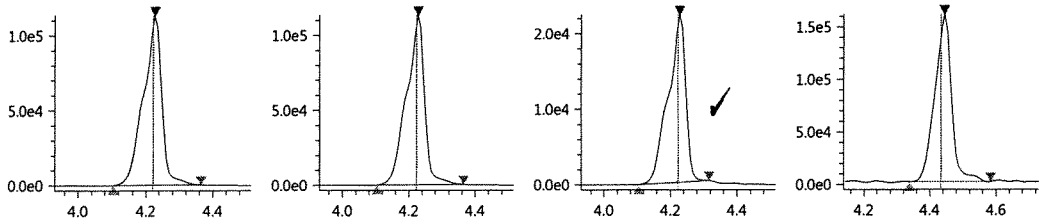
JUL 2 5 2017

4_2-FTS-13C_IS
Conc 5.0000
RT 4.228 Area 429455
ISTD 328.80>309.05 1.14e5

4_2-FTS-13C
Conc 4.9818
RT 4.228 Area 429455
Q 328.80>309.05 1.14e5

4_2-FTS_1
Conc 0.7321
RT 4.228 Area 80072
Q 327.00>307.05 2.25e4

PFHpA
Conc 1.0460
RT 4.444 Area 561837
Q 362.90>319.00 1.62e5



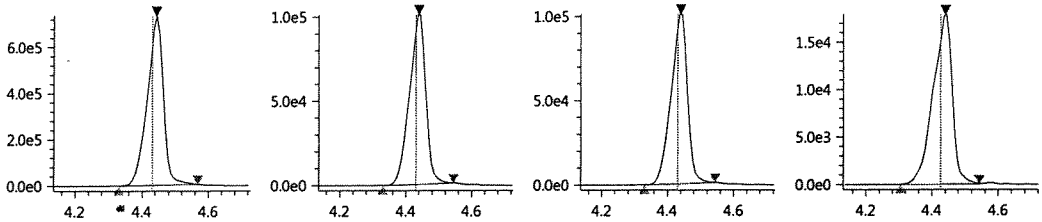
PFHpA-13C_IS
Conc 5.0000
RT 4.444 Area 2444773
ISTD 366.90>322.10 7.39e5

PFHpA-13C
Conc 4.5431
RT 4.444 Area 2444773
Q 366.90>322.10 7.39e5

PFHxS-18O_IS
Conc 5.0000
RT 4.440 Area 349389
ISTD 402.70>84.05 1.01e5

PFHxS-18O
Conc 4.4228
RT 4.440 Area 349389
Q 402.70>84.05 1.01e5

PFHxS_1
Conc 0.7416
RT 4.441 Area 71898
Q 399.00>80.00 1.80e4



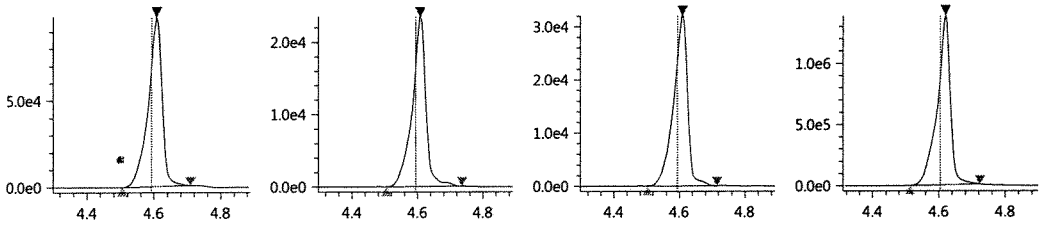
6_2-FTS-13C
Conc 5.4098
RT 4.608 Area 279492
Q 428.90>409.00 9.86e4

6_2-FTS-13C_IS
Conc 5.0000
RT 4.608 Area 279492
ISTD 428.90>409.00 9.86e4

6_2-FTS_1
Conc 0.9260
RT 4.608 Area 68229
Q 427.00>407.00 2.36e4

PFHpS_1
Conc 1.2594
RT 4.609 Area 95872
Q 449.00>80.15 3.21e4

PFOA-13C_IS
Conc 5.0000
RT 4.620 Area 3743737
ISTD 416.80>372.05 1.39e6



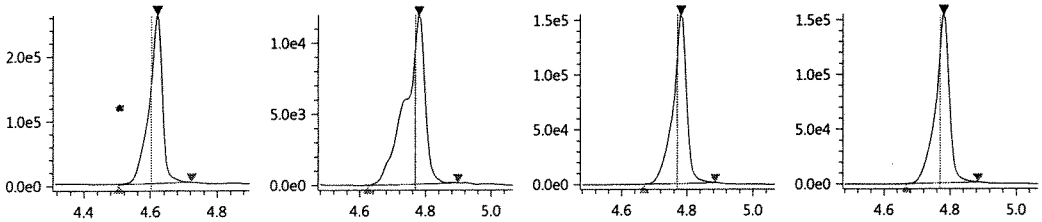
PFOA-13C
Conc 5.4181
RT 4.620 Area 3743737
Q 416.80>372.05 1.39e6

PFOA
Conc 0.7442
RT 4.620 Area 704252
Q 413.00>369.00 2.64e5

PFOS_1
Conc 0.6818
RT 4.781 Area 49299
Q 499.00>80.00 1.20e4

PFOS-13C_IS
Conc 5.0000
RT 4.781 Area 445781
ISTD 502.80>80.05 1.55e5

PFOS-13C
Conc 5.1693
RT 4.781 Area 445781
Q 502.80>80.05 1.55e5



PFNA-13C_IS
Conc 5.0000
RT 4.797 Area 3116355
ISTD 467.80>423.00 1.05e6

JT

072417_107

Sample ID: IB
Date acquired: 7/24/2017 3:52:47 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_107.lcd
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 1

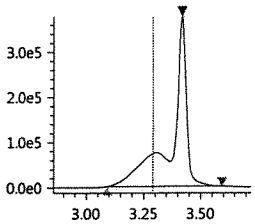
Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.420	1698966	1698966	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.420	1698966	376169	1	4.0333	ng/mL	----	----	Auto
PFBA	----	----	----	2	----	ng/mL	----	----	ND(W/B)
PFPeA-13C_IS	3.987	808156	808156	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.987	808156	376169	1	3.8799	ng/mL	----	----	Auto
PFPeA	3.987	76586	808156	4	0.0652	ng/mL	----	----	Auto
PFBS_1	----	----	----	16	----	ng/mL	----	----	ND(W/B)
PFBS-13C	4.035	650148	376169	1	4.4237	ng/mL	----	----	Auto
PFBS-13C_IS	4.035	650148	650148	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.251	2233406	2233406	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.251	2233406	376169	1	3.7769	ng/mL	----	----	Auto
PFHxA	4.225	8294	2233406	6	-0.0186	ng/mL	----	----	Auto
HPFO_DA	4.293	487	718554	3	0.0036	ng/mL	----	----	Auto
HFPO_DA-13C_IS	4.317	718554	718554	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.317	718554	376169	1	4.9021	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.224	416922	416922	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.224	416922	376169	1	4.3642	ng/mL	----	----	Auto
4_2-FTS_1	4.216	212	416922	5	0.0020	ng/mL	----	----	Auto
PFHpA	4.421	10225	2346878	8	0.0198	ng/mL	----	----	Auto
PFHpA-13C_IS	4.440	2346878	2346878	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.440	2346878	376169	1	3.9354	ng/mL	----	----	Auto
PFHxS-18O_IS	4.439	380713	380713	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.439	380713	376169	1	4.3488	ng/mL	----	----	Auto
PFHxS_1	4.433	1480	380713	7	0.0140	ng/mL	----	----	Auto
6_2-FTS-13C	4.606	263780	376169	1	4.6072	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.606	263780	263780	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.609	619	263780	10	0.0089	ng/mL	----	----	Auto
PFHpS_1	----	----	----	7	----	ng/mL	----	----	ND(W/B)
PFOA-13C_IS	4.617	3667721	3667721	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.617	3667721	376169	1	4.7898	ng/mL	----	----	Auto
PFOA	4.606	12597	3667721	9	0.0136	ng/mL	----	----	Auto
PFOS_1	4.749	417	421445	13	0.0061	ng/mL	----	----	Auto
PFOS-13C_IS	4.780	421445	421445	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.780	421445	376169	1	4.4099	ng/mL	----	----	Auto
PFNA-13C_IS	4.795	3119769	3119769	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.795	3119769	376169	1	4.5394	ng/mL	----	----	Auto
PFNA	4.770	2207	3119769	11	0.0032	ng/mL	----	----	Auto
PFDA-13C_IS	4.983	2447147	2447147	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.983	2447147	376169	1	4.3124	ng/mL	----	----	Auto
PFDA	4.965	6928	2447147	12	0.0103	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.982	216632	216632	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.982	216632	376169	1	4.1996	ng/mL	----	----	Auto
8_2-FTS_1	----	----	----	15	----	ng/mL	----	----	ND(W/B)
PFDS_1	----	----	----	13	----	ng/mL	----	----	ND(W/B)
PFUnA	5.166	8663	3170247	14	0.0118	ng/mL	----	----	Auto
PFUnA-13C_IS	5.170	3170247	3170247	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.170	3170247	376169	1	4.6934	ng/mL	----	----	Auto
PFDoA	5.343	7077	3913652	17	0.0138	ng/mL	----	----	Auto
PFDoA-13C	5.353	3913652	376169	1	4.5743	ng/mL	----	----	Auto
PFDoA-13C_IS	5.353	3913652	3913652	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	----	----	----	15	----	ng/mL	----	----	ND(W/B)
PFTrDA	5.504	6302	3089537	22	0.0103	ng/mL	----	----	Auto
PFTeDA	5.667	35645	3089537	22	0.0184	ng/mL	----	----	Auto
PFTeDA-13C	5.667	3089537	376169	1	4.4653	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.667	3089537	3089537	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.316	1023041	1023041	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.316	1023041	376169	1	3.9404	ng/mL	----	----	Auto
FOSA	5.302	1190	1023041	18	0.0038	ng/mL	----	----	Auto
N-MeFOSAA	5.092	371	743320	19	0.0031	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.088	743320	376169	1	4.4209	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.088	743320	743320	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.701	376169	376169	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.711	613	416228	20	0.0061	ng/mL	----	----	Auto
N-MeFOSE-d7	5.674	416228	376169	1	4.2183	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.674	416228	416228	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	----	----	----	20	----	ng/mL	----	----	NI
N-EtFOSAA	----	----	----	21	----	ng/mL	----	----	NI

JUL 25 2017

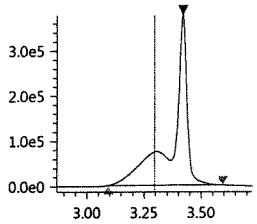
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.187	674455	674455	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.187	674455	376169	1	4.4218	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.840	409464	409464	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.840	409464	376169	1	4.0275	ng/mL	----	----	Auto
N-EtFOSA	----	----	----	23	----	ng/mL	----	----	NI
N-EtFOSE-d9_IS	5.808	483666	483666	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.808	483666	376169	1	4.0644	ng/mL	----	----	Auto
N-EtFOSE	----	----	----	24	----	ng/mL	----	----	NI

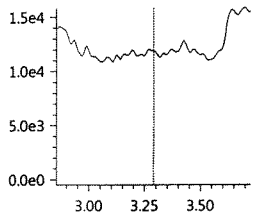
PFBA-13C_IS
Conc 5.0000
RT 3.420 Area 1698966
ISTD 216.90>172.15 3.80e5



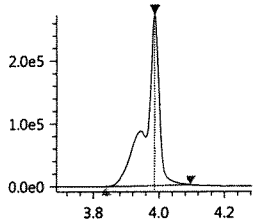
PFBA-13C
Conc 4.0333
RT 3.420 Area 1698966
Q 216.90>172.15 3.80e5



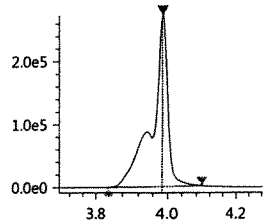
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 1.59e4



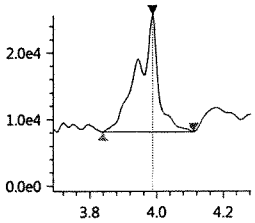
PFPeA-13C_IS
Conc 5.0000
RT 3.987 Area 808156
ISTD 267.90>223.00 2.74e5



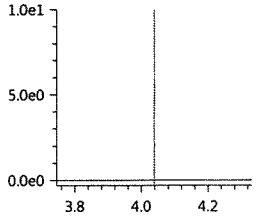
PFPeA-13C
Conc 3.8799
RT 3.987 Area 808156
Q 267.90>223.00 2.74e5



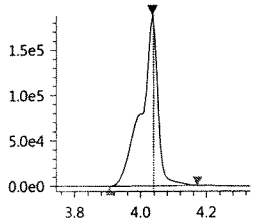
PFPeA
Conc 0.0652
RT 3.987 Area 76586
Q 263.05>219.10 2.57e4



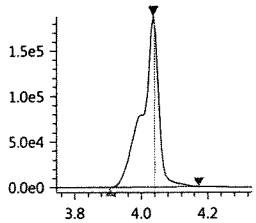
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 0.00e0



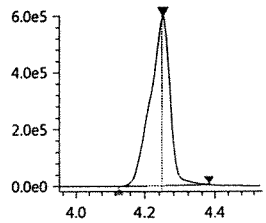
PFBS-13C
Conc 4.4237
RT 4.035 Area 650148
Q 301.80>80.00 1.89e5



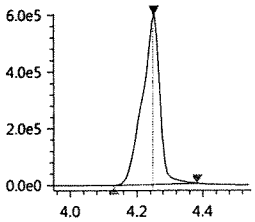
PFBS-13C_IS
Conc 5.0000
RT 4.035 Area 650148
ISTD 301.80>80.00 1.89e5



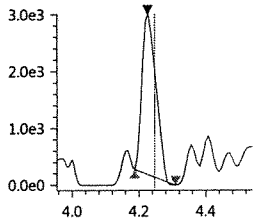
PFHxA-13C_IS
Conc 5.0000
RT 4.251 Area 2233406
ISTD 314.90>270.10 6.04e5



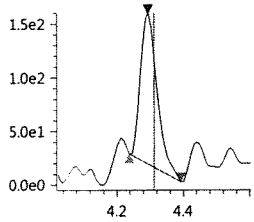
PFHxA-13C
Conc 3.7769
RT 4.251 Area 2233406
Q 314.90>270.10 6.04e5



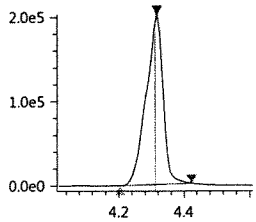
PFHxA
Conc -0.0186
RT 4.225 Area 8294
Q 313.00>269.00 3.02e3



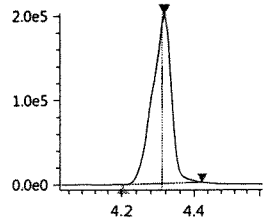
HPFO_DA
Conc 0.0036
RT 4.293 Area 487
Q 329.00>169.00 1.60e2



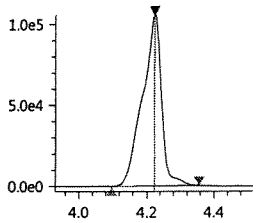
HFPO_DA-13C_IS
Conc 5.0000
RT 4.317 Area 718554
ISTD 332.00>286.80 2.04e5



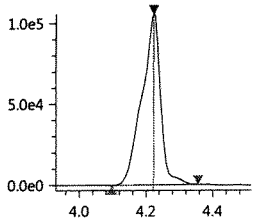
HFPO_DA-13C
Conc 4.9021
RT 4.317 Area 718554
Q 332.00>286.80 2.04e5



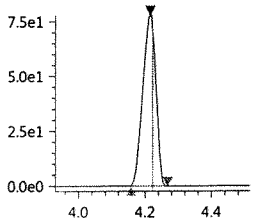
4_2-FTS-13C_IS
Conc 5.0000
RT 4.224 Area 416922
ISTD 328.80>309.05 1.06e5



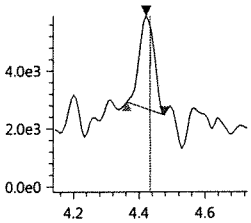
4_2-FTS-13C
Conc 4.3642
RT 4.224 Area 416922
Q 328.80>309.05 1.06e5



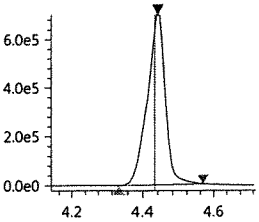
4_2-FTS_1
Conc 0.0020
RT 4.216 Area 212
Q 327.00>307.05 7.80e1



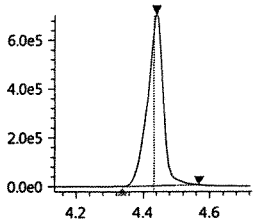
PFHpA
Conc 0.0198
RT 4.421 Area 10225
Q 362.90>319.00 5.91e3



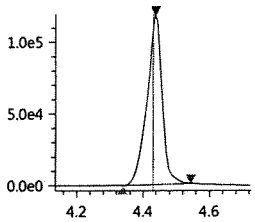
PFHpA-13C_IS
Conc 5.0000
RT 4.440 Area 2346878
ISTD 366.90>322.10 7.03e5



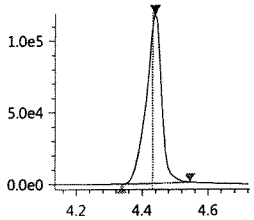
PFHpA-13C
Conc 3.9354
RT 4.440 Area 2346878
Q 366.90>322.10 7.03e5



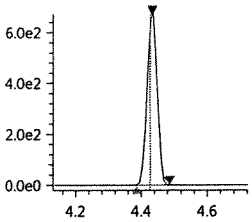
PFHxS-18O_IS
Conc 5.0000
RT 4.439 Area 380713
ISTD 402.70>84.05 1.20e5



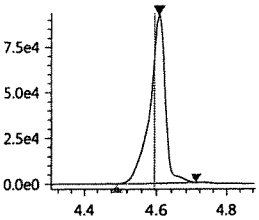
PFHxS-18O
Conc 4.3488
RT 4.439 Area 380713
Q 402.70>84.05 1.20e5



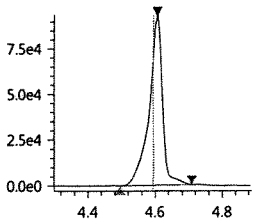
PFHxS_1
Conc 0.0140
RT 4.433 Area 1480
Q 399.00>80.00 6.73e2



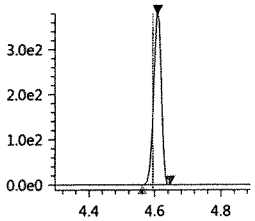
6_2-FTS-13C
Conc 4.6072
RT 4.606 Area 263780
Q 428.90>409.00 9.40e4



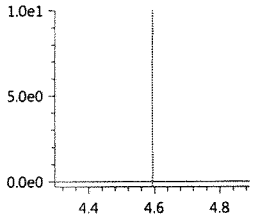
6_2-FTS-13C_IS
Conc 5.0000
RT 4.606 Area 263780
ISTD 428.90>409.00 9.40e4



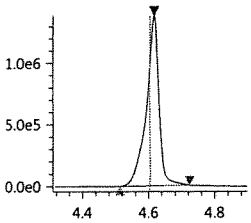
6_2-FTS_1
Conc 0.0089
RT 4.609 Area 619
Q 427.00>407.00 3.80e2



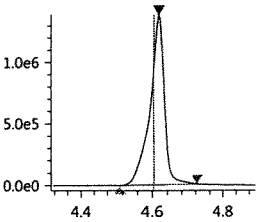
PFHpS_1
Conc ----
RT ---- Area ----
Q 449.00>80.15 0.00e0



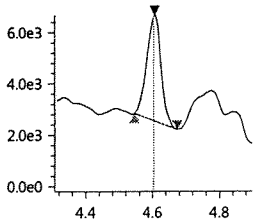
PFOA-13C_IS
Conc 5.0000
RT 4.617 Area 3667721
ISTD 416.80>372.05 1.39e6



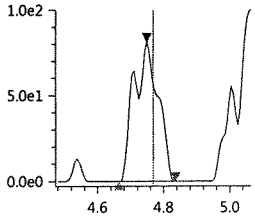
PFOA-13C
Conc 4.7898
RT 4.617 Area 3667721
Q 416.80>372.05 1.39e6



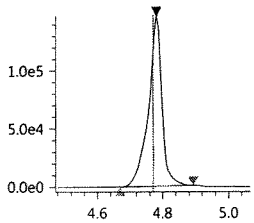
PFOA
Conc 0.0136
RT 4.606 Area 12597
Q 413.00>369.00 6.69e3



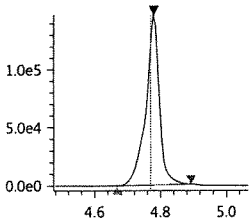
PFOS_1
Conc 0.0061
RT 4.749 Area 417
Q 499.00>80.00 1.00e2



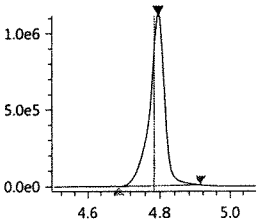
PFOS-13C_IS
Conc 5.0000
RT 4.780 Area 421445
ISTD 502.80>80.05 1.48e5



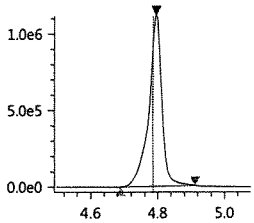
PFOS-13C
Conc 4.4099
RT 4.780 Area 421445
Q 502.80>80.05 1.48e5



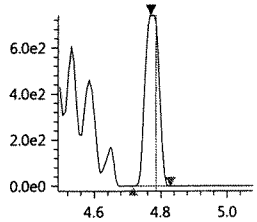
PFNA-13C_IS
Conc 5.0000
RT 4.795 Area 3119769
ISTD 467.80>423.00 1.12e6



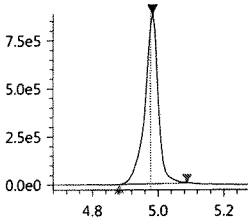
PFNA-13C
Conc 4.5394
RT 4.795 Area 3119769
Q 467.80>423.00 1.12e6



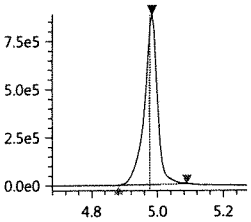
PFNA
Conc 0.0032
RT 4.770 Area 2207
Q 463.00>418.90 7.42e2



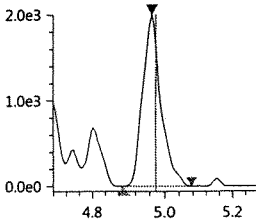
PFDA-13C_IS
Conc 5.0000
RT 4.983 Area 2447147
ISTD 514.80>469.95 8.90e5



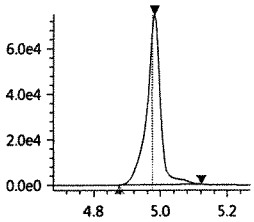
PFDA-13C
Conc 4.3124
RT 4.983 Area 2447147
Q 514.80>469.95 8.90e5



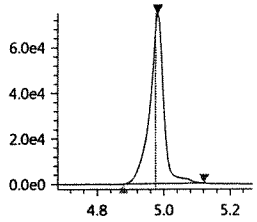
PFDA
Conc 0.0103
RT 4.965 Area 6928
Q 513.00>468.80 2.00e3



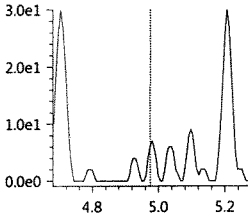
8_2-FTS-13C_IS
Conc 5.0000
RT 4.982 Area 216632
ISTD 528.80>509.00 7.52e4



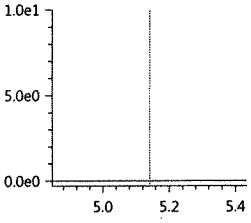
8_2-FTS-13C
Conc 4.1996
RT 4.982 Area 216632
Q 528.80>509.00 7.52e4



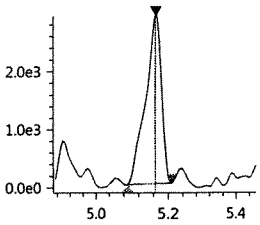
8_2-FTS_1
Conc ----
RT ---- Area ----
Q 526.90>506.90 3.00e1



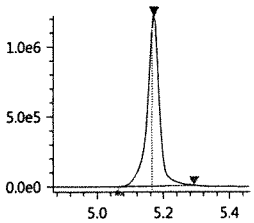
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 0.00e0



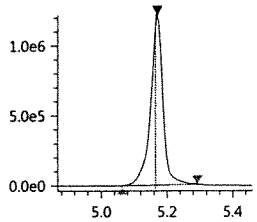
PFUnA
Conc 0.0118
RT 5.166 Area 8663
Q 563.00>518.90 2.94e3



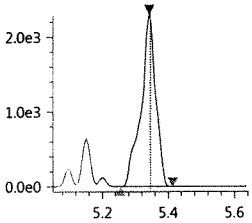
PFUnA-13C_IS
Conc 5.0000
RT 5.170 Area 3170247
ISTD 564.80>519.95 1.23e6



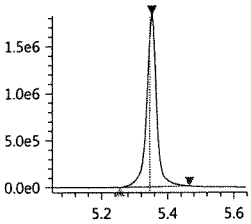
PFUnA-13C
Conc 4.6934
RT 5.170 Area 3170247
Q 564.80>519.95 1.23e6



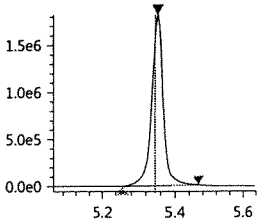
PFDoA
Conc 0.0138
RT 5.343 Area 7077
Q 613.05>569.00 2.29e3



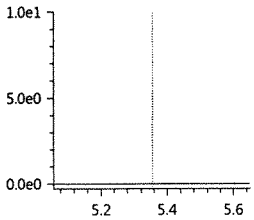
PFDoA-13C
Conc 4.5743
RT 5.353 Area 3913652
Q 614.80>569.95 1.82e6



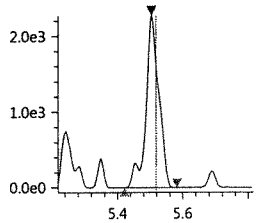
PFDoA-13C_IS
Conc 5.0000
RT 5.353 Area 3913652
ISTD 614.80>569.95 1.82e6



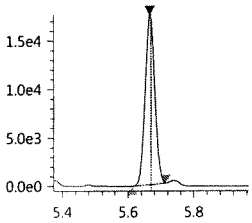
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



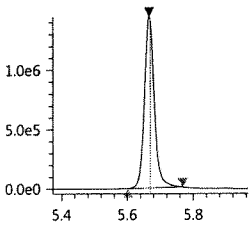
PFTrDA
Conc 0.0103
RT 5.504 Area 6302
Q 663.00>618.90 2.27e3



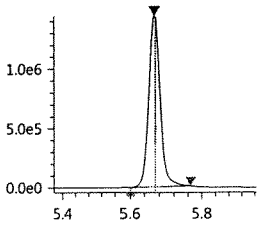
PFTeDA
Conc 0.0184
RT 5.667 Area 35645
Q 713.40>669.00 1.77e4



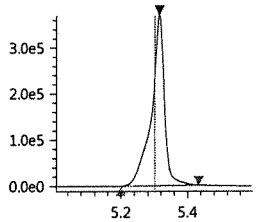
PFTeDA-13C
Conc 4.4653
RT 5.667 Area 3089537
Q 714.70>669.90 1.44e6



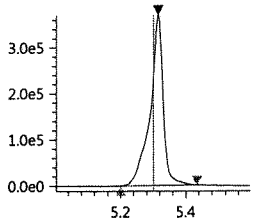
PFTeDA-13C_IS
Conc 5.0000
RT 5.667 Area 3089537
ISTD 714.70>669.90 1.44e6



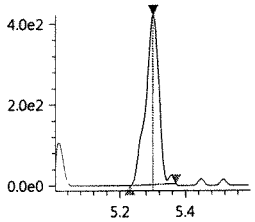
FOSA-13C_IS
Conc 5.0000
RT 5.316 Area 1023041
ISTD 506.00>78.05 3.70e5



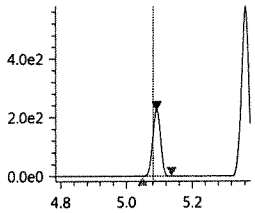
FOSA-13C
Conc 3.9404
RT 5.316 Area 1023041
Q 506.00>78.05 3.70e5



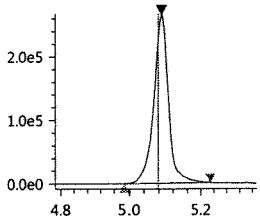
FOSA
Conc 0.0038
RT 5.302 Area 1190
Q 498.00>78.00 4.22e2



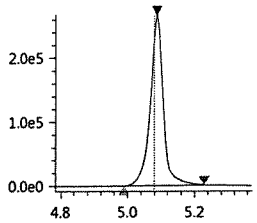
N-MeFOSAA
Conc 0.0031
RT 5.092 Area 371
Q 570.20>419.00 5.81e2



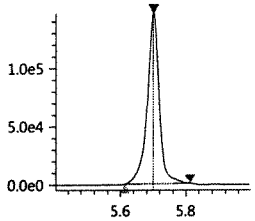
N-MeFOSAA-d3
Conc 4.4209
RT 5.088 Area 743320
Q 572.80>419.05 2.68e5



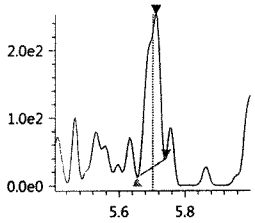
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.088 Area 743320
ISTD 572.80>419.05 2.68e5



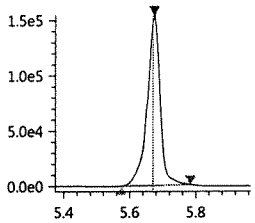
N-MeFOSA_IS
Conc 5.0000
RT 5.701 Area 376169
ISTD 514.90>168.90 1.47e5



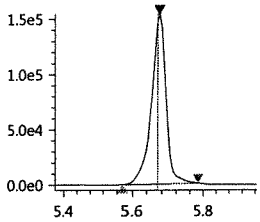
N-MeFOSA
Conc 0.0061
RT 5.711 Area 613
Q 512.00>169.10 2.53e2



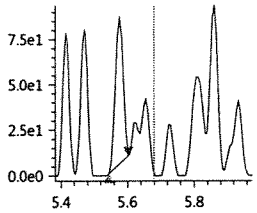
N-MeFOSE-d7
Conc 4.2183
RT 5.674 Area 416228
Q 622.70>59.10 1.55e5



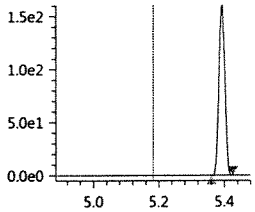
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.674 Area 416228
ISTD 622.70>59.10 1.55e5



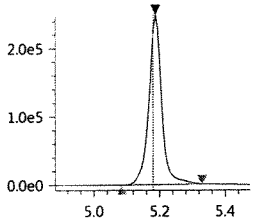
N-MeFOSE
Conc ----
RT ---- Area ----
Q 616.00>59.00 9.40e1



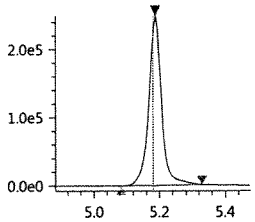
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 1.61e2



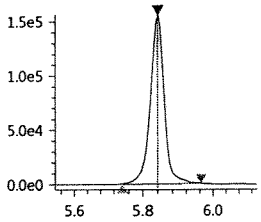
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.187 Area 674455
ISTD 588.80>419.00 2.50e5



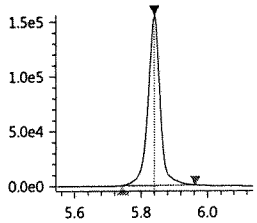
N-EtFOSAA-d5
Conc 4.4218
RT 5.187 Area 674455
Q 588.80>419.00 2.50e5



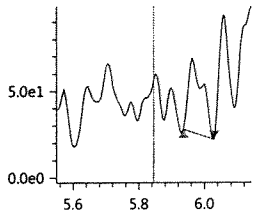
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.840 Area 409464
ISTD 530.90>169.15 1.57e5



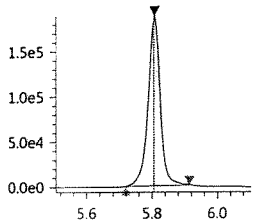
N-EtFOSA-d9
Conc 4.0275
RT 5.840 Area 409464
Q 530.90>169.15 1.57e5



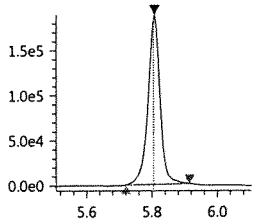
N-EtFOSA
Conc ----
RT ---- Area ----
Q 526.90>169.10 9.90e1



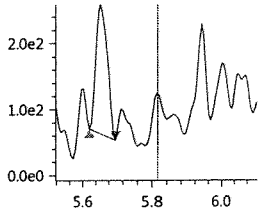
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.808 Area 483666
ISTD 638.70>59.10 1.90e5



N-EtFOSE-d9
Conc 4.0644
RT 5.808 Area 483666
Q 638.70>59.10 1.90e5



N-EtFOSE
Conc ----
RT ---- Area ----
Q 630.00>58.90 2.59e2



7/24/2017_b1_IS

ALS Environmental

Injection Log

LCMS06 -Shimadzu 8050

ICAL Date:	7/17/2017	**1st Review:**	Justine Tennant
Cal. Std. xp:	11/26/2017	**2nd Review:**	JUL 25 2017
ICAL ID:	KC1700129	**Column:**	Phenomenx EVO-C18 100X4.6 mm S/N: H17-159040
LIMS ID:	554813	**Mobile Phases**	A: 5mM Ammonium Acetate in H2O 17-OLC-01-68B B: 5mM Ammonium Acetate In MeOH 17-OLC-01-68A

	Sample Name		File Name	Acquisition Method	Dilution	R	Comments
1	IB	IB	071717_106	PFAS_060917.lcm	1x		See 07/17/17_b1
2	0.01 ppb	17-OLC-01-59B	071717_107	PFAS_060917.lcm	1x		See 07/17/17_b1
3	0.02 ppb	17-OLC-01-59C	071717_108	PFAS_060917.lcm	1x		See 07/17/17_b1
4	0.05ppb	17-OLC-01-59D	071717_109	PFAS_060917.lcm	1x		See 07/17/17_b1
5	0.1ppb	17-OLC-01-59E	071717_110	PFAS_060917.lcm	1x		See 07/17/17_b1
6	0.25ppb	17-OLC-01-59F	071717_111	PFAS_060917.lcm	1x		See 07/17/17_b1
7	0.50ppb	17-OLC-01-59G	071717_112	PFAS_060917.lcm	1x		See 07/17/17_b1
8	1 ppb	17-OLC-01-59H	071717_113	PFAS_060917.lcm	1x		See 07/17/17_b1
9	5 ppb	17-OLC-01-59I	071717_114	PFAS_060917.lcm	1x		See 07/17/17_b1
10	10 ppb	17-OLC-01-59J	071717_115	PFAS_060917.lcm	1x		See 07/17/17_b1
11	20 ppb	17-OLC-01-59K	071717_116	PFAS_060917.lcm	1x		See 07/17/17_b1
12	IB	IB	071717_117	PFAS_060917.lcm	1x		See 07/17/17_b1
13	1 ppb ICV	17-OLC-01-59N	071717_118	PFAS_060917.lcm	1x		See 07/17/17_b1
14	IB	IB	071717_119	PFAS_060917.lcm	1x		See 07/17/17_b1
15	1 ppb	17-OLC-01-66C	072417_106	PFAS_060917.lcm	1x	☑	
16	IB	IB	072417_107	PFAS_060917.lcm	1x	☑	
17	KQ1709896-04	MB	072417_108	PFAS_060917.lcm	1x		NR, not needed by IS
18	KQ1709896-03	LCS	072417_109	PFAS_060917.lcm	1x		NR, not needed by IS
19	K1707559-001		072417_110	PFAS_060917.lcm	1x		NR, not needed by IS
20	KQ1709896-01	K1707559-001 MS	072417_111	PFAS_060917.lcm	1x		NR, not needed by IS
21	KQ1709896-02	K1707559-001 DMS	072417_112	PFAS_060917.lcm	1x		NR, not needed by IS
22	K1707559-002		072417_113	PFAS_060917.lcm	1x		NR, not needed by IS
23	K1707559-003		072417_114	PFAS_060917.lcm	1x		NR, not needed by IS
24	K1707559-004		072417_115	PFAS_060917.lcm	1x		NR, not needed by IS
25	K1707681-001		072417_116	PFAS_060917.lcm	1x	☑	8:2 surr rec high-quant 8:2 by IS. Report only 8:2/8:2 surr.
26	K1707681-002		072417_117	PFAS_060917.lcm	1x	☑	8:2 surr rec high-quant 8:2 by IS. Report only 8:2/8:2 surr.

J:\LCMS06\Data\072417_b1_IS\072417_b1_IS injection log

Validation Report

Data File: J:\LCMS06\Data\072417_b1_IS\072417_106
Lab ID: KQ1710170-01
RunType: CCV
Matrix: Soil

Date Acquired: 7/24/17 15:42
Batch ID: 554813
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Above Highest ICAL Level	X	

Primary Review: JT 7/25/17

Secondary Review: JUL 25 2017

Printed: 7/25/17 9:18
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072417_b1_IS\072417_106	**Instrument:**	K-LCMS-06
Acqu Date:	7/24/17 15:42	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1710170-01	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	554813	**Prep Lot:**		**Report Group:**	KQ1710170
Analysis Method:	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700129
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.703	339441	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
13C2-8:2 FTS	4.983	235908	5.0681	Y

Target Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.982	45179	0.9932	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/25/17 9:18

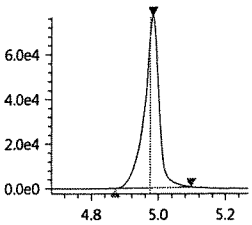
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072417_106

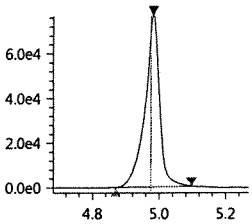
Sample ID: 1 ppb
Date acquired: 7/24/2017 3:42:20 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_106.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 1

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
8_2-FTS-13C_IS	4.983	235908	235908	15	5.0000	ng/mL	5	100.00	Auto
8_2-FTS-13C	4.983	235908	339441	1	5.0681	ng/mL	5	101.36	Auto
8_2-FTS_1	4.982	45179	339441	1	1.0063	ng/mL	0.960045	104.82	Auto
N-MeFOSA_IS	5.703	339441	339441	1	5.0000	ng/mL	5	100.00	Auto

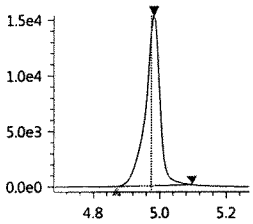
8_2-FTS-13C_IS
Conc 5.0000
RT 4.983 Area 235908
ISTD 528.80>509.00 7.70e4



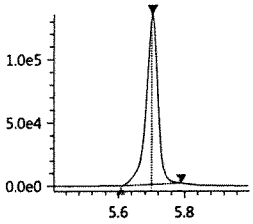
8_2-FTS-13C
Conc 5.0681
RT 4.983 Area 235908
Q 528.80>509.00 7.70e4



8_2-FTS_1
Conc 1.0063
RT 4.982 Area 45179
Q 526.90>506.90 1.55e4



N-MeFOSA_IS
Conc 5.0000
RT 5.703 Area 339441
ISTD 514.90>168.90 1.36e5



Insight Report

Printed at 7/25/2017 9:01:30 AM

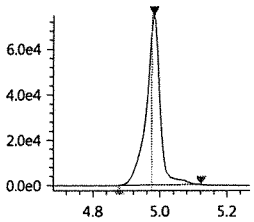
JT

072417_107

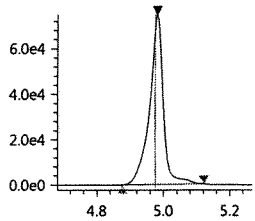
Sample ID: IB
Date acquired: 7/24/2017 3:52:47 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072417_b1\072417_107.lcd
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 1

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
8_2-FTS-13C_IS	4.982	216632	216632	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.982	216632	376169	1	4.1996	ng/mL	----	----	Auto
8_2-FTS_1	----	----	----	1	----	ng/mL	----	----	ND(W/B)
N-MeFOSA_IS	5.701	376169	376169	1	5.0000	ng/mL	----	----	Auto

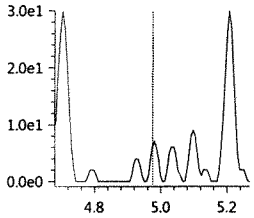
8_2-FTS-13C_IS
Conc 5.0000
RT 4.982 Area 216632
ISTD 528.80>509.00 7.52e4



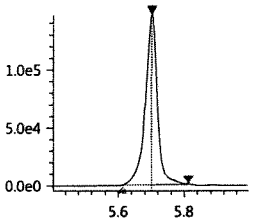
8_2-FTS-13C
Conc 4.1996
RT 4.982 Area 216632
Q 528.80>509.00 7.52e4



8_2-FTS_1
Conc ----
RT ---- Area ----
Q 526.90>506.90 3.00e1



N-MeFOSA_IS
Conc 5.0000
RT 5.701 Area 376169
ISTD 514.90>168.90 1.47e5



JUL 25 2017

7/26/2017_b2

ALS Environmental

Injection Log

LCMS06 -Shimadzu 8050

ICAL Date:	7/17/2017	**1st Review:**	Justine Tennant
Cal. Std. xp:	11/26/2017	**2nd Review:**	JUL 2 7 2017
ICAL ID:	KC1700121	**Column:**	Phenomenex EVO-C18 100X4.6 mm S/N: H17-159040
LIMS ID:	555050	**Mobile Phases**	A: 5mM Ammonium Acetate in H2O 17-OLC-01-68B + 17-OLC-01-71C; B: 5mM Ammonium Acetate In MeOH 17-OLC-01-68A + 17-OLC-01-71B

	Sample Name		File Name	Acquisition Method	Dilution	R	Comments
1	IB	IB	071717_106	PFAS_060917.lcm	1x		See 07/17/17_b1 for curve review
2	0.01 ppb	17-OLC-01-59B	071717_107	PFAS_060917.lcm	1x		See 07/17/17_b1 for curve review
3	0.02 ppb	17-OLC-01-59C	071717_108	PFAS_060917.lcm	1x		See 07/17/17_b1 for curve review
4	0.05ppb	17-OLC-01-59D	071717_109	PFAS_060917.lcm	1x		See 07/17/17_b1 for curve review
5	0.1ppb	17-OLC-01-59E	071717_110	PFAS_060917.lcm	1x		See 07/17/17_b1 for curve review
6	0.25ppb	17-OLC-01-59F	071717_111	PFAS_060917.lcm	1x		See 07/17/17_b1 for curve review
7	0.50ppb	17-OLC-01-59G	071717_112	PFAS_060917.lcm	1x		See 07/17/17_b1 for curve review
8	1 ppb	17-OLC-01-59H	071717_113	PFAS_060917.lcm	1x		See 07/17/17_b1 for curve review
9	5 ppb	17-OLC-01-59I	071717_114	PFAS_060917.lcm	1x		See 07/17/17_b1 for curve review
10	10 ppb	17-OLC-01-59J	071717_115	PFAS_060917.lcm	1x		See 07/17/17_b1 for curve review
11	20 ppb	17-OLC-01-59K	071717_116	PFAS_060917.lcm	1x		See 07/17/17_b1 for curve review
12	IB	IB	071717_117	PFAS_060917.lcm	1x		See 07/17/17_b1 for curve review
13	1 ppb ICV	17-OLC-01-59N	071717_118	PFAS_060917.lcm	1x		See 07/17/17_b1 for curve review
14	IB	IB	071717_119	PFAS_060917.lcm	1x		See 07/17/17_b1 for curve review
15	1 ppb	17-OLC-01-66C	072617_117	PFAS_060917.lcm	1x	☑	High for 8:2 and 6:2 surrogates-narrate, natives OK.
16	IB	IB	072617_118	PFAS_060917.lcm	1x	☑	
17	KQ1710166-03	MB	072617_119	PFAS_060917.lcm	1x	☑	High recovery 8:2 surr-narrate high bias ND.
18	KQ1710166-01	LCS	072617_120	PFAS_060917.lcm	1x	☑	Low recovery PFHxS, PFHpS, PFOS, 6:2 and PFDS-RR to confirm.
19	KQ1710166-02	DLCS	072617_121	PFAS_060917.lcm	1x	☑	Low recovery PFHxS, PFOS, NEtFOSA, 6:2 and PFDS-RR to confirm.
20	K1707681-006		072617_122	PFAS_060917.lcm	1x	☑	High recovery 8:2 surr-narrate high bias ND.
21	K1707681-007		072617_123	PFAS_060917.lcm	1x	☑	High recovery 8:2, 6:2 surr-quant by IS. Low rec PFBS surr-narrate interim limits. See 50x dil for PFHxS.
22	K1707681-009		072617_124	PFAS_060917.lcm	1x	☑	High recovery 8:2 surr-narrate high bias ND.
23	K1707108-007 250X		072617_125	PFAS_060917.lcm	250x	☑	Q-edited for PFBA, PFPeA, PFHpA, PFOA, PFOS and associated surr only. Report all q-edited analytes and associated surr only.
24	K1707108-012 250X		072617_126	PFAS_060917.lcm	250x	☑	Q-edited for PFBA, PFPeA, PFHpA, PFOA, PFOS and associated surr only. Report PFBA and PFOS from 1x with E flag-too dilute. Report all other q-edited analytes and surr.
25	K1707108-013 250X		072617_127	PFAS_060917.lcm	250x	☑	Q-edited for PFBA, PFPeA, PFHpA, PFOA, PFOS and associated surr only. Report all q-edited analytes and associated surr only. PFOS surr high-narrate due to dilution
26	K1707108-014 250X		072617_128	PFAS_060917.lcm	250x	☑	Q-edited for PFBA, PFPeA, PFHpA, PFOA, PFOS and associated surr only. Report all q-edited analytes and associated surr only. PFBA surr high-narrate due to dilution

Validation Report

Data File: J:\LCMS06\Data\072617_b2\072617_117
Lab ID: KQ1710331-01
RunType: CCV
Matrix: Water

Date Acquired: 7/26/17 12:01
Batch ID: 555050
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Above Highest ICAL Level	X	

Primary Review: JT 7/27/17

Secondary Review: JUL 27 2017

Printed: 7/27/17 9:27
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072617_b2\072617_117	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 12:01	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1710331-01	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	555050	**Prep Lot:**		**Report Group:**	KQ1710331
Analysis Method:	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.691	335144	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
13C4-PFBA	3.416	2253101	6.0035	Y
13C2-PFHxA	4.243	2856881	5.4226	Y
18O2-PFHxS	4.430	408674	5.2396	Y
13C2-6:2 FTS	4.595	471765	9.2485	Y
13C4-PFOA	4.607	3698680	5.4215	Y
13C5-PFNA	4.786	3232124	5.2786	Y
13C4-PFOS	4.770	443242	5.2057	Y
13C2-PFDA	4.974	2832892	5.6033	Y
13C2-PFUnDA	5.161	3304138	5.4904	Y
13C2-PFDoDA	5.345	4056139	5.3212	Y
D7-MeFOSE	5.665	376531	4.2831	Y
D9-EtFOSE	5.798	463617	4.3729	Y
D5-EtFOSA	5.830	455353	5.0272	Y
13C2-8:2 FTS	4.973	389273	8.4701	Y
13C2-PFTeDA	5.660	3145245	5.1022	Y
13C4-PFHpA	4.432	2849065	5.3623	Y
13C5-PFPeA	3.982	1044093	5.6262	Y
13C3-PFBS	4.030	686970	5.2464	Y
13C8-FOSA	5.305	1189094	5.1407	Y

Target Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
Perfluorobutanoic acid (PFBA)	3.417	500017	0.8655	Y
Perfluoropentanoic acid (PFPeA)	3.982	622747	0.8448	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 9:27

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072617_b2\072617_117	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 12:01	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1710331-01	**Raw Units:**	ng/mL

Target Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.030	110180	0.9466	Y
Perfluorohexanoic acid (PFHxA)	4.243	489814	0.8545	Y
Perfluoroheptanoic acid (PFHpA)	4.431	546166	0.8725	Y
Perfluorohexane sulfonic acid (PFHxS)	4.430	87314	0.7699	Y
Perfluorooctanoic acid (PFOA)	4.607	860583	0.9205	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.598	82820	0.9301	Y
Perfluorononanoic acid (PFNA)	4.787	639886	0.8985	Y
Perfluorooctane sulfonic acid (PFOS)	4.769	58158	0.8090	Y
Perfluorodecanoic acid (PFDA)	4.974	668008	0.8610	Y
Perfluoroundecanoic acid (PFUnDA)	5.162	605537	0.7943	Y
Perfluorooctane sulfonamide (FOSA)	5.305	315105	0.8628	Y
Perfluorododecanoic acid (PFDoDA)	5.345	480787	0.9075	Y
Perfluorotridecanoic acid (PFTrDA)	5.511	606082	0.9686	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.694	88115	0.9637	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.674	141850	1.0721	Y
Perfluorotetradecanoic acid (PFTeDA)	5.660	336356	0.9154	Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.810	150745	1.0361	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.836	14829	0.8807	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.972	74704	0.9953	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.596	106511	0.8564	Y
Perfluorodecane sulfonic acid (PFDS)	5.138	73080	0.8614	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 9:27
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Validation Report

Data File: J:\LCMS06\Data\072617_b2\072617_117
Lab ID: KQ1710331-02
RunType: CCV
Matrix: NonAq Liquid

Date Acquired: 7/26/17 12:01
Batch ID: 555050
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Above Highest ICAL Level	X	

Primary Review: JT 7/27/17

Secondary Review: JUL 27 2017

Printed: 7/27/17 9:27
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072617_b2\072617_117	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 12:01	**Vial:**	2
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1710331-02	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	NonAq Liquid
Prod Code:	PFOA	**Collect Date:**	7/3/17	**Receive Date:**	7/7/17

Analysis Lot:	555050	**Prep Lot:**		**Report Group:**	KQ1710331
Analysis Method:	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.691	335144	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
13C4-PFBA	3.416	2253101	6.0035	Y
13C2-PFHxA	4.243	2856881	5.4226	Y
18O2-PFHxS	4.430	408674	5.2396	Y
13C2-6:2 FTS	4.595	471765	9.2485	Y
13C4-PFOA	4.607	3698680	5.4215	Y
13C5-PFNA	4.786	3232124	5.2786	Y
13C4-PFOS	4.770	443242	5.2057	Y
13C2-PFDA	4.974	2832892	5.6033	Y
13C2-PFUnDA	5.161	3304138	5.4904	Y
13C2-PFDoDA	5.345	4056139	5.3212	Y
D7-MeFOSE	5.665	376531	4.2831	Y
D9-EtFOSE	5.798	463617	4.3729	Y
D5-EtFOSA	5.830	455353	5.0272	Y
13C2-8:2 FTS	4.973	389273	8.4701	Y
13C2-PFTeDA	5.660	3145245	5.1022	Y
13C4-PFHpA	4.432	2849065	5.3623	Y
13C5-PFPeA	3.982	1044093	5.6262	Y
13C3-PFBS	4.030	686970	5.2464	Y
13C8-FOSA	5.305	1189094	5.1407	Y

Target Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
Perfluorobutanoic acid (PFBA)	3.417	500017	0.8655	Y
Perfluoropentanoic acid (PFPeA)	3.982	622747	0.8448	Y

Data File:	J:\LCMS06\Data\072617_b2\072617_117	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 12:01	**Vial:**	2
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1710331-02	**Raw Units:**	ng/mL

Target Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.030	110180	0.9466	Y
Perfluorohexanoic acid (PFHxA)	4.243	489814	0.8545	Y
Perfluoroheptanoic acid (PFHpA)	4.431	546166	0.8725	Y
Perfluorohexane sulfonic acid (PFHxS)	4.430	87314	0.7699	Y
Perfluorooctanoic acid (PFOA)	4.607	860583	0.9205	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.598	82820	0.9301	Y
Perfluorononanoic acid (PFNA)	4.787	639886	0.8985	Y
Perfluorooctane sulfonic acid (PFOS)	4.769	58158	0.8090	Y
Perfluorodecanoic acid (PFDA)	4.974	668008	0.8610	Y
Perfluoroundecanoic acid (PFUnDA)	5.162	605537	0.7943	Y
Perfluorooctane sulfonamide (FOSA)	5.305	315105	0.8628	Y
Perfluorododecanoic acid (PFDoDA)	5.345	480787	0.9075	Y
Perfluorotridecanoic acid (PFTrDA)	5.511	606082	0.9686	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.694	88115	0.9637	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.674	141850	1.0721	Y
Perfluorotetradecanoic acid (PFTeDA)	5.660	336356	0.9154	Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.810	150745	1.0361	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.836	14829	0.8807	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.972	74704	0.9953	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.596	106511	0.8564	Y
Perfluorodecane sulfonic acid (PFDS)	5.138	73080	0.8614	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 9:27

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Insight Report

Printed at 7/27/2017 8:55:49 AM

Batch File: ----
Method File: J:\LCMS06\Data\072617_b2\072617_b2.lcm
Project File: J:\LCMS06\Data\072617_b2\072617_b2.damlp
Flags File: J:\LCMS06\Data\072617_b2\072617_b2.damlp

072617_117

Sample ID: 1 ppb
Date acquired: 7/26/2017 12:01:25 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b2\072617_117.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 1

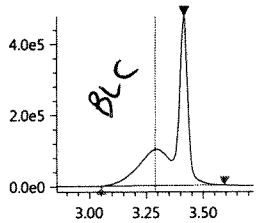
Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.416	2244458	2244458	2	5.0000	ng/mL	5	100.00	M
PFBA-13C	3.416	2253101	335144	1	6.0035	ng/mL	5	120.07	M
PFBA	3.417	500017	2244458	2	0.8655	ng/mL	1	86.55	M
PFPeA-13C_IS	3.982	1044093	1044093	4	5.0000	ng/mL	5	100.00	Auto
PFPeA-13C	3.982	1044093	335144	1	5.6262	ng/mL	5	112.52	Auto
PFPeA	3.982	622747	1044093	4	0.8448	ng/mL	1	84.48	Auto
PFBS_1	4.030	110180	686970	16	0.9466	ng/mL	0.88737	106.67	Auto
PFBS-13C	4.030	686970	335144	1	5.2464	ng/mL	5	104.93	Auto
PFBS-13C_IS	4.030	686970	686970	16	5.0000	ng/mL	5	100.00	Auto
PFHxA-13C_IS	4.243	2856881	2856881	6	5.0000	ng/mL	5	100.00	Auto
PFHxA-13C	4.243	2856881	335144	1	5.4226	ng/mL	5	108.45	Auto
PFHxA	4.243	489814	2856881	6	0.8545	ng/mL	1	85.45	Auto
HPFO_DA	4.309	115742	674037	3	0.9027	ng/mL	1	90.27	Auto
HFPO_DA-13C_IS	4.309	674037	674037	3	5.0000	ng/mL	5	100.00	Auto
HFPO_DA-13C	4.309	674037	335144	1	5.1613	ng/mL	5	103.23	Auto
4_2-FTS-13C_IS	4.217	655473	655473	5	5.0000	ng/mL	5	100.00	Auto
4_2-FTS-13C	4.217	655473	335144	1	7.7012	ng/mL	5	154.02	Auto
4_2-FTS_1	4.217	141633	655473	5	0.8484	ng/mL	0.937218	90.52	Auto
PFHpA	4.431	546166	2849065	8	0.8725	ng/mL	1	87.25	Auto
PFHpA-13C_IS	4.432	2849065	2849065	8	5.0000	ng/mL	5	100.00	Auto
PFHpA-13C	4.432	2849065	335144	1	5.3623	ng/mL	5	107.25	Auto
PFHxS-18O_IS	4.430	408674	408674	7	5.0000	ng/mL	5	100.00	Auto
PFHxS-18O	4.430	408674	335144	1	5.2396	ng/mL	5	104.79	Auto
PFHxS_1	4.430	87314	408674	7	0.7699	ng/mL	0.913075	84.32	Auto
6_2-FTS-13C	4.595	471765	335144	1	9.2485	ng/mL	5	184.97	Auto
6_2-FTS-13C_IS	4.595	471765	471765	10	5.0000	ng/mL	5	100.00	Auto
6_2-FTS_1	4.596	106511	471765	10	0.8564	ng/mL	0.951168	90.04	M
PFHpS_1	4.598	82820	408674	7	0.9301	ng/mL	0.953438	97.55	Auto
PFOA-13C_IS	4.607	3698680	3698680	9	5.0000	ng/mL	5	100.00	Auto
PFOA-13C	4.607	3698680	335144	1	5.4215	ng/mL	5	108.43	Auto
PFOA	4.607	860583	3698680	9	0.9205	ng/mL	1	92.05	Auto
PFOS_1	4.769	58158	443242	13	0.8090	ng/mL	0.929229	87.06	M
PFOS-13C_IS	4.770	443242	443242	13	5.0000	ng/mL	5	100.00	Auto
PFOS-13C	4.770	443242	335144	1	5.2057	ng/mL	5	104.11	Auto
PFNA-13C_IS	4.786	3232124	3232124	11	5.0000	ng/mL	5	100.00	Auto
PFNA-13C	4.786	3232124	335144	1	5.2786	ng/mL	5	105.57	Auto
PFNA	4.787	639886	3232124	11	0.8985	ng/mL	1	89.85	M
PFDA-13C_IS	4.974	2832892	2832892	12	5.0000	ng/mL	5	100.00	Auto
PFDA-13C	4.974	2832892	335144	1	5.6033	ng/mL	5	112.07	Auto
PFDA	4.974	668008	2832892	12	0.8610	ng/mL	1	86.10	M
8_2-FTS-13C_IS	4.973	389273	389273	15	5.0000	ng/mL	5	100.00	Auto
8_2-FTS-13C	4.973	389273	335144	1	8.4701	ng/mL	5	169.40	Auto
8_2-FTS_1	4.972	74704	389273	15	0.9953	ng/mL	0.960045	103.67	Auto
PFDS_1	5.138	73080	443242	13	0.8614	ng/mL	0.964667	89.30	Auto
PFUnA	5.162	605537	3304138	14	0.7943	ng/mL	1	79.43	Auto
PFUnA-13C_IS	5.161	3304138	3304138	14	5.0000	ng/mL	5	100.00	Auto
PFUnA-13C	5.161	3304138	335144	1	5.4904	ng/mL	5	109.81	Auto
PFDoA	5.345	480787	4056139	17	0.9075	ng/mL	1	90.75	Auto
PFDoA-13C	5.345	4056139	335144	1	5.3212	ng/mL	5	106.42	Auto
PFDoA-13C_IS	5.345	4056139	4056139	17	5.0000	ng/mL	5	100.00	Auto
10_2-FtS_1	5.351	58273	389273	15	0.7917	ng/mL	0.966191	81.94	Auto
PFTrDA	5.511	606082	3145245	22	0.9686	ng/mL	1	96.86	Auto
PFTeDA	5.660	336356	3145245	22	0.9154	ng/mL	1	91.54	Auto
PFTeDA-13C	5.660	3145245	335144	1	5.1022	ng/mL	5	102.04	Auto
PFTeDA-13C_IS	5.660	3145245	3145245	22	5.0000	ng/mL	5	100.00	Auto
FOSA-13C_IS	5.305	1189094	1189094	18	5.0000	ng/mL	5	100.00	Auto
FOSA-13C	5.305	1189094	335144	1	5.1407	ng/mL	5	102.81	Auto
FOSA	5.305	315105	1189094	18	0.8628	ng/mL	1	86.28	Auto
N-MeFOSAA	5.080	114159	789437	19	0.9027	ng/mL	1	90.27	Auto
N-MeFOSAA-d3	5.079	789437	335144	1	5.2699	ng/mL	5	105.40	Auto
N-MeFOSAA-d3_IS	5.079	789437	789437	19	5.0000	ng/mL	5	100.00	Auto

JK

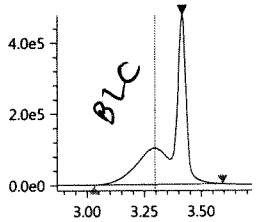
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-MeFOSA_IS	5.691	335144	335144	1	5.0000	ng/mL	5	100.00	Auto
N-MeFOSA	5.694	88115	376531	20	0.9637	ng/mL	1	96.37	Auto
N-MeFOSE-d7	5.665	376531	335144	1	4.2831	ng/mL	5	85.66	Auto
N-MeFOSE-d7_IS	5.665	376531	376531	20	5.0000	ng/mL	5	100.00	Auto
N-MeFOSE	5.674	141850	376531	20	1.0721	ng/mL	1	107.21	Auto
N-EtFOSAA	5.183	112289	716096	21	0.9292	ng/mL	1	92.92	Auto
N-EtFOSAA-d5_IS	5.179	716096	716096	21	5.0000	ng/mL	5	100.00	Auto
N-EtFOSAA-d5	5.179	716096	335144	1	5.2695	ng/mL	5	105.39	Auto
N-EtFOSA-d9_IS	5.830	455353	455353	23	5.0000	ng/mL	5	100.00	Auto
N-EtFOSA-d9	5.830	455353	335144	1	5.0272	ng/mL	5	100.54	Auto
N-EtFOSA	5.836	14829	455353	23	0.8807	ng/mL	1	88.07	Auto
N-EtFOSE-d9_IS	5.798	463617	463617	24	5.0000	ng/mL	5	100.00	Auto
N-EtFOSE-d9	5.798	463617	335144	1	4.3729	ng/mL	5	87.46	Auto
N-EtFOSE	5.810	150745	463617	24	1.0361	ng/mL	1	103.61	Auto

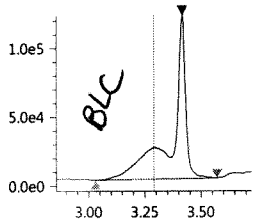
PFBA-13C_IS
Conc 5.0000
RT 3.416 Area 2244458
ISTD 216.90>172.15 4.79e5



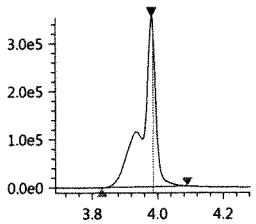
PFBA-13C
Conc 6.0035
RT 3.416 Area 2253101
Q 216.90>172.15 4.79e5



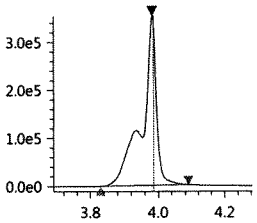
PFBA
Conc 0.8655
RT 3.417 Area 500017
Q 213.00>169.10 1.24e5



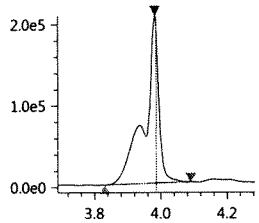
PFPeA-13C_IS
Conc 5.0000
RT 3.982 Area 1044093
ISTD 267.90>223.00 3.55e5



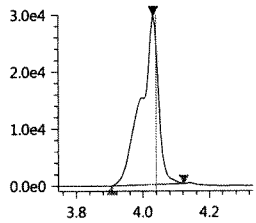
PFPeA-13C
Conc 5.6262
RT 3.982 Area 1044093
Q 267.90>223.00 3.55e5



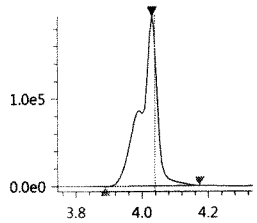
PFPeA
Conc 0.8448
RT 3.982 Area 622747
Q 263.05>219.10 2.11e5



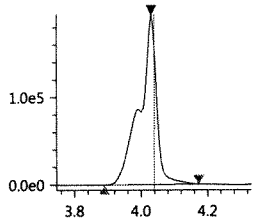
PFBS_1
Conc 0.9466
RT 4.030 Area 110180
Q 299.00>80.00 3.01e4



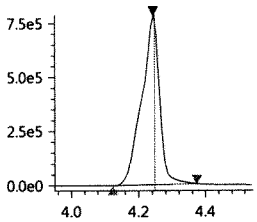
PFBS-13C
Conc 5.2464
RT 4.030 Area 686970
Q 301.80>80.00 1.95e5



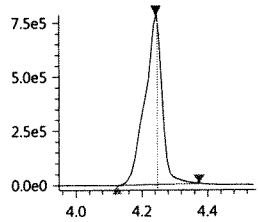
PFBS-13C_IS
Conc 5.0000
RT 4.030 Area 686970
ISTD 301.80>80.00 1.95e5



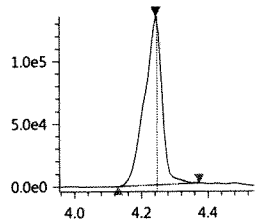
PFHxA-13C_IS
Conc 5.0000
RT 4.243 Area 2856881
ISTD 314.90>270.10 7.90e5



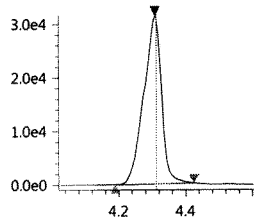
PFHxA-13C
Conc 5.4226
RT 4.243 Area 2856881
Q 314.90>270.10 7.90e5



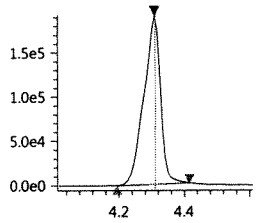
PFHxA
Conc 0.8545
RT 4.243 Area 489814
Q 313.00>269.00 1.36e5



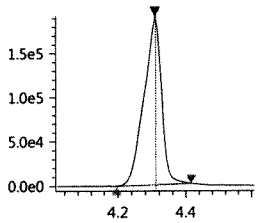
HPFO_DA
Conc 0.9027
RT 4.309 Area 115742
Q 329.00>169.00 3.18e4



HFPO_DA-13C_IS
Conc 5.0000
RT 4.309 Area 674037
ISTD 332.00>286.80 1.93e5

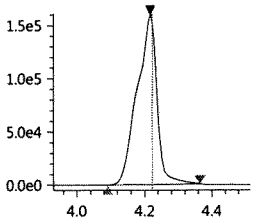


HFPO_DA-13C
Conc 5.1613
RT 4.309 Area 674037
Q 332.00>286.80 1.93e5

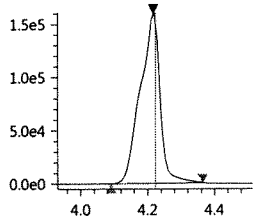


JUL 27 2017

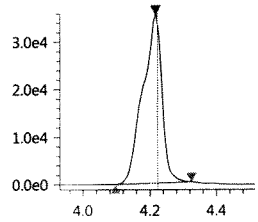
4_2-FTS-13C_IS
Conc 5.0000
RT 4.217 Area 655473
ISTD 328.80>309.05 1.61e5



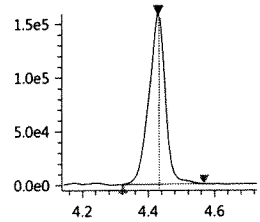
4_2-FTS-13C
Conc 7.7012
RT 4.217 Area 655473
Q 328.80>309.05 1.61e5



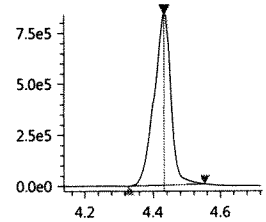
4_2-FTS_1
Conc 0.8484
RT 4.217 Area 141633
Q 327.00>307.05 3.61e4



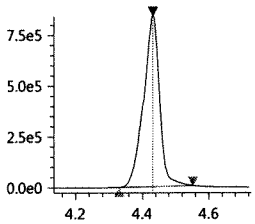
PFHpA
Conc 0.8725
RT 4.431 Area 546166
Q 362.90>319.00 1.60e5



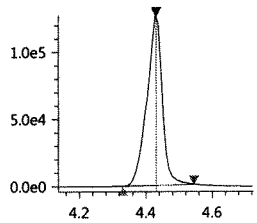
PFHpA-13C_IS
Conc 5.0000
RT 4.432 Area 2849065
ISTD 366.90>322.10 8.42e5



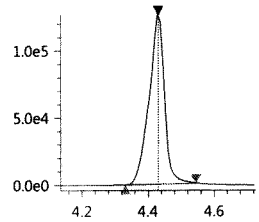
PFHpA-13C
Conc 5.3623
RT 4.432 Area 2849065
Q 366.90>322.10 8.42e5



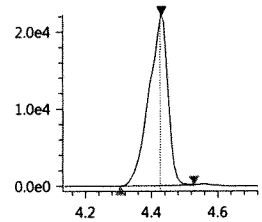
PFHxS-18O_IS
Conc 5.0000
RT 4.430 Area 408674
ISTD 402.70>84.05 1.28e5



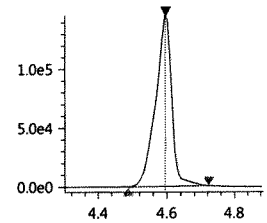
PFHxS-18O
Conc 5.2396
RT 4.430 Area 408674
Q 402.70>84.05 1.28e5



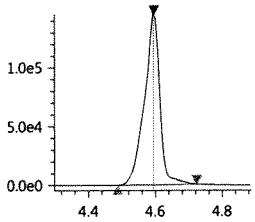
PFHxS_1
Conc 0.7699
RT 4.430 Area 87314
Q 399.00>80.00 2.22e4



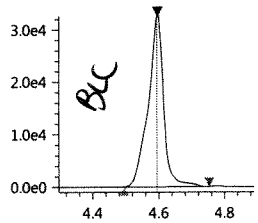
6_2-FTS-13C
Conc 9.2485
RT 4.595 Area 471765
Q 428.90>409.00 1.46e5



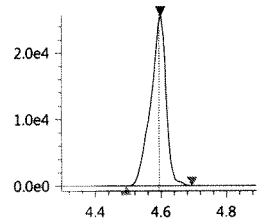
6_2-FTS-13C_IS
Conc 5.0000
RT 4.595 Area 471765
ISTD 428.90>409.00 1.46e5



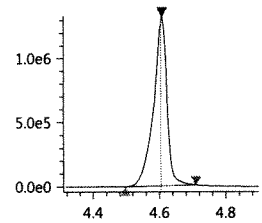
6_2-FTS_1
Conc 0.8564
RT 4.596 Area 106511
Q 427.00>407.00 3.27e4



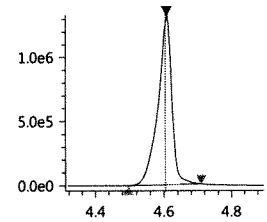
PFHpS_1
Conc 0.9301
RT 4.598 Area 82820
Q 449.00>80.15 2.58e4



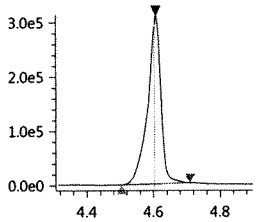
PFOA-13C_IS
Conc 5.0000
RT 4.607 Area 3698680
ISTD 416.80>372.05 1.34e6



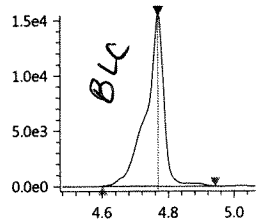
PFOA-13C
Conc 5.4215
RT 4.607 Area 3698680
Q 416.80>372.05 1.34e6



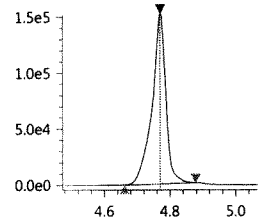
PFOA
Conc 0.9205
RT 4.607 Area 860583
Q 413.00>369.00 3.15e5



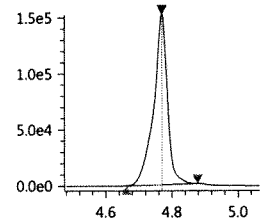
PFOS_1
Conc 0.8090
RT 4.769 Area 58158
Q 499.00>80.00 1.54e4



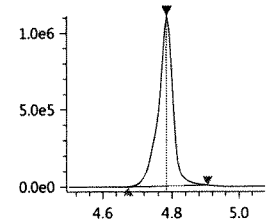
PFOS-13C_IS
Conc 5.0000
RT 4.770 Area 443242
ISTD 502.80>80.05 1.53e5



PFOS-13C
Conc 5.2057
RT 4.770 Area 443242
Q 502.80>80.05 1.53e5

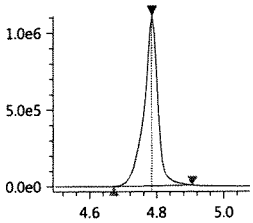


PFNA-13C_IS
Conc 5.0000
RT 4.786 Area 3232124
ISTD 467.80>423.00 1.11e6

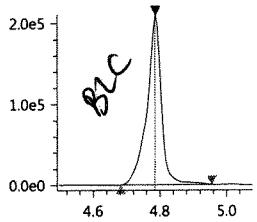


JUL 27 2017

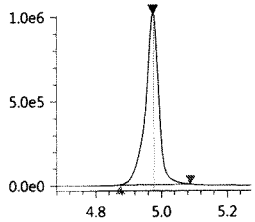
PFNA-13C
Conc 5.2786
RT 4.786 Area 3232124
Q 467.80>423.00 1.11e6



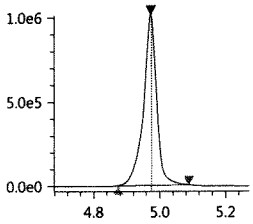
PFNA
Conc 0.8985
RT 4.787 Area 639886
Q 463.00>418.90 2.11e5



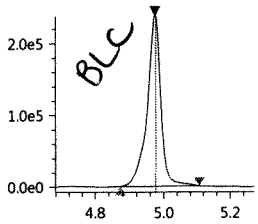
PFDA-13C_IS
Conc 5.0000
RT 4.974 Area 2832892
ISTD 514.80>469.95 1.01e6



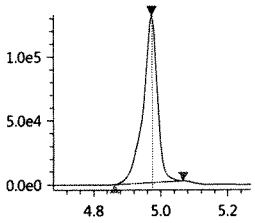
PFDA-13C
Conc 5.6033
RT 4.974 Area 2832892
Q 514.80>469.95 1.01e6



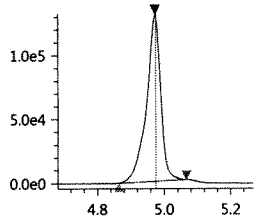
PFDA JA
Conc 0.8610
RT 4.974 Area 668008
Q 513.00>468.80 2.38e5



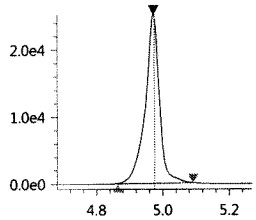
8_2-FTS-13C_IS
Conc 5.0000
RT 4.973 Area 389273
ISTD 528.80>509.00 1.33e5



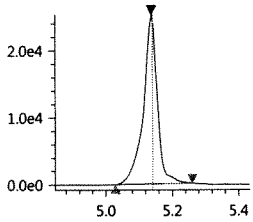
8_2-FTS-13C
Conc 8.4701
RT 4.973 Area 389273
Q 528.80>509.00 1.33e5



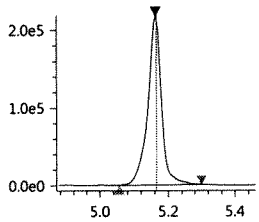
8_2-FTS_1
Conc 0.9953
RT 4.972 Area 74704
Q 526.90>506.90 2.54e4



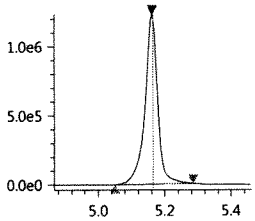
PFDS_1
Conc 0.8614
RT 5.138 Area 73080
Q 599.00>79.90 2.54e4



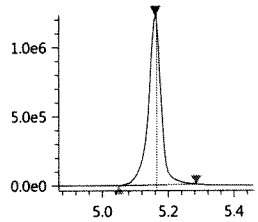
PFUnA
Conc 0.7943
RT 5.162 Area 605537
Q 563.00>518.90 2.19e5



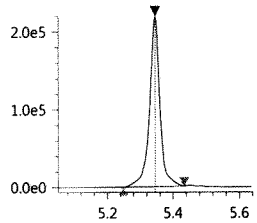
PFUnA-13C_IS
Conc 5.0000
RT 5.161 Area 3304138
ISTD 564.80>519.95 1.24e6



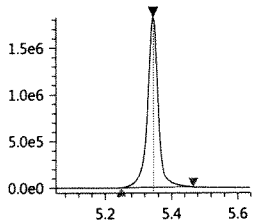
PFUnA-13C
Conc 5.4904
RT 5.161 Area 3304138
Q 564.80>519.95 1.24e6



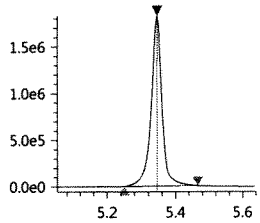
PFDoA
Conc 0.9075
RT 5.345 Area 480787
Q 613.05>569.00 2.20e5



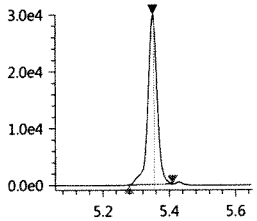
PFDoA-13C
Conc 5.3212
RT 5.345 Area 4056139
Q 614.80>569.95 1.83e6



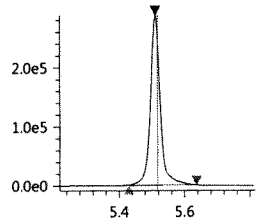
PFDoA-13C_IS
Conc 5.0000
RT 5.345 Area 4056139
ISTD 614.80>569.95 1.83e6



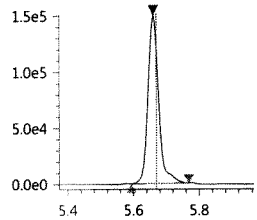
10_2-FtS_1
Conc 0.7917
RT 5.351 Area 58273
Q 627.00>606.95 3.00e4



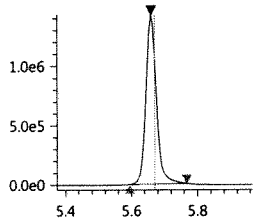
PFTrDA
Conc 0.9686
RT 5.511 Area 606082
Q 663.00>618.90 2.89e5



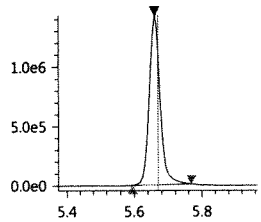
PFTeDA
Conc 0.9154
RT 5.660 Area 336356
Q 713.40>669.00 1.52e5



PFTeDA-13C
Conc 5.1022
RT 5.660 Area 3145245
Q 714.70>669.90 1.43e6

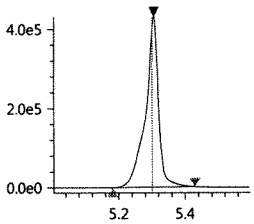


PFTeDA-13C_IS
Conc 5.0000
RT 5.660 Area 3145245
ISTD 714.70>669.90 1.43e6

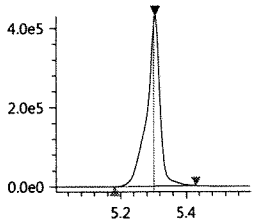


JUL 27 2017

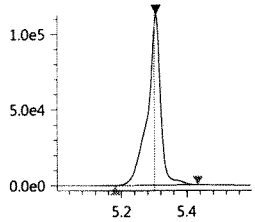
FOSA-13C_IS
Conc 5.0000
RT 5.305 Area 1189094
ISTD 506.00>78.05 4.32e5



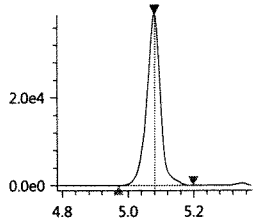
FOSA-13C
Conc 5.1407
RT 5.305 Area 1189094
Q 506.00>78.05 4.32e5



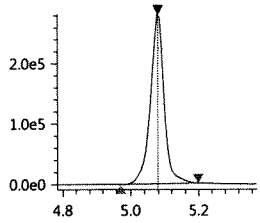
FOSA
Conc 0.8628
RT 5.305 Area 315105
Q 498.00>78.00 1.13e5



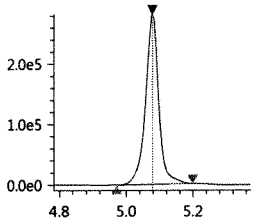
N-MeFOSAA
Conc 0.9027
RT 5.080 Area 114159
Q 570.20>419.00 3.90e4



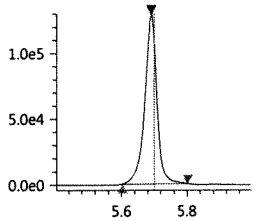
N-MeFOSAA-d3
Conc 5.2699
RT 5.079 Area 789437
Q 572.80>419.05 2.83e5



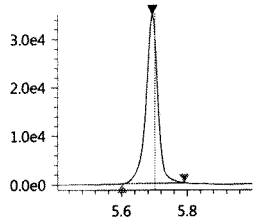
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.079 Area 789437
ISTD 572.80>419.05 2.83e5



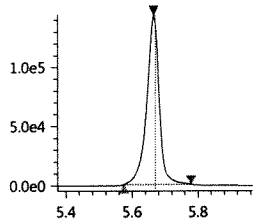
N-MeFOSA_IS
Conc 5.0000
RT 5.691 Area 335144
ISTD 514.90>168.90 1.30e5



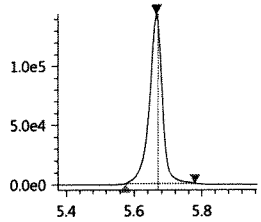
N-MeFOSA
Conc 0.9637
RT 5.694 Area 88115
Q 512.00>169.10 3.53e4



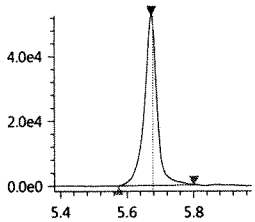
N-MeFOSE-d7
Conc 4.2831
RT 5.665 Area 376531
Q 622.70>59.10 1.45e5



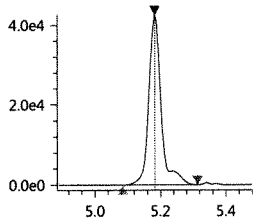
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.665 Area 376531
ISTD 622.70>59.10 1.45e5



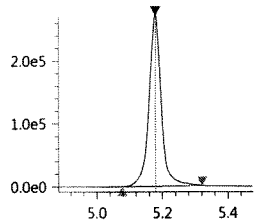
N-MeFOSE
Conc 1.0721
RT 5.674 Area 141850
Q 616.00>59.00 5.29e4



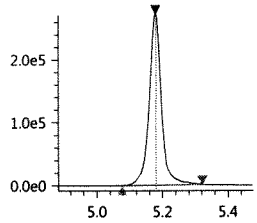
N-EtFOSAA
Conc 0.9292
RT 5.183 Area 112289
Q 584.20>418.95 4.28e4



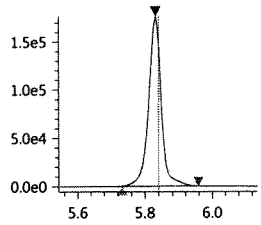
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.179 Area 716096
ISTD 588.80>419.00 2.72e5



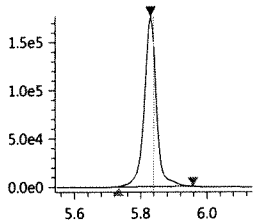
N-EtFOSAA-d5
Conc 5.2695
RT 5.179 Area 716096
Q 588.80>419.00 2.72e5



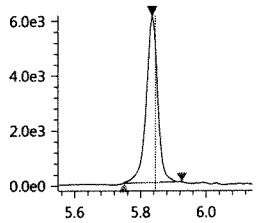
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.830 Area 455353
ISTD 530.90>169.15 1.77e5



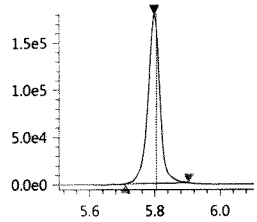
N-EtFOSA-d9
Conc 5.0272
RT 5.830 Area 455353
Q 530.90>169.15 1.77e5



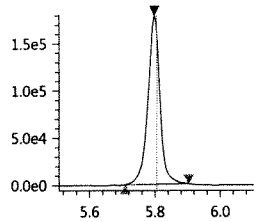
N-EtFOSA
Conc 0.8807
RT 5.836 Area 14829
Q 526.90>169.10 6.22e3



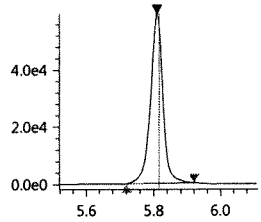
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.798 Area 463617
ISTD 638.70>59.10 1.81e5



N-EtFOSE-d9
Conc 4.3729
RT 5.798 Area 463617
Q 638.70>59.10 1.81e5



N-EtFOSE
Conc 1.0361
RT 5.810 Area 150745
Q 630.00>58.90 5.98e4



Insight Report

Befores JT

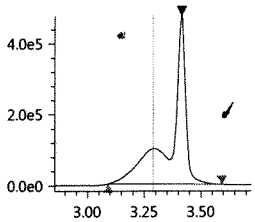
Printed at 7/27/2017 8:23:05 AM

Batch File: ----
Method File: J:\LCMS06\Data\072617_b2\072617_b2.lcm
Project File: J:\LCMS06\Data\072617_b2\072617_b2.damlp
Flags File: J:\LCMS06\Data\072617_b2\072617_b2.damlp

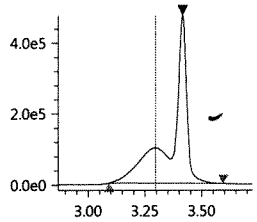
072617_117

Sample ID: 1 ppb
Date acquired: 7/26/2017 12:01:25 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b2\072617_117.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 1

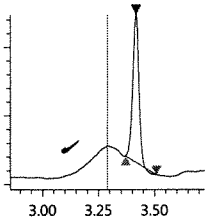
PFBA-13C_IS
Conc 5.0000
RT 3.416 Area 2177979
ISTD 216.90>172.15 4.79e5



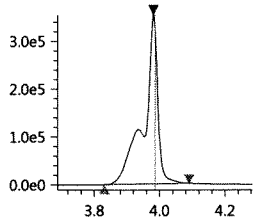
PFBA-13C
Conc 5.8034
RT 3.416 Area 2177979
Q 216.90>172.15 4.79e5



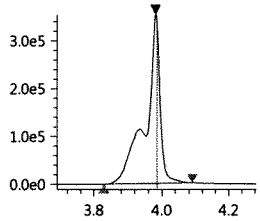
PFBA
Conc 0.3700
RT 3.417 Area 207407
Q 213.00>169.10 1.24e5



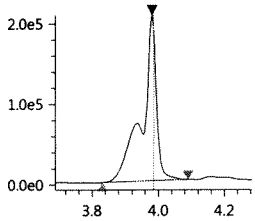
PFPeA-13C_IS
Conc 5.0000
RT 3.982 Area 1044093
ISTD 267.90>223.00 3.55e5



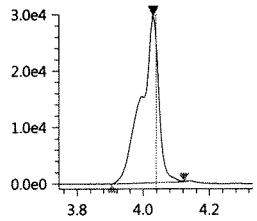
PFPeA-13C
Conc 5.6262
RT 3.982 Area 1044093
Q 267.90>223.00 3.55e5



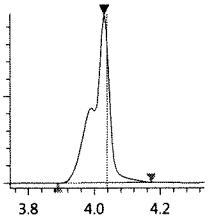
PFPeA
Conc 0.8448
RT 3.982 Area 622747
Q 263.05>219.10 2.11e5



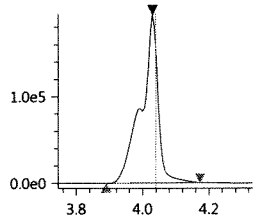
PFBS_1
Conc 0.9466
RT 4.030 Area 110180
Q 299.00>80.00 3.01e4



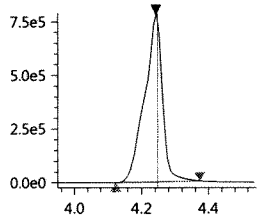
PFBS-13C
Conc 5.2464
RT 4.030 Area 686970
Q 301.80>80.00 1.95e5



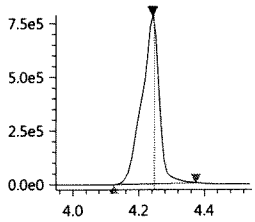
PFBS-13C_IS
Conc 5.0000
RT 4.030 Area 686970
ISTD 301.80>80.00 1.95e5



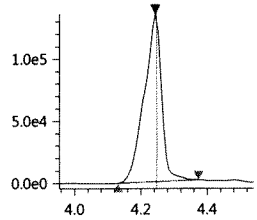
PFHxA-13C_IS
Conc 5.0000
RT 4.243 Area 2856881
ISTD 314.90>270.10 7.90e5



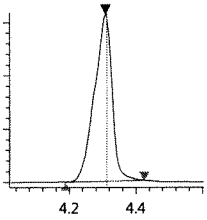
PFHxA-13C
Conc 5.4226
RT 4.243 Area 2856881
Q 314.90>270.10 7.90e5



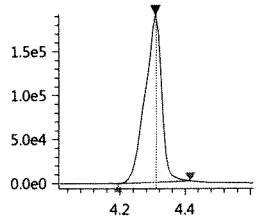
PFHxA
Conc 0.8545
RT 4.243 Area 489814
Q 313.00>269.00 1.36e5



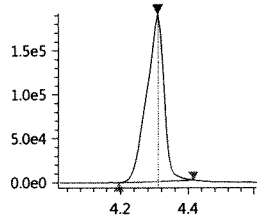
HPFO_DA
Conc 0.9027
RT 4.309 Area 115742
Q 329.00>169.00 3.18e4



HFPO_DA-13C_IS
Conc 5.0000
RT 4.309 Area 674037
ISTD 332.00>286.80 1.93e5

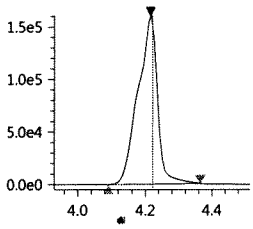


HFPO_DA-13C
Conc 5.1613
RT 4.309 Area 674037
Q 332.00>286.80 1.93e5

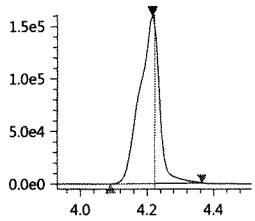


JUL 27 2017

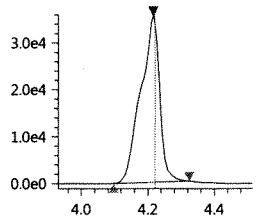
4_2-FTS-13C_IS
Conc 5.0000
RT 4.217 Area 655473
ISTD 328.80>309.05 1.61e5



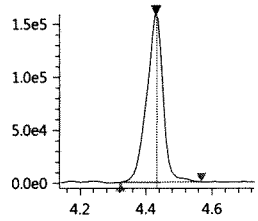
4_2-FTS-13C
Conc 7.7012
RT 4.217 Area 655473
Q 328.80>309.05 1.61e5



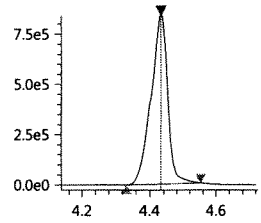
4_2-FTS_1
Conc 0.8484
RT 4.217 Area 141633
Q 327.00>307.05 3.61e4



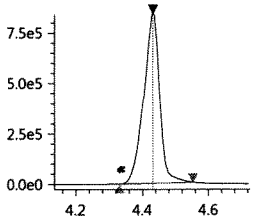
PFHpA
Conc 0.8725
RT 4.431 Area 546166
Q 362.90>319.00 1.60e5



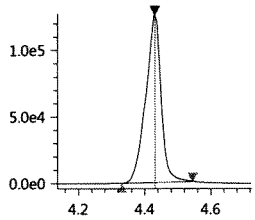
PFHpA-13C_IS
Conc 5.0000
RT 4.432 Area 2849065
ISTD 366.90>322.10 8.42e5



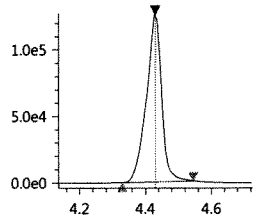
PFHpA-13C
Conc 5.3623
RT 4.432 Area 2849065
Q 366.90>322.10 8.42e5



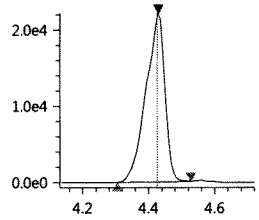
PFHxS-18O_IS
Conc 5.0000
RT 4.430 Area 408674
ISTD 402.70>84.05 1.28e5



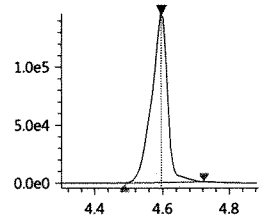
PFHxS-18O
Conc 5.2396
RT 4.430 Area 408674
Q 402.70>84.05 1.28e5



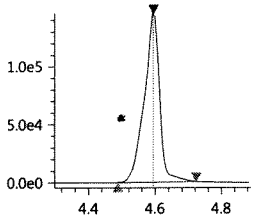
PFHxS_1
Conc 0.7699
RT 4.430 Area 87314
Q 399.00>80.00 2.22e4



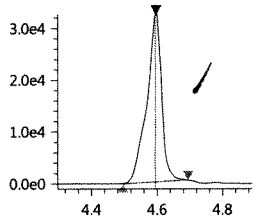
6_2-FTS-13C
Conc 9.2485
RT 4.595 Area 471765
Q 428.90>409.00 1.46e5



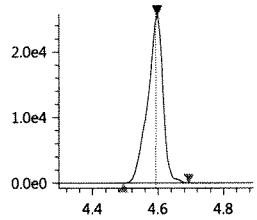
6_2-FTS-13C_IS
Conc 5.0000
RT 4.595 Area 471765
ISTD 428.90>409.00 1.46e5



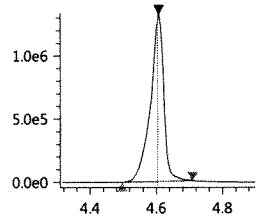
6_2-FTS_1
Conc 0.8166
RT 4.596 Area 101564
Q 427.00>407.00 3.27e4



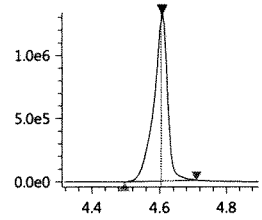
PFHpS_1
Conc 0.9301
RT 4.598 Area 82820
Q 449.00>80.15 2.58e4



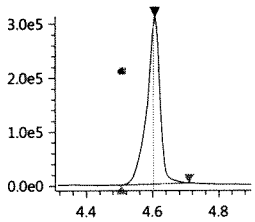
PFOA-13C_IS
Conc 5.0000
RT 4.607 Area 3698680
ISTD 416.80>372.05 1.34e6



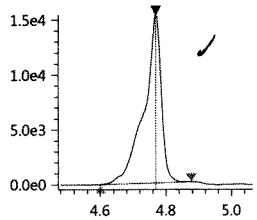
PFOA-13C
Conc 5.4215
RT 4.607 Area 3698680
Q 416.80>372.05 1.34e6



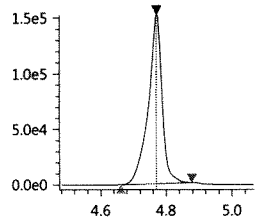
PFOA
Conc 0.9205
RT 4.607 Area 860583
Q 413.00>369.00 3.15e5



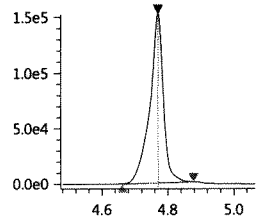
PFOS_1
Conc 0.7756
RT 4.769 Area 55757
Q 499.00>80.00 1.54e4



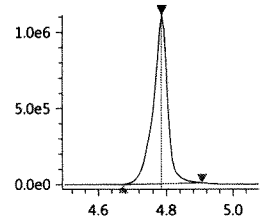
PFOS-13C_IS
Conc 5.0000
RT 4.770 Area 443242
ISTD 502.80>80.05 1.53e5



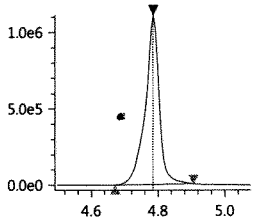
PFOS-13C
Conc 5.2057
RT 4.770 Area 443242
Q 502.80>80.05 1.53e5



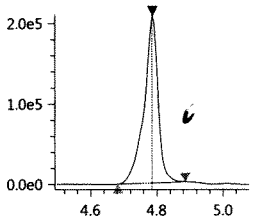
PFNA-13C_IS
Conc 5.0000
RT 4.786 Area 3232124
ISTD 467.80>423.00 1.11e6



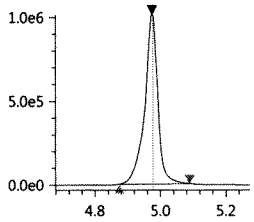
PFNA-13C
Conc 5.2786
RT 4.786 Area 3232124
Q 467.80>423.00 1.11e6



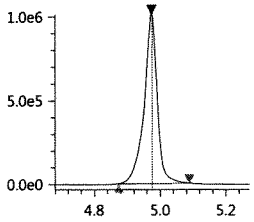
PFNA
Conc 0.8646
RT 4.787 Area 615723
Q 463.00>418.90 2.11e5



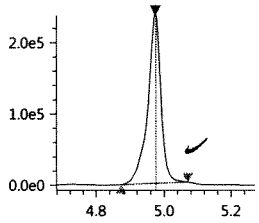
PFDA-13C_IS
Conc 5.0000
RT 4.974 Area 2832892
ISTD 514.80>469.95 1.01e6



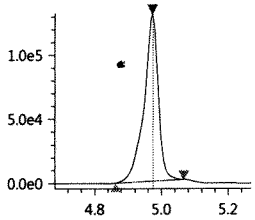
PFDA-13C
Conc 5.6033
RT 4.974 Area 2832892
Q 514.80>469.95 1.01e6



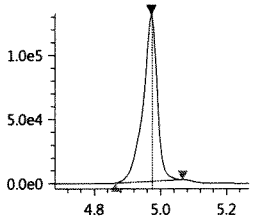
PFDA
Conc 0.8309
RT 4.974 Area 644637
Q 513.00>468.80 2.38e5



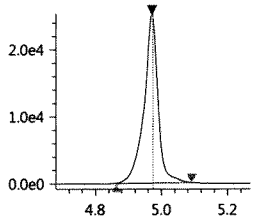
8_2-FTS-13C_IS
Conc 5.0000
RT 4.973 Area 389273
ISTD 528.80>509.00 1.33e5



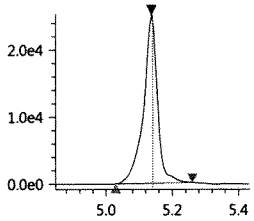
8_2-FTS-13C
Conc 8.4701
RT 4.973 Area 389273
Q 528.80>509.00 1.33e5



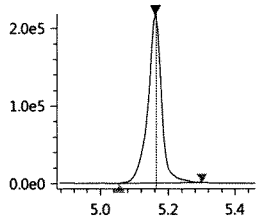
8_2-FTS_1
Conc 0.9953
RT 4.972 Area 74704
Q 526.90>506.90 2.54e4



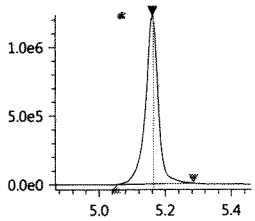
PFDS_1
Conc 0.8614
RT 5.138 Area 73080
Q 599.00>79.90 2.54e4



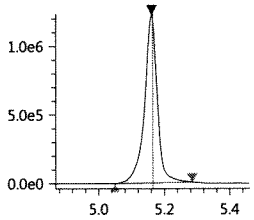
PFUnA
Conc 0.7943
RT 5.162 Area 605537
Q 563.00>518.90 2.19e5



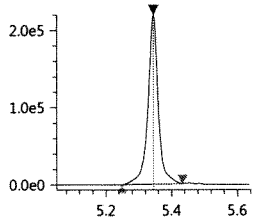
PFUnA-13C_IS
Conc 5.0000
RT 5.161 Area 3304138
ISTD 564.80>519.95 1.24e6



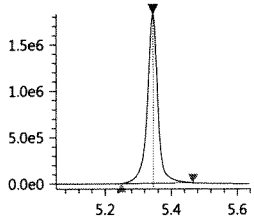
PFUnA-13C
Conc 5.4904
RT 5.161 Area 3304138
Q 564.80>519.95 1.24e6



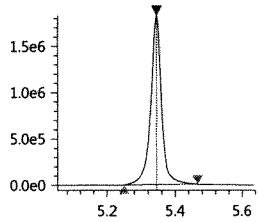
PFDoA
Conc 0.9075
RT 5.345 Area 480787
Q 613.05>569.00 2.20e5



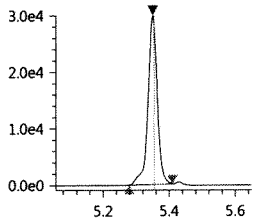
PFDoA-13C
Conc 5.3212
RT 5.345 Area 4056139
Q 614.80>569.95 1.83e6



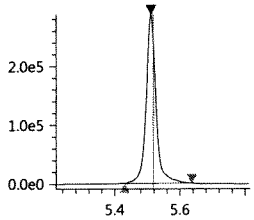
PFDoA-13C_IS
Conc 5.0000
RT 5.345 Area 4056139
ISTD 614.80>569.95 1.83e6



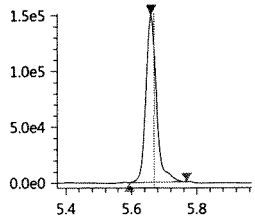
10_2-FtS_1
Conc 0.7917
RT 5.351 Area 58273
Q 627.00>606.95 3.00e4



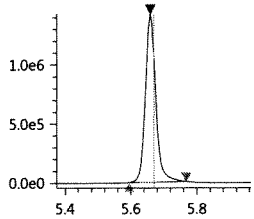
PFTrDA
Conc 0.9686
RT 5.511 Area 606082
Q 663.00>618.90 2.89e5



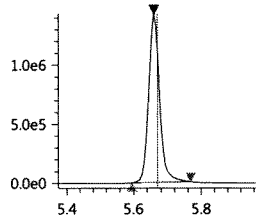
PFTeDA
Conc 0.9154
RT 5.660 Area 336356
Q 713.40>669.00 1.52e5



PFTeDA-13C
Conc 5.1022
RT 5.660 Area 3145245
Q 714.70>669.90 1.43e6



PFTeDA-13C_IS
Conc 5.0000
RT 5.660 Area 3145245
ISTD 714.70>669.90 1.43e6



Insight Report

Printed at 7/27/2017 8:55:49 AM

ST

072617_118

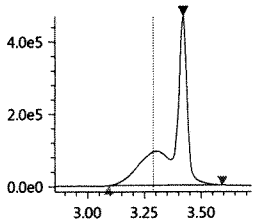
Sample ID: IB
Date acquired: 7/26/2017 12:11:52 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b2\072617_118.lcd
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 1

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.421	2138073	2138073	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.421	2138073	376131	1	5.0762	ng/mL	----	----	Auto
PFBA	3.422	15862	2138073	2	0.0288	ng/mL	----	----	M
PFPeA-13C_IS	3.984	1034225	1034225	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.984	1034225	376131	1	4.9657	ng/mL	----	----	Auto
PFPeA	3.983	85312	1034225	4	0.0461	ng/mL	----	----	Auto
PFBS_1	----	----	----	16	----	ng/mL	----	----	ND(W/B)
PFBS-13C	4.032	705114	376131	1	4.7982	ng/mL	----	----	Auto
PFBS-13C_IS	4.032	705114	705114	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.246	2986360	2986360	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.246	2986360	376131	1	5.0507	ng/mL	----	----	Auto
PFHxA	4.228	12085	2986360	6	-0.0168	ng/mL	----	----	Auto
HPFO_DA	----	----	----	3	----	ng/mL	----	----	ND(W/B)
HFPO_DA-13C_IS	4.311	717254	717254	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.311	717254	376131	1	4.8937	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.220	647831	647831	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.220	647831	376131	1	6.7820	ng/mL	----	----	Auto
4_2-FTS_1	4.191	266	647831	5	0.0016	ng/mL	----	----	Auto
PFHpA	----	----	----	8	----	ng/mL	----	----	NI
PFHpA-13C_IS	4.435	2797682	2797682	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.435	2797682	376131	1	4.6918	ng/mL	----	----	Auto
PFHxS-18O_IS	4.432	384674	384674	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.432	384674	376131	1	4.3944	ng/mL	----	----	Auto
PFHxS_1	4.430	986	384674	7	0.0092	ng/mL	----	----	Auto
6_2-FTS-13C	4.598	450893	376131	1	7.8761	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.598	450893	450893	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.591	459	450893	10	0.0039	ng/mL	----	----	Auto
PFHpS_1	----	----	----	7	----	ng/mL	----	----	ND(W/B)
PFOA-13C_IS	4.609	3663262	3663262	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.609	3663262	376131	1	4.7845	ng/mL	----	----	Auto
PFOA	4.600	21509	3663262	9	0.0232	ng/mL	----	----	Auto
PFOS_1	----	----	----	13	----	ng/mL	----	----	ND(W/B)
PFOS-13C_IS	4.772	436350	436350	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.772	436350	376131	1	4.5664	ng/mL	----	----	Auto
PFNA-13C_IS	4.788	3325806	3325806	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.788	3325806	376131	1	4.8397	ng/mL	----	----	Auto
PFNA	4.771	9173	3325806	11	0.0125	ng/mL	----	----	Auto
PFDA-13C_IS	4.975	2724021	2724021	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.975	2724021	376131	1	4.8008	ng/mL	----	----	Auto
PFDA	4.958	6515	2724021	12	0.0087	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.974	387642	387642	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.974	387642	376131	1	7.5155	ng/mL	----	----	Auto
8_2-FTS_1	----	----	----	15	----	ng/mL	----	----	ND(W/B)
PFDS_1	----	----	----	13	----	ng/mL	----	----	ND(W/B)
PFUnA	5.151	17896	3275199	14	0.0237	ng/mL	----	----	Auto
PFUnA-13C_IS	5.163	3275199	3275199	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.163	3275199	376131	1	4.8492	ng/mL	----	----	Auto
PFDoA	5.337	5338	3970031	17	0.0103	ng/mL	----	----	Auto
PFDoA-13C	5.347	3970031	376131	1	4.6407	ng/mL	----	----	Auto
PFDoA-13C_IS	5.347	3970031	3970031	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	----	----	----	15	----	ng/mL	----	----	ND(W/B)
PFTrDA	5.502	8323	3231286	22	0.0129	ng/mL	----	----	Auto
PFTeDA	5.662	35084	3231286	22	0.0120	ng/mL	----	----	Auto
PFTeDA-13C	5.663	3231286	376131	1	4.6706	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.663	3231286	3231286	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.306	1165875	1165875	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.306	1165875	376131	1	4.4911	ng/mL	----	----	Auto
FOSA	5.303	828	1165875	18	0.0023	ng/mL	----	----	Auto
N-MeFOSAA	5.071	1378	803152	19	0.0107	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.080	803152	376131	1	4.7772	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.080	803152	803152	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.693	376131	376131	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.693	668	377871	20	0.0073	ng/mL	----	----	Auto
N-MeFOSE-d7	5.666	377871	376131	1	3.8300	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.666	377871	377871	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	----	----	----	20	----	ng/mL	----	----	NI
N-EtFOSAA	----	----	----	21	----	ng/mL	----	----	ND(W/B)

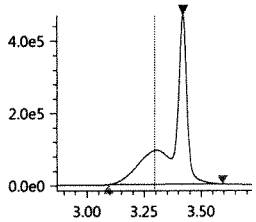
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.180	724136	724136	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.180	724136	376131	1	4.7480	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.833	459762	459762	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.833	459762	376131	1	4.5227	ng/mL	----	----	Auto
N-EtFOSA	----	----	----	23	----	ng/mL	----	----	NI
N-EtFOSE-d9_IS	5.800	452278	452278	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.800	452278	376131	1	3.8011	ng/mL	----	----	Auto
N-EtFOSE	----	----	----	24	----	ng/mL	----	----	NI

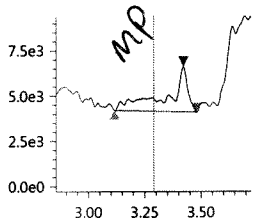
PFBA-13C_IS
Conc 5.0000
RT 3.421 Area 2138073
ISTD 216.90>172.15 4.71e5



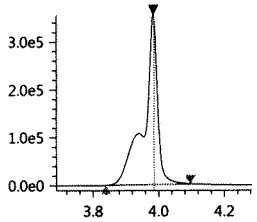
PFBA-13C
Conc 5.0762
RT 3.421 Area 2138073
Q 216.90>172.15 4.71e5



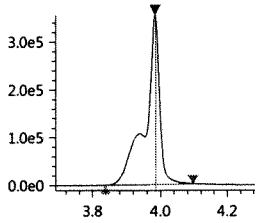
PFBA
Conc 0.0288
RT 3.422 Area 15862
Q 213.00>169.10 9.41e3



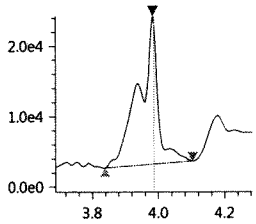
PFPeA-13C_IS
Conc 5.0000
RT 3.984 Area 1034225
ISTD 267.90>223.00 3.56e5



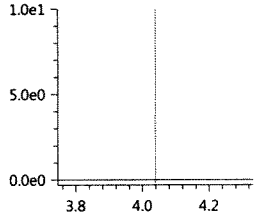
PFPeA-13C
Conc 4.9657
RT 3.984 Area 1034225
Q 267.90>223.00 3.56e5



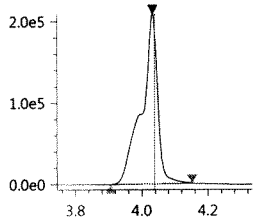
PFPeA
Conc 0.0461
RT 3.983 Area 85312
Q 263.05>219.10 2.43e4



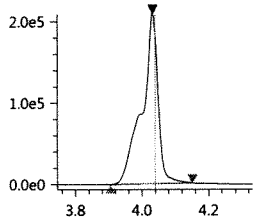
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 0.00e0



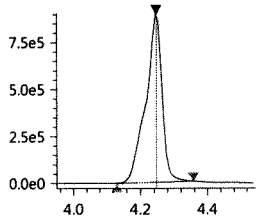
PFBS-13C
Conc 4.7982
RT 4.032 Area 705114
Q 301.80>80.00 2.10e5



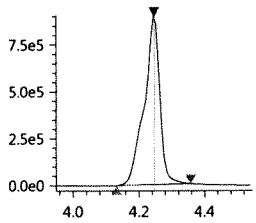
PFBS-13C_IS
Conc 5.0000
RT 4.032 Area 705114
ISTD 301.80>80.00 2.10e5



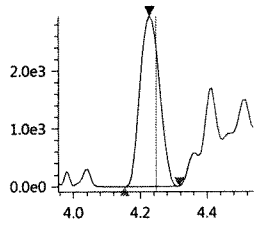
PFHxA-13C_IS
Conc 5.0000
RT 4.246 Area 2986360
ISTD 314.90>270.10 9.09e5



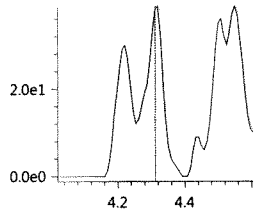
PFHxA-13C
Conc 5.0507
RT 4.246 Area 2986360
Q 314.90>270.10 9.09e5



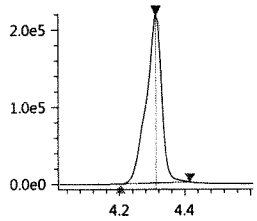
PFHxA
Conc -0.0168
RT 4.228 Area 12085
Q 313.00>269.00 2.95e3



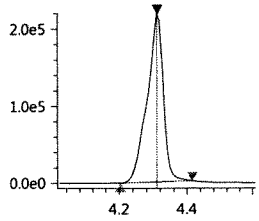
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 3.90e1



HFPO_DA-13C_IS
Conc 5.0000
RT 4.311 Area 717254
ISTD 332.00>286.80 2.21e5

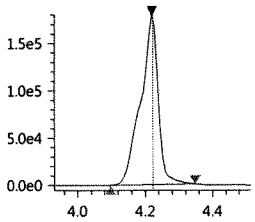


HFPO_DA-13C
Conc 4.8937
RT 4.311 Area 717254
Q 332.00>286.80 2.21e5

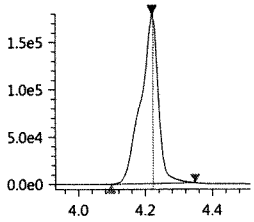


JUL 27 2017

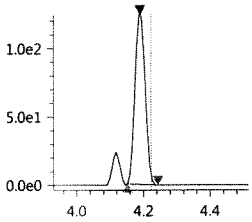
4_2-FTS-13C_IS
Conc 5.0000
RT 4.220 Area 647831
ISTD 328.80>309.05 1.80e5



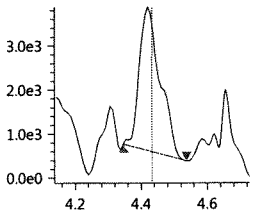
4_2-FTS-13C
Conc 6.7820
RT 4.220 Area 647831
Q 328.80>309.05 1.80e5



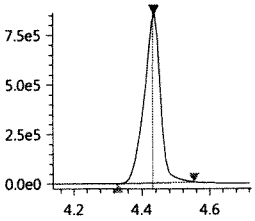
4_2-FTS_1
Conc 0.0016
RT 4.191 Area 266
Q 327.00>307.05 1.25e2



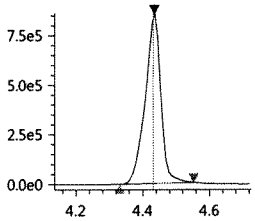
PFHpA
Conc ----
RT ---- Area ----
Q 362.90>319.00 3.88e3



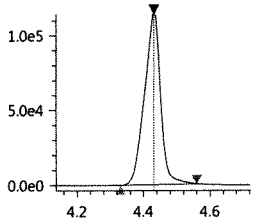
PFHpA-13C_IS
Conc 5.0000
RT 4.435 Area 2797682
ISTD 366.90>322.10 8.64e5



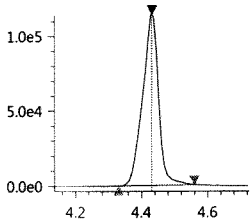
PFHpA-13C
Conc 4.6918
RT 4.435 Area 2797682
Q 366.90>322.10 8.64e5



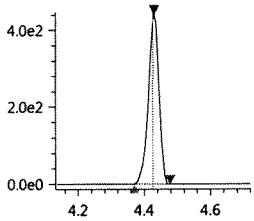
PFHxS-18O_IS
Conc 5.0000
RT 4.432 Area 384674
ISTD 402.70>84.05 1.15e5



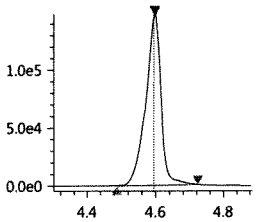
PFHxS-18O
Conc 4.3944
RT 4.432 Area 384674
Q 402.70>84.05 1.15e5



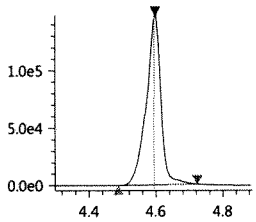
PFHxS_1
Conc 0.0092
RT 4.430 Area 986
Q 399.00>80.00 4.47e2



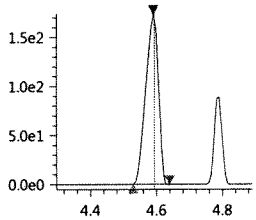
6_2-FTS-13C
Conc 7.8761
RT 4.598 Area 450893
Q 428.90>409.00 1.48e5



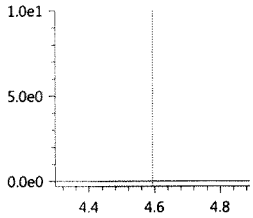
6_2-FTS-13C_IS
Conc 5.0000
RT 4.598 Area 450893
ISTD 428.90>409.00 1.48e5



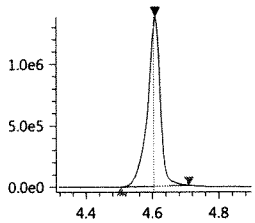
6_2-FTS_1
Conc 0.0039
RT 4.591 Area 459
Q 427.00>407.00 1.74e2



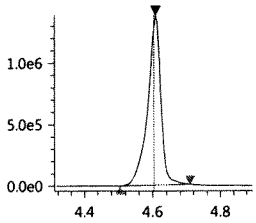
PFHpS_1
Conc ----
RT ---- Area ----
Q 449.00>80.15 0.00e0



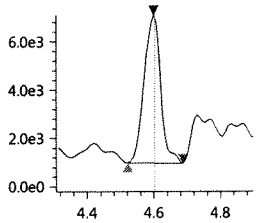
PFOA-13C_IS
Conc 5.0000
RT 4.609 Area 3663262
ISTD 416.80>372.05 1.39e6



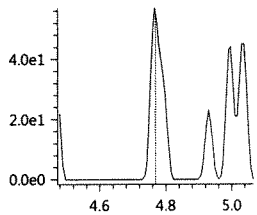
PFOA-13C
Conc 4.7845
RT 4.609 Area 3663262
Q 416.80>372.05 1.39e6



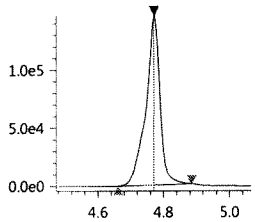
PFOA
Conc 0.0232
RT 4.600 Area 21509
Q 413.00>369.00 7.09e3



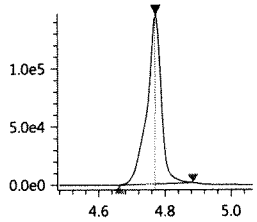
PFOS_1
Conc ----
RT ---- Area ----
Q 499.00>80.00 5.70e1



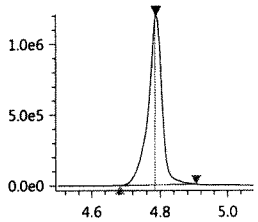
PFOS-13C_IS
Conc 5.0000
RT 4.772 Area 436350
ISTD 502.80>80.05 1.48e5



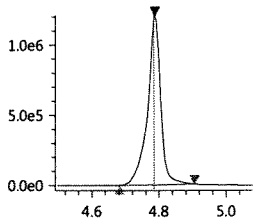
PFOS-13C
Conc 4.5664
RT 4.772 Area 436350
Q 502.80>80.05 1.48e5



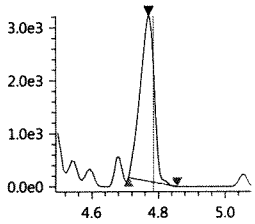
PFNA-13C_IS
Conc 5.0000
RT 4.788 Area 3325806
ISTD 467.80>423.00 1.21e6



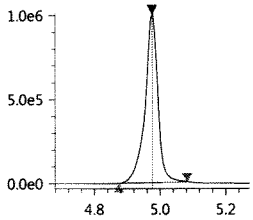
PFNA-13C
Conc 4.8397
RT 4.788 Area 3325806
Q 467.80>423.00 1.21e6



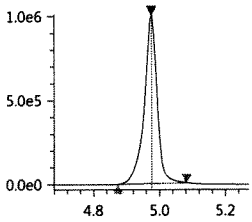
PFNA
Conc 0.0125
RT 4.771 Area 9173
Q 463.00>418.90 3.22e3



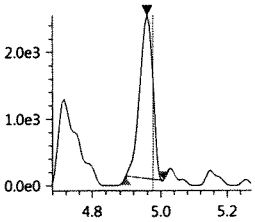
PFDA-13C_IS
Conc 5.0000
RT 4.975 Area 2724021
ISTD 514.80>469.95 1.01e6



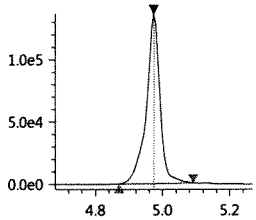
PFDA-13C
Conc 4.8008
RT 4.975 Area 2724021
Q 514.80>469.95 1.01e6



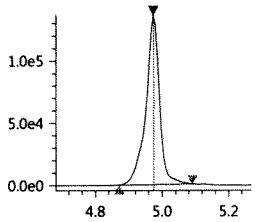
PFDA
Conc 0.0087
RT 4.958 Area 6515
Q 513.00>468.80 2.55e3



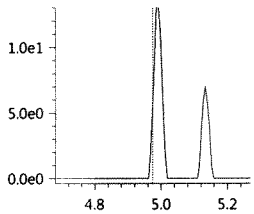
8_2-FTS-13C_IS
Conc 5.0000
RT 4.974 Area 387642
ISTD 528.80>509.00 1.37e5



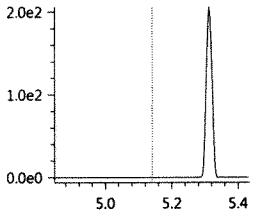
8_2-FTS-13C
Conc 7.5155
RT 4.974 Area 387642
Q 528.80>509.00 1.37e5



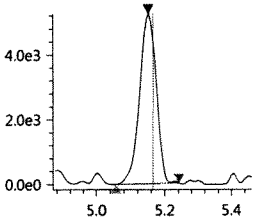
8_2-FTS_1
Conc ----
RT ---- Area ----
Q 526.90>506.90 1.30e1



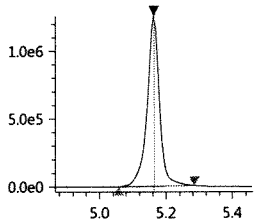
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 2.06e2



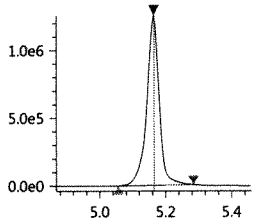
PFUnA
Conc 0.0237
RT 5.151 Area 17896
Q 563.00>518.90 5.26e3



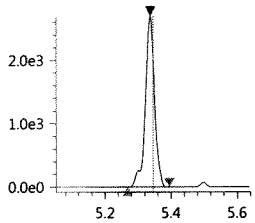
PFUnA-13C_IS
Conc 5.0000
RT 5.163 Area 3275199
ISTD 564.80>519.95 1.26e6



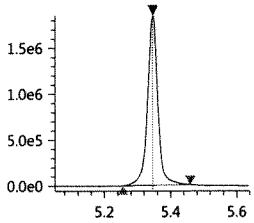
PFUnA-13C
Conc 4.8492
RT 5.163 Area 3275199
Q 564.80>519.95 1.26e6



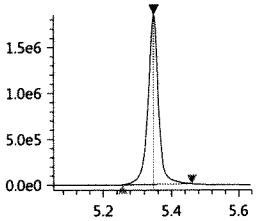
PFDoA
Conc 0.0103
RT 5.337 Area 5338
Q 613.05>569.00 2.69e3



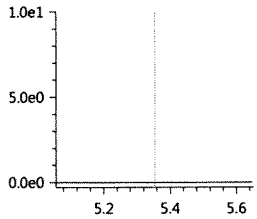
PFDoA-13C
Conc 4.6407
RT 5.347 Area 3970031
Q 614.80>569.95 1.86e6



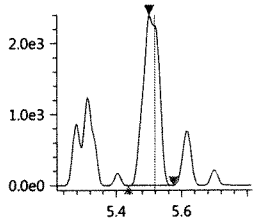
PFDoA-13C_IS
Conc 5.0000
RT 5.347 Area 3970031
ISTD 614.80>569.95 1.86e6



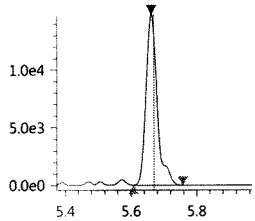
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



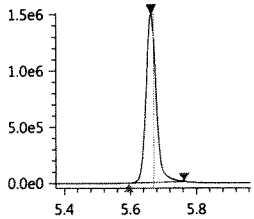
PFTrDA
Conc 0.0129
RT 5.502 Area 8323
Q 663.00>618.90 2.40e3



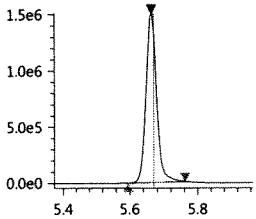
PFTeDA
Conc 0.0120
RT 5.662 Area 35084
Q 713.40>669.00 1.48e4



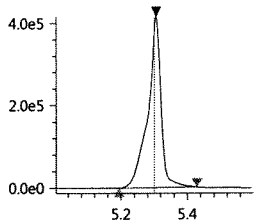
PFTeDA-13C
Conc 4.6706
RT 5.663 Area 3231286
Q 714.70>669.90 1.51e6



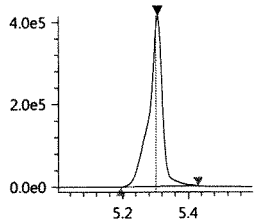
PFTeDA-13C_IS
Conc 5.0000
RT 5.663 Area 3231286
ISTD 714.70>669.90 1.51e6



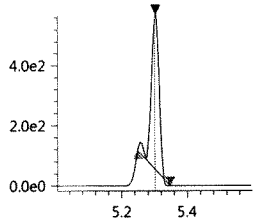
FOSA-13C_IS
Conc 5.0000
RT 5.306 Area 1165875
ISTD 506.00>78.05 4.16e5



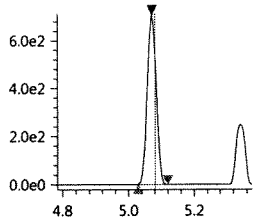
FOSA-13C
Conc 4.4911
RT 5.306 Area 1165875
Q 506.00>78.05 4.16e5



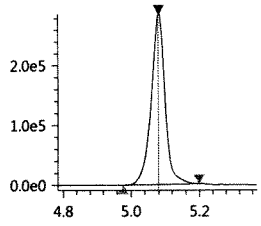
FOSA
Conc 0.0023
RT 5.303 Area 828
Q 498.00>78.00 5.71e2



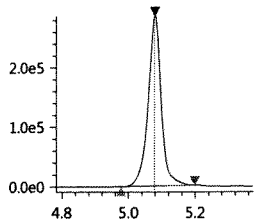
N-MeFOSAA
Conc 0.0107
RT 5.071 Area 1378
Q 570.20>419.00 7.15e2



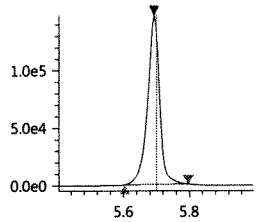
N-MeFOSAA-d3
Conc 4.7772
RT 5.080 Area 803152
Q 572.80>419.05 2.87e5



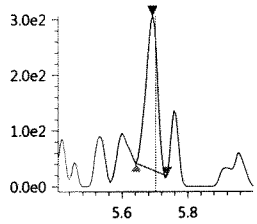
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.080 Area 803152
ISTD 572.80>419.05 2.87e5



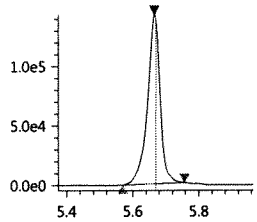
N-MeFOSA_IS
Conc 5.0000
RT 5.693 Area 376131
ISTD 514.90>168.90 1.49e5



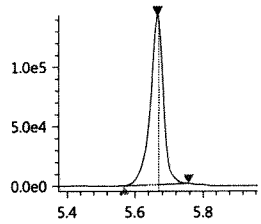
N-MeFOSA
Conc 0.0073
RT 5.693 Area 668
Q 512.00>169.10 3.07e2



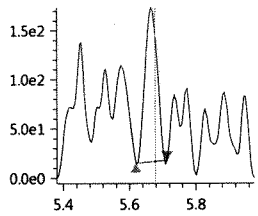
N-MeFOSE-d7
Conc 3.8300
RT 5.666 Area 377871
Q 622.70>59.10 1.44e5



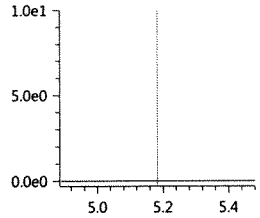
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.666 Area 377871
ISTD 622.70>59.10 1.44e5



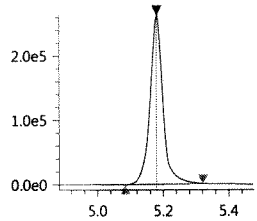
N-MeFOSE
Conc ----
RT ---- Area ----
Q 616.00>59.00 1.74e2



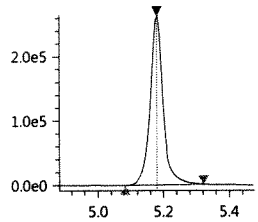
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 0.00e0



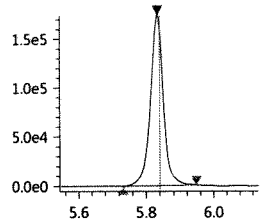
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.180 Area 724136
ISTD 588.80>419.00 2.66e5



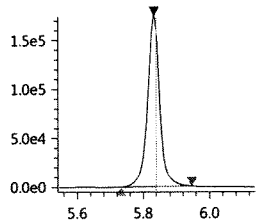
N-EtFOSAA-d5
Conc 4.7480
RT 5.180 Area 724136
Q 588.80>419.00 2.66e5



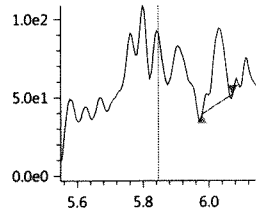
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.833 Area 459762
ISTD 530.90>169.15 1.74e5



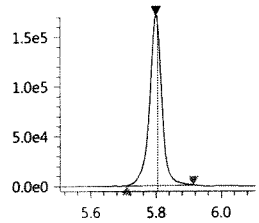
N-EtFOSA-d9
Conc 4.5227
RT 5.833 Area 459762
Q 530.90>169.15 1.74e5



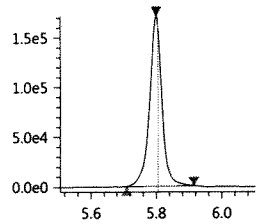
N-EtFOSA
Conc ----
RT ---- Area ----
Q 526.90>169.10 1.09e2



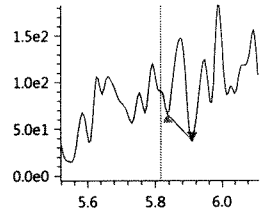
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.800 Area 452278
ISTD 638.70>59.10 1.71e5



N-EtFOSE-d9
Conc 3.8011
RT 5.800 Area 452278
Q 638.70>59.10 1.71e5



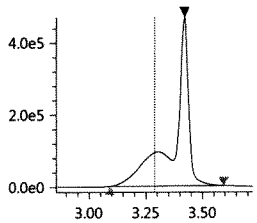
N-EtFOSE
Conc ----
RT ---- Area ----
Q 630.00>58.90 1.83e2



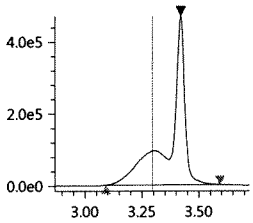
072617_118

Sample ID: IB
Date acquired: 7/26/2017 12:11:52 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b2\072617_118.lcd
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 1

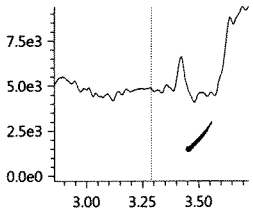
PFBA-13C_IS
Conc 5.0000
RT 3.421 Area 2138073
ISTD 216.90>172.15 4.71e5



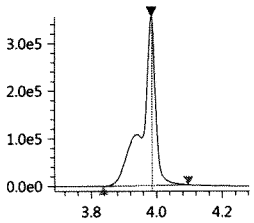
PFBA-13C
Conc 5.0762
RT 3.421 Area 2138073
Q 216.90>172.15 4.71e5



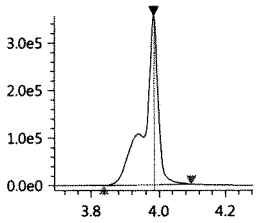
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 9.41e3



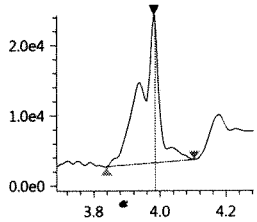
PFPeA-13C_IS
Conc 5.0000
RT 3.984 Area 1034225
ISTD 267.90>223.00 3.56e5



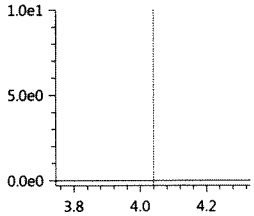
PFPeA-13C
Conc 4.9657
RT 3.984 Area 1034225
Q 267.90>223.00 3.56e5



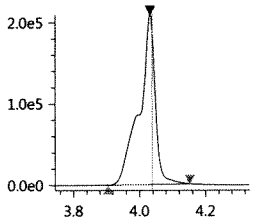
PFPeA
Conc 0.0461
RT 3.983 Area 85312
Q 263.05>219.10 2.43e4



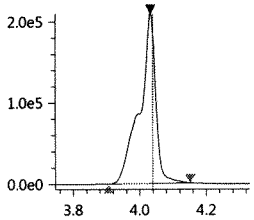
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 0.00e0



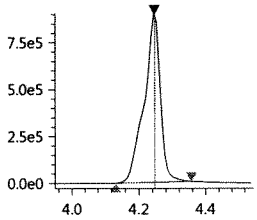
PFBS-13C
Conc 4.7982
RT 4.032 Area 705114
Q 301.80>80.00 2.10e5



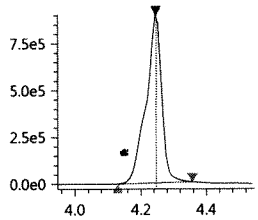
PFBS-13C_IS
Conc 5.0000
RT 4.032 Area 705114
ISTD 301.80>80.00 2.10e5



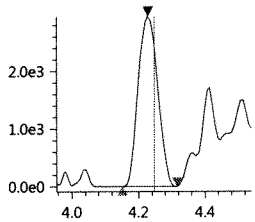
PFHxA-13C_IS
Conc 5.0000
RT 4.246 Area 2986360
ISTD 314.90>270.10 9.09e5



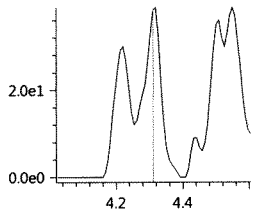
PFHxA-13C
Conc 5.0507
RT 4.246 Area 2986360
Q 314.90>270.10 9.09e5



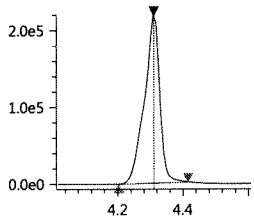
PFHxA
Conc -0.0168
RT 4.228 Area 12085
Q 313.00>269.00 2.95e3



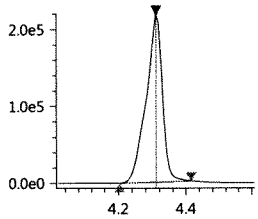
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 3.90e1



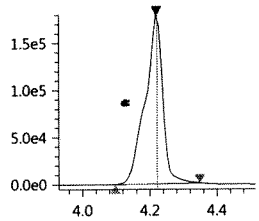
HFPO_DA-13C_IS
Conc 5.0000
RT 4.311 Area 717254
ISTD 332.00>286.80 2.21e5



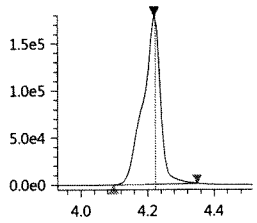
HFPO_DA-13C
Conc 4.8937
RT 4.311 Area 717254
Q 332.00>286.80 2.21e5



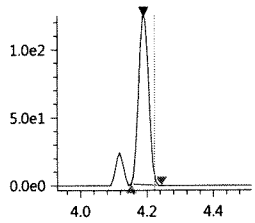
4_2-FTS-13C_IS
Conc 5.0000
RT 4.220 Area 647831
ISTD 328.80>309.05 1.80e5



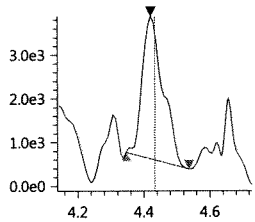
4_2-FTS-13C
Conc 6.7820
RT 4.220 Area 647831
Q 328.80>309.05 1.80e5



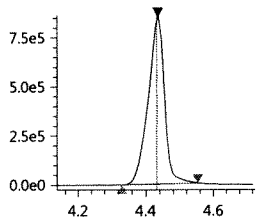
4_2-FTS_1
Conc 0.0016
RT 4.191 Area 266
Q 327.00>307.05 1.25e2



PFHpA
Conc 0.0230
RT 4.421 Area 14165
Q 362.90>319.00 3.88e3



PFHpA-13C_IS
Conc 5.0000
RT 4.435 Area 2797682
ISTD 366.90>322.10 8.64e5



JUL 27 2017

7/27/2017_b1

ALS Environmental

Injection Log

LCMS06 -Shimadzu 8050

ICAL Date:	7/27/2017	**1st Review:**	Justine Tennant
Cal. Std. xp:	11/26/2017	**2nd Review:**	JUL 28 2017
ICAL ID:	KC1700133	**Column:**	Phenomenx EVO-C18 100X4.6 mm S/N: H17-159040
LIMS ID:	555244	**Mobile Phases**	**A:** 5mM Ammonium Acetate in H2O 17-OLC-01-68B + 17-OLC-01-71C **B:** 5mM Ammonium Acetate In MeOH 17-OLC-01-68A + 17-OLC-01-71B

	Sample Name		File Name	Acquisition Method	Dilution	R	Comments
1	IB	IB	072717_106	PFAS_060917.lcm	1x	☑	
2	0.01 ppb	17-OLC-01-59B	072717_107	PFAS_060917.lcm	1x	☑	
3	0.02 ppb	17-OLC-01-59C	072717_108	PFAS_060917.lcm	1x	☑	
4	0.05ppb	17-OLC-01-59D	072717_109	PFAS_060917.lcm	1x	☑	
5	0.1ppb	17-OLC-01-59E	072717_110	PFAS_060917.lcm	1x	☑	
6	0.25ppb	17-OLC-01-59F	072717_111	PFAS_060917.lcm	1x	☑	
7	0.50ppb	17-OLC-01-59G	072717_112	PFAS_060917.lcm	1x	☑	
8	1 ppb	17-OLC-01-59H	072717_113	PFAS_060917.lcm	1x	☑	
9	5 ppb	17-OLC-01-59I	072717_114	PFAS_060917.lcm	1x	☑	
10	10 ppb	17-OLC-01-59J	072717_115	PFAS_060917.lcm	1x	☑	
11	20 ppb	17-OLC-01-59K	072717_116	PFAS_060917.lcm	1x	☑	
12	IB	IB	072717_117	PFAS_060917.lcm	1x	☑	
13	1 ppb ICV	17-OLC-01-59N	072717_118	PFAS_060917.lcm	1x	☑	
14	IB	IB	072717_119	PFAS_060917.lcm	1x	☑	
15	1ppb T-PFOA		072717_120	PFAS_060917.lcm	1x	☑	High IS for DOD-needed for integration of PFOA isomers only, not for quant.
16	KQ1710166-01	LCS	072717_121	PFAS_060917.lcm	1x	☑	*Report only PFHxS, PFHpS, PFOS, 6:2, PFDS and associated analytes only.
17	KQ1710166-02	DLCS	072717_122	PFAS_060917.lcm	1x	☑	*Report only PFDS, PFOS and associated analytes.
18	K1707681-007 50X		072717_123	PFAS_060917.lcm	50x	☑	Q-edited for PFHxS/PFHxS surr only. Report only these analytes.
19	K1707681-007		072717_124	PFAS_060917.lcm	1x	☑	Q-edited for 6:2/6:2 surr, 8:2/8:2 surr only. Report only these analytes.

*RR LCS/DLCS off of new curve made with matching standards. Some analytes are still low.

Validation Report

Data File: J:\LCMS06\Data\072717_b1\072717_118
Lab ID: KQ1710339-01
RunType: CCV
Matrix: Water

Date Acquired: 7/27/17 12:45
Batch ID: 555244
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Above Highest ICAL Level	X	

Primary Review: JT 7/28/17

Secondary Review: JUL 28 2017

Printed: 7/27/17 15:35
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072717_b1\072717_118	**Instrument:**	K-LCMS-06
Acqu Date:	7/27/17 12:45	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1710339-01	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	7/20/17	**Receive Date:**	7/21/17

Analysis Lot:	555244	**Prep Lot:**		**Report Group:**	KQ1710339
Analysis Method:	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700133
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.692	349439	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
13C4-PFBA	3.416	2295148	4.8487	Y
13C2-PFHxA	4.241	2930669	4.6528	Y
18O2-PFHxS	4.429	417157	4.8960	Y
13C2-6:2 FTS	4.594	475608	5.2204	Y
13C4-PFOA	4.605	3731618	5.0960	Y
13C5-PFNA	4.784	3280544	4.8881	Y
13C4-PFOS	4.769	462563	4.9648	Y
13C2-PFDA	4.973	2865873	4.9757	Y
13C2-PFUnDA	5.162	3203448	4.9496	Y
13C2-PFDoDA	5.346	4057393	5.0237	Y
D7-MeFOSE	5.664	353501	5.0987	Y
D9-EtFOSE	5.800	428873	5.2518	Y
D5-EtFOSA	5.832	490539	5.1104	Y
13C2-8:2 FTS	4.972	383321	4.5616	Y
13C2-PFTeDA	5.662	3185894	4.9843	Y
13C4-PFHpA	4.430	3176072	4.9721	Y
13C5-PFPeA	3.980	1117292	4.8592	Y
13C3-PFBS	4.028	700301	4.8348	Y
13C8-FOSA	5.304	1201430	4.9427	Y

Target Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
Perfluorobutanoic acid (PFBA)	3.417	466315	0.8038	Y
Perfluoropentanoic acid (PFPeA)	3.980	595457	0.7967	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 15:35
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072717_b1\072717_118	**Instrument:**	K-LCMS-06
Acqu Date:	7/27/17 12:45	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1710339-01	**Raw Units:**	ng/mL

Target Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.029	93704	0.7038	Y
Perfluorohexanoic acid (PFHxA)	4.241	463051	0.7730	Y
Perfluoroheptanoic acid (PFHpA)	4.431	539019	0.7779	Y
Perfluorohexane sulfonic acid (PFHxS)	4.427	101833	0.8166	Y
Perfluorooctanoic acid (PFOA)	4.605	786290	0.7875	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.595	82566	1.0223	Y
Perfluorononanoic acid (PFNA)	4.783	583752	0.8493	Y
Perfluorooctane sulfonic acid (PFOS)	4.768	63375	0.8603	Y
Perfluorodecanoic acid (PFDA)	4.973	621910	0.8010	Y
Perfluoroundecanoic acid (PFUnDA)	5.162	573208	0.7855	Y
Perfluorooctane sulfonamide (FOSA)	5.304	356546	1.0154	Y
Perfluorododecanoic acid (PFDoDA)	5.346	429288	0.7830	Y
Perfluorotridecanoic acid (PFTrDA)	5.512	531795	0.7631	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.695	103941	0.8996	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.673	129498	0.8671	Y
Perfluorotetradecanoic acid (PFTeDA)	5.662	285667	0.8127	Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.811	148045	0.8519	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.837	17488	0.9381	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.971	69408	0.8741	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.593	101104	0.8413	Y
Perfluorodecane sulfonic acid (PFDS)	5.136	76806	0.9047	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 15:35

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072717_118

Sample ID: 1 ppb ICV
Date acquired: 7/27/2017 12:45:31 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072717_b1\072717_118.lcd
Vial: 21 | Inj. Volume: 15.0000uL | Tray: 1

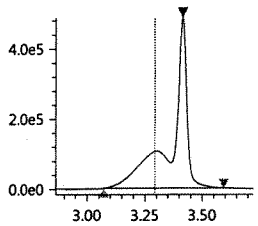
Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.416	2295148	2295148	2	5.0000	ng/mL	5	100.00	Auto
PFBA-13C	3.416	2295148	349439	1	4.8487	ng/mL	5	96.97	Auto
PFBA	3.417	466315	2295148	2	0.8038	ng/mL	1	80.38	M
PFPeA-13C_IS	3.980	1117292	1117292	4	5.0000	ng/mL	5	100.00	Auto
PFPeA-13C	3.980	1117292	349439	1	4.8592	ng/mL	5	97.18	Auto
PFPeA	3.980	595457	1117292	4	0.7967	ng/mL	1	79.67	Auto
PFBS_1	4.029	93704	700301	16	0.7038	ng/mL	0.88737	79.31	Auto
PFBS-13C	4.028	700301	349439	1	4.8348	ng/mL	5	96.70	Auto
PFBS-13C_IS	4.028	700301	700301	16	5.0000	ng/mL	5	100.00	Auto
PFHxA-13C_IS	4.241	2930669	2930669	6	5.0000	ng/mL	5	100.00	Auto
PFHxA-13C	4.241	2930669	349439	1	4.6528	ng/mL	5	93.06	Auto
PFHxA	4.241	463051	2930669	6	0.7730	ng/mL	1	77.30	Auto
HPFO_DA	4.305	115313	651122	3	0.8787	ng/mL	1	87.87	Auto
HFPO_DA-13C_IS	4.306	651122	651122	3	5.0000	ng/mL	5	100.00	Auto
HFPO_DA-13C	4.306	651122	349439	1	4.6506	ng/mL	5	93.01	Auto
4_2-FTS-13C_IS	4.215	715725	715725	5	5.0000	ng/mL	5	100.00	Auto
4_2-FTS-13C	4.215	715725	349439	1	4.8966	ng/mL	5	97.93	Auto
4_2-FTS_1	4.215	156167	715725	5	0.8429	ng/mL	0.937218	89.94	M
PFHpA	4.431	539019	3176072	8	0.7779	ng/mL	1	77.79	Auto
PFHpA-13C_IS	4.430	3176072	3176072	8	5.0000	ng/mL	5	100.00	Auto
PFHpA-13C	4.430	3176072	349439	1	4.9721	ng/mL	5	99.44	Auto
PFHxS-18O_IS	4.429	417157	417157	7	5.0000	ng/mL	5	100.00	Auto
PFHxS-18O	4.429	417157	349439	1	4.8960	ng/mL	5	97.92	Auto
PFHxS_1	4.427	101833	417157	7	0.8166	ng/mL	0.913075	89.43	M
6_2-FTS-13C	4.594	475608	349439	1	5.2204	ng/mL	5	104.41	Auto
6_2-FTS-13C_IS	4.594	475608	475608	10	5.0000	ng/mL	5	100.00	Auto
6_2-FTS_1	4.593	101104	475608	10	0.8413	ng/mL	0.951168	88.45	Auto
PFHpS_1	4.595	82566	417157	7	1.0223	ng/mL	0.953438	107.23	Auto
PFOA-13C_IS	4.605	3731618	3731618	9	5.0000	ng/mL	5	100.00	Auto
PFOA-13C	4.605	3731618	349439	1	5.0960	ng/mL	5	101.92	Auto
PFOA	4.605	786290	3731618	9	0.7875	ng/mL	1	78.75	Auto
PFOS_1	4.768	63375	462563	13	0.8603	ng/mL	0.929229	92.59	Auto
PFOS-13C_IS	4.769	462563	462563	13	5.0000	ng/mL	5	100.00	Auto
PFOS-13C	4.769	462563	349439	1	4.9648	ng/mL	5	99.30	Auto
PFNA-13C_IS	4.784	3280544	3280544	11	5.0000	ng/mL	5	100.00	Auto
PFNA-13C	4.784	3280544	349439	1	4.8881	ng/mL	5	97.76	Auto
PFNA	4.783	583752	3280544	11	0.8493	ng/mL	1	84.93	Auto
PFDA-13C_IS	4.973	2865873	2865873	12	5.0000	ng/mL	5	100.00	Auto
PFDA-13C	4.973	2865873	349439	1	4.9757	ng/mL	5	99.51	Auto
PFDA	4.973	621910	2865873	12	0.8010	ng/mL	1	80.10	Auto
8_2-FTS-13C_IS	4.972	383321	383321	15	5.0000	ng/mL	5	100.00	Auto
8_2-FTS-13C	4.972	383321	349439	1	4.5616	ng/mL	5	91.23	Auto
8_2-FTS_1	4.971	69408	383321	15	0.8741	ng/mL	0.960045	91.05	Auto
PFDS_1	5.136	76806	462563	13	0.9047	ng/mL	0.964667	93.79	Auto
PFUnA	5.162	573208	3203448	14	0.7855	ng/mL	1	78.55	Auto
PFUnA-13C_IS	5.162	3203448	3203448	14	5.0000	ng/mL	5	100.00	Auto
PFUnA-13C	5.162	3203448	349439	1	4.9496	ng/mL	5	98.99	Auto
PFDoA	5.346	429288	4057393	17	0.7830	ng/mL	1	78.30	Auto
PFDoA-13C	5.346	4057393	349439	1	5.0237	ng/mL	5	100.47	Auto
PFDoA-13C_IS	5.346	4057393	4057393	17	5.0000	ng/mL	5	100.00	Auto
10_2-FtS_1	5.353	60998	383321	15	1.0621	ng/mL	0.966191	109.92	Auto
PFTrDA	5.512	531795	3185894	22	0.7631	ng/mL	1	76.31	Auto
PFTeDA	5.662	285667	3185894	22	0.8127	ng/mL	1	81.27	Auto
PFTeDA-13C	5.662	3185894	349439	1	4.9843	ng/mL	5	99.69	Auto
PFTeDA-13C_IS	5.662	3185894	3185894	22	5.0000	ng/mL	5	100.00	Auto
FOSA-13C_IS	5.304	1201430	1201430	18	5.0000	ng/mL	5	100.00	Auto
FOSA-13C	5.304	1201430	349439	1	4.9427	ng/mL	5	98.85	Auto
FOSA	5.304	356546	1201430	18	1.0154	ng/mL	1	101.54	Auto
N-MeFOSAA	5.080	123130	890151	19	0.8809	ng/mL	1	88.09	Auto
N-MeFOSAA-d3	5.078	890151	349439	1	5.2230	ng/mL	5	104.46	Auto
N-MeFOSAA-d3_IS	5.078	890151	890151	19	5.0000	ng/mL	5	100.00	Auto
N-MeFOSA_IS	5.692	349439	349439	1	5.0000	ng/mL	5	100.00	Auto
N-MeFOSA	5.695	103941	353501	20	0.8996	ng/mL	1	89.96	Auto
N-MeFOSE-d7	5.664	353501	349439	1	5.0987	ng/mL	5	101.97	Auto
N-MeFOSE-d7_IS	5.664	353501	353501	20	5.0000	ng/mL	5	100.00	Auto
N-MeFOSE	5.673	129498	353501	20	0.8671	ng/mL	1	86.71	Auto
N-EtFOSAA	5.181	106634	743604	21	0.8096	ng/mL	1	80.96	Auto

SF 7/28/17

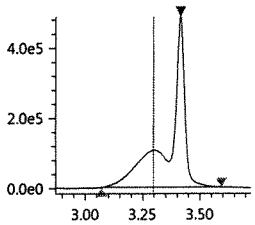
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.178	743604	743604	21	5.0000	ng/mL	5	100.00	Auto
N-EtFOSAA-d5	5.178	743604	349439	1	4.9894	ng/mL	5	99.79	Auto
N-EtFOSA-d9_IS	5.832	490539	490539	23	5.0000	ng/mL	5	100.00	Auto
N-EtFOSA-d9	5.832	490539	349439	1	5.1104	ng/mL	5	102.21	Auto
N-EtFOSA	5.837	17488	490539	23	0.9381	ng/mL	1	93.81	Auto
N-EtFOSE-d9_IS	5.800	428873	428873	24	5.0000	ng/mL	5	100.00	Auto
N-EtFOSE-d9	5.800	428873	349439	1	5.2518	ng/mL	5	105.04	Auto
N-EtFOSE	5.811	148045	428873	24	0.8519	ng/mL	1	85.19	Auto

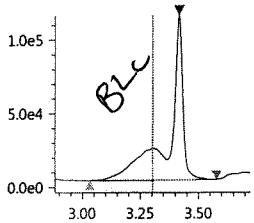
PFBA-13C_IS
Conc 5.0000
RT 3.416 Area 2295148
ISTD 216.90>172.15 4.90e5



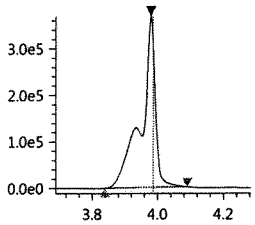
PFBA-13C
Conc 4.8487
RT 3.416 Area 2295148
Q 216.90>172.15 4.90e5



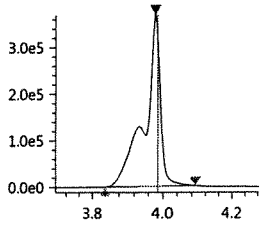
PFBA
Conc 0.8038
RT 3.417 Area 466315
Q 213.00>169.10 1.17e5



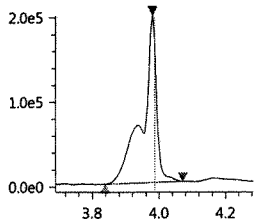
PFPeA-13C_IS
Conc 5.0000
RT 3.980 Area 1117292
ISTD 267.90>223.00 3.70e5



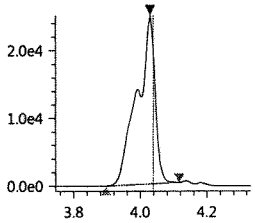
PFPeA-13C
Conc 4.8592
RT 3.980 Area 1117292
Q 267.90>223.00 3.70e5



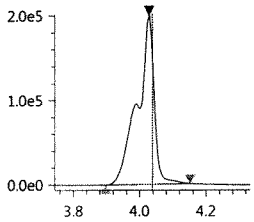
PFPeA
Conc 0.7967
RT 3.980 Area 595457
Q 263.05>219.10 2.02e5



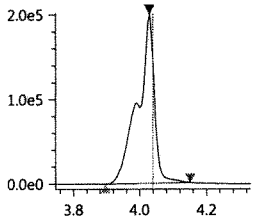
PFBS_1
Conc 0.7038
RT 4.029 Area 93704
Q 299.00>80.00 2.52e4



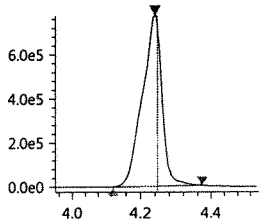
PFBS-13C
Conc 4.8348
RT 4.028 Area 700301
Q 301.80>80.00 2.02e5



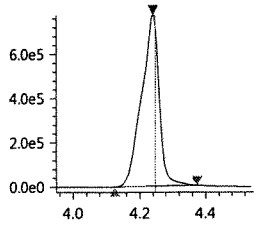
PFBS-13C_IS
Conc 5.0000
RT 4.028 Area 700301
ISTD 301.80>80.00 2.02e5



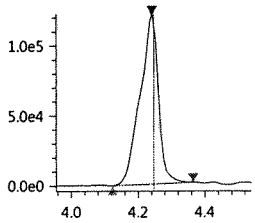
PFHxA-13C_IS
Conc 5.0000
RT 4.241 Area 2930669
ISTD 314.90>270.10 7.76e5



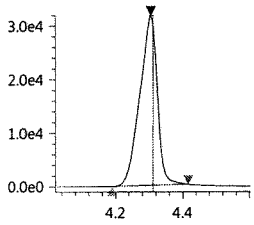
PFHxA-13C
Conc 4.6528
RT 4.241 Area 2930669
Q 314.90>270.10 7.76e5



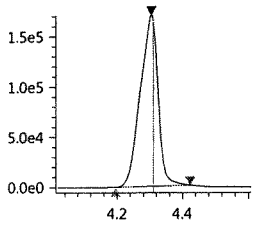
PFHxA
Conc 0.7730
RT 4.241 Area 463051
Q 313.00>269.00 1.23e5



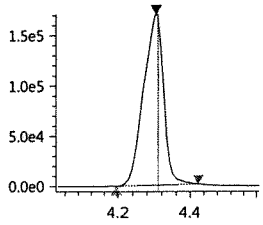
HPFO_DA
Conc 0.8787
RT 4.305 Area 115313
Q 329.00>169.00 3.21e4



HFPO_DA-13C_IS
Conc 5.0000
RT 4.306 Area 651122
ISTD 332.00>286.80 1.71e5



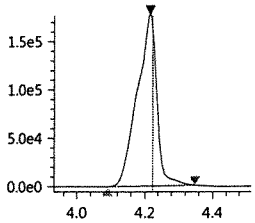
HFPO_DA-13C
Conc 4.6506
RT 4.306 Area 651122
Q 332.00>286.80 1.71e5



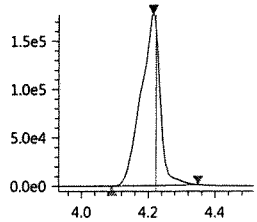
JUL 28 2017

JT 7/28/17

4_2-FTS-13C_IS
Conc 5.0000
RT 4.215 Area 715725
ISTD 328.80>309.05 1.77e5

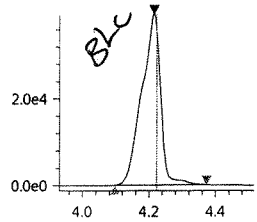


4_2-FTS-13C
Conc 4.8966
RT 4.215 Area 715725
Q 328.80>309.05 1.77e5

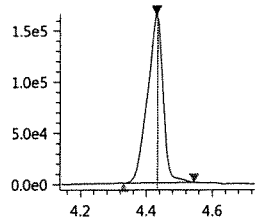


4_2-FTS_1
Conc 0.8429
RT 4.215 Area 156167
Q 327.00>307.05 3.96e4

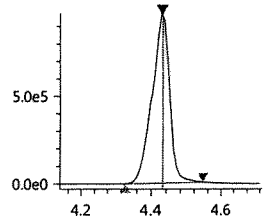
BLC



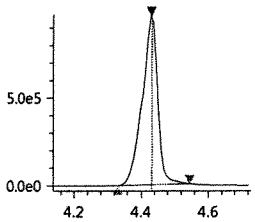
PFHpA
Conc 0.7779
RT 4.431 Area 539019
Q 362.90>319.00 1.67e5



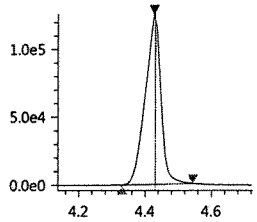
PFHpA-13C_IS
Conc 5.0000
RT 4.430 Area 3176072
ISTD 366.90>322.10 9.77e5



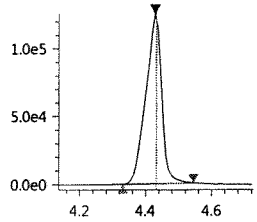
PFHpA-13C
Conc 4.9721
RT 4.430 Area 3176072
Q 366.90>322.10 9.77e5



PFHxS-18O_IS
Conc 5.0000
RT 4.429 Area 417157
ISTD 402.70>84.05 1.26e5

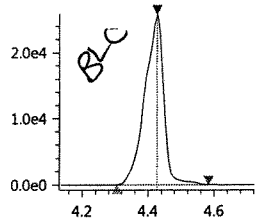


PFHxS-18O
Conc 4.8960
RT 4.429 Area 417157
Q 402.70>84.05 1.26e5

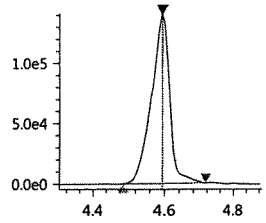


PFHxS_1
Conc 0.8166
RT 4.427 Area 101833
Q 399.00>80.00 2.59e4

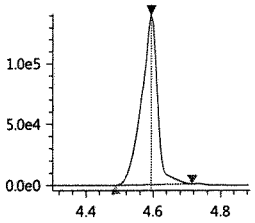
BLC



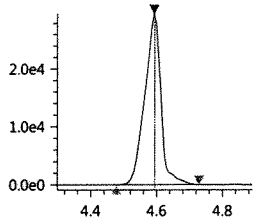
6_2-FTS-13C
Conc 5.2204
RT 4.594 Area 475608
Q 428.90>409.00 1.42e5



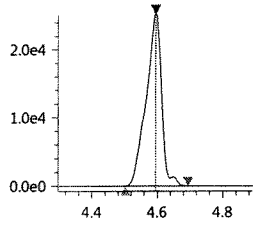
6_2-FTS-13C_IS
Conc 5.0000
RT 4.594 Area 475608
ISTD 428.90>409.00 1.42e5



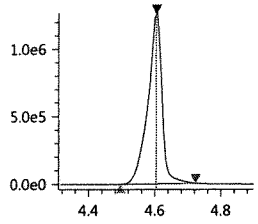
6_2-FTS_1
Conc 0.8413
RT 4.593 Area 101104
Q 427.00>407.00 2.97e4



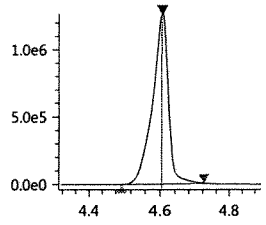
PFHpS_1
Conc 1.0223
RT 4.595 Area 82566
Q 449.00>80.15 2.52e4



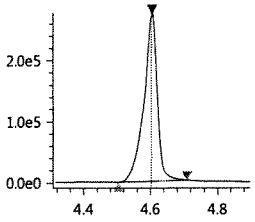
PFOA-13C_IS
Conc 5.0000
RT 4.605 Area 3731618
ISTD 416.80>372.05 1.27e6



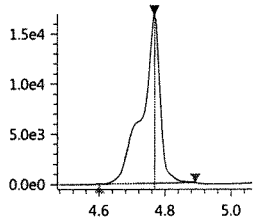
PFOA-13C
Conc 5.0960
RT 4.605 Area 3731618
Q 416.80>372.05 1.27e6



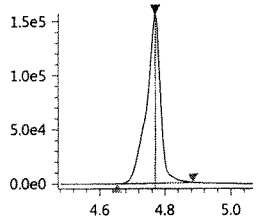
PFOA
Conc 0.7875
RT 4.605 Area 786290
Q 413.00>369.00 2.79e5



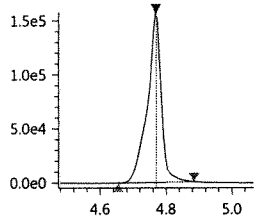
PFOS_1
Conc 0.8603
RT 4.768 Area 63375
Q 499.00>80.00 1.70e4



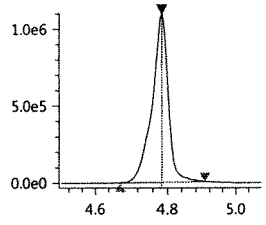
PFOS-13C_IS
Conc 5.0000
RT 4.769 Area 462563
ISTD 502.80>80.05 1.58e5



PFOS-13C
Conc 4.9648
RT 4.769 Area 462563
Q 502.80>80.05 1.58e5

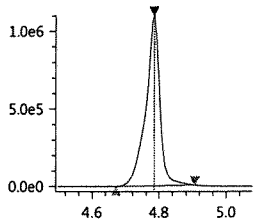


PFNA-13C_IS
Conc 5.0000
RT 4.784 Area 3280544
ISTD 467.80>423.00 1.11e6

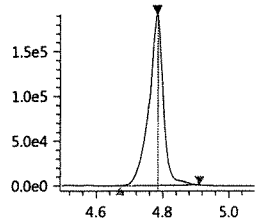


JUL 28 2017

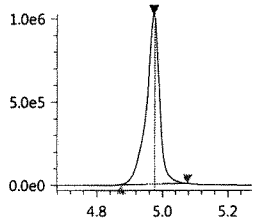
PFNA-13C
Conc 4.8881
RT 4.784 Area 3280544
Q 467.80>423.00 1.11e6



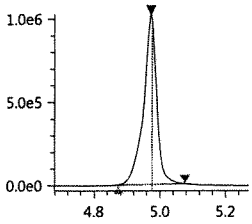
PFNA
Conc 0.8493
RT 4.783 Area 583752
Q 463.00>418.90 1.92e5



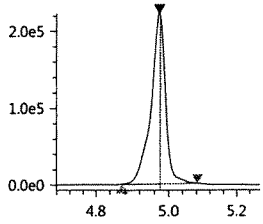
PFDA-13C_IS
Conc 5.0000
RT 4.973 Area 2865873
ISTD 514.80>469.95 1.03e6



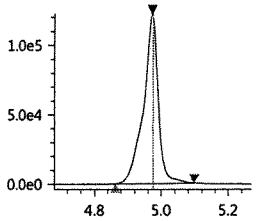
PFDA-13C
Conc 4.9757
RT 4.973 Area 2865873
Q 514.80>469.95 1.03e6



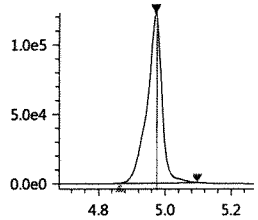
PFDA
Conc 0.8010
RT 4.973 Area 621910
Q 513.00>468.80 2.24e5



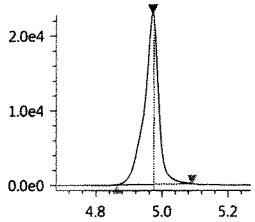
8_2-FTS-13C_IS
Conc 5.0000
RT 4.972 Area 383321
ISTD 528.80>509.00 1.23e5



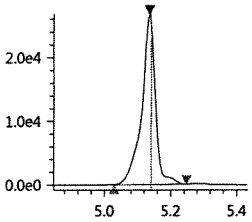
8_2-FTS-13C
Conc 4.5616
RT 4.972 Area 383321
Q 528.80>509.00 1.23e5



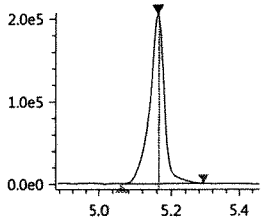
8_2-FTS_1
Conc 0.8741
RT 4.971 Area 69408
Q 526.90>506.90 2.29e4



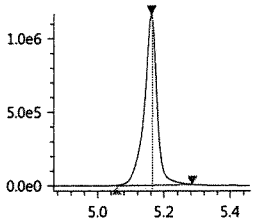
PFDS_1
Conc 0.9047
RT 5.136 Area 76806
Q 599.00>79.90 2.69e4



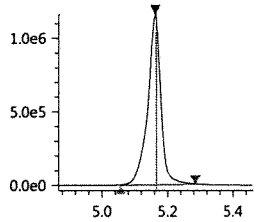
PFUnA
Conc 0.7855
RT 5.162 Area 573208
Q 563.00>518.90 2.07e5



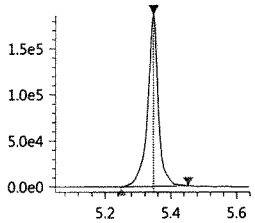
PFUnA-13C_IS
Conc 5.0000
RT 5.162 Area 3203448
ISTD 564.80>519.95 1.17e6



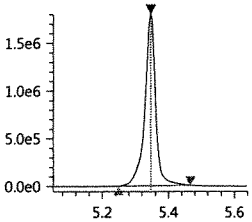
PFUnA-13C
Conc 4.9496
RT 5.162 Area 3203448
Q 564.80>519.95 1.17e6



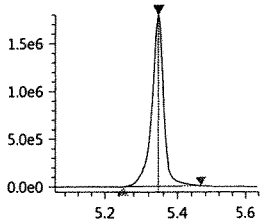
PFDoA
Conc 0.7830
RT 5.346 Area 429288
Q 613.05>569.00 1.87e5



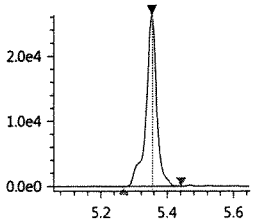
PFDoA-13C
Conc 5.0237
RT 5.346 Area 4057393
Q 614.80>569.95 1.80e6



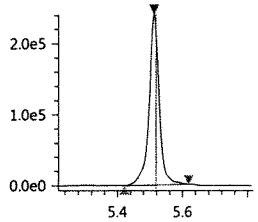
PFDoA-13C_IS
Conc 5.0000
RT 5.346 Area 4057393
ISTD 614.80>569.95 1.80e6



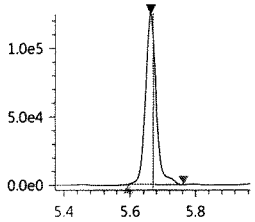
10_2-FtS_1
Conc 1.0621
RT 5.353 Area 60998
Q 627.00>606.95 2.63e4



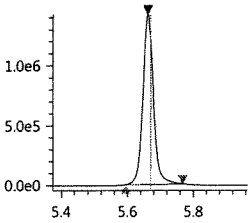
PFTrDA
Conc 0.7631
RT 5.512 Area 531795
Q 663.00>618.90 2.41e5



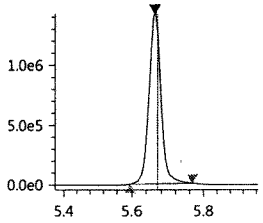
PFTeDA
Conc 0.8127
RT 5.662 Area 285667
Q 713.40>669.00 1.25e5



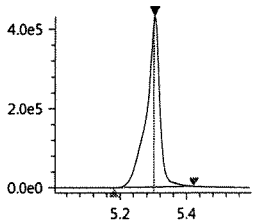
PFTeDA-13C
Conc 4.9843
RT 5.662 Area 3185894
Q 714.70>669.90 1.43e6



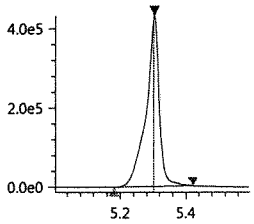
PFTeDA-13C_IS
Conc 5.0000
RT 5.662 Area 3185894
ISTD 714.70>669.90 1.43e6



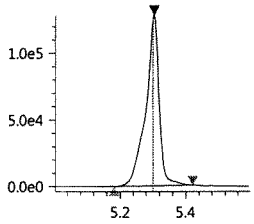
FOSA-13C_IS
Conc 5.0000
RT 5.304 Area 1201430
ISTD 506.00>78.05 4.32e5



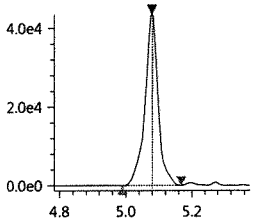
FOSA-13C
Conc 4.9427
RT 5.304 Area 1201430
Q 506.00>78.05 4.32e5



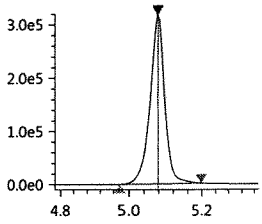
FOSA
Conc 1.0154
RT 5.304 Area 356546
Q 498.00>78.00 1.28e5



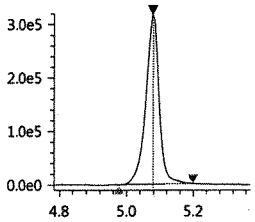
N-MeFOSAA
Conc 0.8809
RT 5.080 Area 123130
Q 570.20>419.00 4.35e4



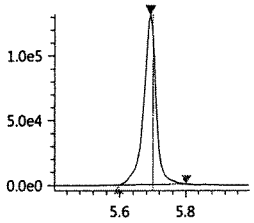
N-MeFOSAA-d3
Conc 5.2230
RT 5.078 Area 890151
Q 572.80>419.05 3.20e5



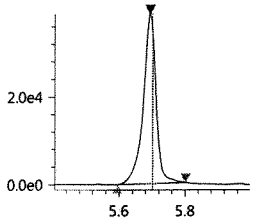
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.078 Area 890151
ISTD 572.80>419.05 3.20e5



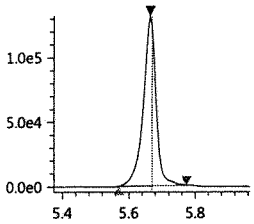
N-MeFOSA_IS
Conc 5.0000
RT 5.692 Area 349439
ISTD 514.90>168.90 1.32e5



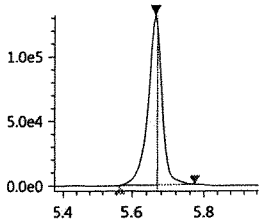
N-MeFOSA
Conc 0.8996
RT 5.695 Area 103941
Q 512.00>169.10 3.90e4



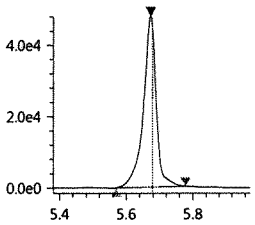
N-MeFOSE-d7
Conc 5.0987
RT 5.664 Area 353501
Q 622.70>59.10 1.32e5



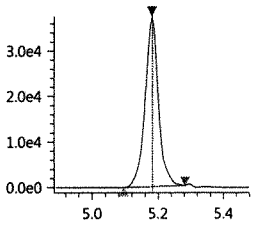
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.664 Area 353501
ISTD 622.70>59.10 1.32e5



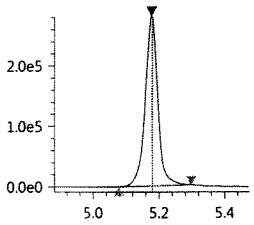
N-MeFOSE
Conc 0.8671
RT 5.673 Area 129498
Q 616.00>59.00 4.81e4



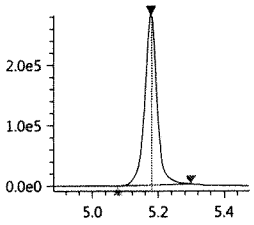
N-EtFOSAA
Conc 0.8096
RT 5.181 Area 106634
Q 584.20>418.95 3.76e4



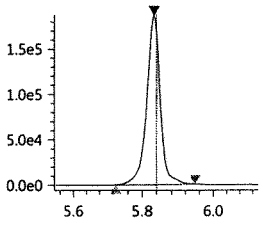
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.178 Area 743604
ISTD 588.80>419.00 2.83e5



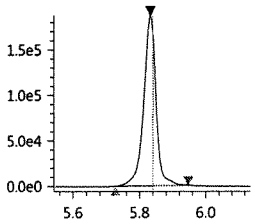
N-EtFOSAA-d5
Conc 4.9894
RT 5.178 Area 743604
Q 588.80>419.00 2.83e5



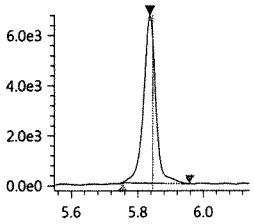
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.832 Area 490539
ISTD 530.90>169.15 1.88e5



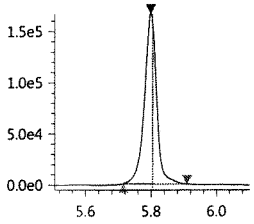
N-EtFOSA-d9
Conc 5.1104
RT 5.832 Area 490539
Q 530.90>169.15 1.88e5



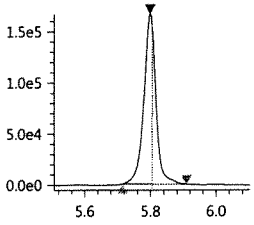
N-EtFOSA
Conc 0.9381
RT 5.837 Area 17488
Q 526.90>169.10 6.84e3



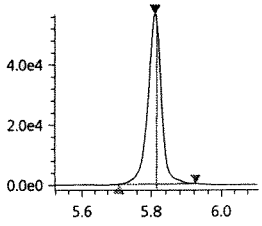
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.800 Area 428873
ISTD 638.70>59.10 1.67e5



N-EtFOSE-d9
Conc 5.2518
RT 5.800 Area 428873
Q 638.70>59.10 1.67e5



N-EtFOSE
Conc 0.8519
RT 5.811 Area 148045
Q 630.00>58.90 5.68e4



Insight Report

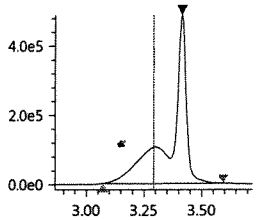
Befores Printed at 7/27/2017 1:27:38 PM

JT 7/28/17

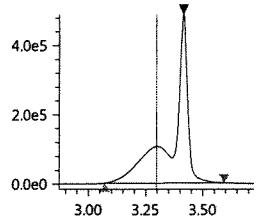
072717_118

Sample ID: 1 ppb ICV
Date acquired: 7/27/2017 12:45:31 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072717_b1\072717_118.lcd
Vial: 21 | Inj. Volume: 15.0000uL | Tray: 1

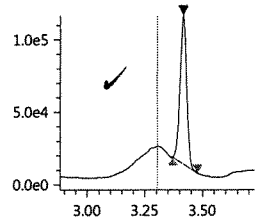
PFBA-13C_IS
Conc 5.0000
RT 3.416 Area 2295148
ISTD 216.90>172.15 4.90e5



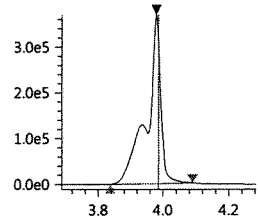
PFBA-13C
Conc 4.9082
RT 3.416 Area 2295148
Q 216.90>172.15 4.90e5



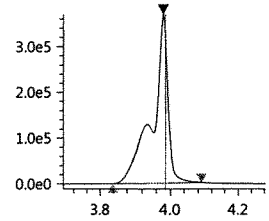
PFBA
Conc 0.6446
RT 3.417 Area 201094
Q 213.00>169.10 1.17e5



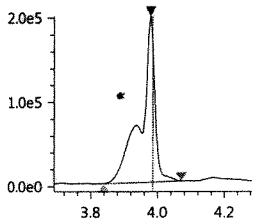
PFPeA-13C_IS
Conc 5.0000
RT 3.980 Area 1117292
ISTD 267.90>223.00 3.70e5



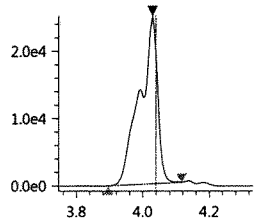
PFPeA-13C
Conc 4.8592
RT 3.980 Area 1117292
Q 267.90>223.00 3.70e5



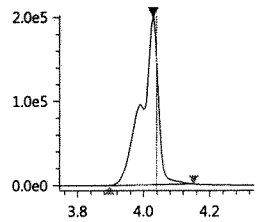
PFPeA
Conc 0.3122
RT 3.980 Area 595457
Q 263.05>219.10 2.02e5



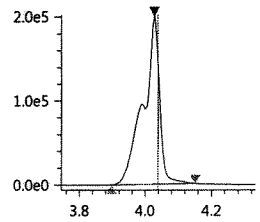
PFBS_1
Conc 0.7497
RT 4.029 Area 93704
Q 299.00>80.00 2.52e4



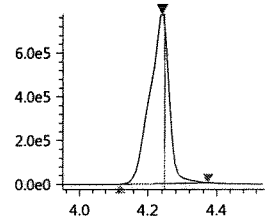
PFBS-13C
Conc 4.8348
RT 4.028 Area 700301
Q 301.80>80.00 2.02e5



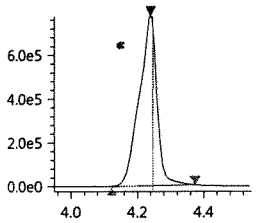
PFBS-13C_IS
Conc 5.0000
RT 4.028 Area 700301
ISTD 301.80>80.00 2.02e5



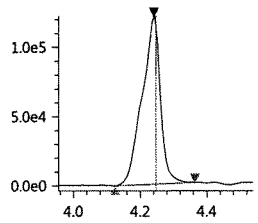
PFHxA-13C_IS
Conc 5.0000
RT 4.241 Area 2930669
ISTD 314.90>270.10 7.76e5



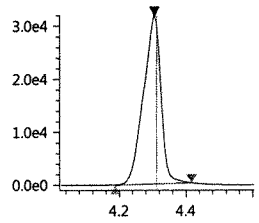
PFHxA-13C
Conc 4.6528
RT 4.241 Area 2930669
Q 314.90>270.10 7.76e5



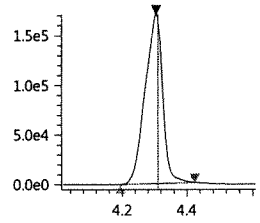
PFHxA
Conc 0.4713
RT 4.241 Area 463051
Q 313.00>269.00 1.23e5



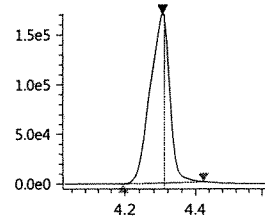
HPFO_DA
Conc 0.9447
RT 4.305 Area 115313
Q 329.00>169.00 3.21e4



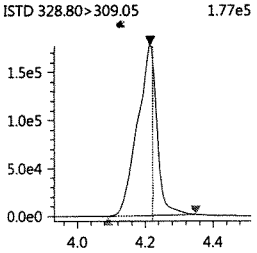
HFPO_DA-13C_IS
Conc 5.0000
RT 4.306 Area 651122
ISTD 332.00>286.80 1.71e5



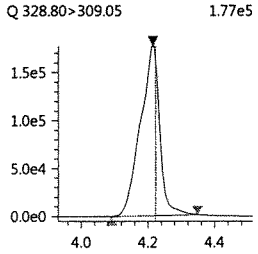
HFPO_DA-13C
Conc 4.6506
RT 4.306 Area 651122
Q 332.00>286.80 1.71e5



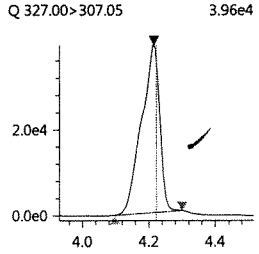
4_2-FTS-13C_IS
Conc 5.0000
RT 4.215 Area 715725
ISTD 328.80>309.05 1.77e5



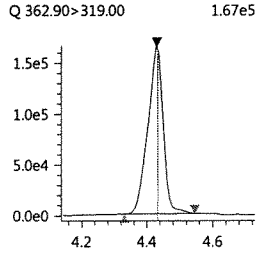
4_2-FTS-13C
Conc 4.8966
RT 4.215 Area 715725
Q 328.80>309.05 1.77e5



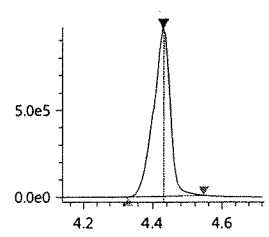
4_2-FTS_1
Conc 0.7995
RT 4.215 Area 148128
Q 327.00>307.05 3.96e4



PFHpA
Conc 0.5661
RT 4.431 Area 539019
Q 362.90>319.00 1.67e5

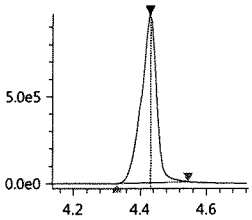


PFHpA-13C_IS
Conc 5.0000
RT 4.430 Area 3176072
ISTD 366.90>322.10 9.77e5

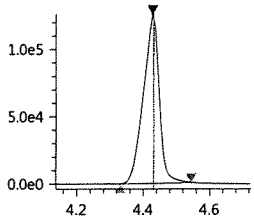


JUL 28 2017

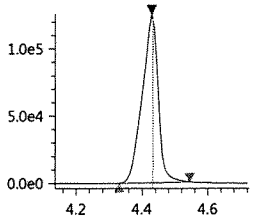
PFHpA-13C
Conc 4.9721
RT 4.430 Area 3176072
Q 366.90>322.10 9.77e5



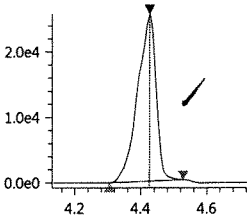
PFHxS-18O_IS
Conc 5.0000
RT 4.429 Area 417157
ISTD 402.70>84.05 1.26e5



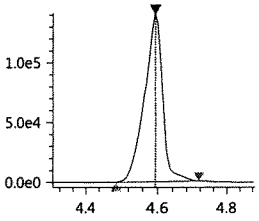
PFHxS-18O
Conc 4.8960
RT 4.429 Area 417157
Q 402.70>84.05 1.26e5



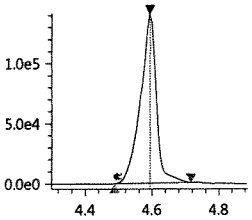
PFHxS_1
Conc 0.6747
RT 4.427 Area 98282
Q 399.00>80.00 2.59e4



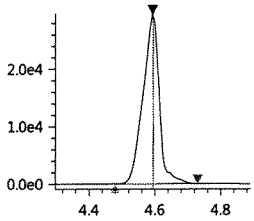
6_2-FTS-13C
Conc 5.2204
RT 4.594 Area 475608
Q 428.90>409.00 1.42e5



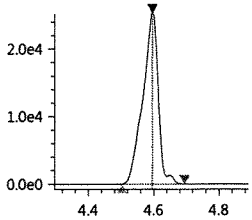
6_2-FTS-13C_IS
Conc 5.0000
RT 4.594 Area 475608
ISTD 428.90>409.00 1.42e5



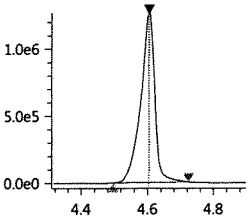
6_2-FTS_1
Conc 0.7978
RT 4.593 Area 101104
Q 427.00>407.00 2.97e4



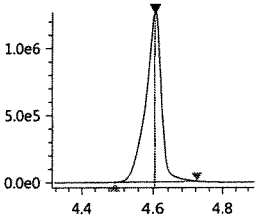
PFHpS_1
Conc 1.0223
RT 4.595 Area 82566
Q 449.00>80.15 2.52e4



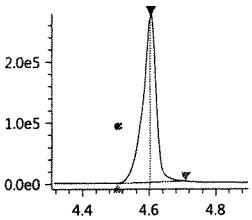
PFOA-13C_IS
Conc 5.0000
RT 4.605 Area 3731618
ISTD 416.80>372.05 1.27e6



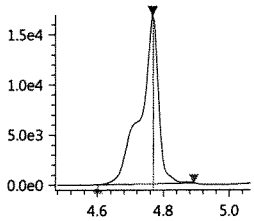
PFOA-13C
Conc 5.0960
RT 4.605 Area 3731618
Q 416.80>372.05 1.27e6



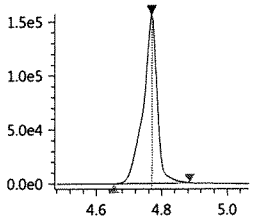
PFOA
Conc 0.6360
RT 4.605 Area 786290
Q 413.00>369.00 2.79e5



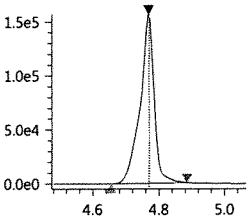
PFOS_1
Conc 0.8148
RT 4.768 Area 63375
Q 499.00>80.00 1.70e4



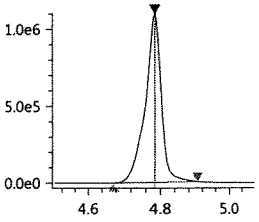
PFOS-13C_IS
Conc 5.0000
RT 4.769 Area 462563
ISTD 502.80>80.05 1.58e5



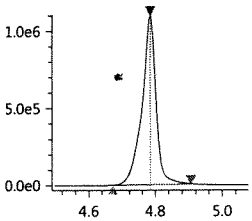
PFOS-13C
Conc 4.9648
RT 4.769 Area 462563
Q 502.80>80.05 1.58e5



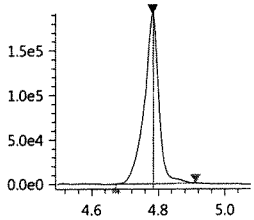
PFNA-13C_IS
Conc 5.0000
RT 4.784 Area 3280544
ISTD 467.80>423.00 1.11e6



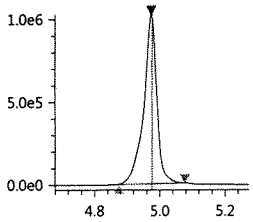
PFNA-13C
Conc 4.8881
RT 4.784 Area 3280544
Q 467.80>423.00 1.11e6



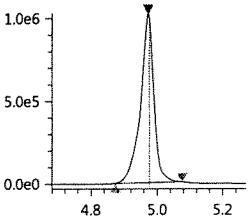
PFNA
Conc 0.7555
RT 4.783 Area 583752
Q 463.00>418.90 1.92e5



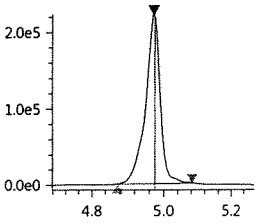
PFDA-13C_IS
Conc 5.0000
RT 4.973 Area 2865873
ISTD 514.80>469.95 1.03e6



PFDA-13C
Conc 4.9757
RT 4.973 Area 2865873
Q 514.80>469.95 1.03e6



PFDA
Conc 0.7191
RT 4.973 Area 621910
Q 513.00>468.80 2.24e5



Insight Report

Printed at 7/27/2017 3:12:15 PM

JT 7/28/17

072717_119

Sample ID: IB
Date acquired: 7/27/2017 12:56:00 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072717_b1\072717_119.lcd
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 1

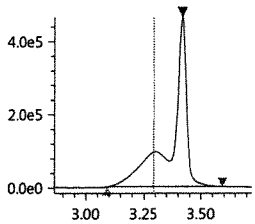
Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.418	2104052	2104052	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.418	2104052	358358	1	4.3343	ng/mL	----	----	Auto
PFBA	3.420	12914	2104052	2	0.0243	ng/mL	----	----	M
PFPeA-13C_IS	3.979	1048580	1048580	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.979	1048580	358358	1	4.4468	ng/mL	----	----	Auto
PFPeA	3.980	67545	1048580	4	0.0141	ng/mL	----	----	Auto
PFBS_1	----	----	----	16	----	ng/mL	----	----	ND(W/B)
PFBS-13C	4.028	662541	358358	1	4.4603	ng/mL	----	----	Auto
PFBS-13C_IS	4.028	662541	662541	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.240	2837516	2837516	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.240	2837516	358358	1	4.3928	ng/mL	----	----	Auto
PFHxA	4.225	14329	2837516	6	0.0247	ng/mL	----	----	Auto
HPFO_DA	----	----	----	3	----	ng/mL	----	----	ND(W/B)
HFPO_DA-13C_IS	4.305	612455	612455	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.305	612455	358358	1	4.2656	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.214	636820	636820	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.214	636820	358358	1	4.2483	ng/mL	----	----	Auto
4_2-FTS_1	4.211	284	636820	5	0.0017	ng/mL	----	----	Auto
PFHpA	4.419	11783	3116116	8	-0.0081	ng/mL	----	----	Auto
PFHpA-13C_IS	4.430	3116116	3116116	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.430	3116116	358358	1	4.7569	ng/mL	----	----	Auto
PFHxS-18O_IS	4.428	377946	377946	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.428	377946	358358	1	4.3254	ng/mL	----	----	Auto
PFHxS_1	4.426	393	377946	7	0.0035	ng/mL	----	----	Auto
6_2-FTS-13C	4.591	412435	358358	1	4.4144	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.591	412435	412435	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	----	----	----	10	----	ng/mL	----	----	NI
PFHpS_1	----	----	----	7	----	ng/mL	----	----	ND(W/B)
PFOA-13C_IS	4.604	3539281	3539281	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.604	3539281	358358	1	4.7131	ng/mL	----	----	Auto
PFOA	4.587	20692	3539281	9	0.0219	ng/mL	----	----	Auto
PFOS_1	----	----	----	13	----	ng/mL	----	----	NI
PFOS-13C_IS	4.767	441502	441502	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.767	441502	358358	1	4.6208	ng/mL	----	----	Auto
PFNA-13C_IS	4.783	3139843	3139843	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.783	3139843	358358	1	4.5620	ng/mL	----	----	Auto
PFNA	4.766	8891	3139843	11	0.0135	ng/mL	----	----	Auto
PFDA-13C_IS	4.971	2579250	2579250	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.971	2579250	358358	1	4.3667	ng/mL	----	----	Auto
PFDA	4.946	9889	2579250	12	0.0142	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.969	391704	391704	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.969	391704	358358	1	4.5453	ng/mL	----	----	Auto
8_2-FTS_1	4.969	118	391704	15	0.0014	ng/mL	----	----	M
PFDS_1	----	----	----	13	----	ng/mL	----	----	ND(W/B)
PFUnA	5.150	15179	3039803	14	0.0219	ng/mL	----	----	Auto
PFUnA-13C_IS	5.159	3039803	3039803	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.159	3039803	358358	1	4.5798	ng/mL	----	----	Auto
PFDoA	5.334	6264	3750443	17	0.0124	ng/mL	----	----	Auto
PFDoA-13C	5.343	3750443	358358	1	4.5281	ng/mL	----	----	Auto
PFDoA-13C_IS	5.343	3750443	3750443	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	----	----	----	15	----	ng/mL	----	----	ND(W/B)
PFTrDA	5.503	3548	2937226	22	0.0055	ng/mL	----	----	Auto
PFTeDA	5.660	31044	2937226	22	0.0320	ng/mL	----	----	Auto
PFTeDA-13C	5.659	2937226	358358	1	4.4809	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.659	2937226	2937226	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.300	1122570	1122570	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.300	1122570	358358	1	4.5033	ng/mL	----	----	Auto
FOSA	5.301	1562	1122570	18	0.0048	ng/mL	----	----	Auto
N-MeFOSAA	5.088	2320	790615	19	0.0187	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.076	790615	358358	1	4.5235	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.076	790615	790615	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.688	358358	358358	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.692	884	347302	20	0.0078	ng/mL	----	----	Auto
N-MeFOSE-d7	5.660	347302	358358	1	4.8846	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.660	347302	347302	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	----	----	----	20	----	ng/mL	----	----	NI
N-EtFOSAA	5.190	1093	703131	21	0.0088	ng/mL	----	----	Auto

JK 7/28/17

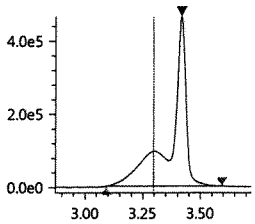
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.176	703131	703131	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.176	703131	358358	1	4.6004	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.828	452592	452592	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.828	452592	358358	1	4.5977	ng/mL	----	----	Auto
N-EtFOSA	----	----	----	23	----	ng/mL	----	----	NI
N-EtFOSE-d9_IS	5.795	385248	385248	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.795	385248	358358	1	4.6001	ng/mL	----	----	Auto
N-EtFOSE	----	----	----	24	----	ng/mL	----	----	NI

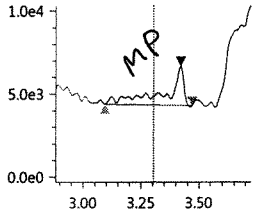
PFBA-13C_IS
Conc 5.0000
RT 3.418 Area 2104052
ISTD 216.90>172.15 4.68e5



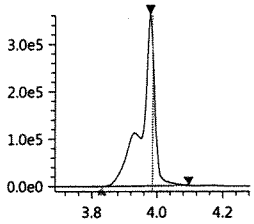
PFBA-13C
Conc 4.3343
RT 3.418 Area 2104052
Q 216.90>172.15 4.68e5



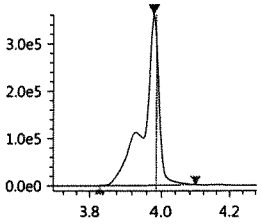
PFBA
Conc 0.0243
RT 3.420 Area 12914
Q 213.00>169.10 1.03e4



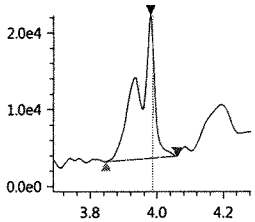
PFPeA-13C_IS
Conc 5.0000
RT 3.979 Area 1048580
ISTD 267.90>223.00 3.62e5



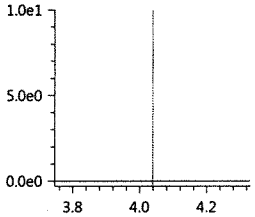
PFPeA-13C
Conc 4.4468
RT 3.979 Area 1048580
Q 267.90>223.00 3.62e5



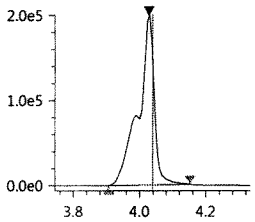
PFPeA
Conc 0.0141
RT 3.980 Area 67545
Q 263.05>219.10 2.23e4



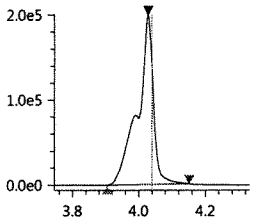
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 0.00e0



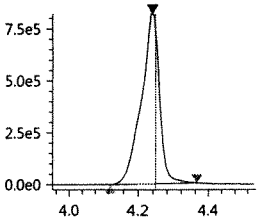
PFBS-13C
Conc 4.4603
RT 4.028 Area 662541
Q 301.80>80.00 2.01e5



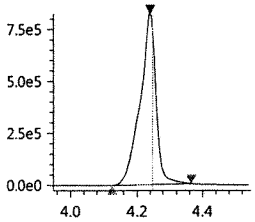
PFBS-13C_IS
Conc 5.0000
RT 4.028 Area 662541
ISTD 301.80>80.00 2.01e5



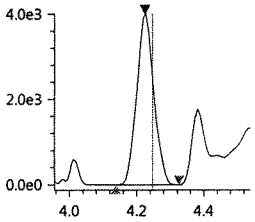
PFHxA-13C_IS
Conc 5.0000
RT 4.240 Area 2837516
ISTD 314.90>270.10 8.24e5



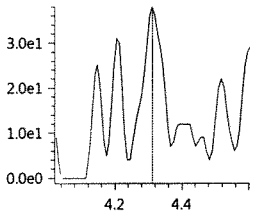
PFHxA-13C
Conc 4.3928
RT 4.240 Area 2837516
Q 314.90>270.10 8.24e5



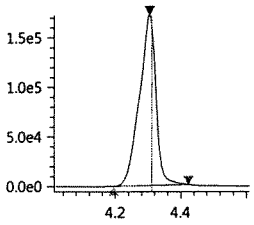
PFHxA
Conc 0.0247
RT 4.225 Area 14329
Q 313.00>269.00 4.01e3



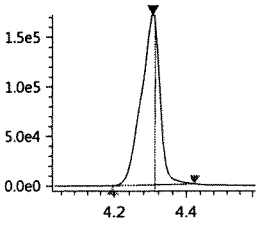
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 3.80e1



HFPO_DA-13C_IS
Conc 5.0000
RT 4.305 Area 612455
ISTD 332.00>286.80 1.73e5

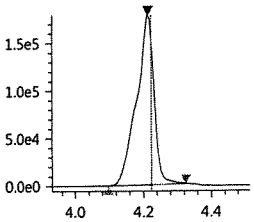


HFPO_DA-13C
Conc 4.2656
RT 4.305 Area 612455
Q 332.00>286.80 1.73e5

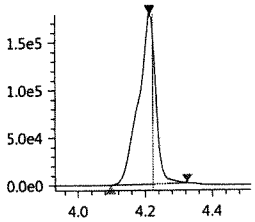


JUL 28 2017

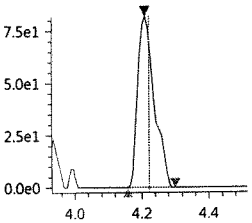
4_2-FTS-13C_IS
Conc 5.0000
RT 4.214 Area 636820
ISTD 328.80>309.05 1.80e5



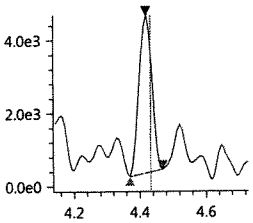
4_2-FTS-13C
Conc 4.2483
RT 4.214 Area 636820
Q 328.80>309.05 1.80e5



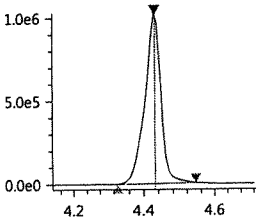
4_2-FTS_1
Conc 0.0017
RT 4.211 Area 284
Q 327.00>307.05 8.20e1



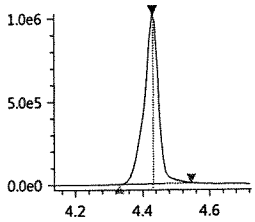
PFHpA
Conc -0.0081
RT 4.419 Area 11783
Q 362.90>319.00 4.69e3



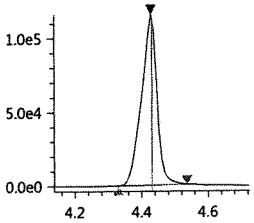
PFHpA-13C_IS
Conc 5.0000
RT 4.430 Area 3116116
ISTD 366.90>322.10 1.03e6



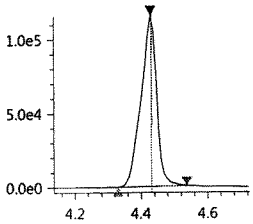
PFHpA-13C
Conc 4.7569
RT 4.430 Area 3116116
Q 366.90>322.10 1.03e6



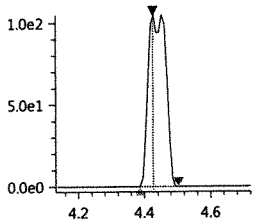
PFHxS-18O_IS
Conc 5.0000
RT 4.428 Area 377946
ISTD 402.70>84.05 1.16e5



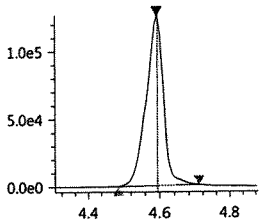
PFHxS-18O
Conc 4.3254
RT 4.428 Area 377946
Q 402.70>84.05 1.16e5



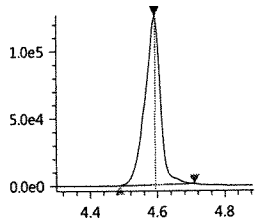
PFHxS_1
Conc 0.0035
RT 4.426 Area 393
Q 399.00>80.00 1.05e2



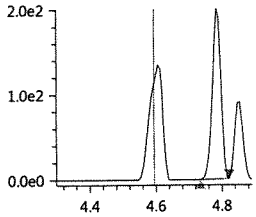
6_2-FTS-13C
Conc 4.4144
RT 4.591 Area 412435
Q 428.90>409.00 1.27e5



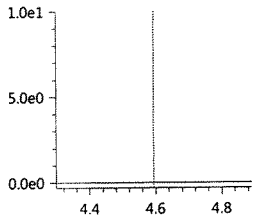
6_2-FTS-13C_IS
Conc 5.0000
RT 4.591 Area 412435
ISTD 428.90>409.00 1.27e5



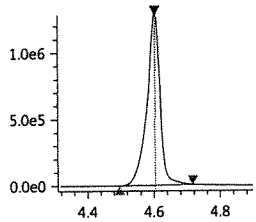
6_2-FTS_1
Conc ----
RT ---- Area ----
Q 427.00>407.00 2.01e2



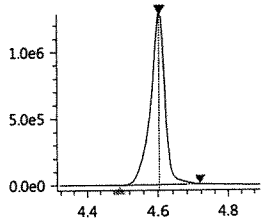
PFHpS_1
Conc ----
RT ---- Area ----
Q 449.00>80.15 0.00e0



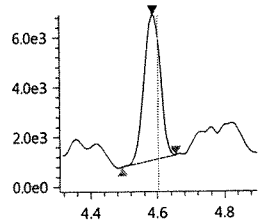
PFOA-13C_IS
Conc 5.0000
RT 4.604 Area 3539281
ISTD 416.80>372.05 1.29e6



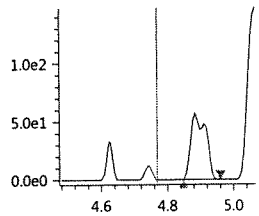
PFOA-13C
Conc 4.7131
RT 4.604 Area 3539281
Q 416.80>372.05 1.29e6



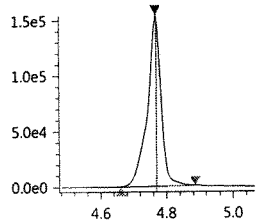
PFOA
Conc 0.0219
RT 4.587 Area 20692
Q 413.00>369.00 6.92e3



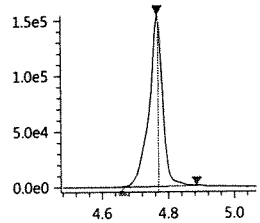
PFOS_1
Conc ----
RT ---- Area ----
Q 499.00>80.00 1.48e2



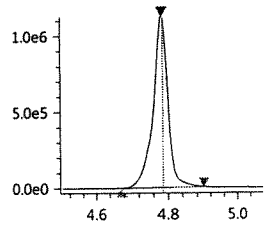
PFOS-13C_IS
Conc 5.0000
RT 4.767 Area 441502
ISTD 502.80>80.05 1.55e5



PFOS-13C
Conc 4.6208
RT 4.767 Area 441502
Q 502.80>80.05 1.55e5

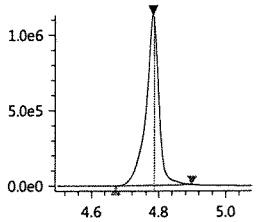


PFNA-13C_IS
Conc 5.0000
RT 4.783 Area 3139843
ISTD 467.80>423.00 1.13e6

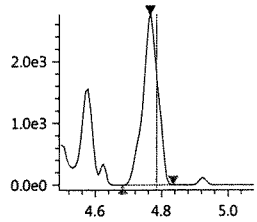


JY 7/28/17

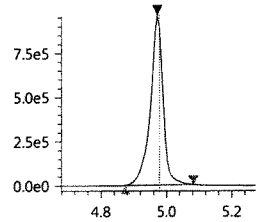
PFNA-13C
Conc 4.5620
RT 4.783 Area 3139843
Q 467.80>423.00 1.13e6



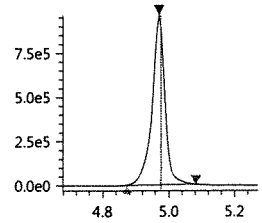
PFNA
Conc 0.0135
RT 4.766 Area 8891
Q 463.00>418.90 2.76e3



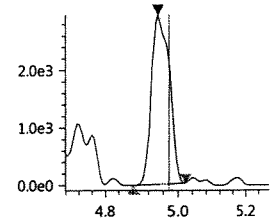
PFDA-13C_IS
Conc 5.0000
RT 4.971 Area 2579250
ISTD 514.80>469.95 9.65e5



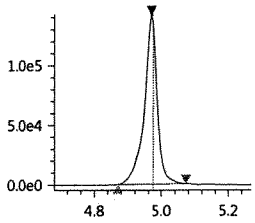
PFDA-13C
Conc 4.3667
RT 4.971 Area 2579250
Q 514.80>469.95 9.65e5



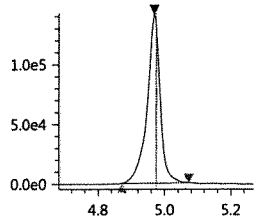
PFDA
Conc 0.0142
RT 4.946 Area 9889
Q 513.00>468.80 2.97e3



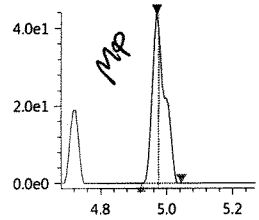
8_2-FTS-13C_IS
Conc 5.0000
RT 4.969 Area 391704
ISTD 528.80>509.00 1.43e5



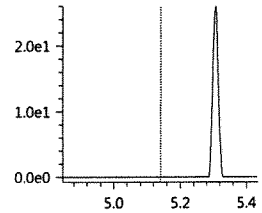
8_2-FTS-13C
Conc 4.5453
RT 4.969 Area 391704
Q 528.80>509.00 1.43e5



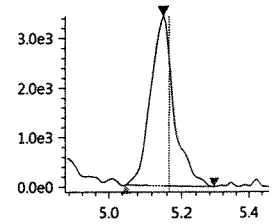
8_2-FTS_1
Conc 0.0014
RT 4.969 Area 118
Q 526.90>506.90 4.40e1



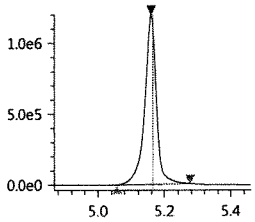
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 2.60e1



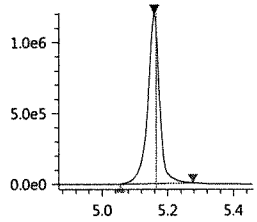
PFUnA
Conc 0.0219
RT 5.150 Area 15179
Q 563.00>518.90 3.45e3



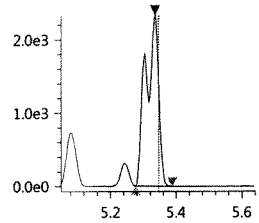
PFUnA-13C_IS
Conc 5.0000
RT 5.159 Area 3039803
ISTD 564.80>519.95 1.21e6



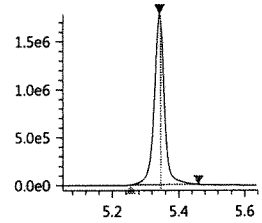
PFUnA-13C
Conc 4.5798
RT 5.159 Area 3039803
Q 564.80>519.95 1.21e6



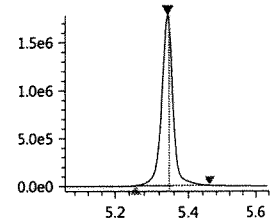
PFDoA
Conc 0.0124
RT 5.334 Area 6264
Q 613.05>569.00 2.33e3



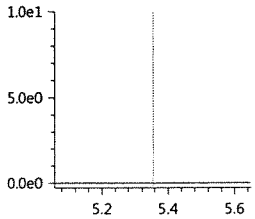
PFDoA-13C
Conc 4.5281
RT 5.343 Area 3750443
Q 614.80>569.95 1.78e6



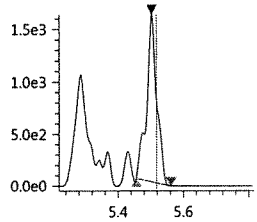
PFDoA-13C_IS
Conc 5.0000
RT 5.343 Area 3750443
ISTD 614.80>569.95 1.78e6



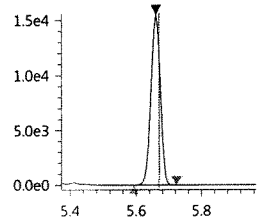
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



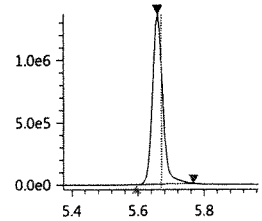
PFTrDA
Conc 0.0055
RT 5.503 Area 3548
Q 663.00>618.90 1.64e3



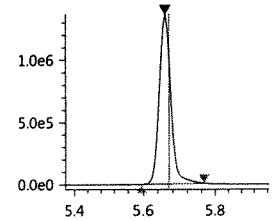
PFTeDA
Conc 0.0320
RT 5.660 Area 31044
Q 713.40>669.00 1.56e4



PFTeDA-13C
Conc 4.4809
RT 5.659 Area 2937226
Q 714.70>669.90 1.37e6

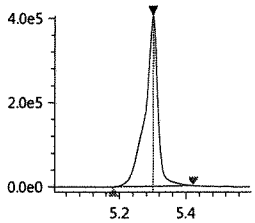


PFTeDA-13C_IS
Conc 5.0000
RT 5.659 Area 2937226
ISTD 714.70>669.90 1.37e6

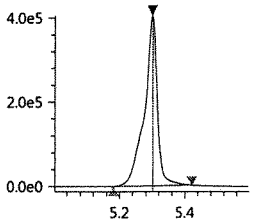


JUL 28 2017

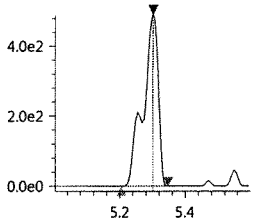
FOSA-13C_IS
Conc 5.0000
RT 5.300 Area 1122570
ISTD 506.00>78.05 4.06e5



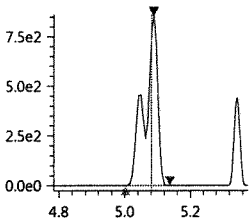
FOSA-13C
Conc 4.5033
RT 5.300 Area 1122570
Q 506.00>78.05 4.06e5



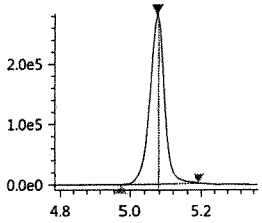
FOSA
Conc 0.0048
RT 5.301 Area 1562
Q 498.00>78.00 4.90e2



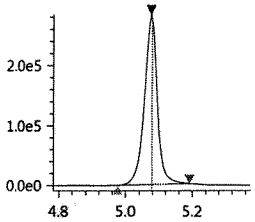
N-MeFOSAA
Conc 0.0187
RT 5.088 Area 2320
Q 570.20>419.00 8.64e2



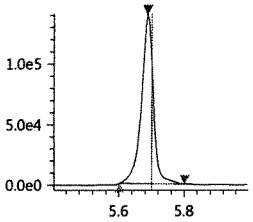
N-MeFOSAA-d3
Conc 4.5235
RT 5.076 Area 790615
Q 572.80>419.05 2.85e5



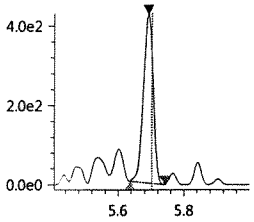
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.076 Area 790615
ISTD 572.80>419.05 2.85e5



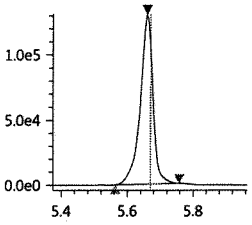
N-MeFOSA_IS
Conc 5.0000
RT 5.688 Area 358358
ISTD 514.90>168.90 1.41e5



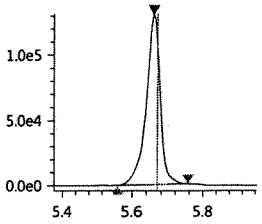
N-MeFOSA
Conc 0.0078
RT 5.692 Area 884
Q 512.00>169.10 4.32e2



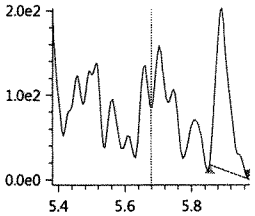
N-MeFOSE-d7
Conc 4.8846
RT 5.660 Area 347302
Q 622.70>59.10 1.32e5



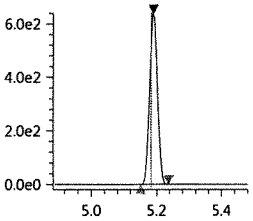
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.660 Area 347302
ISTD 622.70>59.10 1.32e5



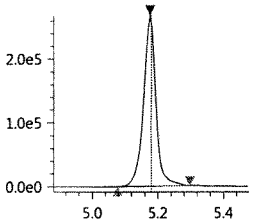
N-MeFOSE
Conc ----
RT ---- Area ----
Q 616.00>59.00 2.03e2



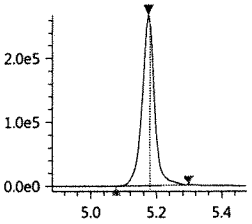
N-EtFOSAA
Conc 0.0088
RT 5.190 Area 1093
Q 584.20>418.95 6.41e2



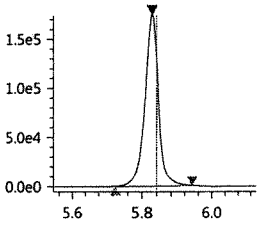
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.176 Area 703131
ISTD 588.80>419.00 2.69e5



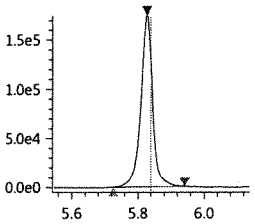
N-EtFOSAA-d5
Conc 4.6004
RT 5.176 Area 703131
Q 588.80>419.00 2.69e5



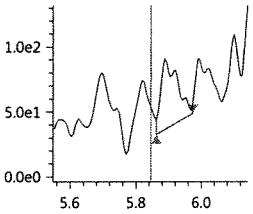
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.828 Area 452592
ISTD 530.90>169.15 1.75e5



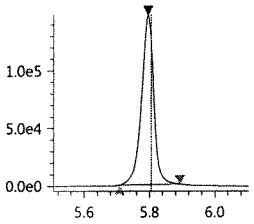
N-EtFOSA-d9
Conc 4.5977
RT 5.828 Area 452592
Q 530.90>169.15 1.75e5



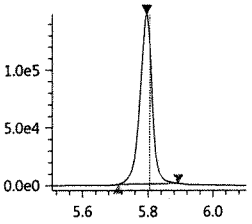
N-EtFOSA
Conc ----
RT ---- Area ----
Q 526.90>169.10 1.32e2



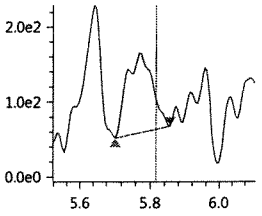
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.795 Area 385248
ISTD 638.70>59.10 1.49e5



N-EtFOSE-d9
Conc 4.6001
RT 5.795 Area 385248
Q 638.70>59.10 1.49e5



N-EtFOSE
Conc ----
RT ---- Area ----
Q 630.00>58.90 2.29e2



Insight Report

Befores

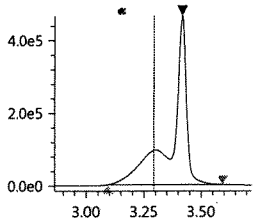
Printed at 7/27/2017 1:27:38 PM

JT 7/28/17

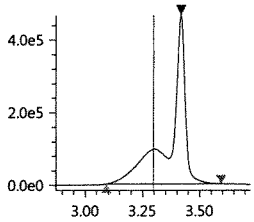
072717_119

Sample ID: IB
Date acquired: 7/27/2017 12:56:00 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072717_b1\072717_119.lcd
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 1

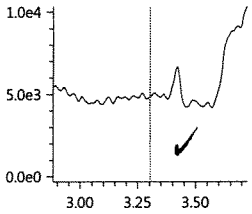
PFBA-13C_IS
Conc 5.0000
RT 3.418 Area 2104052
ISTD 216.90>172.15 4.68e5



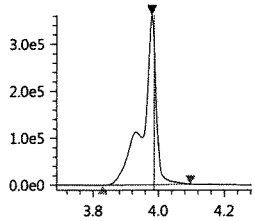
PFBA-13C
Conc 4.3875
RT 3.418 Area 2104052
Q 216.90>172.15 4.68e5



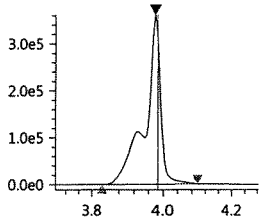
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 1.03e4



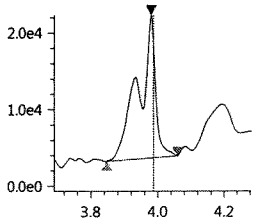
PFPeA-13C_IS
Conc 5.0000
RT 3.979 Area 1048580
ISTD 267.90>223.00 3.62e5



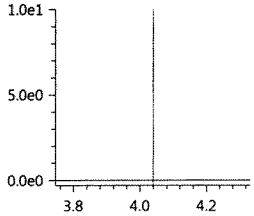
PFPeA-13C
Conc 4.4468
RT 3.979 Area 1048580
Q 267.90>223.00 3.62e5



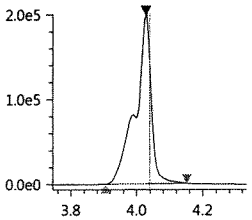
PFPeA
Conc 0.0377
RT 3.980 Area 67545
Q 263.05>219.10 2.23e4



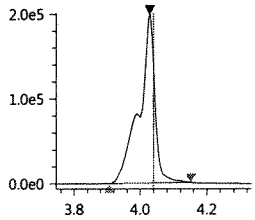
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 0.00e0



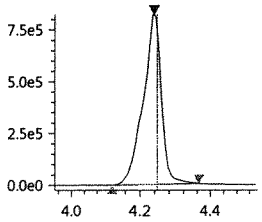
PFBS-13C
Conc 4.4603
RT 4.028 Area 662541
Q 301.80>80.00 2.01e5



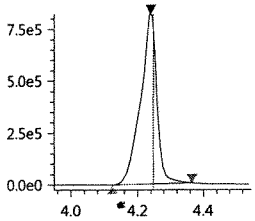
PFBS-13C_IS
Conc 5.0000
RT 4.028 Area 662541
ISTD 301.80>80.00 2.01e5



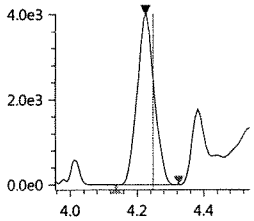
PFHxA-13C_IS
Conc 5.0000
RT 4.240 Area 2837516
ISTD 314.90>270.10 8.24e5



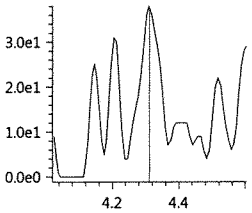
PFHxA-13C
Conc 4.3928
RT 4.240 Area 2837516
Q 314.90>270.10 8.24e5



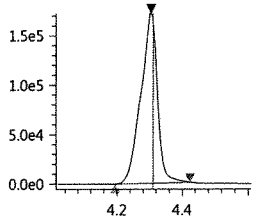
PFHxA
Conc 0.0151
RT 4.225 Area 14329
Q 313.00>269.00 4.01e3



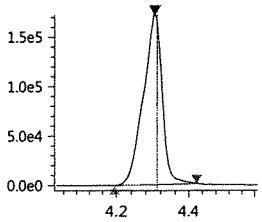
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 3.80e1



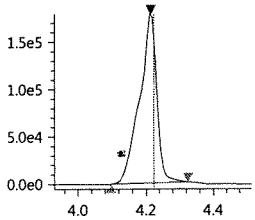
HFPO_DA-13C_IS
Conc 5.0000
RT 4.305 Area 612455
ISTD 332.00>286.80 1.73e5



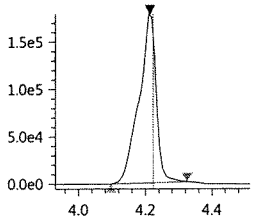
HFPO_DA-13C
Conc 4.2656
RT 4.305 Area 612455
Q 332.00>286.80 1.73e5



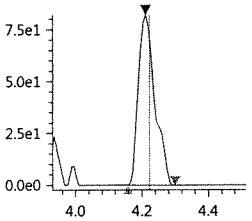
4_2-FTS-13C_IS
Conc 5.0000
RT 4.214 Area 636820
ISTD 328.80>309.05 1.80e5



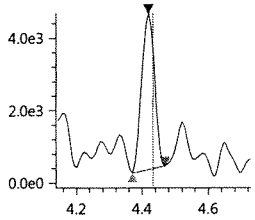
4_2-FTS-13C
Conc 4.2483
RT 4.214 Area 636820
Q 328.80>309.05 1.80e5



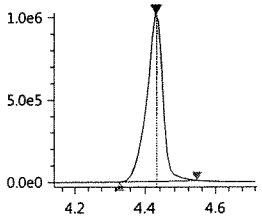
4_2-FTS_1
Conc 0.0017
RT 4.211 Area 284
Q 327.00>307.05 8.20e1



PFHpA
Conc 0.0126
RT 4.419 Area 11783
Q 362.90>319.00 4.69e3

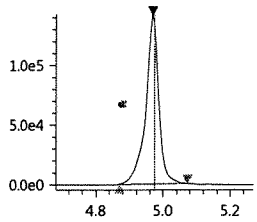


PFHpA-13C_IS
Conc 5.0000
RT 4.430 Area 3116116
ISTD 366.90>322.10 1.03e6

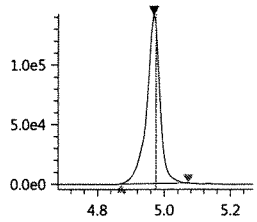


JUL 28 2017

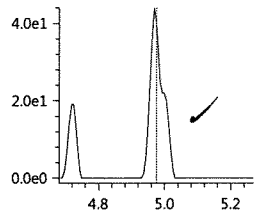
8_2-FTS-13C_IS
Conc 5.0000
RT 4.969 Area 391704
ISTD 528.80>509.00 1.43e5



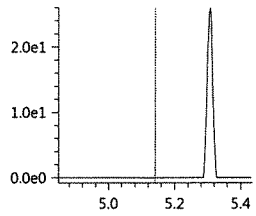
8_2-FTS-13C
Conc 4.5453
RT 4.969 Area 391704
Q 528.80>509.00 1.43e5



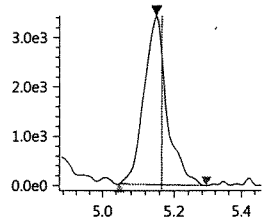
8_2-FTS_1
Conc ----
RT ---- Area ----
Q 526.90>506.90 4.40e1



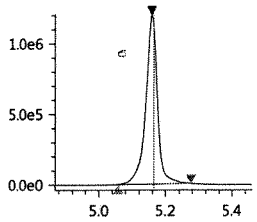
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 2.60e1



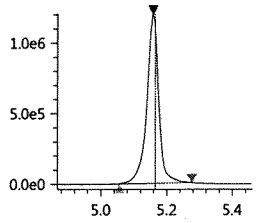
PFUnA
Conc 0.0172
RT 5.150 Area 15179
Q 563.00>518.90 3.45e3



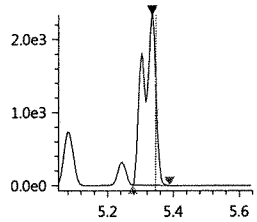
PFUnA-13C_IS
Conc 5.0000
RT 5.159 Area 3039803
ISTD 564.80>519.95 1.21e6



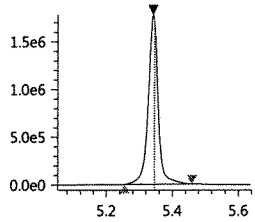
PFUnA-13C
Conc 4.5798
RT 5.159 Area 3039803
Q 564.80>519.95 1.21e6



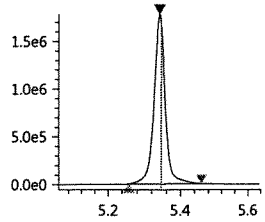
PFDoA
Conc 0.0113
RT 5.334 Area 6264
Q 613.05>569.00 2.33e3



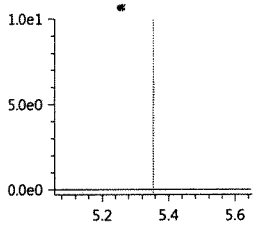
PFDoA-13C
Conc 4.5281
RT 5.343 Area 3750443
Q 614.80>569.95 1.78e6



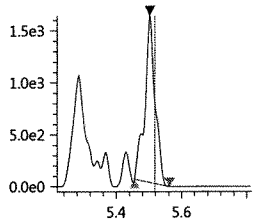
PFDoA-13C_IS
Conc 5.0000
RT 5.343 Area 3750443
ISTD 614.80>569.95 1.78e6



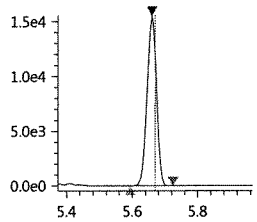
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



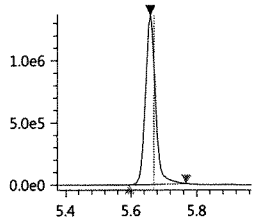
PFTrDA
Conc 0.0050
RT 5.503 Area 3548
Q 663.00>618.90 1.64e3



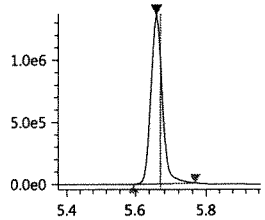
PFTeDA
Conc 0.0413
RT 5.660 Area 31044
Q 713.40>669.00 1.56e4



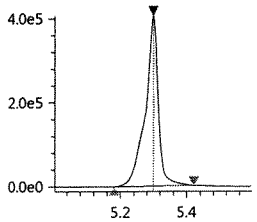
PFTeDA-13C
Conc 4.4809
RT 5.659 Area 2937226
Q 714.70>669.90 1.37e6



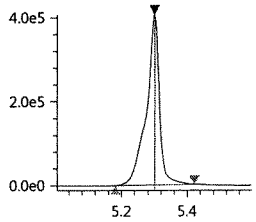
PFTeDA-13C_IS
Conc 5.0000
RT 5.659 Area 2937226
ISTD 714.70>669.90 1.37e6



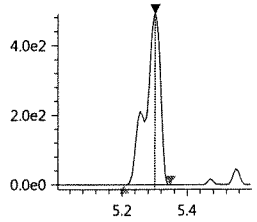
FOSA-13C_IS
Conc 5.0000
RT 5.300 Area 1122570
ISTD 506.00>78.05 4.06e5



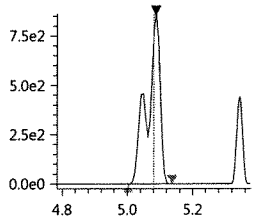
FOSA-13C
Conc 4.5033
RT 5.300 Area 1122570
Q 506.00>78.05 4.06e5



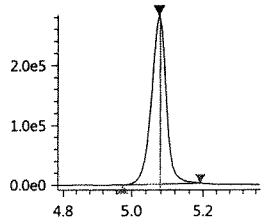
FOSA
Conc 0.0046
RT 5.301 Area 1562
Q 498.00>78.00 4.90e2



N-MeFOSAA
Conc 0.0200
RT 5.088 Area 2320
Q 570.20>419.00 8.64e2



N-MeFOSAA-d3
Conc 4.5235
RT 5.076 Area 790615
Q 572.80>419.05 2.85e5



7/26/2017_b3

ALS Environmental
Injection Log
LCMS06 -Shimadzu 8050

ICAL Date:	7/17/2017
Cal. Std. xp:	11/26/2017
ICAL ID:	KC1700121
LIMS ID:	555060

1st Review: Justine Tennant
2nd Review: JUL 27 2017
Column: Phenomenx EVO-C18 100X4.6 mm S/N: H17-159040
Mobile Phases A: 5mM Ammonium Acetate in H2O 17-OLC-01-68B B: 5mM Ammonium Acetate In MeOH 17-OLC-01-68A

	Sample Name		File Name	Acquisition Method	Dilution	R	Comments
1	IB	IB	071717_106	PFAS_060917.lcm	1x	☑	
2	0.01 ppb	17-OLC-01-59B	071717_107	PFAS_060917.lcm	1x	☑	
3	0.02 ppb	17-OLC-01-59C	071717_108	PFAS_060917.lcm	1x	☑	
4	0.05ppb	17-OLC-01-59D	071717_109	PFAS_060917.lcm	1x	☑	
5	0.1ppb	17-OLC-01-59E	071717_110	PFAS_060917.lcm	1x	☑	
6	0.25ppb	17-OLC-01-59F	071717_111	PFAS_060917.lcm	1x	☑	
7	0.50ppb	17-OLC-01-59G	071717_112	PFAS_060917.lcm	1x	☑	
8	1 ppb	17-OLC-01-59H	071717_113	PFAS_060917.lcm	1x	☑	
9	5 ppb	17-OLC-01-59I	071717_114	PFAS_060917.lcm	1x	☑	
10	10 ppb	17-OLC-01-59J	071717_115	PFAS_060917.lcm	1x	☑	
11	20 ppb	17-OLC-01-59K	071717_116	PFAS_060917.lcm	1x	☑	
12	IB	IB	071717_117	PFAS_060917.lcm	1x	☑	
13	1 ppb ICV	17-OLC-01-59N	071717_118	PFAS_060917.lcm	1x	☑	
14	IB	IB	071717_119	PFAS_060917.lcm	1x	☑	
15	1 ppb	17-OLC-01-66C	072617_129	PFAS_060917.lcm	1x	☑	
16	IB	IB	072617_130	PFAS_060917.lcm	1x	☑	
17	KQ1710167-03	MB	072617_131	PFAS_060917.lcm	1x	☑	
18	KQ1710167-01	LCS	072617_132	PFAS_060917.lcm	1x	☑	RR to confirm low %Rec: PFBA,PFDA,PFUNA
19	KQ1710167-02	DLCS	072617_133	PFAS_060917.lcm	1x	☑	RR to confirm low %Rec: PFBA,PFHxA,PFOA,PFNA,PFDA,PFUNA,PFDoA
20	K1707746-001		072617_134	PFAS_060917.lcm	1x	☑	
21	K1707746-002		072617_135	PFAS_060917.lcm	1x	☑	
22	K1707746-003		072617_136	PFAS_060917.lcm	1x	☑	
23	K1707746-004		072617_137	PFAS_060917.lcm	1x	☑	Dilution needed: PFBS,PFHxA,PFHpA,PFHxS,PFOA,PFHpS,PFOS
24	K1707746-005		072617_138	PFAS_060917.lcm	1x	☑	
25	K1707746-006		072617_139	PFAS_060917.lcm	1x	☑	
26	K1707746-007		072617_140	PFAS_060917.lcm	1x	☑	
27	K1707746-008		072617_141	PFAS_060917.lcm	1x	☑	
28	K1707746-009		072617_142	PFAS_060917.lcm	1x	☑	
29	K1707746-010		072617_143	PFAS_060917.lcm	1x	☑	
30	K1707746-011		072617_144	PFAS_060917.lcm	1x	☑	
31	K1707746-012		072617_145	PFAS_060917.lcm	1x	☑	
32	K1707746-013		072617_146	PFAS_060917.lcm	1x	☑	
33	K1707746-014		072617_147	PFAS_060917.lcm	1x	☑	
34	K1707746-015		072617_148	PFAS_060917.lcm	1x	☑	
35	K1707746-016		072617_149	PFAS_060917.lcm	1x	☑	RR to confirm hi bias: PFBA,PFHxA,PFNA,PFOS. Dilution needed: PFHxS,PFOA
36	K1707746-017		072617_150	PFAS_060917.lcm	1x	☑	
37	K1707746-018		072617_151	PFAS_060917.lcm	1x	☑	
38	K1707681-008		072617_152	PFAS_060917.lcm	1x	☑	Dilution needed: PFHxS

J:\LCMS06\Data\072617_b3\072617_b3 injection log

Validation Report

Data File: J:\LCMS06\Data\072617_b3\072617_129
Lab ID: KQ1710347-01
RunType: CCV
Matrix: Drinking Water

Date Acquired: 7/26/17 14:07
Batch ID: 555060
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Above Highest ICAL Level	X	

Primary Review: 7-27-17

Secondary Review: JUL 27 2017

Printed: 7/27/17 11:45
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072617_b3\072617_129	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 14:07	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1710347-01	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Drinking Water
Prod Code:	PFOA	**Collect Date:**	7/18/17	**Receive Date:**	7/22/17

Analysis Lot:	555060	**Prep Lot:**		**Report Group:**	KQ1710347
Analysis Method:	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700121
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.690	346685	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
13C4-PFBA	3.416	2189022	5.6386	Y
13C2-PFHxA	4.243	2777067	5.0956	Y
18O2-PFHxS	4.431	406895	5.0431	Y
13C2-6:2 FTS	4.596	468668	8.8819	Y
13C4-PFOA	4.607	3681293	5.2164	Y
13C5-PFNA	4.785	3123706	4.9317	Y
13C4-PFOS	4.770	453959	5.1541	Y
13C2-PFDA	4.973	2821847	5.3956	Y
13C2-PFUnDA	5.161	3242560	5.2087	Y
13C2-PFDoDA	5.344	3933145	4.9881	Y
D7-MeFOSE	5.663	361167	3.9716	Y
D9-EtFOSE	5.797	454426	4.1435	Y
D5-EtFOSA	5.829	452377	4.8281	Y
13C2-8:2 FTS	4.972	404178	8.5017	Y
13C2-PFTeDA	5.659	3058832	4.7969	Y
13C4-PFHpA	4.432	2719976	4.9489	Y
13C5-PFPeA	3.981	1016719	5.2963	Y
13C3-PFBS	4.029	641471	4.7359	Y
13C8-FOSA	5.304	1113718	4.6545	Y

Target Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
Perfluorobutanoic acid (PFBA)	3.417	488167	0.8664	Y
Perfluoropentanoic acid (PFPeA)	3.982	594255	0.8262	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 11:45
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072617_b3\072617_129	**Instrument:**	K-LCMS-06
Acqu Date:	7/26/17 14:07	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1710347-01	**Raw Units:**	ng/mL

Target Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.029	108767	1.0007	Y
Perfluorohexanoic acid (PFHxA)	4.244	478041	0.8581	Y
Perfluoroheptanoic acid (PFHpA)	4.432	547448	0.9161	Y
Perfluorohexane sulfonic acid (PFHxS)	4.430	88360	0.7826	Y
Perfluorooctanoic acid (PFOA)	4.607	840631	0.9034	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.598	74909	0.8450	Y
Perfluorononanoic acid (PFNA)	4.785	619796	0.9005	Y
Perfluorooctane sulfonic acid (PFOS)	4.770	55350	0.7517	Y
Perfluorodecanoic acid (PFDA)	4.974	613695	0.7941	Y
Perfluoroundecanoic acid (PFUnDA)	5.161	571394	0.7637	Y
Perfluorooctane sulfonamide (FOSA)	5.304	298507	0.8727	Y
Perfluorododecanoic acid (PFDoDA)	5.345	461084	0.8975	Y
Perfluorotridecanoic acid (PFTrDA)	5.510	603700	0.9920	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.693	88523	1.0094	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.671	138108	1.0882	Y
Perfluorotetradecanoic acid (PFTeDA)	5.659	303218	0.8420	Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.809	144358	1.0123	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.835	14955	0.8940	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.971	71466	0.9170	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.597	105094	0.8506	Y
Perfluorodecane sulfonic acid (PFDS)	5.135	78669	0.9054	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/27/17 11:45
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072617_129

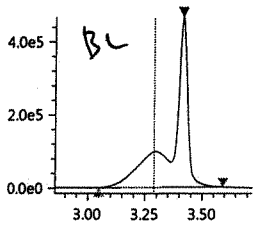
Sample ID: 1 ppb
Date acquired: 7/26/2017 2:07:05 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b3\072617_129.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 1

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.416	2189022	2189022	2	5.0000	ng/mL	5	100.00	M
PFBA-13C	3.416	2189022	346685	1	5.6386	ng/mL	5	112.77	M
PFBA	3.417	488167	2189022	2	0.8664	ng/mL	1	86.64	M
PFPeA-13C_IS	3.981	1016719	1016719	4	5.0000	ng/mL	5	100.00	Auto
PFPeA-13C	3.981	1016719	346685	1	5.2963	ng/mL	5	105.93	Auto
PFPeA	3.982	594255	1016719	4	0.8262	ng/mL	1	82.62	Auto
PFBS_1	4.029	108767	641471	16	1.0007	ng/mL	0.88737	112.77	Auto
PFBS-13C	4.029	641471	346685	1	4.7359	ng/mL	5	94.72	Auto
PFBS-13C_IS	4.029	641471	641471	16	5.0000	ng/mL	5	100.00	Auto
PFHxA-13C_IS	4.243	2777067	2777067	6	5.0000	ng/mL	5	100.00	Auto
PFHxA-13C	4.243	2777067	346685	1	5.0956	ng/mL	5	101.91	Auto
PFHxA	4.244	478041	2777067	6	0.8581	ng/mL	1	85.81	Auto
HPFO_DA	4.308	110564	666985	3	0.8714	ng/mL	1	87.14	Auto
HFPO_DA-13C_IS	4.309	666985	666985	3	5.0000	ng/mL	5	100.00	Auto
HFPO_DA-13C	4.309	666985	346685	1	4.9372	ng/mL	5	98.74	Auto
4_2-FTS-13C_IS	4.217	629201	629201	5	5.0000	ng/mL	5	100.00	Auto
4_2-FTS-13C	4.217	629201	346685	1	7.1464	ng/mL	5	142.93	Auto
4_2-FTS_1	4.217	138780	629201	5	0.8660	ng/mL	0.937218	92.40	Auto
PFHpA	4.432	547448	2719976	8	0.9161	ng/mL	1	91.61	Auto
PFHpA-13C_IS	4.432	2719976	2719976	8	5.0000	ng/mL	5	100.00	Auto
PFHpA-13C	4.432	2719976	346685	1	4.9489	ng/mL	5	98.98	Auto
PFHxS-18O_IS	4.431	406895	406895	7	5.0000	ng/mL	5	100.00	Auto
PFHxS-18O	4.431	406895	346685	1	5.0431	ng/mL	5	100.86	Auto
PFHxS_1	4.430	88360	406895	7	0.7826	ng/mL	0.913075	85.71	Auto
6_2-FTS-13C	4.596	468668	346685	1	8.8819	ng/mL	5	177.64	Auto
6_2-FTS-13C_IS	4.596	468668	468668	10	5.0000	ng/mL	5	100.00	Auto
6_2-FTS_1	4.597	105094	468668	10	0.8506	ng/mL	0.951168	89.43	Auto
PFHpS_1	4.598	74909	406895	7	0.8450	ng/mL	0.953438	88.62	Auto
PFOA-13C_IS	4.607	3681293	3681293	9	5.0000	ng/mL	5	100.00	Auto
PFOA-13C	4.607	3681293	346685	1	5.2164	ng/mL	5	104.33	Auto
PFOA	4.607	840631	3681293	9	0.9034	ng/mL	1	90.34	Auto
PFOS_1	4.770	55350	453959	13	0.7517	ng/mL	0.929229	80.90	Auto
PFOS-13C_IS	4.770	453959	453959	13	5.0000	ng/mL	5	100.00	Auto
PFOS-13C	4.770	453959	346685	1	5.1541	ng/mL	5	103.08	Auto
PFNA-13C_IS	4.785	3123706	3123706	11	5.0000	ng/mL	5	100.00	Auto
PFNA-13C	4.785	3123706	346685	1	4.9317	ng/mL	5	98.63	Auto
PFNA	4.785	619796	3123706	11	0.9005	ng/mL	1	90.05	Auto
PFDA-13C_IS	4.973	2821847	2821847	12	5.0000	ng/mL	5	100.00	Auto
PFDA-13C	4.973	2821847	346685	1	5.3956	ng/mL	5	107.91	Auto
PFDA	4.974	613695	2821847	12	0.7941	ng/mL	1	79.41	Auto
8_2-FTS-13C_IS	4.972	404178	404178	15	5.0000	ng/mL	5	100.00	Auto
8_2-FTS-13C	4.972	404178	346685	1	8.5017	ng/mL	5	170.03	Auto
8_2-FTS_1	4.971	71466	404178	15	0.9170	ng/mL	0.960045	95.52	Auto
PFDS_1	5.135	78669	453959	13	0.9054	ng/mL	0.964667	93.86	Auto
PFUnA	5.161	571394	3242560	14	0.7637	ng/mL	1	76.37	Auto
PFUnA-13C_IS	5.161	3242560	3242560	14	5.0000	ng/mL	5	100.00	Auto
PFUnA-13C	5.161	3242560	346685	1	5.2087	ng/mL	5	104.17	Auto
PFDoA	5.345	461084	3933145	17	0.8975	ng/mL	1	89.75	Auto
PFDoA-13C	5.344	3933145	346685	1	4.9881	ng/mL	5	99.76	Auto
PFDoA-13C_IS	5.344	3933145	3933145	17	5.0000	ng/mL	5	100.00	Auto
10_2-FtS_1	5.352	69166	404178	15	0.9050	ng/mL	0.966191	93.67	Auto
PFTrDA	5.510	603700	3058832	22	0.9920	ng/mL	1	99.20	Auto
PFTeDA	5.659	303218	3058832	22	0.8420	ng/mL	1	84.20	Auto
PFTeDA-13C	5.659	3058832	346685	1	4.7969	ng/mL	5	95.94	Auto
PFTeDA-13C_IS	5.659	3058832	3058832	22	5.0000	ng/mL	5	100.00	Auto
FOSA-13C_IS	5.304	1113718	1113718	18	5.0000	ng/mL	5	100.00	Auto
FOSA-13C	5.304	1113718	346685	1	4.6545	ng/mL	5	93.09	Auto
FOSA	5.304	298507	1113718	18	0.8727	ng/mL	1	87.27	Auto
N-MeFOSAA	5.081	121329	787185	19	0.9622	ng/mL	1	96.22	Auto
N-MeFOSAA-d3	5.078	787185	346685	1	5.0800	ng/mL	5	101.60	Auto
N-MeFOSAA-d3_IS	5.078	787185	787185	19	5.0000	ng/mL	5	100.00	Auto
N-MeFOSA_IS	5.690	346685	346685	1	5.0000	ng/mL	5	100.00	Auto
N-MeFOSA	5.693	88523	361167	20	1.0094	ng/mL	1	100.94	Auto
N-MeFOSE-d7	5.663	361167	346685	1	3.9716	ng/mL	5	79.43	Auto
N-MeFOSE-d7_IS	5.663	361167	361167	20	5.0000	ng/mL	5	100.00	Auto
N-MeFOSE	5.671	138108	361167	20	1.0882	ng/mL	1	108.82	Auto
N-EtFOSAA	5.184	130487	702670	21	1.1004	ng/mL	1	110.04	Auto

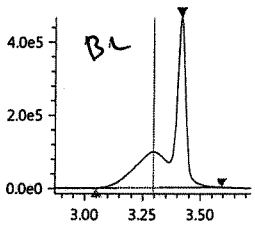
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.178	702670	702670	21	5.0000	ng/mL	5	100.00	Auto
N-EtFOSAA-d5	5.178	702670	346685	1	4.9986	ng/mL	5	99.97	Auto
N-EtFOSA-d9_IS	5.829	452377	452377	23	5.0000	ng/mL	5	100.00	Auto
N-EtFOSA-d9	5.829	452377	346685	1	4.8281	ng/mL	5	96.56	Auto
N-EtFOSA	5.835	14955	452377	23	0.8940	ng/mL	1	89.40	M
N-EtFOSE-d9_IS	5.797	454426	454426	24	5.0000	ng/mL	5	100.00	Auto
N-EtFOSE-d9	5.797	454426	346685	1	4.1435	ng/mL	5	82.87	Auto
N-EtFOSE	5.809	144358	454426	24	1.0123	ng/mL	1	101.23	Auto

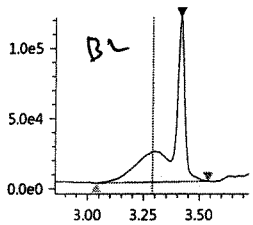
PFBA-13C_IS
Conc 5.0000
RT 3.416 Area 2189022
ISTD 216.90>172.15 4.68e5



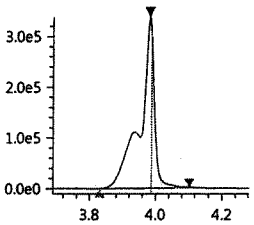
PFBA-13C
Conc 5.6386
RT 3.416 Area 2189022
Q 216.90>172.15 4.68e5



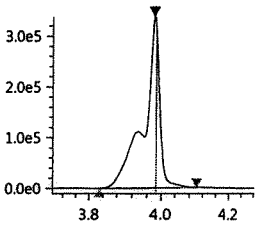
PFBA
Conc 0.8664
RT 3.417 Area 488167
Q 213.00>169.10 1.22e5



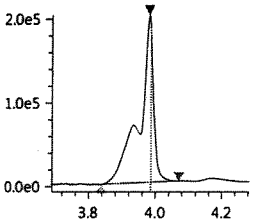
PFPeA-13C_IS
Conc 5.0000
RT 3.981 Area 1016719
ISTD 267.90>223.00 3.38e5



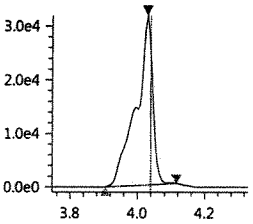
PFPeA-13C
Conc 5.2963
RT 3.981 Area 1016719
Q 267.90>223.00 3.38e5



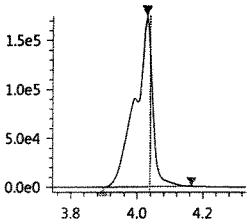
PFPeA
Conc 0.8262
RT 3.982 Area 594255
Q 263.05>219.10 2.05e5



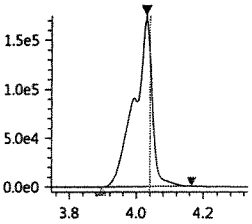
PFBS_1
Conc 1.0007
RT 4.029 Area 108767
Q 299.00>80.00 3.20e4



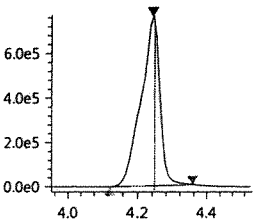
PFBS-13C
Conc 4.7359
RT 4.029 Area 641471
Q 301.80>80.00 1.75e5



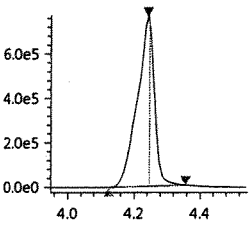
PFBS-13C_IS
Conc 5.0000
RT 4.029 Area 641471
ISTD 301.80>80.00 1.75e5



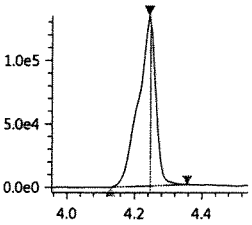
PFHxA-13C_IS
Conc 5.0000
RT 4.243 Area 2777067
ISTD 314.90>270.10 7.72e5



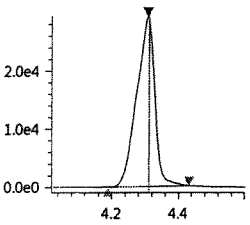
PFHxA-13C
Conc 5.0956
RT 4.243 Area 2777067
Q 314.90>270.10 7.72e5



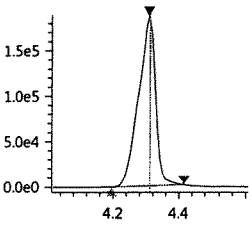
PFHxA
Conc 0.8581
RT 4.244 Area 478041
Q 313.00>269.00 1.35e5



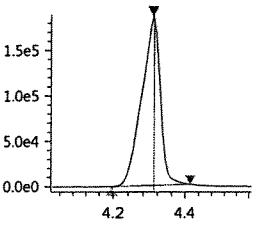
HPFO_DA
Conc 0.8714
RT 4.308 Area 110564
Q 329.00>169.00 2.95e4



HFPO_DA-13C_IS
Conc 5.0000
RT 4.309 Area 666985
ISTD 332.00>286.80 1.89e5

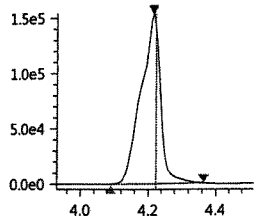


HFPO_DA-13C
Conc 4.9372
RT 4.309 Area 666985
Q 332.00>286.80 1.89e5

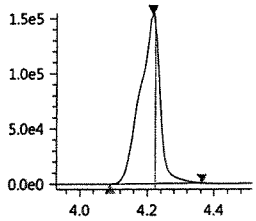


JUL 2 7 2017

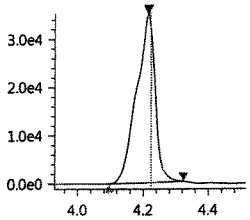
4_2-FTS-13C_IS
Conc 5.0000
RT 4.217 Area 629201
ISTD 328.80>309.05 1.55e5



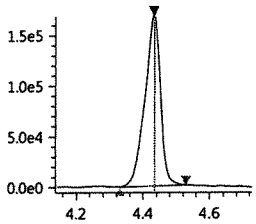
4_2-FTS-13C
Conc 7.1464
RT 4.217 Area 629201
Q 328.80>309.05 1.55e5



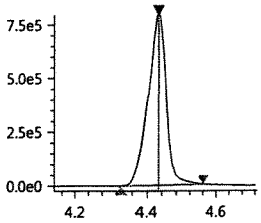
4_2-FTS_1
Conc 0.8660
RT 4.217 Area 138780
Q 327.00>307.05 3.54e4



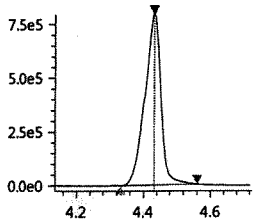
PFHpA
Conc 0.9161
RT 4.432 Area 547448
Q 362.90>319.00 1.69e5



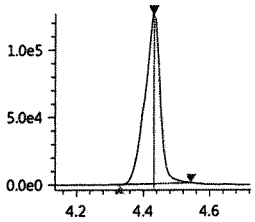
PFHpA-13C_IS
Conc 5.0000
RT 4.432 Area 2719976
ISTD 366.90>322.10 7.96e5



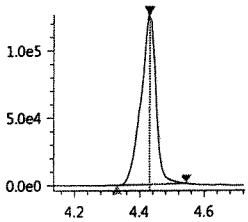
PFHpA-13C
Conc 4.9489
RT 4.432 Area 2719976
Q 366.90>322.10 7.96e5



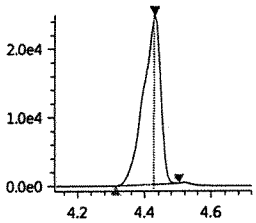
PFHxS-18O_IS
Conc 5.0000
RT 4.431 Area 406895
ISTD 402.70>84.05 1.27e5



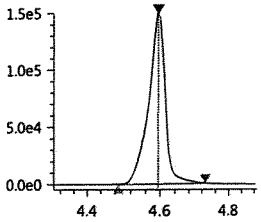
PFHxS-18O
Conc 5.0431
RT 4.431 Area 406895
Q 402.70>84.05 1.27e5



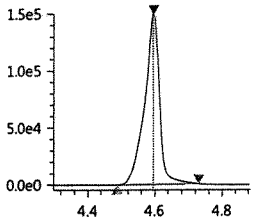
PFHxS_1
Conc 0.7826
RT 4.430 Area 88360
Q 399.00>80.00 2.50e4



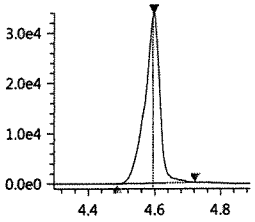
6_2-FTS-13C
Conc 8.8819
RT 4.596 Area 468668
Q 428.90>409.00 1.50e5



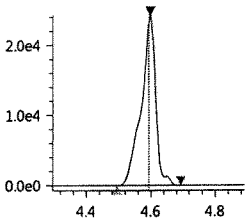
6_2-FTS-13C_IS
Conc 5.0000
RT 4.596 Area 468668
ISTD 428.90>409.00 1.50e5



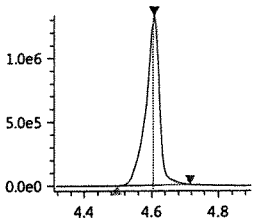
6_2-FTS_1
Conc 0.8506
RT 4.597 Area 105094
Q 427.00>407.00 3.41e4



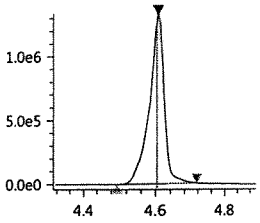
PFHpS_1
Conc 0.8450
RT 4.598 Area 74909
Q 449.00>80.15 2.44e4



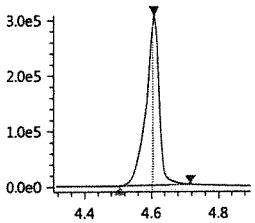
PFOA-13C_IS
Conc 5.0000
RT 4.607 Area 3681293
ISTD 416.80>372.05 1.34e6



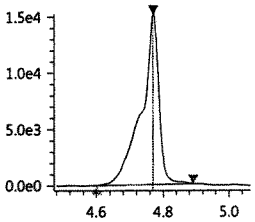
PFOA-13C
Conc 5.2164
RT 4.607 Area 3681293
Q 416.80>372.05 1.34e6



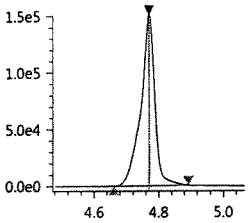
PFOA
Conc 0.9034
RT 4.607 Area 840631
Q 413.00>369.00 3.09e5



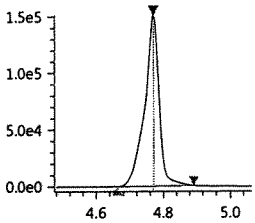
PFOS_1
Conc 0.7517
RT 4.770 Area 55350
Q 499.00>80.00 1.52e4



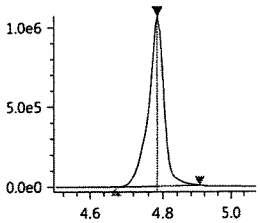
PFOS-13C_IS
Conc 5.0000
RT 4.770 Area 453959
ISTD 502.80>80.05 1.51e5



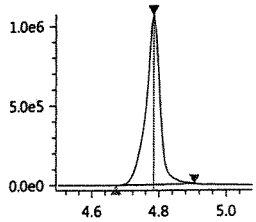
PFOS-13C
Conc 5.1541
RT 4.770 Area 453959
Q 502.80>80.05 1.51e5



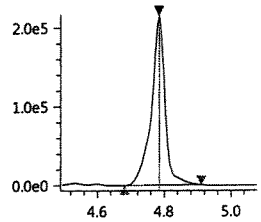
PFNA-13C_IS
Conc 5.0000
RT 4.785 Area 3123706
ISTD 467.80>423.00 1.08e6



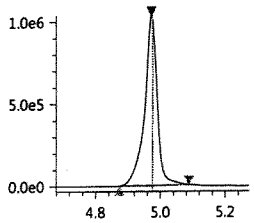
PFNA-13C
Conc 4.9317
RT 4.785 Area 3123706
Q 467.80>423.00 1.08e6



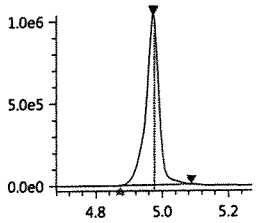
PFNA
Conc 0.9005
RT 4.785 Area 619796
Q 463.00>418.90 2.17e5



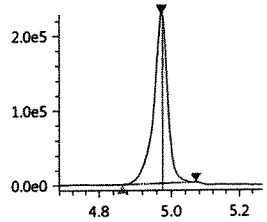
PFDA-13C_IS
Conc 5.0000
RT 4.973 Area 2821847
ISTD 514.80>469.95 1.04e6



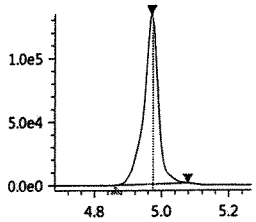
PFDA-13C
Conc 5.3956
RT 4.973 Area 2821847
Q 514.80>469.95 1.04e6



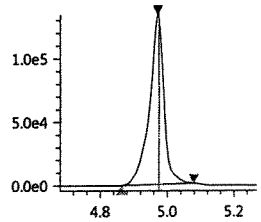
PFDA
Conc 0.7941
RT 4.974 Area 613695
Q 513.00>468.80 2.29e5



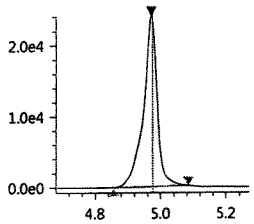
8_2-FTS-13C_IS
Conc 5.0000
RT 4.972 Area 404178
ISTD 528.80>509.00 1.35e5



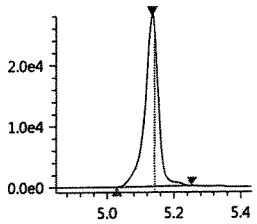
8_2-FTS-13C
Conc 8.5017
RT 4.972 Area 404178
Q 528.80>509.00 1.35e5



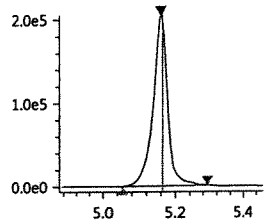
8_2-FTS_1
Conc 0.9170
RT 4.971 Area 71466
Q 526.90>506.90 2.41e4



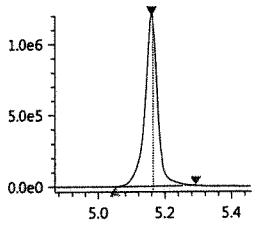
PFDS_1
Conc 0.9054
RT 5.135 Area 78669
Q 599.00>79.90 2.81e4



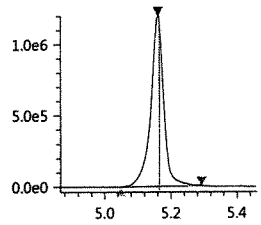
PFUnA
Conc 0.7637
RT 5.161 Area 571394
Q 563.00>518.90 2.06e5



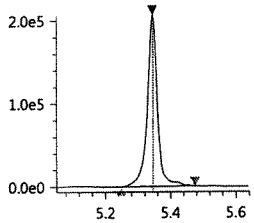
PFUnA-13C_IS
Conc 5.0000
RT 5.161 Area 3242560
ISTD 564.80>519.95 1.20e6



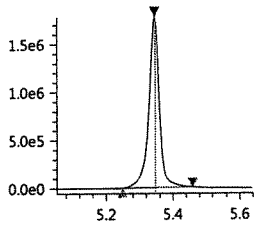
PFUnA-13C
Conc 5.2087
RT 5.161 Area 3242560
Q 564.80>519.95 1.20e6



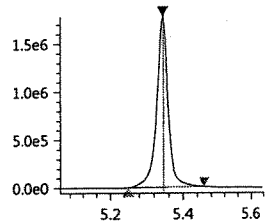
PFDoA
Conc 0.8975
RT 5.345 Area 461084
Q 613.05>569.00 2.06e5



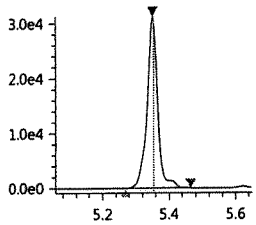
PFDoA-13C
Conc 4.9881
RT 5.344 Area 3933145
Q 614.80>569.95 1.79e6



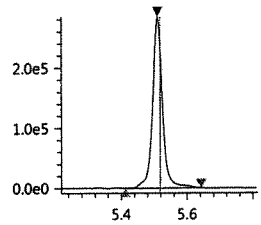
PFDoA-13C_IS
Conc 5.0000
RT 5.344 Area 3933145
ISTD 614.80>569.95 1.79e6



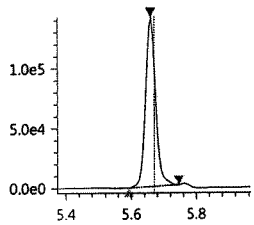
10_2-FtS_1
Conc 0.9050
RT 5.352 Area 69166
Q 627.00>606.95 3.12e4



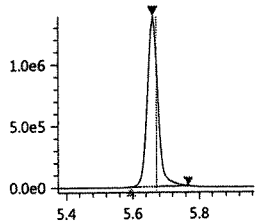
PFTrDA
Conc 0.9920
RT 5.510 Area 603700
Q 663.00>618.90 2.85e5



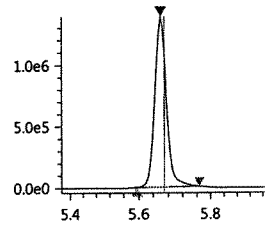
PFTeDA
Conc 0.8420
RT 5.659 Area 303218
Q 713.40>669.00 1.43e5



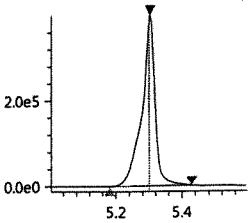
PFTeDA-13C
Conc 4.7969
RT 5.659 Area 3058832
Q 714.70>669.90 1.39e6



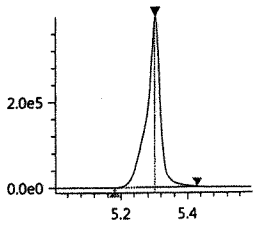
PFTeDA-13C_IS
Conc 5.0000
RT 5.659 Area 3058832
ISTD 714.70>669.90 1.39e6



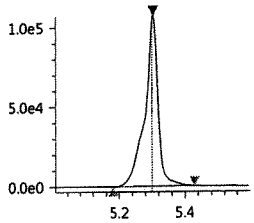
FOSA-13C_IS
Conc 5.0000
RT 5.304 Area 1113718
ISTD 506.00>78.05 4.00e5



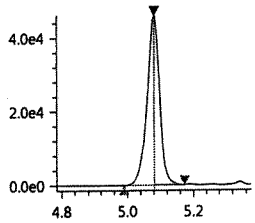
FOSA-13C
Conc 4.6545
RT 5.304 Area 1113718
Q 506.00>78.05 4.00e5



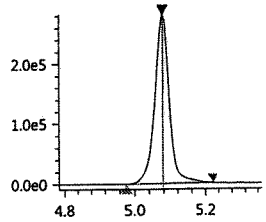
FOSA
Conc 0.8727
RT 5.304 Area 298507
Q 498.00>78.00 1.07e5



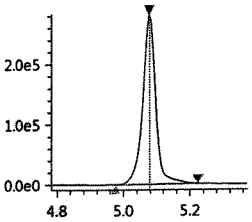
N-MeFOSAA
Conc 0.9622
RT 5.081 Area 121329
Q 570.20>419.00 4.62e4



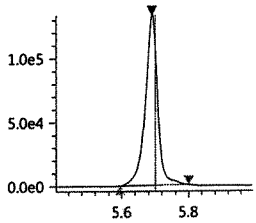
N-MeFOSAA-d3
Conc 5.0800
RT 5.078 Area 787185
Q 572.80>419.05 2.84e5



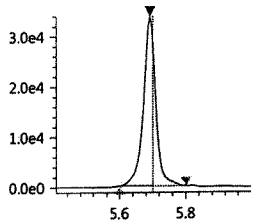
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.078 Area 787185
ISTD 572.80>419.05 2.84e5



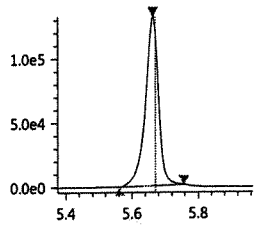
N-MeFOSA_IS
Conc 5.0000
RT 5.690 Area 346685
ISTD 514.90>168.90 1.34e5



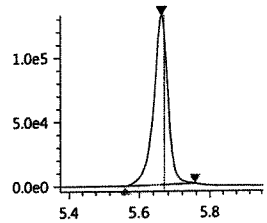
N-MeFOSA
Conc 1.0094
RT 5.693 Area 88523
Q 512.00>169.10 3.40e4



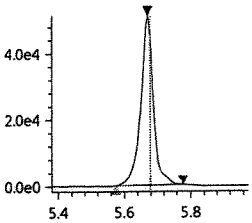
N-MeFOSE-d7
Conc 3.9716
RT 5.663 Area 361167
Q 622.70>59.10 1.33e5



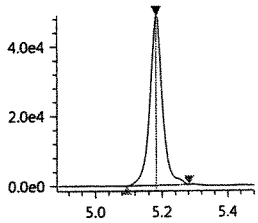
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.663 Area 361167
ISTD 622.70>59.10 1.33e5



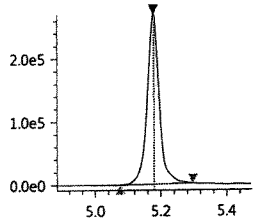
N-MeFOSE
Conc 1.0882
RT 5.671 Area 138108
Q 616.00>59.00 5.16e4



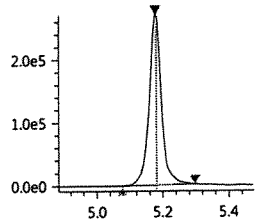
N-EtFOSAA
Conc 1.1004
RT 5.184 Area 130487
Q 584.20>418.95 4.92e4



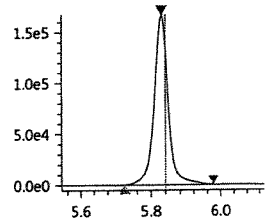
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.178 Area 702670
ISTD 588.80>419.00 2.71e5



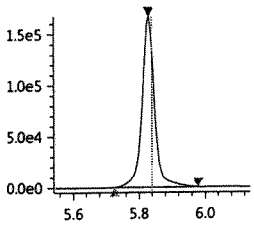
N-EtFOSAA-d5
Conc 4.9986
RT 5.178 Area 702670
Q 588.80>419.00 2.71e5



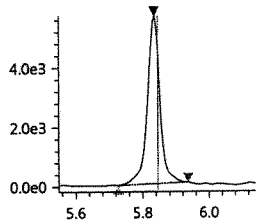
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.829 Area 452377
ISTD 530.90>169.15 1.68e5



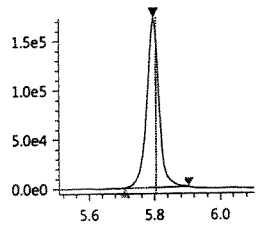
N-EtFOSA-d9
Conc 4.8281
RT 5.829 Area 452377
Q 530.90>169.15 1.68e5



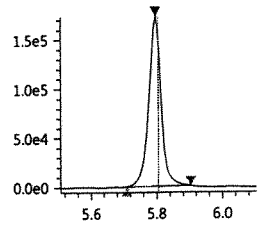
N-EtFOSA
Conc 0.8940
RT 5.835 Area 14955
Q 526.90>169.10 5.76e3



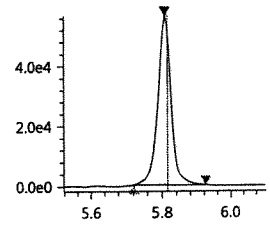
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.797 Area 454426
ISTD 638.70>59.10 1.74e5



N-EtFOSE-d9
Conc 4.1435
RT 5.797 Area 454426
Q 638.70>59.10 1.74e5



N-EtFOSE
Conc 1.0123
RT 5.809 Area 144358
Q 630.00>58.90 5.69e4



Insight Report

072617_129 B4

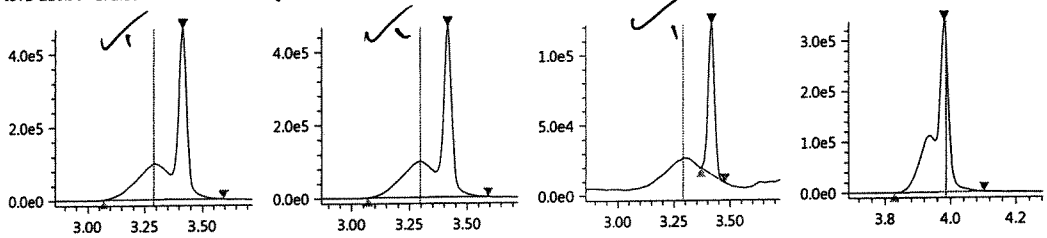
Sample ID: 1 ppb
Date acquired: 7/26/2017 2:07:05 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b3\072617_129.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 1

PFBA-13C_IS
Conc 5.0000
RT 3.416 Area 2170943
ISTD 216.90>172.15 4.68e5

PFBA-13C
Conc 5.5920
RT 3.416 Area 2170943
Q 216.90>172.15 4.68e5

PFBA
Conc 0.3767
RT 3.417 Area 210478
Q 213.00>169.10 1.22e5

PFPeA-13C_IS
Conc 5.0000
RT 3.981 Area 1016719
ISTD 267.90>223.00 3.38e5



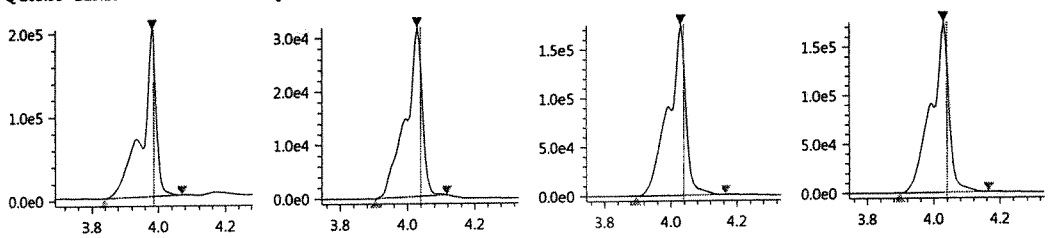
PFPeA-13C
Conc 5.2963
RT 3.981 Area 1016719
Q 267.90>223.00 3.38e5

PFPeA
Conc 0.8262
RT 3.982 Area 594255
Q 263.05>219.10 2.05e5

PFBS_1
Conc 1.0007
RT 4.029 Area 108767
Q 299.00>80.00 3.20e4

PFBS-13C
Conc 4.7359
RT 4.029 Area 641471
Q 301.80>80.00 1.75e5

PFBS-13C_IS
Conc 5.0000
RT 4.029 Area 641471
ISTD 301.80>80.00 1.75e5



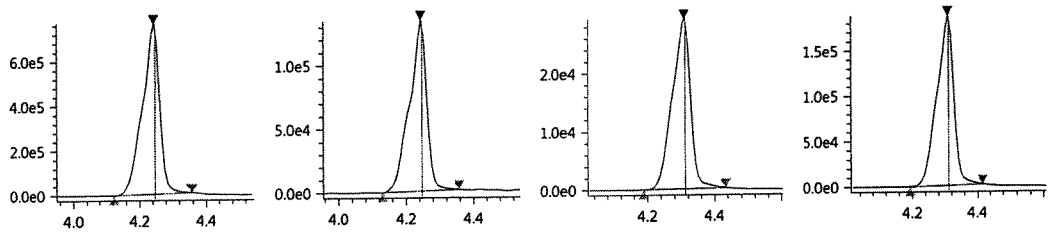
PFHxA-13C_IS
Conc 5.0000
RT 4.243 Area 2777067
ISTD 314.90>270.10 7.72e5

PFHxA-13C
Conc 5.0956
RT 4.243 Area 2777067
Q 314.90>270.10 7.72e5

PFHxA
Conc 0.8581
RT 4.244 Area 478041
Q 313.00>269.00 1.35e5

HPFO_DA
Conc 0.8714
RT 4.308 Area 110564
Q 329.00>169.00 2.95e4

HFPO_DA-13C_IS
Conc 5.0000
RT 4.309 Area 666985
ISTD 332.00>286.80 1.89e5



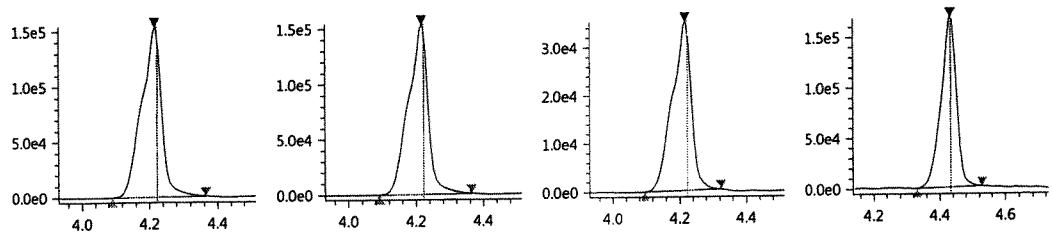
HFPO_DA-13C
Conc 4.9372
RT 4.309 Area 666985
Q 332.00>286.80 1.89e5

4_2-FTS-13C_IS
Conc 5.0000
RT 4.217 Area 629201
ISTD 328.80>309.05 1.55e5

4_2-FTS-13C
Conc 7.1464
RT 4.217 Area 629201
Q 328.80>309.05 1.55e5

4_2-FTS_1
Conc 0.8660
RT 4.217 Area 138780
Q 327.00>307.05 3.54e4

PFHpA
Conc 0.9161
RT 4.432 Area 547448
Q 362.90>319.00 1.69e5



PFHpA-13C_IS
Conc 5.0000
RT 4.432 Area 2719976
ISTD 366.90>322.10 7.96e5

Insight Report

Printed at 7/27/2017 11:05:48 AM

072617_130

Sample ID: IB
Date acquired: 7/26/2017 2:17:31 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b3\072617_130.lcd
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 1

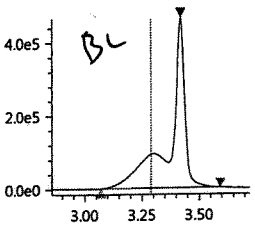
Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.421	2133643	2133643	2	5.0000	ng/mL	----	----	M
PFBA-13C	3.421	2133643	375650	1	5.0722	ng/mL	----	----	M
PFBA	----	----	----	2	----	ng/mL	----	----	ND(W/B)
PFPeA-13C_IS	3.985	1016158	1016158	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.985	1016158	375650	1	4.8852	ng/mL	----	----	Auto
PFPeA	3.986	70610	1016158	4	0.0259	ng/mL	----	----	Auto
PFBS_1	----	----	----	16	----	ng/mL	----	----	ND(W/B)
PFBS-13C	4.033	650612	375650	1	4.4330	ng/mL	----	----	Auto
PFBS-13C_IS	4.033	650612	650612	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.246	2888364	2888364	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.246	2888364	375650	1	4.8912	ng/mL	----	----	Auto
PFHxA	4.224	12313	2888364	6	-0.0157	ng/mL	----	----	M
HPFO_DA	----	----	----	3	----	ng/mL	----	----	ND(W/B)
HFPO_DA-13C_IS	4.312	659486	659486	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.312	659486	375650	1	4.5053	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.221	663521	663521	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.221	663521	375650	1	6.9551	ng/mL	----	----	Auto
4_2-FTS_1	4.228	268	663521	5	0.0016	ng/mL	----	----	Auto
PFHpA	4.436	20319	2779731	8	0.0333	ng/mL	----	----	M
PFHpA-13C_IS	4.436	2779731	2779731	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.436	2779731	375650	1	4.6677	ng/mL	----	----	Auto
PFHxS-18O_IS	4.433	355887	355887	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.433	355887	375650	1	4.0708	ng/mL	----	----	Auto
PFHxS_1	4.438	690	355887	7	0.0070	ng/mL	----	----	Auto
6_2-FTS-13C	4.600	446851	375650	1	7.8155	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.600	446851	446851	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	4.606	122	446851	10	0.0010	ng/mL	----	----	Auto
PFHpS_1	----	----	----	7	----	ng/mL	----	----	ND(W/B)
PFOA-13C_IS	4.611	3688944	3688944	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.611	3688944	375650	1	4.8242	ng/mL	----	----	Auto
PFOA	4.598	19788	3688944	9	0.0212	ng/mL	----	----	Auto
PFOS_1	----	----	----	13	----	ng/mL	----	----	NI
PFOS-13C_IS	4.774	429636	429636	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.774	429636	375650	1	4.5018	ng/mL	----	----	Auto
PFNA-13C_IS	4.789	3234023	3234023	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.789	3234023	375650	1	4.7122	ng/mL	----	----	Auto
PFNA	4.768	8856	3234023	11	0.0124	ng/mL	----	----	Auto
PFDA-13C_IS	4.977	2755571	2755571	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.977	2755571	375650	1	4.8626	ng/mL	----	----	Auto
PFDA	4.964	9135	2755571	12	0.0121	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.976	405853	405853	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.976	405853	375650	1	7.8787	ng/mL	----	----	Auto
8_2-FTS_1	----	----	----	15	----	ng/mL	----	----	NI
PFDS_1	----	----	----	13	----	ng/mL	----	----	ND(W/B)
PFUnA	5.158	17387	3229414	14	0.0233	ng/mL	----	----	Auto
PFUnA-13C_IS	5.165	3229414	3229414	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.165	3229414	375650	1	4.7876	ng/mL	----	----	Auto
PFDoA	5.339	8205	3901914	17	0.0161	ng/mL	----	----	M
PFDoA-13C	5.348	3901914	375650	1	4.5669	ng/mL	----	----	Auto
PFDoA-13C_IS	5.348	3901914	3901914	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	----	----	----	15	----	ng/mL	----	----	ND(W/B)
PFTrDA	5.509	7294	3085839	22	0.0119	ng/mL	----	----	Auto
PFTeDA	5.664	29282	3085839	22	-0.0008	ng/mL	----	----	Auto
PFTeDA-13C	5.663	3085839	375650	1	4.4661	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.663	3085839	3085839	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.307	1124379	1124379	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.307	1124379	375650	1	4.3368	ng/mL	----	----	Auto
FOSA	5.309	1231	1124379	18	0.0036	ng/mL	----	----	Auto
N-MeFOSAA	----	----	----	19	----	ng/mL	----	----	NI
N-MeFOSAA-d3	5.083	793764	375650	1	4.7274	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.083	793764	793764	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.693	375650	375650	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.702	986	382288	20	0.0106	ng/mL	----	----	M
N-MeFOSE-d7	5.666	382288	375650	1	3.8797	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.666	382288	382288	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	----	----	----	20	----	ng/mL	----	----	NI
N-EtFOSAA	----	----	----	21	----	ng/mL	----	----	ND(W/B)

Insight Report

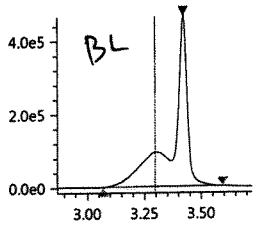
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.182	688888	688888	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.182	688888	375650	1	4.5227	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.832	441993	441993	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.832	441993	375650	1	4.3535	ng/mL	----	----	Auto
N-EtFOSA	----	----	----	23	----	ng/mL	----	----	NI
N-EtFOSE-d9_IS	5.799	457109	457109	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.799	457109	375650	1	3.8466	ng/mL	----	----	Auto
N-EtFOSE	----	----	----	24	----	ng/mL	----	----	NI

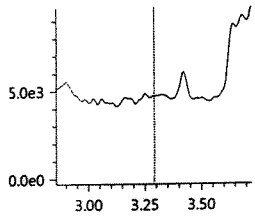
PFBA-13C_IS
Conc 5.0000
RT 3.421 Area 2133643
ISTD 216.90>172.15 4.67e5



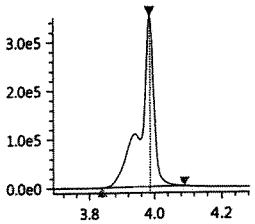
PFBA-13C
Conc 5.0722
RT 3.421 Area 2133643
Q 216.90>172.15 4.67e5



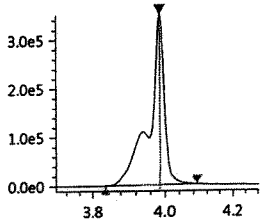
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 9.77e3



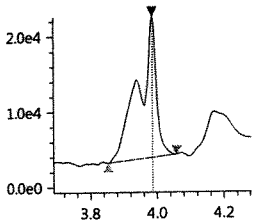
PFPeA-13C_IS
Conc 5.0000
RT 3.985 Area 1016158
ISTD 267.90>223.00 3.52e5



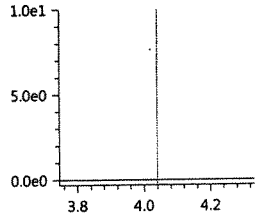
PFPeA-13C
Conc 4.8852
RT 3.985 Area 1016158
Q 267.90>223.00 3.52e5



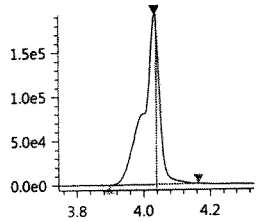
PFPeA
Conc 0.0259
RT 3.986 Area 70610
Q 263.05>219.10 2.26e4



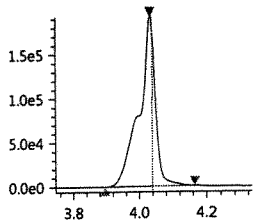
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 0.00e0



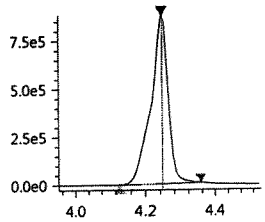
PFBS-13C
Conc 4.4330
RT 4.033 Area 650612
Q 301.80>80.00 1.93e5



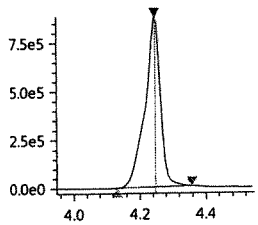
PFBS-13C_IS
Conc 5.0000
RT 4.033 Area 650612
ISTD 301.80>80.00 1.93e5



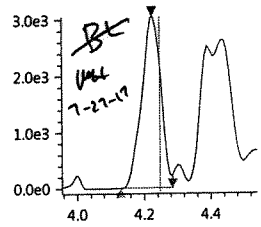
PFHxA-13C_IS
Conc 5.0000
RT 4.246 Area 2888364
ISTD 314.90>270.10 8.86e5



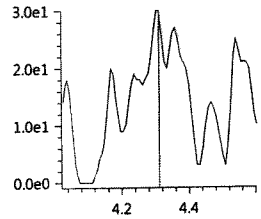
PFHxA-13C
Conc 4.8912
RT 4.246 Area 2888364
Q 314.90>270.10 8.86e5



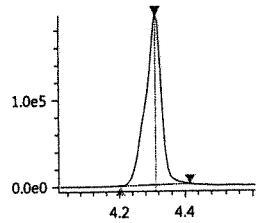
PFHxA
Conc -0.0157
RT 4.224 Area 12313
Q 313.00>269.00 3.06e3



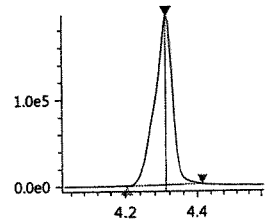
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 3.00e1



HFPO_DA-13C_IS
Conc 5.0000
RT 4.312 Area 659486
ISTD 332.00>286.80 1.98e5

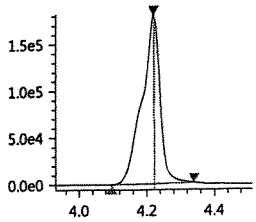


HFPO_DA-13C
Conc 4.5053
RT 4.312 Area 659486
Q 332.00>286.80 1.98e5

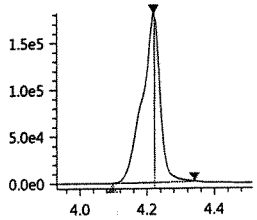


JUL 27 2017

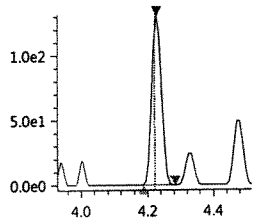
4_2-FTS-13C_IS
Conc 5.0000
RT 4.221 Area 663521
ISTD 328.80>309.05 1.83e5



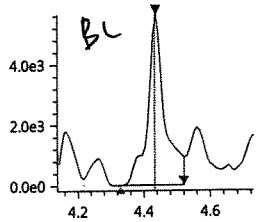
4_2-FTS-13C
Conc 6.9551
RT 4.221 Area 663521
Q 328.80>309.05 1.83e5



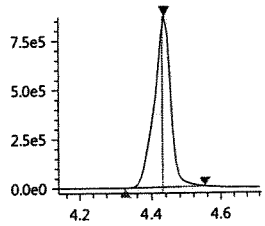
4_2-FTS_1
Conc 0.0016
RT 4.228 Area 268
Q 327.00>307.05 1.32e2



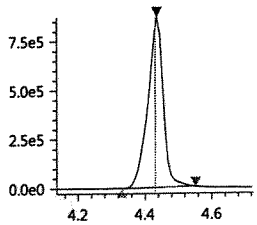
PFHpA
Conc 0.0333
RT 4.436 Area 20319
Q 362.90>319.00 5.67e3



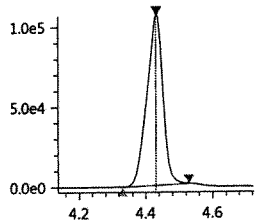
PFHpA-13C_IS
Conc 5.0000
RT 4.436 Area 2779731
ISTD 366.90>322.10 8.72e5



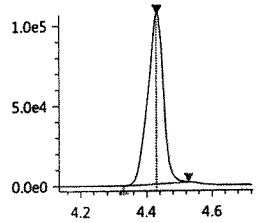
PFHpA-13C
Conc 4.6677
RT 4.436 Area 2779731
Q 366.90>322.10 8.72e5



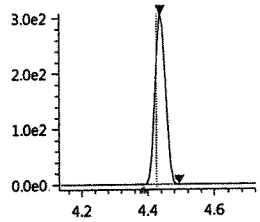
PFHxS-18O_IS
Conc 5.0000
RT 4.433 Area 355887
ISTD 402.70>84.05 1.07e5



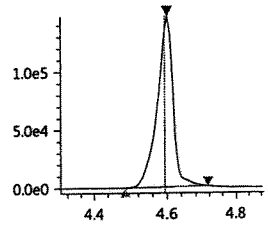
PFHxS-18O
Conc 4.0708
RT 4.433 Area 355887
Q 402.70>84.05 1.07e5



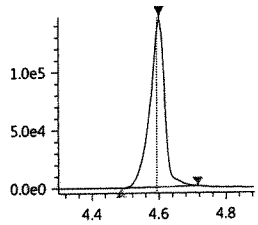
PFHxS_1
Conc 0.0070
RT 4.438 Area 690
Q 399.00>80.00 3.09e2



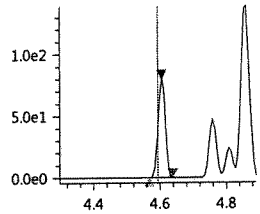
6_2-FTS-13C
Conc 7.8155
RT 4.600 Area 446851
Q 428.90>409.00 1.48e5



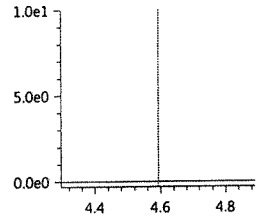
6_2-FTS-13C_IS
Conc 5.0000
RT 4.600 Area 446851
ISTD 428.90>409.00 1.48e5



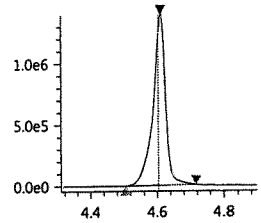
6_2-FTS_1
Conc 0.0010
RT 4.606 Area 122
Q 427.00>407.00 1.39e2



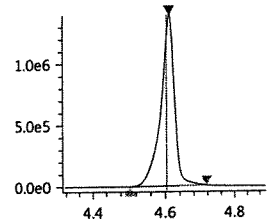
PFHpS_1
Conc ----
RT ---- Area ----
Q 449.00>80.15 0.00e0



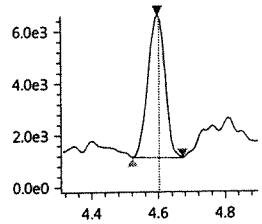
PFOA-13C_IS
Conc 5.0000
RT 4.611 Area 3688944
ISTD 416.80>372.05 1.40e6



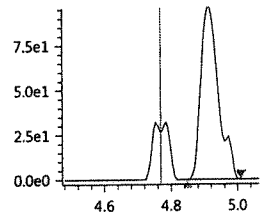
PFOA-13C
Conc 4.8242
RT 4.611 Area 3688944
Q 416.80>372.05 1.40e6



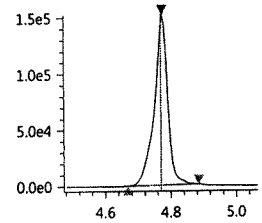
PFOA
Conc 0.0212
RT 4.598 Area 19788
Q 413.00>369.00 6.60e3



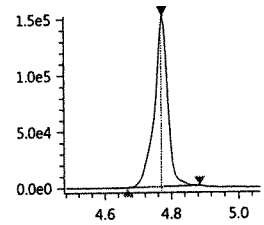
PFOS_1
Conc ----
RT ---- Area ----
Q 499.00>80.00 9.60e1



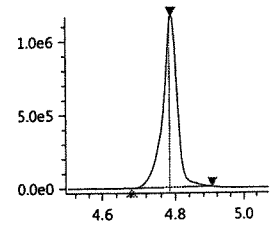
PFOS-13C_IS
Conc 5.0000
RT 4.774 Area 429636
ISTD 502.80>80.05 1.53e5



PFOS-13C
Conc 4.5018
RT 4.774 Area 429636
Q 502.80>80.05 1.53e5



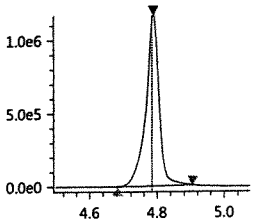
PFNA-13C_IS
Conc 5.0000
RT 4.789 Area 3234023
ISTD 467.80>423.00 1.17e6



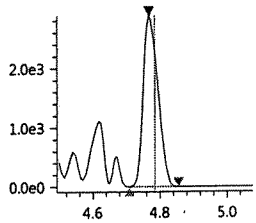
JUL 2 7 2017

Insight Report

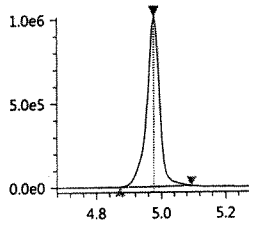
PFNA-13C
Conc 4.7122
RT 4.789 Area 3234023
Q 467.80>423.00 1.17e6



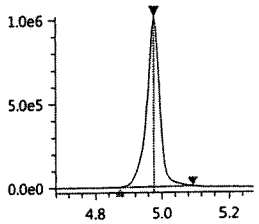
PFNA
Conc 0.0124
RT 4.768 Area 8856
Q 463.00>418.90 2.89e3



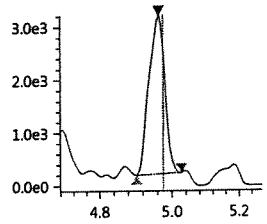
PFDA-13C_IS
Conc 5.0000
RT 4.977 Area 2755571
ISTD 514.80>469.95 1.02e6



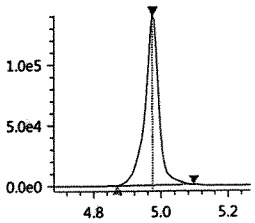
PFDA-13C
Conc 4.8626
RT 4.977 Area 2755571
Q 514.80>469.95 1.02e6



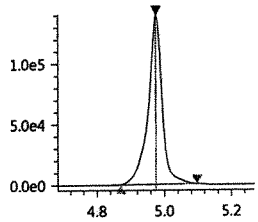
PFDA
Conc 0.0121
RT 4.964 Area 9135
Q 513.00>468.80 3.23e3



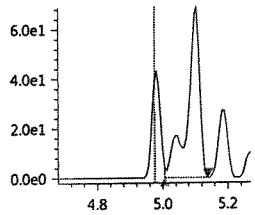
8_2-FTS-13C_IS
Conc 5.0000
RT 4.976 Area 405853
ISTD 528.80>509.00 1.41e5



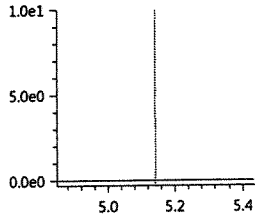
8_2-FTS-13C
Conc 7.8787
RT 4.976 Area 405853
Q 528.80>509.00 1.41e5



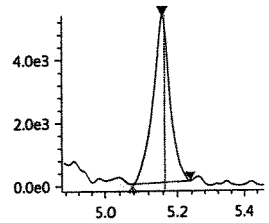
8_2-FTS_1
Conc ----
RT ---- Area ----
Q 526.90>506.90 6.90e1



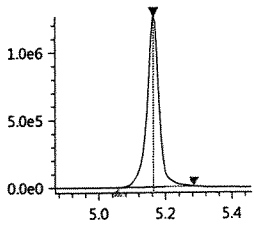
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 0.00e0



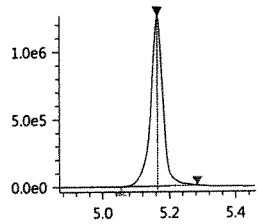
PFUnA
Conc 0.0233
RT 5.158 Area 17387
Q 563.00>518.90 5.41e3



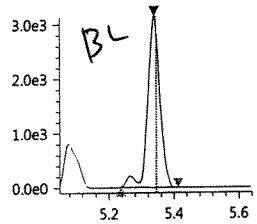
PFUnA-13C_IS
Conc 5.0000
RT 5.165 Area 3229414
ISTD 564.80>519.95 1.27e6



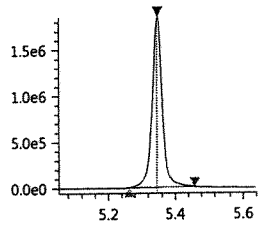
PFUnA-13C
Conc 4.7876
RT 5.165 Area 3229414
Q 564.80>519.95 1.27e6



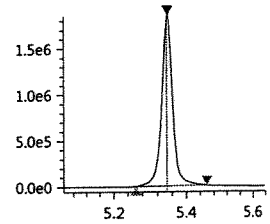
PFDoA
Conc 0.0161
RT 5.339 Area 8205
Q 613.05>569.00 3.15e3



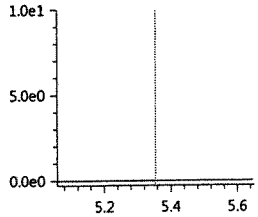
PFDoA-13C
Conc 4.5669
RT 5.348 Area 3901914
Q 614.80>569.95 1.86e6



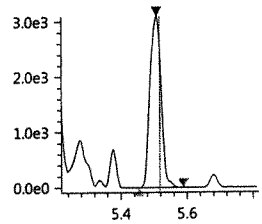
PFDoA-13C_IS
Conc 5.0000
RT 5.348 Area 3901914
ISTD 614.80>569.95 1.86e6



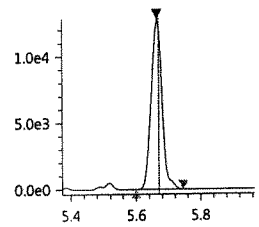
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



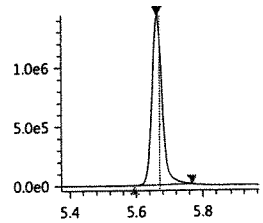
PFTrDA
Conc 0.0119
RT 5.509 Area 7294
Q 663.00>618.90 3.09e3



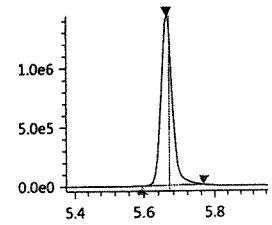
PFTeDA
Conc -0.0008
RT 5.664 Area 29282
Q 713.40>669.00 1.29e4



PFTeDA-13C
Conc 4.4661
RT 5.663 Area 3085839
Q 714.70>669.90 1.44e6

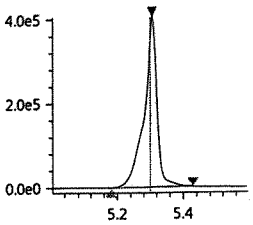


PFTeDA-13C_IS
Conc 5.0000
RT 5.663 Area 3085839
ISTD 714.70>669.90 1.44e6

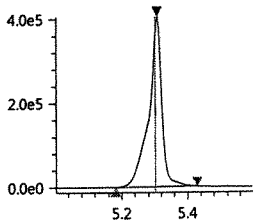


JUL 27 2017

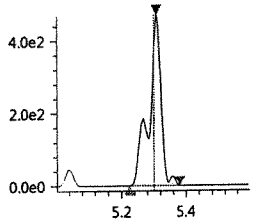
FOSA-13C_IS
Conc 5.0000
RT 5.307 Area 1124379
ISTD 506.00>78.05 4.05e5



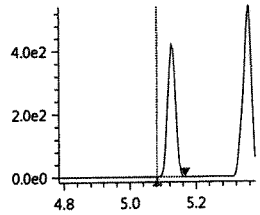
FOSA-13C
Conc 4.3368
RT 5.307 Area 1124379
Q 506.00>78.05 4.05e5



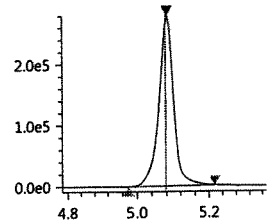
FOSA
Conc 0.0036
RT 5.309 Area 1231
Q 498.00>78.00 4.71e2



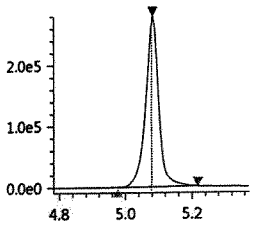
N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 5.42e2



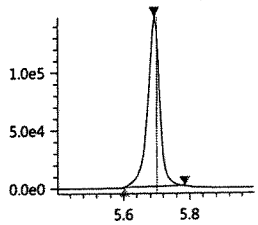
N-MeFOSAA-d3
Conc 4.7274
RT 5.083 Area 793764
Q 572.80>419.05 2.80e5



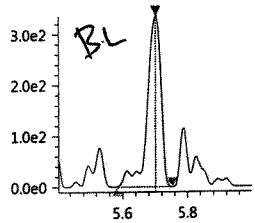
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.083 Area 793764
ISTD 572.80>419.05 2.80e5



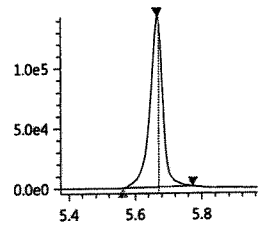
N-MeFOSA_IS
Conc 5.0000
RT 5.693 Area 375650
ISTD 514.90>168.90 1.48e5



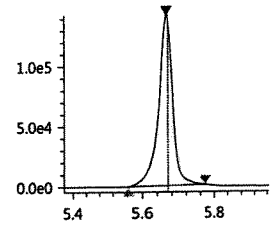
N-MeFOSA
Conc 0.0106
RT 5.702 Area 986
Q 512.00>169.10 3.37e2



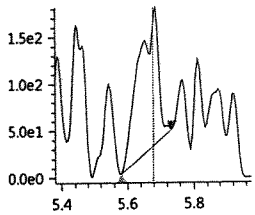
N-MeFOSE-d7
Conc 3.8797
RT 5.666 Area 382288
Q 622.70>59.10 1.43e5



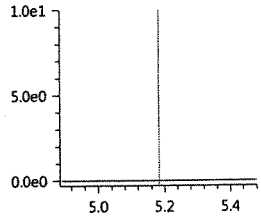
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.666 Area 382288
ISTD 622.70>59.10 1.43e5



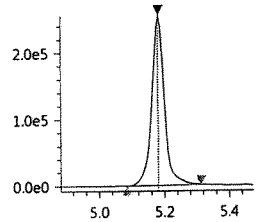
N-MeFOSE
Conc ----
RT ---- Area ----
Q 616.00>59.00 1.82e2



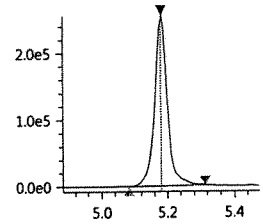
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 0.00e0



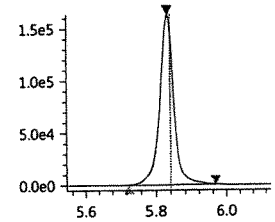
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.182 Area 688888
ISTD 588.80>419.00 2.56e5



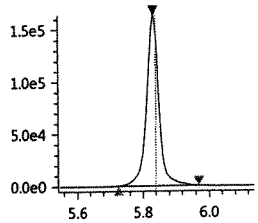
N-EtFOSAA-d5
Conc 4.5227
RT 5.182 Area 688888
Q 588.80>419.00 2.56e5



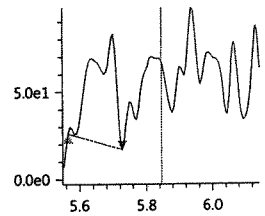
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.832 Area 441993
ISTD 530.90>169.15 1.64e5



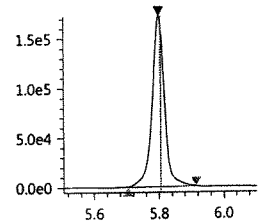
N-EtFOSA-d9
Conc 4.3535
RT 5.832 Area 441993
Q 530.90>169.15 1.64e5



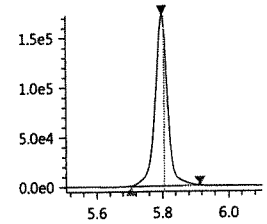
N-EtFOSA
Conc ----
RT ---- Area ----
Q 526.90>169.10 9.80e1



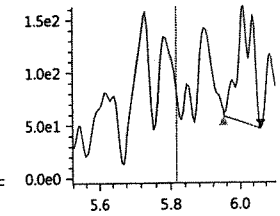
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.799 Area 457109
ISTD 638.70>59.10 1.73e5



N-EtFOSE-d9
Conc 3.8466
RT 5.799 Area 457109
Q 638.70>59.10 1.73e5



N-EtFOSE
Conc ----
RT ---- Area ----
Q 630.00>58.90 1.63e2



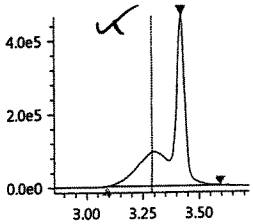
JUL 27 2017

Insight Report

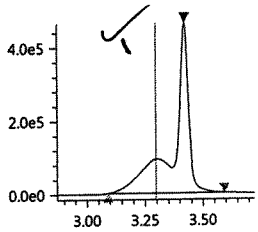
072617_130 B4

Sample ID: IB
Date acquired: 7/26/2017 2:17:31 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072617_b3\072617_130.lcd
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 1

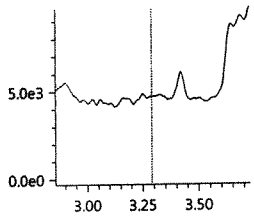
PFBA-13C_IS
Conc 5.0000
RT 3.421 Area 2106191
ISTD 216.90>172.15 4.67e5



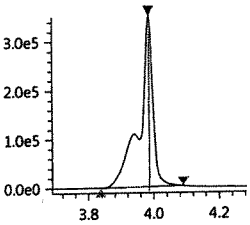
PFBA-13C
Conc 5.0069
RT 3.421 Area 2106191
Q 216.90>172.15 4.67e5



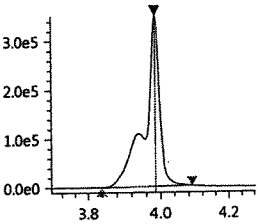
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 9.77e3



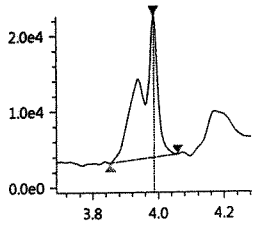
PFPeA-13C_IS
Conc 5.0000
RT 3.985 Area 1016158
ISTD 267.90>223.00 3.52e5



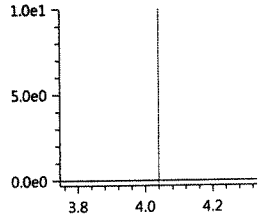
PFPeA-13C
Conc 4.8852
RT 3.985 Area 1016158
Q 267.90>223.00 3.52e5



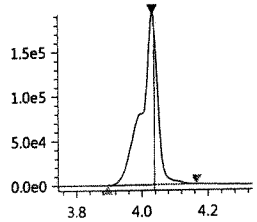
PFPeA
Conc 0.0259
RT 3.986 Area 70610
Q 263.05>219.10 2.26e4



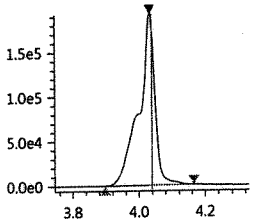
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 0.00e0



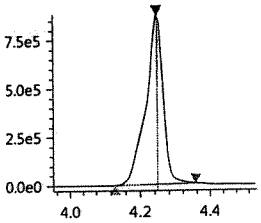
PFBS-13C
Conc 4.4330
RT 4.033 Area 650612
Q 301.80>80.00 1.93e5



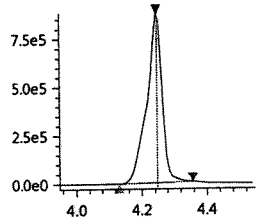
PFBS-13C_IS
Conc 5.0000
RT 4.033 Area 650612
ISTD 301.80>80.00 1.93e5



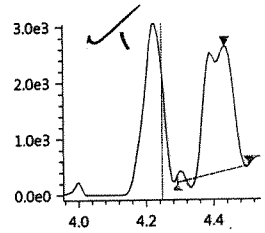
PFHxA-13C_IS
Conc 5.0000
RT 4.246 Area 2888364
ISTD 314.90>270.10 8.86e5



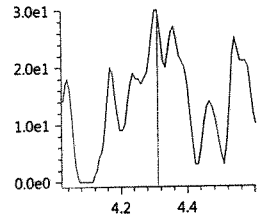
PFHxA-13C
Conc 4.8912
RT 4.246 Area 2888364
Q 314.90>270.10 8.86e5



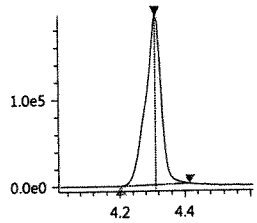
PFHxA
Conc -0.0152
RT 4.435 Area 12590
Q 313.00>269.00 3.06e3



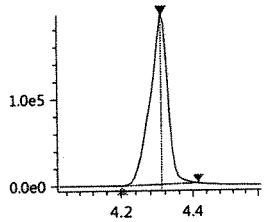
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 3.00e1



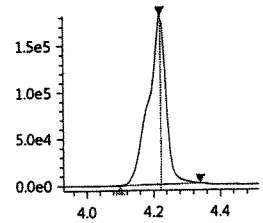
HFPO_DA-13C_IS
Conc 5.0000
RT 4.312 Area 659486
ISTD 332.00>286.80 1.98e5



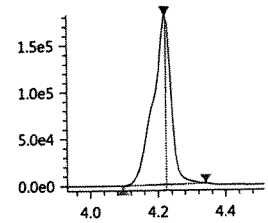
HFPO_DA-13C
Conc 4.5053
RT 4.312 Area 659486
Q 332.00>286.80 1.98e5



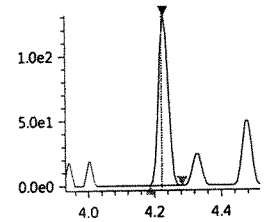
4_2-FTS-13C_IS
Conc 5.0000
RT 4.221 Area 663521
ISTD 328.80>309.05 1.83e5



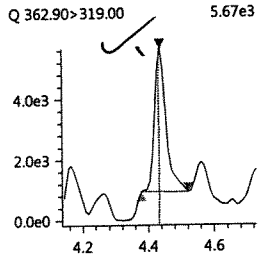
4_2-FTS-13C
Conc 6.9551
RT 4.221 Area 663521
Q 328.80>309.05 1.83e5



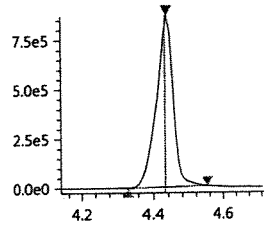
4_2-FTS_1
Conc 0.0016
RT 4.228 Area 268
Q 327.00>307.05 1.32e2



PFHpA
Conc 0.0190
RT 4.436 Area 11599
Q 362.90>319.00 5.67e3

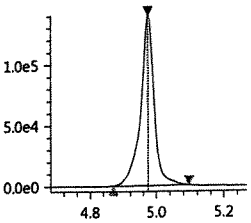


PFHpA-13C_IS
Conc 5.0000
RT 4.436 Area 2779731
ISTD 366.90>322.10 8.72e5

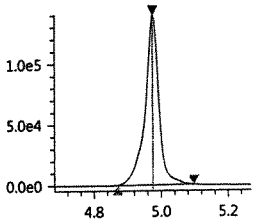


JUL 27 2017

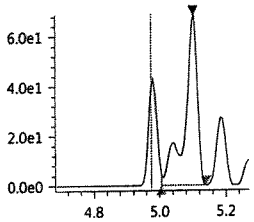
8_2-FTS-13C_IS
Conc 5.0000
RT 4.976 Area 405853
ISTD 528.80>509.00 1.41e5



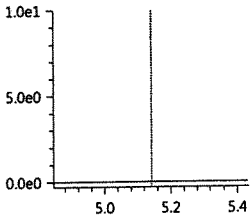
8_2-FTS-13C
Conc 7.8787
RT 4.976 Area 405853
Q 528.80>509.00 1.41e5



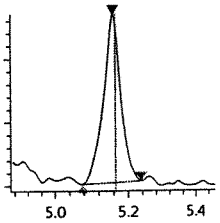
8_2-FTS_1
Conc 0.0023
RT 5.102 Area 184
Q 526.90>506.90 6.90e1



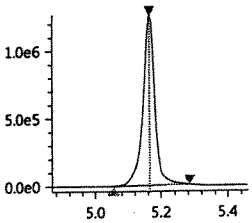
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 0.00e0



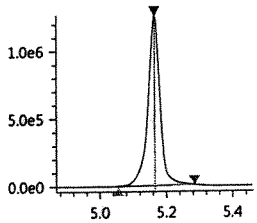
PFUnA
Conc 0.0233
RT 5.158 Area 17387
Q 563.00>518.90 5.41e3



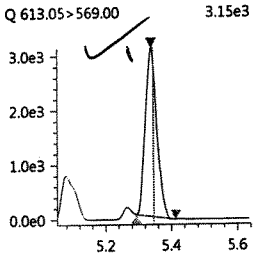
PFUnA-13C_IS
Conc 5.0000
RT 5.165 Area 3229414
ISTD 564.80>519.95 1.27e6



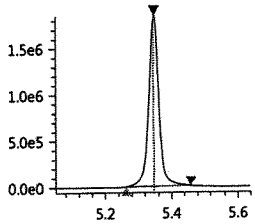
PFUnA-13C
Conc 4.7876
RT 5.165 Area 3229414
Q 564.80>519.95 1.27e6



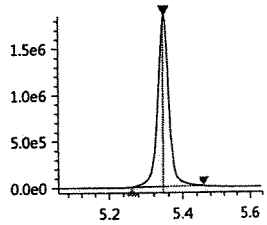
PFDoA
Conc 0.0147
RT 5.339 Area 7492
Q 613.05>569.00 3.15e3



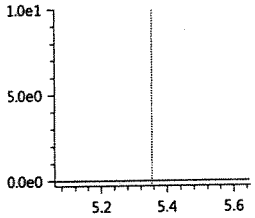
PFDoA-13C
Conc 4.5669
RT 5.348 Area 3901914
Q 614.80>569.95 1.86e6



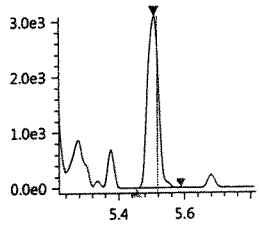
PFDoA-13C_IS
Conc 5.0000
RT 5.348 Area 3901914
ISTD 614.80>569.95 1.86e6



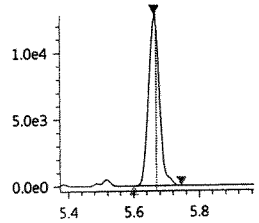
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



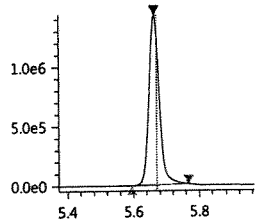
PFTrDA
Conc 0.0119
RT 5.509 Area 7294
Q 663.00>618.90 3.09e3



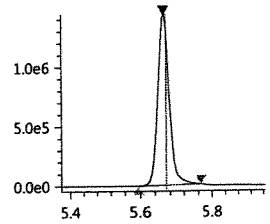
PFTeDA
Conc -0.0008
RT 5.664 Area 29282
Q 713.40>669.00 1.29e4



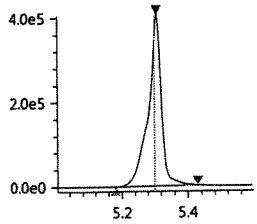
PFTeDA-13C
Conc 4.4661
RT 5.663 Area 3085839
Q 714.70>669.90 1.44e6



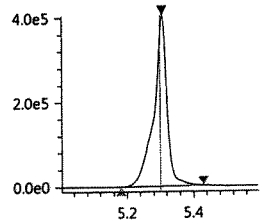
PFTeDA-13C_IS
Conc 5.0000
RT 5.663 Area 3085839
ISTD 714.70>669.90 1.44e6



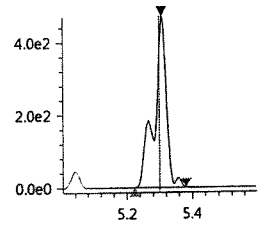
FOSA-13C_IS
Conc 5.0000
RT 5.307 Area 1124379
ISTD 506.00>78.05 4.05e5



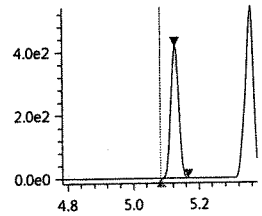
FOSA-13C
Conc 4.3368
RT 5.307 Area 1124379
Q 506.00>78.05 4.05e5



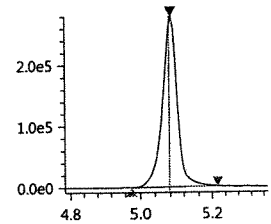
FOSA
Conc 0.0036
RT 5.309 Area 1231
Q 498.00>78.00 4.71e2



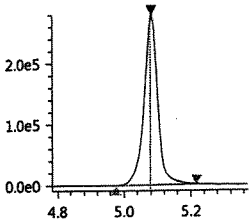
N-MeFOSAA
Conc 0.0057
RT 5.127 Area 729
Q 570.20>419.00 5.42e2



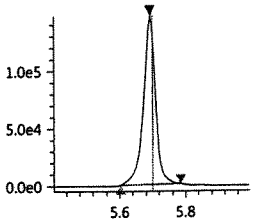
N-MeFOSAA-d3
Conc 4.7274
RT 5.083 Area 793764
Q 572.80>419.05 2.80e5



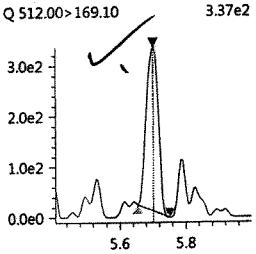
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.083 Area 793764
ISTD 572.80>419.05 2.80e5



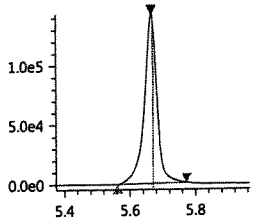
N-MeFOSA_IS
Conc 5.0000
RT 5.693 Area 375650
ISTD 514.90>168.90 1.48e5



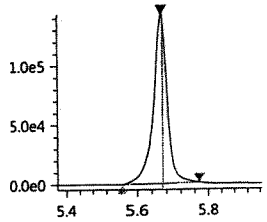
N-MeFOSA
Conc 0.0089
RT 5.702 Area 823
Q 512.00>169.10 3.37e2



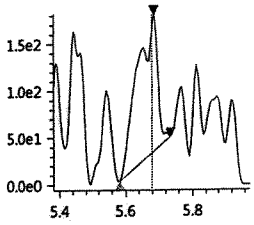
N-MeFOSE-d7
Conc 3.8797
RT 5.666 Area 382288
Q 622.70>59.10 1.43e5



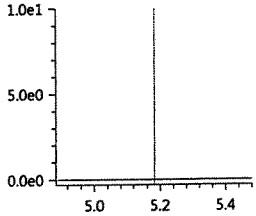
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.666 Area 382288
ISTD 622.70>59.10 1.43e5



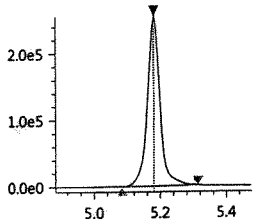
N-MeFOSE
Conc 0.0048
RT 5.685 Area 640
Q 616.00>59.00 1.82e2



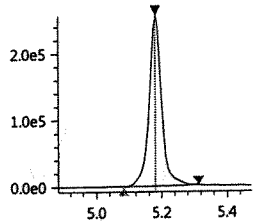
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 0.00e0



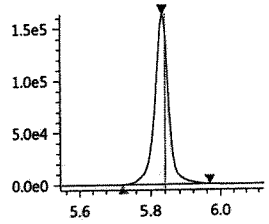
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.182 Area 688888
ISTD 588.80>419.00 2.56e5



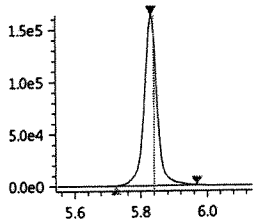
N-EtFOSAA-d5
Conc 4.5227
RT 5.182 Area 688888
Q 588.80>419.00 2.56e5



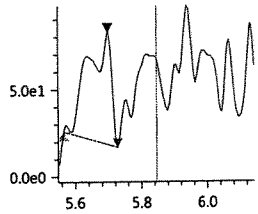
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.832 Area 441993
ISTD 530.90>169.15 1.64e5



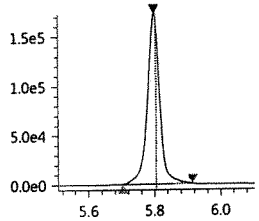
N-EtFOSA-d9
Conc 4.3535
RT 5.832 Area 441993
Q 530.90>169.15 1.64e5



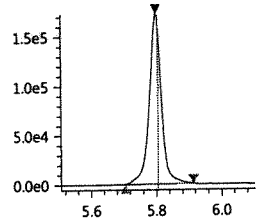
N-EtFOSA
Conc 0.0187
RT 5.698 Area 306
Q 526.90>169.10 9.80e1



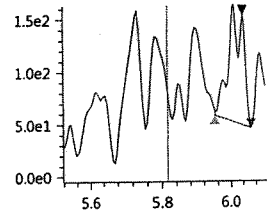
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.799 Area 457109
ISTD 638.70>59.10 1.73e5



N-EtFOSE-d9
Conc 3.8466
RT 5.799 Area 457109
Q 638.70>59.10 1.73e5



N-EtFOSE
Conc 0.0025
RT 6.039 Area 364
Q 630.00>58.90 1.63e2



7/28/2017_b1

ALS Environmental

Injection Log

LCMS06 -Shimadzu 8050

ICAL Date:	7/28/2017		
Cal. Std. xp:	12/27/17, ICV 12/01/17		
ICAL ID:	**KC1700134**		
LIMS ID:	555465		

1st Review: Justine Tennant

2nd Review: JUL 28 2017

Column: Phenomenx EVO-C18 100X4.6 mm S/N: H17-159040

Mobile Phases **A:** 5mM Ammonium Acetate in H2O 17-OLC-01-68B + 17-OLC-01-71C **B:** 5mM Ammonium Acetate In MeOH 17-OLC-01-68A + 17-OLC-01-71B

	Sample Name		File Name	Acquisition Method	Dilution	R	Comments
1	IB	IB	072817_106	PFAS_060917.lcm	1x	☑	Passes LAB QAP only for PFHpS.
2	0.01 ppb	17-OLC-01-73C	072817_107	PFAS_060917.lcm	1x	☑	Passes LAB QAP only for PFHpS.
3	0.02 ppb	17-OLC-01-73D	072817_108	PFAS_060917.lcm	1x	☑	Passes LAB QAP only for PFHpS.
4	0.05ppb	17-OLC-01-73E	072817_109	PFAS_060917.lcm	1x	☑	Passes LAB QAP only for PFHpS.
5	0.1ppb	17-OLC-01-73F	072817_110	PFAS_060917.lcm	1x	☑	Passes LAB QAP only for PFHpS.
6	0.25ppb	17-OLC-01-73G	072817_111	PFAS_060917.lcm	1x	☑	Passes LAB QAP only for PFHpS.
7	0.50ppb	17-OLC-01-73H	072817_112	PFAS_060917.lcm	1x	☑	Passes LAB QAP only for PFHpS.
8	1 ppb	17-OLC-01-73I	072817_113	PFAS_060917.lcm	1x	☑	Passes LAB QAP only for PFHpS.
9	5 ppb	17-OLC-01-73J	072817_114	PFAS_060917.lcm	1x	☑	Passes LAB QAP only for PFHpS.
10	10 ppb	17-OLC-01-73K	072817_115	PFAS_060917.lcm	1x	☑	Passes LAB QAP only for PFHpS.
11	20 ppb	17-OLC-01-73L	072817_116	PFAS_060917.lcm	1x	☑	Passes LAB QAP only for PFHpS.
12	IB	IB	072817_117	PFAS_060917.lcm	1x	☑	Passes LAB QAP only for PFHpS.
13	1 ppb ICV	17-OLC-01-73M	072817_118	PFAS_060917.lcm	1x	☑	Passes LAB QAP only for PFHpS.
14	IB	IB	072817_119	PFAS_060917.lcm	1x	☑	
15	1ppb T-PFOA	17-OLC-01-73O	072817_120	PFAS_060917.lcm	1x	☑	
16	KQ1710166-01	LCS	072817_121	PFAS_060917.lcm	1x	☑	Report PFHxS/PFHxS surr and PFDS only.
17	KQ1710166-02	DLCS	072817_122	PFAS_060917.lcm	1x	☑	Report PFHxS/PFHxS surr, 6:2/6:2 surr and PFDS only. Narrate slight low bias NEtFOSA, 6:2 and PFDS.
18	KQ1710337-03	MB	072817_123	PFAS_060917.lcm	1x	☑	Low rec PFHpA, PFBS surr-narrate interim limits.
19	KQ1710337-01	LCS	072817_124	PFAS_060917.lcm	1x	☑	Low rec PFHpA, PFBS surr. High rec PFBS, PFHpA, PFOA, PFNA natives-RR to confirm.
20	KQ1710337-02	DLCS	072817_125	PFAS_060917.lcm	1x	☑	Low rec PFBS surr-narrate, native OK. High rec PFHpA native-RR to confirm.
21	K1707748-001		072817_126	PFAS_060917.lcm	1x	☑	Low rec PFBS surr-narrate, interim limits.
22	K1707805-001		072817_127	PFAS_060917.lcm	1x	☑	Low rec PFBS surr-narrate, interim limits.
23	K1707805-002		072817_128	PFAS_060917.lcm	1x	☑	Low rec PFBS surr-narrate, interim limits.

Validation Report

Data File: J:\LCMS06\Data\072817_b1\072817_118
Lab ID: KQ1710463-01
RunType: CCV
Matrix: Water

Date Acquired: 7/28/17 11:46
Batch ID: 555465
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Above Highest ICAL Level	X	

Primary Review: JT 7/28/17

Secondary Review: JUL 28 2017

Printed: 7/28/17 15:12
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072817_b1\072817_118	**Instrument:**	K-LCMS-06
Acqu Date:	7/28/17 11:46	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1710463-01	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	V	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	7/19/17	**Receive Date:**	7/22/17

Analysis Lot:	555465	**Prep Lot:**		**Report Group:**	KQ1710463
Analysis Method:	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.681	353464	5.0000	NA

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
13C4-PFBA	3.408	2177840	4.9719	Y
13C2-PFHxA	4.232	2878490	4.9199	Y
18O2-PFHxS	4.420	394596	4.8224	Y
13C2-6:2 FTS	4.583	221684	4.3719	Y
13C4-PFOA	4.594	3435543	4.9772	Y
13C5-PFNA	4.774	3425520	5.0305	Y
13C4-PFOS	4.759	454109	4.8495	Y
13C2-PFDA	4.961	3070991	5.1408	Y
13C2-PFUnDA	5.148	3508242	5.3026	Y
13C2-PFDoDA	5.333	4286066	5.0577	Y
D7-MeFOSE	5.654	375890	5.2670	Y
D9-EtFOSE	5.789	388356	5.2292	Y
D5-EtFOSA	5.820	485043	5.0682	Y
13C2-8:2 FTS	4.959	252116	5.0704	Y
13C2-PFTeDA	5.650	3040281	5.2428	Y
13C4-PFHpA	4.422	2845870	5.3115	Y
13C5-PFPeA	3.971	967572	4.9301	Y
13C3-PFBS	4.021	623208	4.9148	Y
13C8-FOSA	5.291	1164241	4.9590	Y

Target Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
Perfluorobutanoic acid (PFBA)	3.408	440766	0.9552	Y
Perfluoropentanoic acid (PFPeA)	3.971	565857	0.9886	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/28/17 14:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072817_b1\072817_118	**Instrument:**	K-LCMS-06
Acqu Date:	7/28/17 11:46	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1710463-01	**Raw Units:**	ng/mL

Target Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.020	103070	0.9415	Y
Perfluorohexanoic acid (PFHxA)	4.231	468345	0.9713	Y
Perfluoroheptanoic acid (PFHpA)	4.422	578511	1.0368	Y
Perfluorohexane sulfonic acid (PFHxS)	4.417	80089	0.8328	Y
Perfluorooctanoic acid (PFOA)	4.594	687587	0.8943	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.585	71892	1.0291	Y
Perfluorononanoic acid (PFNA)	4.774	581166	1.0054	Y
Perfluorooctane sulfonic acid (PFOS)	4.759	60007	0.8785	Y
Perfluorodecanoic acid (PFDA)	4.961	617993	0.9020	Y
Perfluoroundecanoic acid (PFUnDA)	5.148	610798	0.9854	Y
Perfluorooctane sulfonamide (FOSA)	5.291	379869	1.1150	Y
Perfluorododecanoic acid (PFDoDA)	5.332	432457	0.9293	Y
Perfluorotridecanoic acid (PFTrDA)	5.500	536964	0.8721	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.683	110901	0.9014	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.663	148250	0.9638	Y
Perfluorotetradecanoic acid (PFTeDA)	5.651	309527	1.0611	Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.799	162316	0.8896	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.825	17476	0.8435	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.959	45010	0.8815	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.582	57208	1.1224	Y
Perfluorodecane sulfonic acid (PFDS)	5.124	73130	1.0246	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/28/17 14:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072817_118

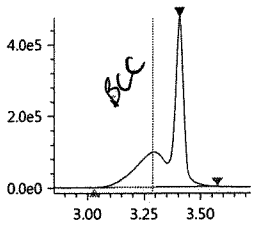
Sample ID: 1 ppb ICV
Date acquired: 7/28/2017 11:46:39 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b1\072817_118.lcd
Vial: 21 | Inj. Volume: 15.0000uL | Tray: 1

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.408	2177840	2177840	2	5.0000	ng/mL	5	100.00	M
PFBA-13C	3.408	2177840	353464	1	4.9719	ng/mL	5	99.44	M
PFBA	3.408	440766	2177840	2	0.9552	ng/mL	1	95.52	M
PFPeA-13C_IS	3.971	967572	967572	4	5.0000	ng/mL	5	100.00	Auto
PFPeA-13C	3.971	967572	353464	1	4.9301	ng/mL	5	98.60	Auto
PFPeA	3.971	565857	967572	4	0.9886	ng/mL	1	98.86	Auto
PFBS_1	4.020	103070	623208	16	0.9415	ng/mL	0.88737	106.10	Auto
PFBS-13C	4.021	623208	353464	1	4.9148	ng/mL	5	98.30	Auto
PFBS-13C_IS	4.021	623208	623208	16	5.0000	ng/mL	5	100.00	Auto
PFHxA-13C_IS	4.232	2878490	2878490	6	5.0000	ng/mL	5	100.00	Auto
PFHxA-13C	4.232	2878490	353464	1	4.9199	ng/mL	5	98.40	Auto
PFHxA	4.231	468345	2878490	6	0.9713	ng/mL	1	97.13	Auto
HPFO_DA	4.297	136001	741298	3	1.1075	ng/mL	1	110.75	Auto
HFPO_DA-13C_IS	4.297	741298	741298	3	5.0000	ng/mL	5	100.00	Auto
HFPO_DA-13C	4.297	741298	353464	1	4.9330	ng/mL	5	98.66	Auto
4_2-FTS-13C_IS	4.207	340585	340585	5	5.0000	ng/mL	5	100.00	Auto
4_2-FTS-13C	4.207	340585	353464	1	4.7730	ng/mL	5	95.46	Auto
4_2-FTS_1	4.207	77015	340585	5	0.9820	ng/mL	0.937218	104.77	Auto
PFHpA	4.422	578511	2845870	8	1.0368	ng/mL	1	103.68	Auto
PFHpA-13C_IS	4.422	2845870	2845870	8	5.0000	ng/mL	5	100.00	Auto
PFHpA-13C	4.422	2845870	353464	1	5.3115	ng/mL	5	106.23	Auto
PFHxS-18O_IS	4.420	394596	394596	7	5.0000	ng/mL	5	100.00	Auto
PFHxS-18O	4.420	394596	353464	1	4.8224	ng/mL	5	96.45	Auto
PFHxS_1	4.417	80089	394596	7	0.8328	ng/mL	0.913075	91.21	Auto
6_2-FTS-13C	4.583	221684	353464	1	4.3719	ng/mL	5	87.44	Auto
6_2-FTS-13C_IS	4.583	221684	221684	10	5.0000	ng/mL	5	100.00	Auto
6_2-FTS_1	4.582	57208	221684	10	1.1224	ng/mL	0.951168	118.01	M
PFHpS_1	4.585	71892	394596	7	1.0291	ng/mL	0.953438	107.93	Auto
PFOA-13C_IS	4.594	3435543	3435543	9	5.0000	ng/mL	5	100.00	Auto
PFOA-13C	4.594	3435543	353464	1	4.9772	ng/mL	5	99.54	Auto
PFOA	4.594	687587	3435543	9	0.8943	ng/mL	1	89.43	Auto
PFOS_1	4.759	60007	454109	13	0.8785	ng/mL	0.929229	94.54	Auto
PFOS-13C_IS	4.759	454109	454109	13	5.0000	ng/mL	5	100.00	Auto
PFOS-13C	4.759	454109	353464	1	4.8495	ng/mL	5	96.99	Auto
PFNA-13C_IS	4.774	3425520	3425520	11	5.0000	ng/mL	5	100.00	Auto
PFNA-13C	4.774	3425520	353464	1	5.0305	ng/mL	5	100.61	Auto
PFNA	4.774	581166	3425520	11	1.0054	ng/mL	1	100.54	Auto
PFDA-13C_IS	4.961	3070991	3070991	12	5.0000	ng/mL	5	100.00	Auto
PFDA-13C	4.961	3070991	353464	1	5.1408	ng/mL	5	102.82	Auto
PFDA	4.961	617993	3070991	12	0.9020	ng/mL	1	90.20	Auto
8_2-FTS-13C_IS	4.959	252116	252116	15	5.0000	ng/mL	5	100.00	Auto
8_2-FTS-13C	4.959	252116	353464	1	5.0704	ng/mL	5	101.41	Auto
8_2-FTS_1	4.959	45010	252116	15	0.8815	ng/mL	0.960045	91.82	Auto
PFDS_1	5.124	73130	454109	13	1.0246	ng/mL	0.964667	106.22	Auto
PFUnA	5.148	610798	3508242	14	0.9854	ng/mL	1	98.54	Auto
PFUnA-13C_IS	5.148	3508242	3508242	14	5.0000	ng/mL	5	100.00	Auto
PFUnA-13C	5.148	3508242	353464	1	5.3026	ng/mL	5	106.05	Auto
PFDoA	5.332	432457	4286066	17	0.9293	ng/mL	1	92.93	Auto
PFDoA-13C	5.333	4286066	353464	1	5.0577	ng/mL	5	101.15	Auto
PFDoA-13C_IS	5.333	4286066	4286066	17	5.0000	ng/mL	5	100.00	Auto
10_2-FtS_1	5.342	46918	252116	15	1.1129	ng/mL	0.966191	115.18	Auto
PFTrDA	5.500	536964	3040281	22	0.8721	ng/mL	1	87.21	Auto
PFTeDA	5.651	309527	3040281	22	1.0611	ng/mL	1	106.11	Auto
PFTeDA-13C	5.650	3040281	353464	1	5.2428	ng/mL	5	104.86	Auto
PFTeDA-13C_IS	5.650	3040281	3040281	22	5.0000	ng/mL	5	100.00	Auto
FOSA-13C_IS	5.291	1164241	1164241	18	5.0000	ng/mL	5	100.00	Auto
FOSA-13C	5.291	1164241	353464	1	4.9590	ng/mL	5	99.18	Auto
FOSA	5.291	379869	1164241	18	1.1150	ng/mL	1	111.50	Auto
N-MeFOSAA	5.068	99009	673050	19	0.9726	ng/mL	1	97.26	Auto
N-MeFOSAA-d3	5.066	673050	353464	1	5.0861	ng/mL	5	101.72	Auto
N-MeFOSAA-d3_IS	5.066	673050	673050	19	5.0000	ng/mL	5	100.00	Auto
N-MeFOSA_IS	5.681	353464	353464	1	5.0000	ng/mL	5	100.00	Auto
N-MeFOSA	5.683	110901	375890	20	0.9014	ng/mL	1	90.14	Auto
N-MeFOSE-d7	5.654	375890	353464	1	5.2670	ng/mL	5	105.34	Auto
N-MeFOSE-d7_IS	5.654	375890	375890	20	5.0000	ng/mL	5	100.00	Auto
N-MeFOSE	5.663	148250	375890	20	0.9638	ng/mL	1	96.38	Auto
N-EtFOSAA	5.170	112972	670009	21	1.0260	ng/mL	1	102.60	Auto

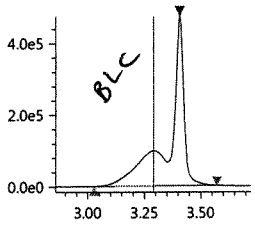
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.166	670009	670009	21	5.0000	ng/mL	5	100.00	Auto
N-EtFOSAA-d5	5.166	670009	353464	1	5.2030	ng/mL	5	104.06	Auto
N-EtFOSA-d9_IS	5.820	485043	485043	23	5.0000	ng/mL	5	100.00	Auto
N-EtFOSA-d9	5.820	485043	353464	1	5.0682	ng/mL	5	101.36	Auto
N-EtFOSA	5.825	17476	485043	23	0.8435	ng/mL	1	84.35	Auto
N-EtFOSE-d9_IS	5.789	388356	388356	24	5.0000	ng/mL	5	100.00	Auto
N-EtFOSE-d9	5.789	388356	353464	1	5.2292	ng/mL	5	104.58	Auto
N-EtFOSE	5.799	162316	388356	24	0.8896	ng/mL	1	88.96	Auto

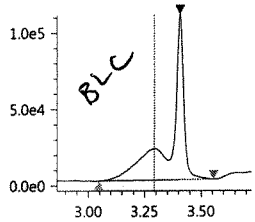
PFBA-13C_IS
Conc 5.0000
RT 3.408 Area 2177840
ISTD 216.90>172.15 4.77e5



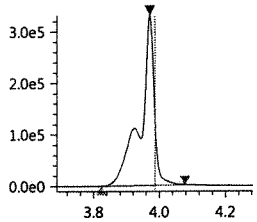
PFBA-13C
Conc 4.9719
RT 3.408 Area 2177840
Q 216.90>172.15 4.77e5



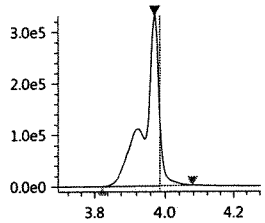
PFBA
Conc 0.9552
RT 3.408 Area 440766
Q 213.00>169.10 1.12e5



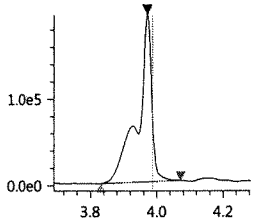
PFPeA-13C_IS
Conc 5.0000
RT 3.971 Area 967572
ISTD 267.90>223.00 3.32e5



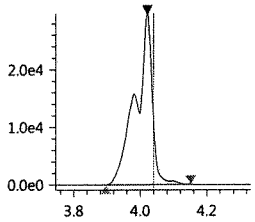
PFPeA-13C
Conc 4.9301
RT 3.971 Area 967572
Q 267.90>223.00 3.32e5



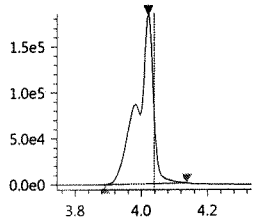
PFPeA
Conc 0.9886
RT 3.971 Area 565857
Q 263.05>219.10 1.98e5



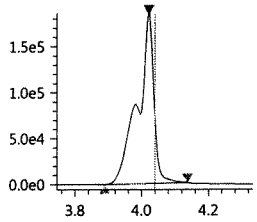
PFBS_1
Conc 0.9415
RT 4.020 Area 103070
Q 299.00>80.00 2.97e4



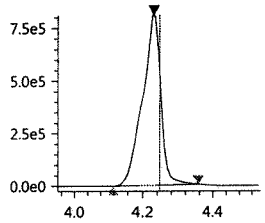
PFBS-13C
Conc 4.9148
RT 4.021 Area 623208
Q 301.80>80.00 1.86e5



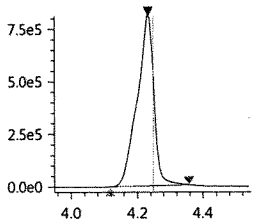
PFBS-13C_IS
Conc 5.0000
RT 4.021 Area 623208
ISTD 301.80>80.00 1.86e5



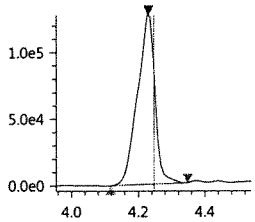
PFHxA-13C_IS
Conc 5.0000
RT 4.232 Area 2878490
ISTD 314.90>270.10 8.13e5



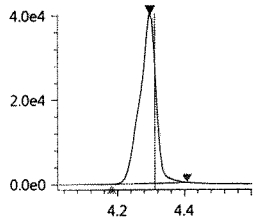
PFHxA-13C
Conc 4.9199
RT 4.232 Area 2878490
Q 314.90>270.10 8.13e5



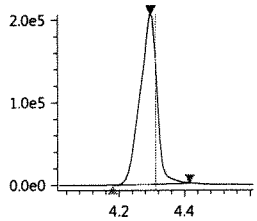
PFHxA
Conc 0.9713
RT 4.231 Area 468345
Q 313.00>269.00 1.28e5



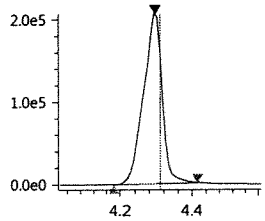
HPFO_DA
Conc 1.1075
RT 4.297 Area 136001
Q 329.00>169.00 4.05e4



HFPO_DA-13C_IS
Conc 5.0000
RT 4.297 Area 741298
ISTD 332.00>286.80 2.07e5

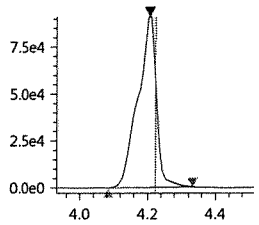


HFPO_DA-13C
Conc 4.9330
RT 4.297 Area 741298
Q 332.00>286.80 2.07e5

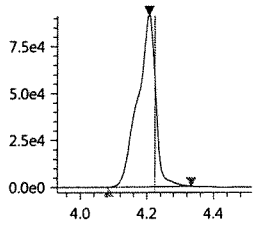


JUL 28 2017

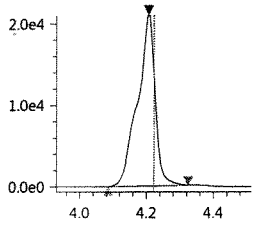
4_2-FTS-13C_IS
Conc 5.0000
RT 4.207 Area 340585
ISTD 328.80>309.05 9.13e4



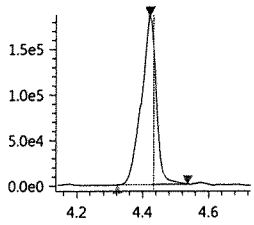
4_2-FTS-13C
Conc 4.7730
RT 4.207 Area 340585
Q 328.80>309.05 9.13e4



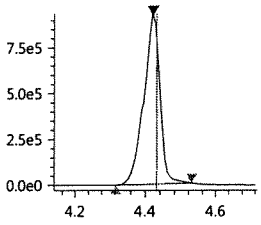
4_2-FTS_1
Conc 0.9820
RT 4.207 Area 77015
Q 327.00>307.05 2.11e4



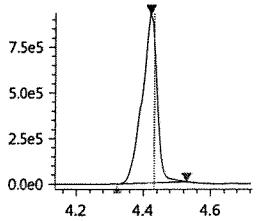
PFHpA
Conc 1.0368
RT 4.422 Area 578511
Q 362.90>319.00 1.88e5



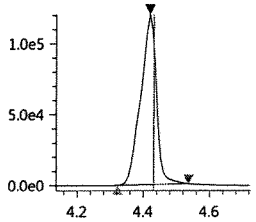
PFHpA-13C_IS
Conc 5.0000
RT 4.422 Area 2845870
ISTD 366.90>322.10 9.38e5



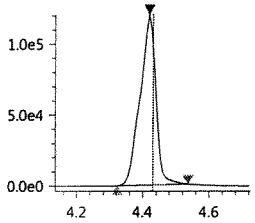
PFHpA-13C
Conc 5.3115
RT 4.422 Area 2845870
Q 366.90>322.10 9.38e5



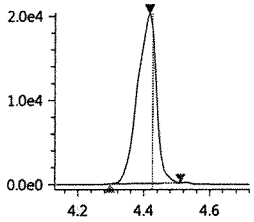
PFHxS-18O_IS
Conc 5.0000
RT 4.420 Area 394596
ISTD 402.70>84.05 1.21e5



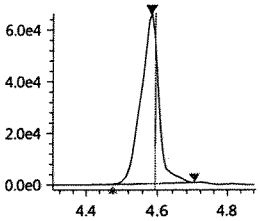
PFHxS-18O
Conc 4.8224
RT 4.420 Area 394596
Q 402.70>84.05 1.21e5



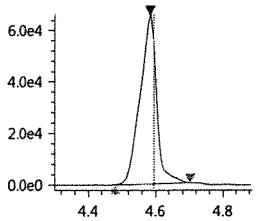
PFHxS_1
Conc 0.8328
RT 4.417 Area 80089
Q 399.00>80.00 2.04e4



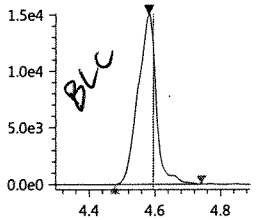
6_2-FTS-13C
Conc 4.3719
RT 4.583 Area 221684
Q 428.90>409.00 6.66e4



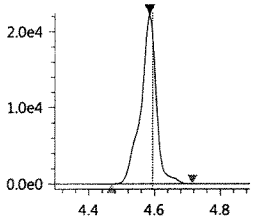
6_2-FTS-13C_IS
Conc 5.0000
RT 4.583 Area 221684
ISTD 428.90>409.00 6.66e4



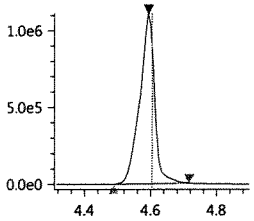
6_2-FTS_1
Conc 1.1224
RT 4.582 Area 57208
Q 427.00>407.00 1.52e4



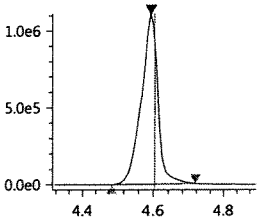
PFHpS_1
Conc 1.0291
RT 4.585 Area 71892
Q 449.00>80.15 2.25e4



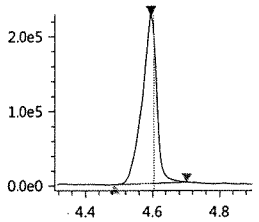
PFOA-13C_IS
Conc 5.0000
RT 4.594 Area 3435543
ISTD 416.80>372.05 1.12e6



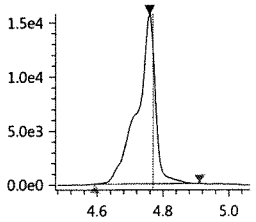
PFOA-13C
Conc 4.9772
RT 4.594 Area 3435543
Q 416.80>372.05 1.12e6



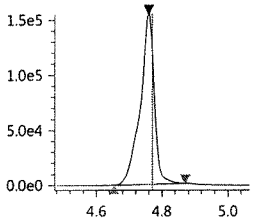
PFOA
Conc 0.8943
RT 4.594 Area 687587
Q 413.00>369.00 2.30e5



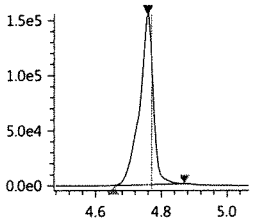
PFOS_1
Conc 0.8785
RT 4.759 Area 60007
Q 499.00>80.00 1.59e4



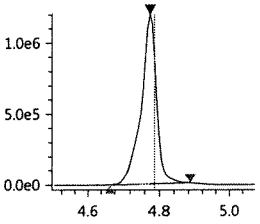
PFOS-13C_IS
Conc 5.0000
RT 4.759 Area 454109
ISTD 502.80>80.05 1.56e5



PFOS-13C
Conc 4.8495
RT 4.759 Area 454109
Q 502.80>80.05 1.56e5

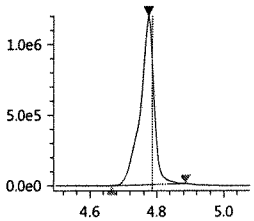


PFNA-13C_IS
Conc 5.0000
RT 4.774 Area 3425520
ISTD 467.80>423.00 1.21e6

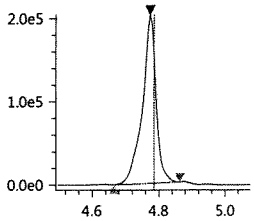


JUL 28 2017

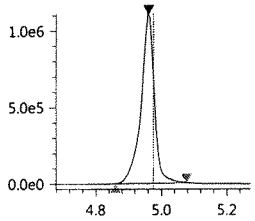
PFNA-13C
Conc 5.0305
RT 4.774 Area 3425520
Q 467.80>423.00 1.21e6



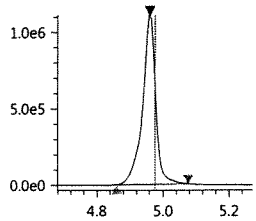
PFNA
Conc 1.0054
RT 4.774 Area 581166
Q 463.00>418.90 2.05e5



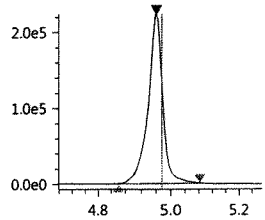
PFDA-13C_IS
Conc 5.0000
RT 4.961 Area 3070991
ISTD 514.80>469.95 1.11e6



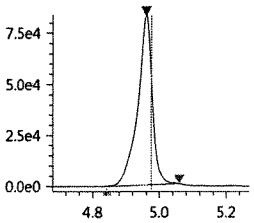
PFDA-13C
Conc 5.1408
RT 4.961 Area 3070991
Q 514.80>469.95 1.11e6



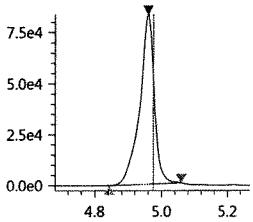
PFDA
Conc 0.9020
RT 4.961 Area 617993
Q 513.00>468.80 2.25e5



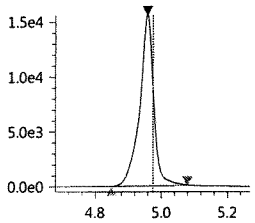
8_2-FTS-13C_IS
Conc 5.0000
RT 4.959 Area 252116
ISTD 528.80>509.00 8.37e4



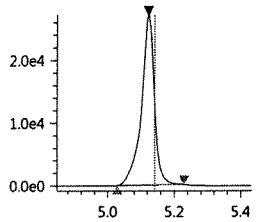
8_2-FTS-13C
Conc 5.0704
RT 4.959 Area 252116
Q 528.80>509.00 8.37e4



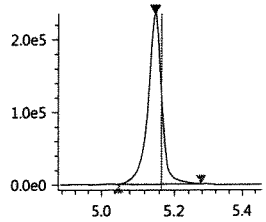
8_2-FTS_1
Conc 0.8815
RT 4.959 Area 45010
Q 526.90>506.90 1.56e4



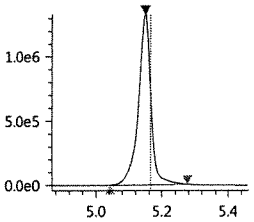
PFDS_1
Conc 1.0246
RT 5.124 Area 73130
Q 599.00>79.90 2.72e4



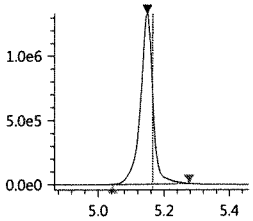
PFUnA
Conc 0.9854
RT 5.148 Area 610798
Q 563.00>518.90 2.35e5



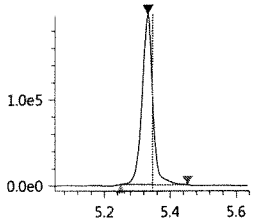
PFUnA-13C_IS
Conc 5.0000
RT 5.148 Area 3508242
ISTD 564.80>519.95 1.33e6



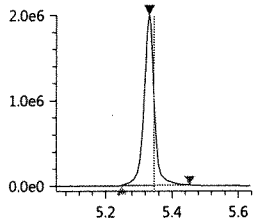
PFUnA-13C
Conc 5.3026
RT 5.148 Area 3508242
Q 564.80>519.95 1.33e6



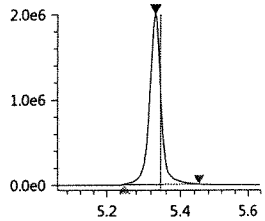
PFDoA
Conc 0.9293
RT 5.332 Area 432457
Q 613.05>569.00 1.99e5



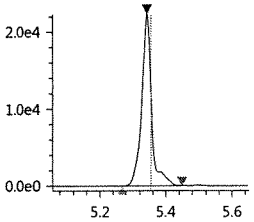
PFDoA-13C
Conc 5.0577
RT 5.333 Area 4286066
Q 614.80>569.95 2.00e6



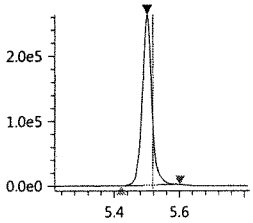
PFDoA-13C_IS
Conc 5.0000
RT 5.333 Area 4286066
ISTD 614.80>569.95 2.00e6



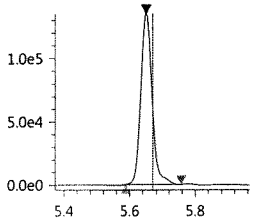
10_2-FtS_1
Conc 1.1129
RT 5.342 Area 46918
Q 627.00>606.95 2.23e4



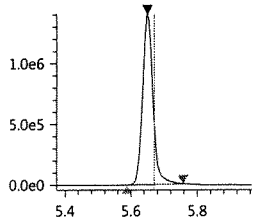
PFTrDA
Conc 0.8721
RT 5.500 Area 536964
Q 663.00>618.90 2.64e5



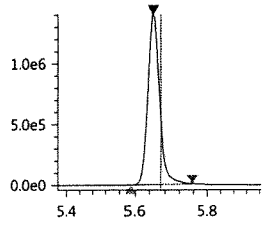
PFTeDA
Conc 1.0611
RT 5.651 Area 309527
Q 713.40>669.00 1.35e5



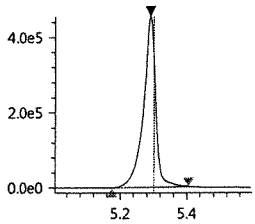
PFTeDA-13C
Conc 5.2428
RT 5.650 Area 3040281
Q 714.70>669.90 1.41e6



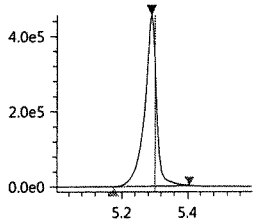
PFTeDA-13C_IS
Conc 5.0000
RT 5.650 Area 3040281
ISTD 714.70>669.90 1.41e6



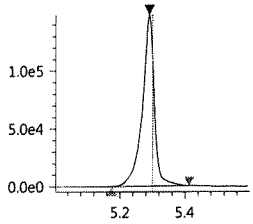
FOSA-13C_IS
Conc 5.0000
RT 5.291 Area 1164241
ISTD 506.00>78.05 4.57e5



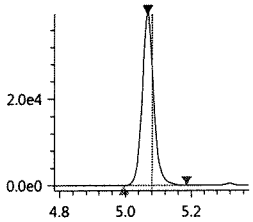
FOSA-13C
Conc 4.9590
RT 5.291 Area 1164241
Q 506.00>78.05 4.57e5



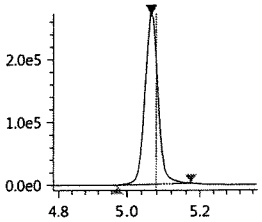
FOSA
Conc 1.1150
RT 5.291 Area 379869
Q 498.00>78.00 1.49e5



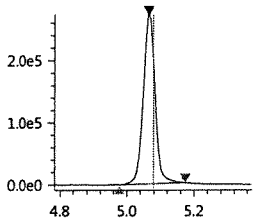
N-MeFOSAA
Conc 0.9726
RT 5.068 Area 99009
Q 570.20>419.00 3.98e4



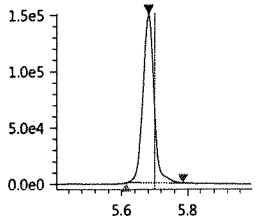
N-MeFOSAA-d3
Conc 5.0861
RT 5.066 Area 673050
Q 572.80>419.05 2.74e5



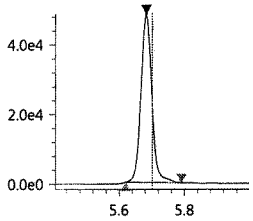
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.066 Area 673050
ISTD 572.80>419.05 2.74e5



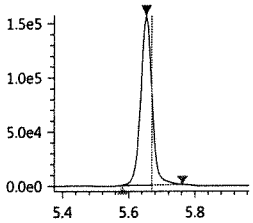
N-MeFOSA_IS
Conc 5.0000
RT 5.681 Area 353464
ISTD 514.90>168.90 1.52e5



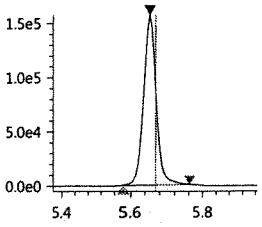
N-MeFOSA
Conc 0.9014
RT 5.683 Area 110901
Q 512.00>169.10 4.90e4



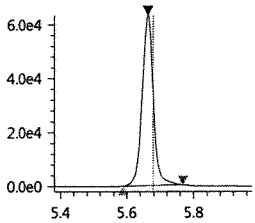
N-MeFOSE-d7
Conc 5.2670
RT 5.654 Area 375890
Q 622.70>59.10 1.58e5



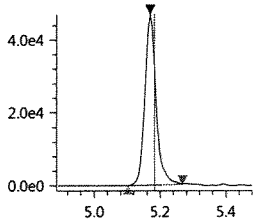
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.654 Area 375890
ISTD 622.70>59.10 1.58e5



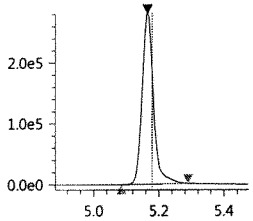
N-MeFOSE
Conc 0.9638
RT 5.663 Area 148250
Q 616.00>59.00 6.37e4



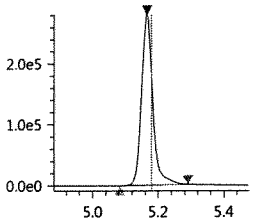
N-EtFOSAA
Conc 1.0260
RT 5.170 Area 112972
Q 584.20>418.95 4.72e4



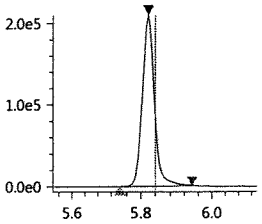
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.166 Area 670009
ISTD 588.80>419.00 2.82e5



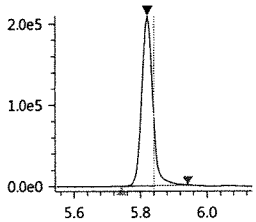
N-EtFOSAA-d5
Conc 5.2030
RT 5.166 Area 670009
Q 588.80>419.00 2.82e5



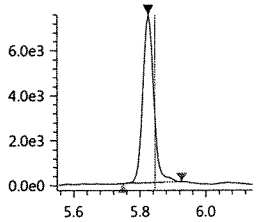
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.820 Area 485043
ISTD 530.90>169.15 2.10e5



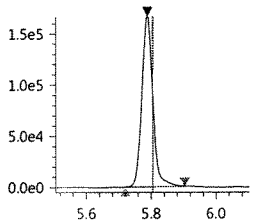
N-EtFOSA-d9
Conc 5.0682
RT 5.820 Area 485043
Q 530.90>169.15 2.10e5



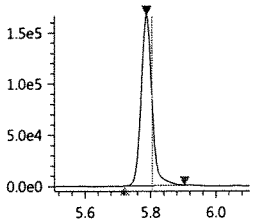
N-EtFOSA
Conc 0.8435
RT 5.825 Area 17476
Q 526.90>169.10 7.60e3



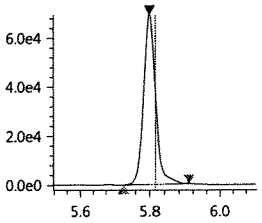
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.789 Area 388356
ISTD 638.70>59.10 1.67e5



N-EtFOSE-d9
Conc 5.2292
RT 5.789 Area 388356
Q 638.70>59.10 1.67e5



N-EtFOSE
Conc 0.8896
RT 5.799 Area 162316
Q 630.00>58.90 6.96e4



Insight Report

Befores

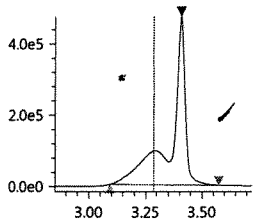
Printed at 7/28/2017 12:07:34 PM

JT

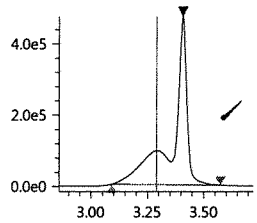
072817_118

Sample ID: 1 ppb ICV
Date acquired: 7/28/2017 11:46:39 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b1\072817_118.lcd
Vial: 21 | Inj. Volume: 15.0000uL | Tray: 1

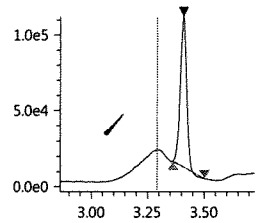
PFBA-13C_IS
Conc 5.0000
RT 3.408 Area 2099048
ISTD 216.90>172.15 4.77e5



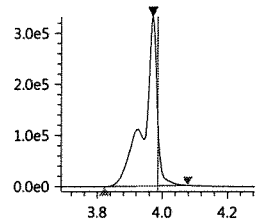
PFBA-13C
Conc 4.8403
RT 3.408 Area 2099048
Q 216.90>172.15 4.77e5



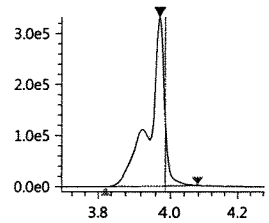
PFBA
Conc 0.7672
RT 3.408 Area 191579
Q 213.00>169.10 1.12e5



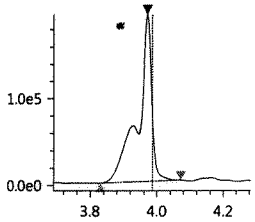
PFPeA-13C_IS
Conc 5.0000
RT 3.971 Area 967572
ISTD 267.90>223.00 3.32e5



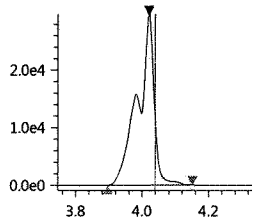
PFPeA-13C
Conc 4.9301
RT 3.971 Area 967572
Q 267.90>223.00 3.32e5



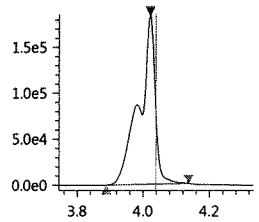
PFPeA
Conc 0.3644
RT 3.971 Area 565857
Q 263.05>219.10 1.98e5



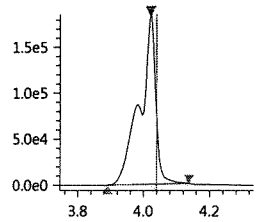
PFBS_1
Conc 1.0115
RT 4.020 Area 103070
Q 299.00>80.00 2.97e4



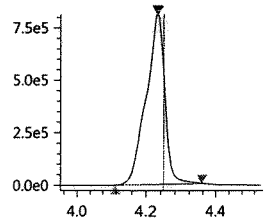
PFBS-13C
Conc 4.9148
RT 4.021 Area 623208
Q 301.80>80.00 1.86e5



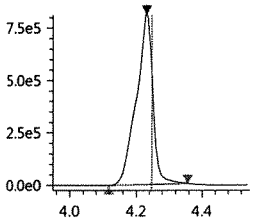
PFBS-13C_IS
Conc 5.0000
RT 4.021 Area 623208
ISTD 301.80>80.00 1.86e5



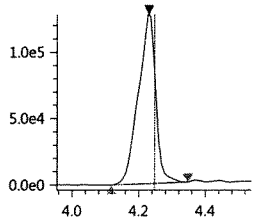
PFHxA-13C_IS
Conc 5.0000
RT 4.232 Area 2878490
ISTD 314.90>270.10 8.13e5



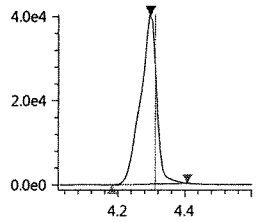
PFHxA-13C
Conc 4.9199
RT 4.232 Area 2878490
Q 314.90>270.10 8.13e5



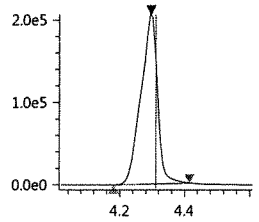
PFHxA
Conc 0.6697
RT 4.231 Area 468345
Q 313.00>269.00 1.28e5



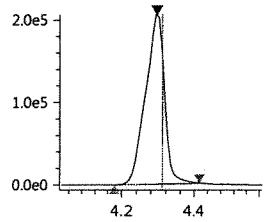
HPFO_DA
Conc 1.1251
RT 4.297 Area 136001
Q 329.00>169.00 4.05e4



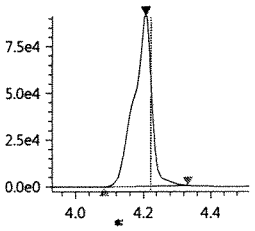
HFPO_DA-13C_IS
Conc 5.0000
RT 4.297 Area 741298
ISTD 332.00>286.80 2.07e5



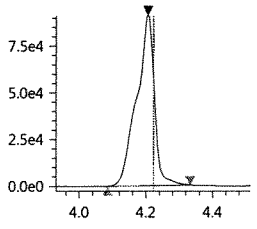
HFPO_DA-13C
Conc 4.9330
RT 4.297 Area 741298
Q 332.00>286.80 2.07e5



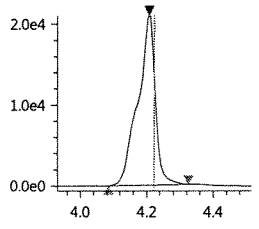
4_2-FTS-13C_IS
Conc 5.0000
RT 4.207 Area 340585
ISTD 328.80>309.05 9.13e4



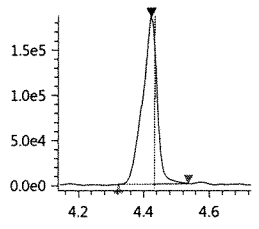
4_2-FTS-13C
Conc 4.7730
RT 4.207 Area 340585
Q 328.80>309.05 9.13e4



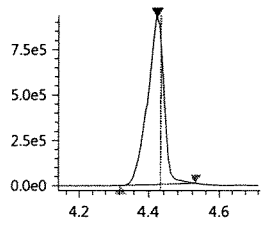
4_2-FTS_1
Conc 1.0160
RT 4.207 Area 77015
Q 327.00>307.05 2.11e4



PFHpA
Conc 0.7437
RT 4.422 Area 578511
Q 362.90>319.00 1.88e5

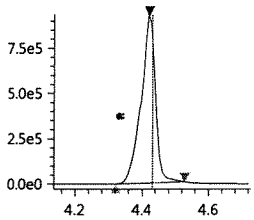


PFHpA-13C_IS
Conc 5.0000
RT 4.422 Area 2845870
ISTD 366.90>322.10 9.38e5

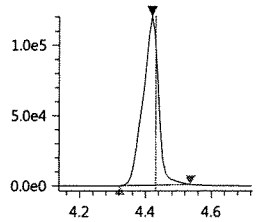


JUL 28 2017

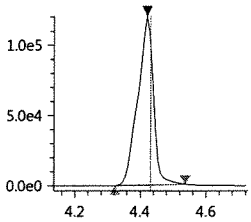
PFHpA-13C
Conc 5.3115
RT 4.422 Area 2845870
Q 366.90>322.10 9.38e5



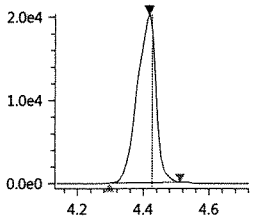
PFHxS-18O_IS
Conc 5.0000
RT 4.420 Area 394596
ISTD 402.70>84.05 1.21e5



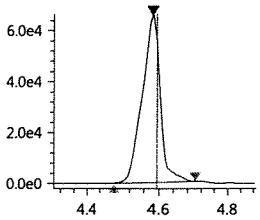
PFHxS-18O
Conc 4.8224
RT 4.420 Area 394596
Q 402.70>84.05 1.21e5



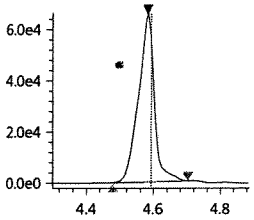
PFHxS_1
Conc 0.7735
RT 4.417 Area 80089
Q 399.00>80.00 2.04e4



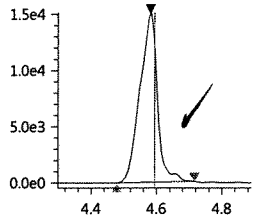
6_2-FTS-13C
Conc 4.3916
RT 4.583 Area 221684
Q 428.90>409.00 6.66e4



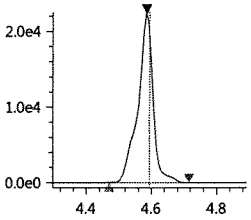
6_2-FTS-13C_IS
Conc 5.0000
RT 4.583 Area 221684
ISTD 428.90>409.00 6.66e4



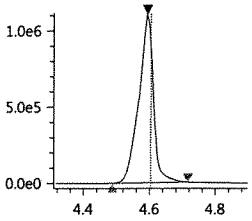
6_2-FTS_1
Conc 1.0657
RT 4.582 Area 56336
Q 427.00>407.00 1.52e4



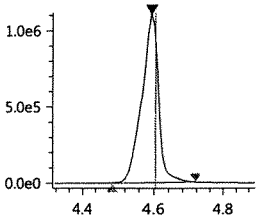
PFHpS_1
Conc 0.9785
RT 4.585 Area 71892
Q 449.00>80.15 2.25e4



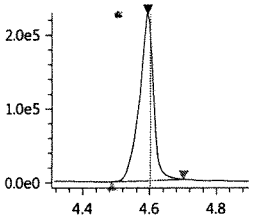
PFOA-13C_IS
Conc 5.0000
RT 4.594 Area 3435543
ISTD 416.80>372.05 1.12e6



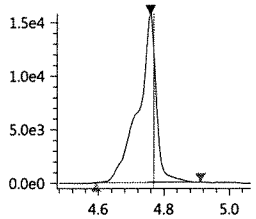
PFOA-13C
Conc 4.9772
RT 4.594 Area 3435543
Q 416.80>372.05 1.12e6



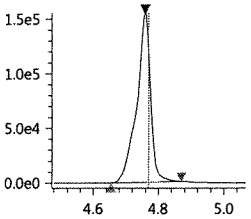
PFOA
Conc 0.6897
RT 4.594 Area 687587
Q 413.00>369.00 2.30e5



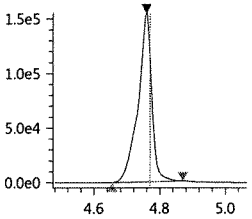
PFOS_1
Conc 0.8608
RT 4.759 Area 60007
Q 499.00>80.00 1.59e4



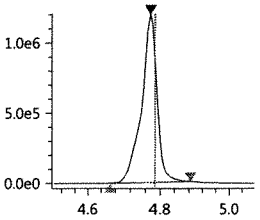
PFOS-13C_IS
Conc 5.0000
RT 4.759 Area 454109
ISTD 502.80>80.05 1.56e5



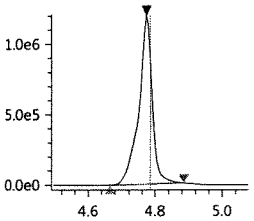
PFOS-13C
Conc 4.8495
RT 4.759 Area 454109
Q 502.80>80.05 1.56e5



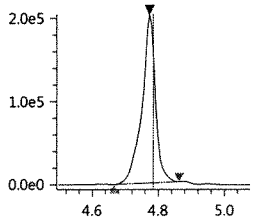
PFNA-13C_IS
Conc 5.0000
RT 4.774 Area 3425520
ISTD 467.80>423.00 1.21e6



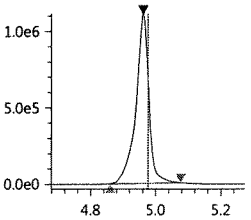
PFNA-13C
Conc 5.0305
RT 4.774 Area 3425520
Q 467.80>423.00 1.21e6



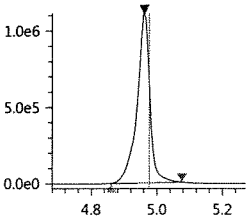
PFNA
Conc 0.8858
RT 4.774 Area 581166
Q 463.00>418.90 2.05e5



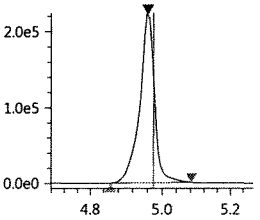
PFDA-13C_IS
Conc 5.0000
RT 4.961 Area 3070991
ISTD 514.80>469.95 1.11e6



PFDA-13C
Conc 5.1408
RT 4.961 Area 3070991
Q 514.80>469.95 1.11e6



PFDA
Conc 0.7813
RT 4.961 Area 617993
Q 513.00>468.80 2.25e5



Insight Report

Printed at 7/28/2017 2:25:27 PM

JT

072817_119

Sample ID: IB
Date acquired: 7/28/2017 11:57:10 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b1\072817_119.lcd
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 1

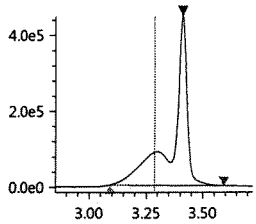
Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.413	1991541	1991541	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.413	1991541	365994	1	4.3909	ng/mL	----	----	Auto
PFBA	3.412	8960	1991541	2	0.0212	ng/mL	----	----	M
PFPeA-13C_IS	3.977	904995	904995	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.977	904995	365994	1	4.4534	ng/mL	----	----	Auto
PFPeA	3.977	54576	904995	4	0.0164	ng/mL	----	----	Auto
PFBS_1	----	----	----	16	----	ng/mL	----	----	ND(W/B)
PFBS-13C	4.026	607258	365994	1	4.6250	ng/mL	----	----	Auto
PFBS-13C_IS	4.026	607258	607258	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.239	2934660	2934660	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.239	2934660	365994	1	4.8442	ng/mL	----	----	Auto
PFHxA	4.217	11543	2934660	6	0.0020	ng/mL	----	----	Auto
HPFO_DA	----	----	----	3	----	ng/mL	----	----	ND(W/B)
HFPO_DA-13C_IS	4.304	701436	701436	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.304	701436	365994	1	4.5080	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.214	364297	364297	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.214	364297	365994	1	4.9305	ng/mL	----	----	Auto
4_2-FTS_1	----	----	----	5	----	ng/mL	----	----	NI
PFHpA	4.409	15714	2692320	8	-0.0152	ng/mL	----	----	Auto
PFHpA-13C_IS	4.429	2692320	2692320	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.429	2692320	365994	1	4.8529	ng/mL	----	----	Auto
PFHxS-18O_IS	4.426	349063	349063	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.426	349063	365994	1	4.1199	ng/mL	----	----	Auto
PFHxS_1	4.432	589	349063	7	0.0069	ng/mL	----	----	Auto
6_2-FTS-13C	4.590	218773	365994	1	4.1668	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.590	218773	218773	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	----	----	----	10	----	ng/mL	----	----	ND(W/B)
PFHpS_1	----	----	----	7	----	ng/mL	----	----	ND(W/B)
PFOA-13C_IS	4.602	3593916	3593916	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.602	3593916	365994	1	5.0284	ng/mL	----	----	Auto
PFOA	4.587	16346	3593916	9	0.0203	ng/mL	----	----	Auto
PFOS_1	----	----	----	13	----	ng/mL	----	----	NI
PFOS-13C_IS	4.765	416285	416285	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.765	416285	365994	1	4.2934	ng/mL	----	----	Auto
PFNA-13C_IS	4.781	3371976	3371976	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.781	3371976	365994	1	4.7823	ng/mL	----	----	Auto
PFNA	4.774	7316	3371976	11	0.0129	ng/mL	----	----	Auto
PFDA-13C_IS	4.970	2795693	2795693	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.970	2795693	365994	1	4.5197	ng/mL	----	----	Auto
PFDA	4.954	10680	2795693	12	0.0171	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.968	232784	232784	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.968	232784	365994	1	4.5214	ng/mL	----	----	Auto
8_2-FTS_1	4.977	76	232784	15	0.0016	ng/mL	----	----	M
PFDS_1	----	----	----	13	----	ng/mL	----	----	ND(W/B)
PFUnA	5.138	12356	3292691	14	-0.0038	ng/mL	----	----	Auto
PFUnA-13C_IS	5.159	3292691	3292691	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.159	3292691	365994	1	4.8064	ng/mL	----	----	Auto
PFDoA	5.329	2823	4067712	17	0.0064	ng/mL	----	----	Auto
PFDoA-13C	5.343	4067712	365994	1	4.6357	ng/mL	----	----	Auto
PFDoA-13C_IS	5.343	4067712	4067712	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	----	----	----	15	----	ng/mL	----	----	ND(W/B)
PFTrDA	5.503	6320	2837621	22	0.0110	ng/mL	----	----	Auto
PFTeDA	5.657	31792	2837621	22	0.0297	ng/mL	----	----	Auto
PFTeDA-13C	5.659	2837621	365994	1	4.7258	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.659	2837621	2837621	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.302	1095896	1095896	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.302	1095896	365994	1	4.5081	ng/mL	----	----	Auto
FOSA	5.303	1500	1095896	18	0.0047	ng/mL	----	----	Auto
N-MeFOSAA	5.076	1164	642213	19	0.0212	ng/mL	----	----	Auto
N-MeFOSAA-d3	5.075	642213	365994	1	4.6869	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.075	642213	642213	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.690	365994	365994	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.697	1161	362661	20	0.0098	ng/mL	----	----	Auto
N-MeFOSE-d7	5.662	362661	365994	1	4.9077	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.662	362661	362661	20	5.0000	ng/mL	----	----	Auto
N-MeFOSE	5.676	325	362661	20	0.0022	ng/mL	----	----	Auto
N-EtFOSAA	----	----	----	21	----	ng/mL	----	----	ND(W/B)

JUL 28 2017

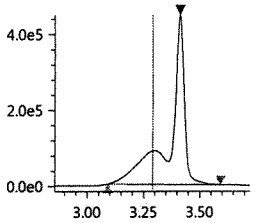
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-EtFOSAA-d5_IS	5.176	633159	633159	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.176	633159	365994	1	4.7485	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.829	435167	435167	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.829	435167	365994	1	4.3913	ng/mL	----	----	Auto
N-EtFOSA	----	----	----	23	----	ng/mL	----	----	NI
N-EtFOSE-d9_IS	5.797	355550	355550	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.797	355550	365994	1	4.6235	ng/mL	----	----	Auto
N-EtFOSE	5.812	592	355550	24	0.0035	ng/mL	----	----	Auto

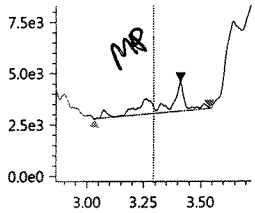
PFBA-13C_IS
Conc 5.0000
RT 3.413 Area 1991541
ISTD 216.90>172.15 4.52e5



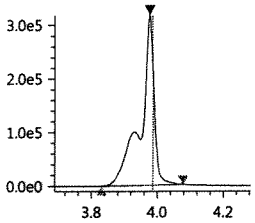
PFBA-13C
Conc 4.3909
RT 3.413 Area 1991541
Q 216.90>172.15 4.52e5



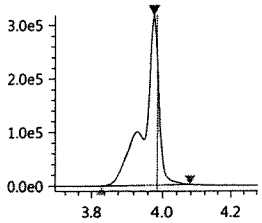
PFBA
Conc 0.0212
RT 3.412 Area 8960
Q 213.00>169.10 8.34e3



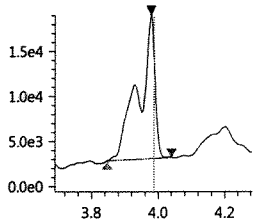
PFPeA-13C_IS
Conc 5.0000
RT 3.977 Area 904995
ISTD 267.90>223.00 3.19e5



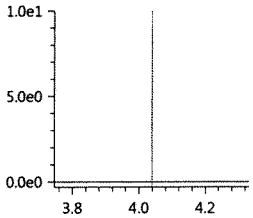
PFPeA-13C
Conc 4.4534
RT 3.977 Area 904995
Q 267.90>223.00 3.19e5



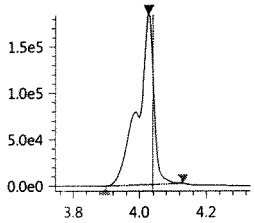
PFPeA
Conc 0.0164
RT 3.977 Area 54576
Q 263.05>219.10 1.90e4



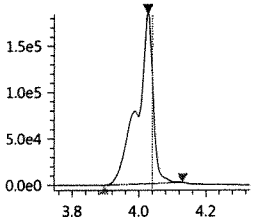
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 0.00e0



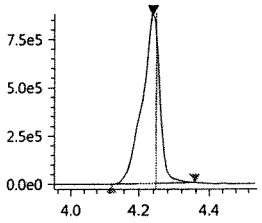
PFBS-13C
Conc 4.6250
RT 4.026 Area 607258
Q 301.80>80.00 1.84e5



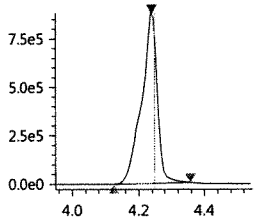
PFBS-13C_IS
Conc 5.0000
RT 4.026 Area 607258
ISTD 301.80>80.00 1.84e5



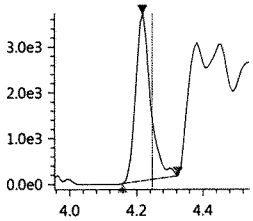
PFHxA-13C_IS
Conc 5.0000
RT 4.239 Area 2934660
ISTD 314.90>270.10 8.85e5



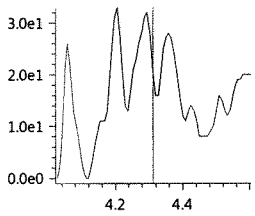
PFHxA-13C
Conc 4.8442
RT 4.239 Area 2934660
Q 314.90>270.10 8.85e5



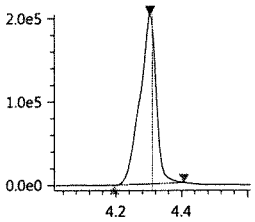
PFHxA
Conc 0.0020
RT 4.217 Area 11543
Q 313.00>269.00 3.74e3



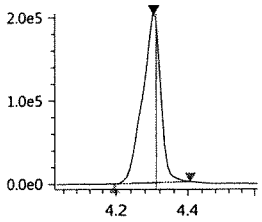
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 3.30e1



HFPO_DA-13C_IS
Conc 5.0000
RT 4.304 Area 701436
ISTD 332.00>286.80 2.05e5

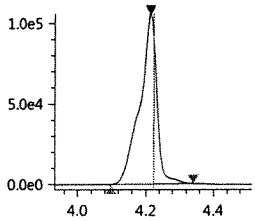


HFPO_DA-13C
Conc 4.5080
RT 4.304 Area 701436
Q 332.00>286.80 2.05e5

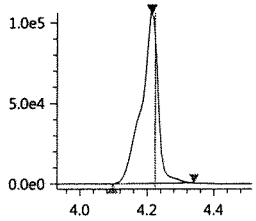


JUL 28 2017

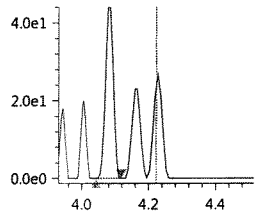
4_2-FTS-13C_IS
Conc 5.0000
RT 4.214 Area 364297
ISTD 328.80>309.05 1.06e5



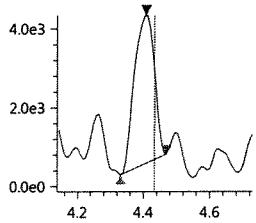
4_2-FTS-13C
Conc 4.9305
RT 4.214 Area 364297
Q 328.80>309.05 1.06e5



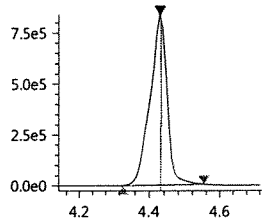
4_2-FTS_1
Conc ----
RT ---- Area ----
Q 327.00>307.05 4.40e1



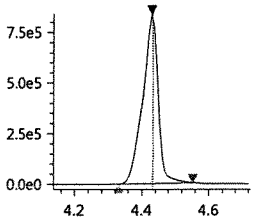
PFHpA
Conc -0.0152
RT 4.409 Area 15714
Q 362.90>319.00 4.35e3



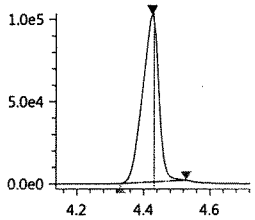
PFHpA-13C_IS
Conc 5.0000
RT 4.429 Area 2692320
ISTD 366.90>322.10 8.41e5



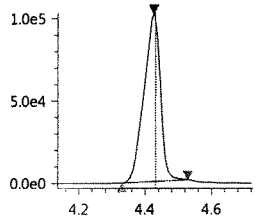
PFHpA-13C
Conc 4.8529
RT 4.429 Area 2692320
Q 366.90>322.10 8.41e5



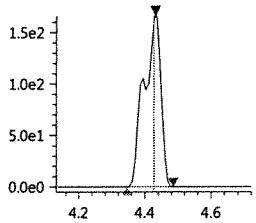
PFHxS-18O_IS
Conc 5.0000
RT 4.426 Area 349063
ISTD 402.70>84.05 1.04e5



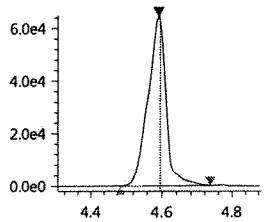
PFHxS-18O
Conc 4.1199
RT 4.426 Area 349063
Q 402.70>84.05 1.04e5



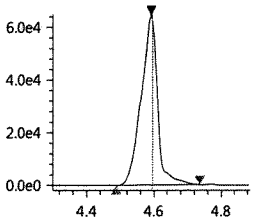
PFHxS_1
Conc 0.0069
RT 4.432 Area 589
Q 399.00>80.00 1.66e2



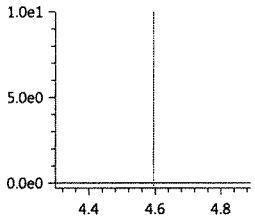
6_2-FTS-13C
Conc 4.1668
RT 4.590 Area 218773
Q 428.90>409.00 6.50e4



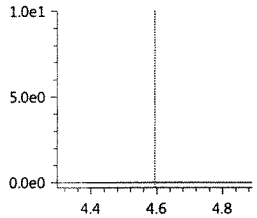
6_2-FTS-13C_IS
Conc 5.0000
RT 4.590 Area 218773
ISTD 428.90>409.00 6.50e4



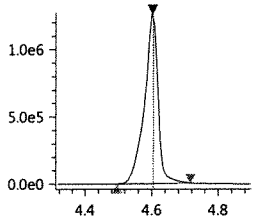
6_2-FTS_1
Conc ----
RT ---- Area ----
Q 427.00>407.00 0.00e0



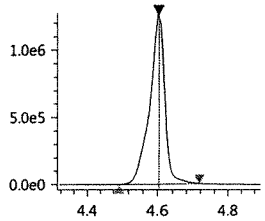
PFHpS_1
Conc ----
RT ---- Area ----
Q 449.00>80.15 0.00e0



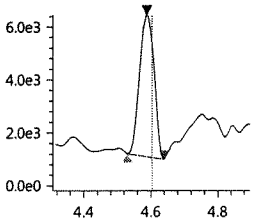
PFOA-13C_IS
Conc 5.0000
RT 4.602 Area 3593916
ISTD 416.80>372.05 1.27e6



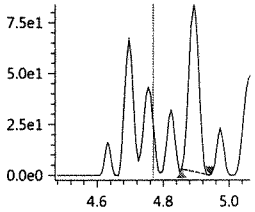
PFOA-13C
Conc 5.0284
RT 4.602 Area 3593916
Q 416.80>372.05 1.27e6



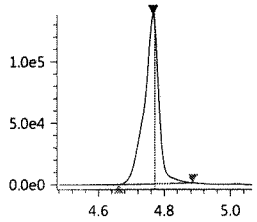
PFOA
Conc 0.0203
RT 4.587 Area 16346
Q 413.00>369.00 6.47e3



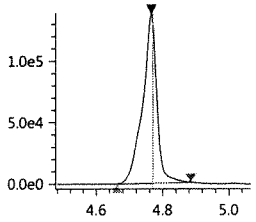
PFOS_1
Conc ----
RT ---- Area ----
Q 499.00>80.00 8.40e1



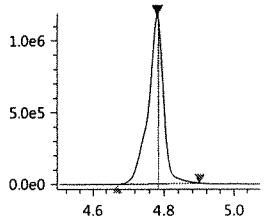
PFOS-13C_IS
Conc 5.0000
RT 4.765 Area 416285
ISTD 502.80>80.05 1.39e5



PFOS-13C
Conc 4.2934
RT 4.765 Area 416285
Q 502.80>80.05 1.39e5

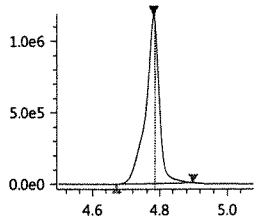


PFNA-13C_IS
Conc 5.0000
RT 4.781 Area 3371976
ISTD 467.80>423.00 1.19e6

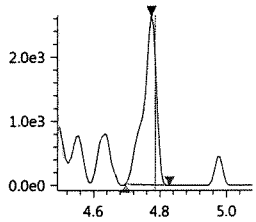


JT

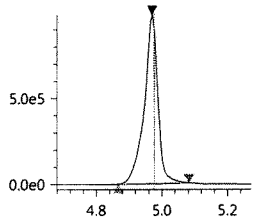
PFNA-13C
Conc 4.7823
RT 4.781 Area 3371976
Q 467.80>423.00 1.19e6



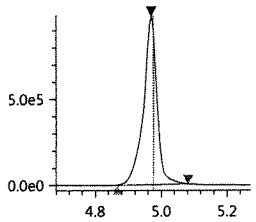
PFNA
Conc 0.0129
RT 4.774 Area 7316
Q 463.00>418.90 2.65e3



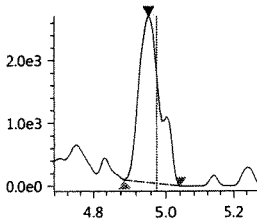
PFDA-13C_IS
Conc 5.0000
RT 4.970 Area 2795693
ISTD 514.80>469.95 9.90e5



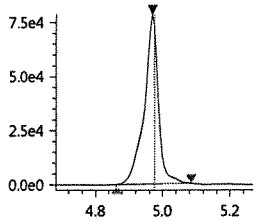
PFDA-13C
Conc 4.5197
RT 4.970 Area 2795693
Q 514.80>469.95 9.90e5



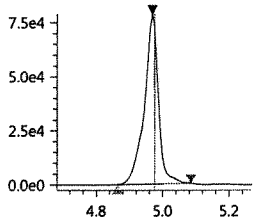
PFDA
Conc 0.0171
RT 4.954 Area 10680
Q 513.00>468.80 2.71e3



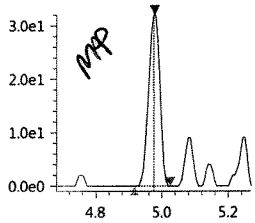
8_2-FTS-13C_IS
Conc 5.0000
RT 4.968 Area 232784
ISTD 528.80>509.00 7.89e4



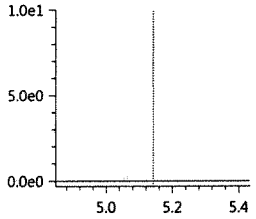
8_2-FTS-13C
Conc 4.5214
RT 4.968 Area 232784
Q 528.80>509.00 7.89e4



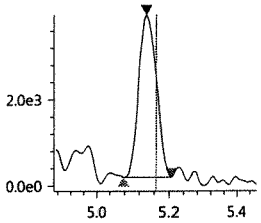
8_2-FTS_1
Conc 0.0016
RT 4.977 Area 76
Q 526.90>506.90 3.20e1



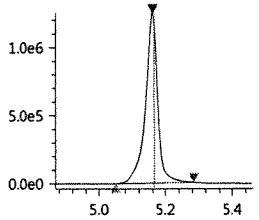
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 0.00e0



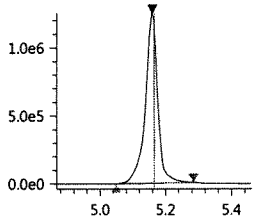
PFUnA
Conc -0.0038
RT 5.138 Area 12356
Q 563.00>518.90 3.98e3



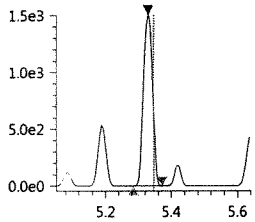
PFUnA-13C_IS
Conc 5.0000
RT 5.159 Area 3292691
ISTD 564.80>519.95 1.26e6



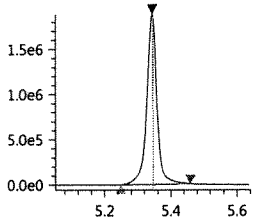
PFUnA-13C
Conc 4.8064
RT 5.159 Area 3292691
Q 564.80>519.95 1.26e6



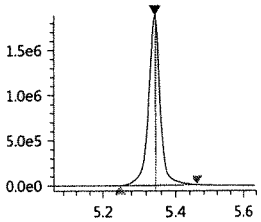
PFDoA
Conc 0.0064
RT 5.329 Area 2823
Q 613.05>569.00 1.50e3



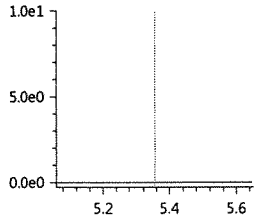
PFDoA-13C
Conc 4.6357
RT 5.343 Area 4067712
Q 614.80>569.95 1.89e6



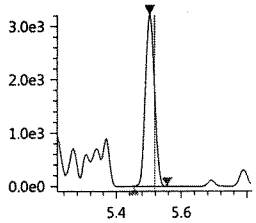
PFDoA-13C_IS
Conc 5.0000
RT 5.343 Area 4067712
ISTD 614.80>569.95 1.89e6



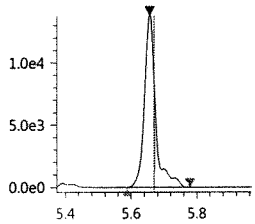
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



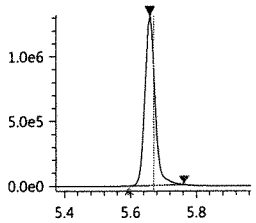
PFTrDA
Conc 0.0110
RT 5.503 Area 6320
Q 663.00>618.90 3.21e3



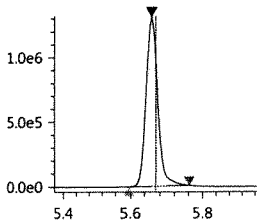
PFTeDA
Conc 0.0297
RT 5.657 Area 31792
Q 713.40>669.00 1.38e4



PFTeDA-13C
Conc 4.7258
RT 5.659 Area 2837621
Q 714.70>669.90 1.32e6

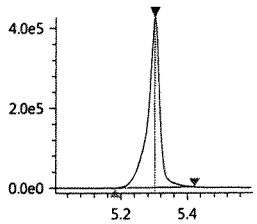


PFTeDA-13C_IS
Conc 5.0000
RT 5.659 Area 2837621
ISTD 714.70>669.90 1.32e6

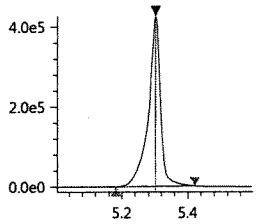


JUL 28 2017

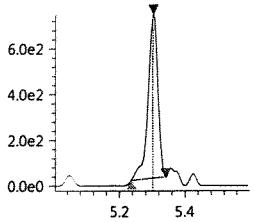
FOSA-13C_IS
Conc 5.0000
RT 5.302 Area 1095896
ISTD 506.00>78.05 4.27e5



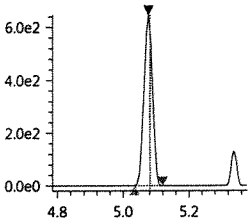
FOSA-13C
Conc 4.5081
RT 5.302 Area 1095896
Q 506.00>78.05 4.27e5



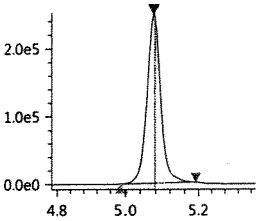
FOSA
Conc 0.0047
RT 5.303 Area 1500
Q 498.00>78.00 7.48e2



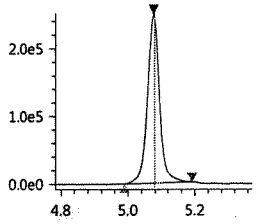
N-MeFOSAA
Conc 0.0212
RT 5.076 Area 1164
Q 570.20>419.00 6.48e2



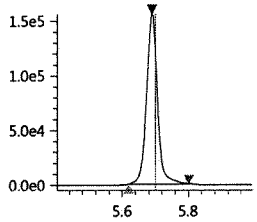
N-MeFOSAA-d3
Conc 4.6869
RT 5.075 Area 642213
Q 572.80>419.05 2.52e5



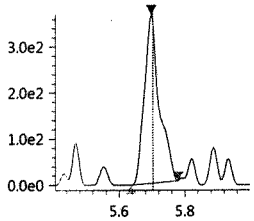
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.075 Area 642213
ISTD 572.80>419.05 2.52e5



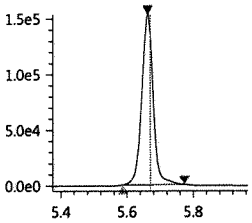
N-MeFOSA_IS
Conc 5.0000
RT 5.690 Area 365994
ISTD 514.90>168.90 1.57e5



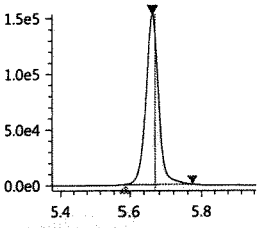
N-MeFOSA
Conc 0.0098
RT 5.697 Area 1161
Q 512.00>169.10 3.72e2



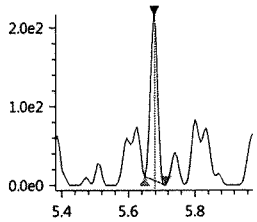
N-MeFOSE-d7
Conc 4.9077
RT 5.662 Area 362661
Q 622.70>59.10 1.54e5



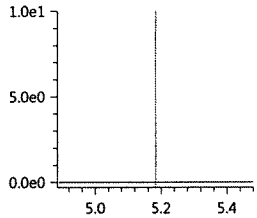
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.662 Area 362661
ISTD 622.70>59.10 1.54e5



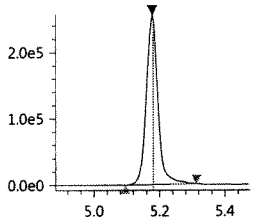
N-MeFOSE
Conc 0.0022
RT 5.676 Area 325
Q 616.00>59.00 2.17e2



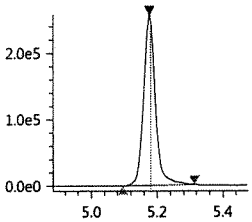
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 0.00e0



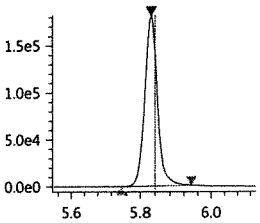
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.176 Area 633159
ISTD 588.80>419.00 2.58e5



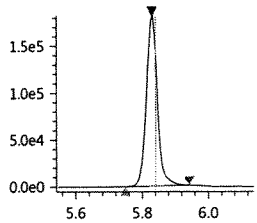
N-EtFOSAA-d5
Conc 4.7485
RT 5.176 Area 633159
Q 588.80>419.00 2.58e5



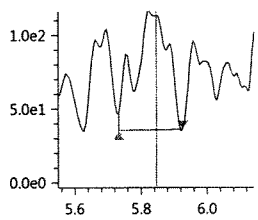
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.829 Area 435167
ISTD 530.90>169.15 1.83e5



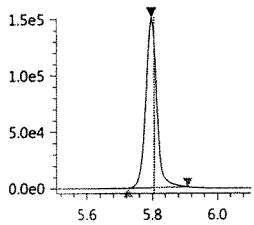
N-EtFOSA-d9
Conc 4.3913
RT 5.829 Area 435167
Q 530.90>169.15 1.83e5



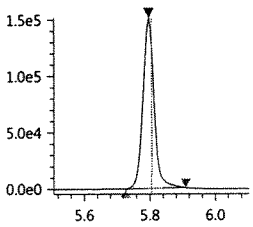
N-EtFOSA
Conc ----
RT ---- Area ----
Q 526.90>169.10 1.16e2



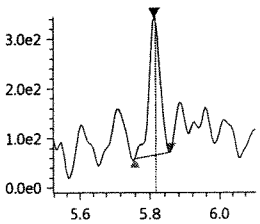
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.797 Area 355550
ISTD 638.70>59.10 1.52e5



N-EtFOSE-d9
Conc 4.6235
RT 5.797 Area 355550
Q 638.70>59.10 1.52e5



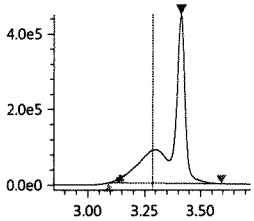
N-EtFOSE
Conc 0.0035
RT 5.812 Area 592
Q 630.00>58.90 3.46e2



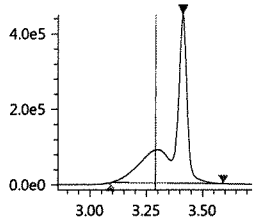
072817_119

Sample ID: IB
Date acquired: 7/28/2017 11:57:10 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b1\072817_119.lcd
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 1

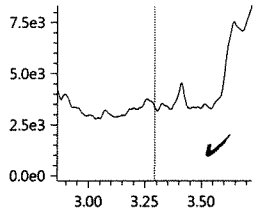
PFBA-13C_IS
Conc 5.0000
RT 3.413 Area 1991541
ISTD 216.90>172.15 4.52e5



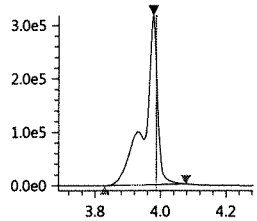
PFBA-13C
Conc 4.4351
RT 3.413 Area 1991541
Q 216.90>172.15 4.52e5



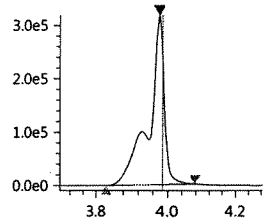
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 8.34e3



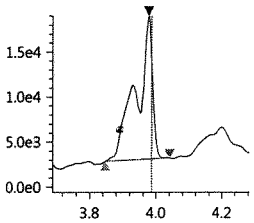
PFPeA-13C_IS
Conc 5.0000
RT 3.977 Area 904995
ISTD 267.90>223.00 3.19e5



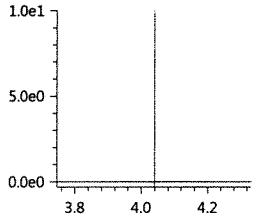
PFPeA-13C
Conc 4.4534
RT 3.977 Area 904995
Q 267.90>223.00 3.19e5



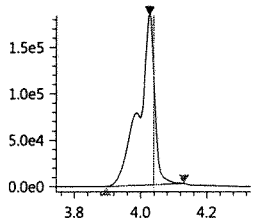
PFPeA
Conc 0.0376
RT 3.977 Area 54576
Q 263.05>219.10 1.90e4



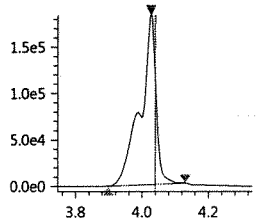
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 0.00e0



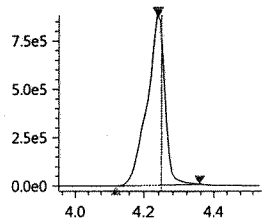
PFBS-13C
Conc 4.6250
RT 4.026 Area 607258
Q 301.80>80.00 1.84e5



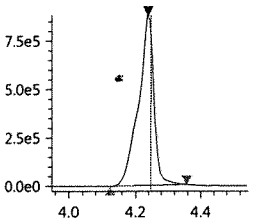
PFBS-13C_IS
Conc 5.0000
RT 4.026 Area 607258
ISTD 301.80>80.00 1.84e5



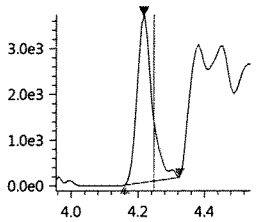
PFHxA-13C_IS
Conc 5.0000
RT 4.239 Area 2934660
ISTD 314.90>270.10 8.85e5



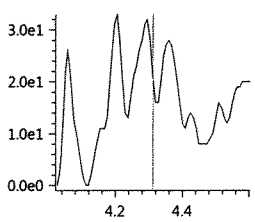
PFHxA-13C
Conc 4.8442
RT 4.239 Area 2934660
Q 314.90>270.10 8.85e5



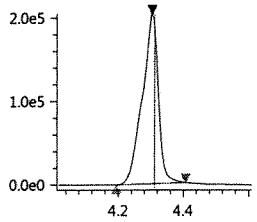
PFHxA
Conc 0.0162
RT 4.217 Area 11543
Q 313.00>269.00 3.74e3



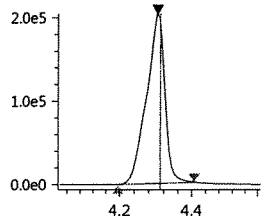
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 3.30e1



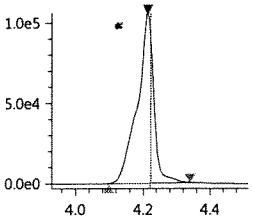
HFPO_DA-13C_IS
Conc 5.0000
RT 4.304 Area 701436
ISTD 332.00>286.80 2.05e5



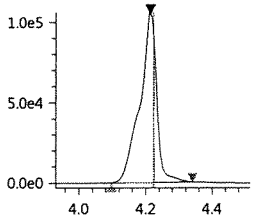
HFPO_DA-13C
Conc 4.5080
RT 4.304 Area 701436
Q 332.00>286.80 2.05e5



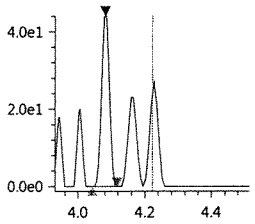
4_2-FTS-13C_IS
Conc 5.0000
RT 4.214 Area 364297
ISTD 328.80>309.05 1.06e5



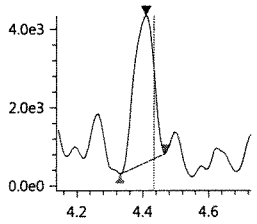
4_2-FTS-13C
Conc 4.9305
RT 4.214 Area 364297
Q 328.80>309.05 1.06e5



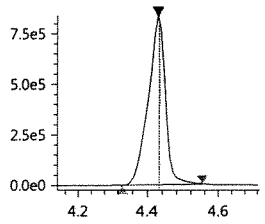
4_2-FTS_1
Conc 0.0009
RT 4.082 Area 73
Q 327.00>307.05 4.40e1



PFHpA
Conc 0.0214
RT 4.409 Area 15714
Q 362.90>319.00 4.35e3

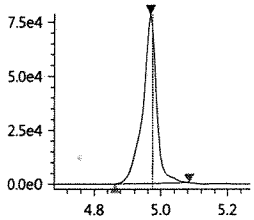


PFHpA-13C_IS
Conc 5.0000
RT 4.429 Area 2692320
ISTD 366.90>322.10 8.41e5

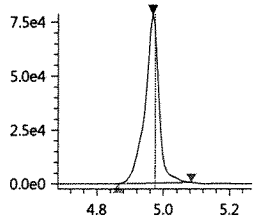


JUL 28 2017

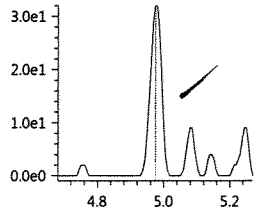
8_2-FTS-13C_IS
Conc 5.0000
RT 4.968 Area 232784
ISTD 528.80>509.00 7.89e4



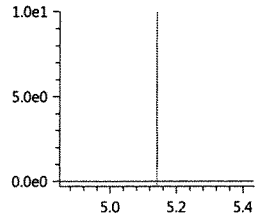
8_2-FTS-13C
Conc 4.5214
RT 4.968 Area 232784
Q 528.80>509.00 7.89e4



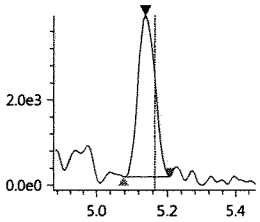
8_2-FTS_1
Conc ----
RT ---- Area ----
Q 526.90>506.90 3.20e1



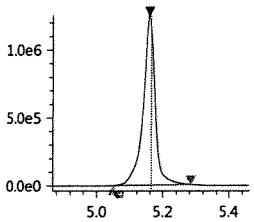
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 0.00e0



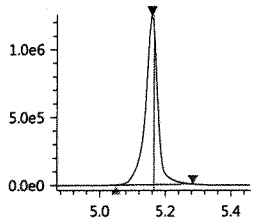
PFUnA
Conc 0.0146
RT 5.138 Area 12356
Q 563.00>518.90 3.98e3



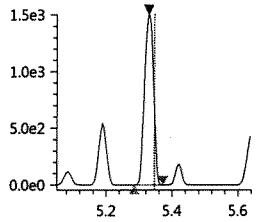
PFUnA-13C_IS
Conc 5.0000
RT 5.159 Area 3292691
ISTD 564.80>519.95 1.26e6



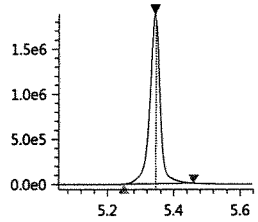
PFUnA-13C
Conc 4.8064
RT 5.159 Area 3292691
Q 564.80>519.95 1.26e6



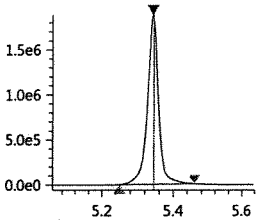
PFDoA
Conc 0.0054
RT 5.329 Area 2823
Q 613.05>569.00 1.50e3



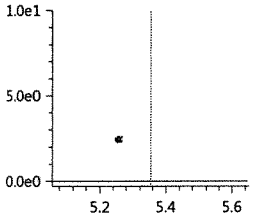
PFDoA-13C
Conc 4.6357
RT 5.343 Area 4067712
Q 614.80>569.95 1.89e6



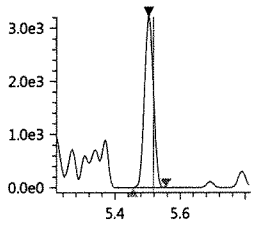
PFDoA-13C_IS
Conc 5.0000
RT 5.343 Area 4067712
ISTD 614.80>569.95 1.89e6



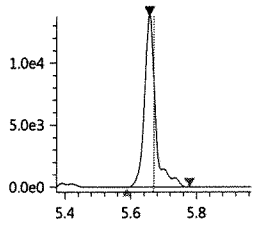
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



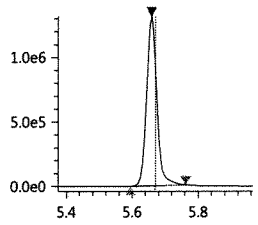
PFTrDA
Conc 0.0100
RT 5.503 Area 6320
Q 663.00>618.90 3.21e3



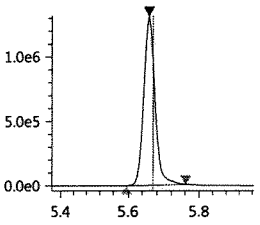
PFTeDA
Conc 0.0392
RT 5.657 Area 31792
Q 713.40>669.00 1.38e4



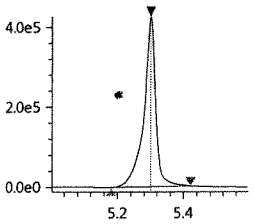
PFTeDA-13C
Conc 4.7258
RT 5.659 Area 2837621
Q 714.70>669.90 1.32e6



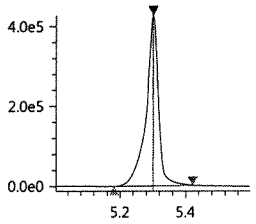
PFTeDA-13C_IS
Conc 5.0000
RT 5.659 Area 2837621
ISTD 714.70>669.90 1.32e6



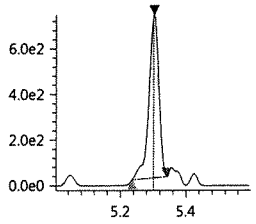
FOSA-13C_IS
Conc 5.0000
RT 5.302 Area 1095896
ISTD 506.00>78.05 4.27e5



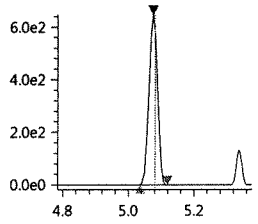
FOSA-13C
Conc 4.5081
RT 5.302 Area 1095896
Q 506.00>78.05 4.27e5



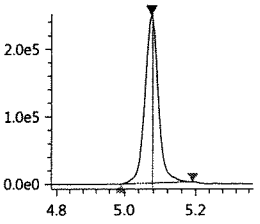
FOSA
Conc 0.0046
RT 5.303 Area 1500
Q 498.00>78.00 7.48e2



N-MeFOSAA
Conc 0.0115
RT 5.076 Area 1164
Q 570.20>419.00 6.48e2



N-MeFOSAA-d3
Conc 4.6869
RT 5.075 Area 642213
Q 572.80>419.05 2.52e5



7/28/2017_b2

ALS Environmental

Injection Log

LCMS06 -Shimadzu 8050

ICAL Date:	7/28/2017		
Cal. Std. xp:	12/27/17, ICV 12/01/17		
ICAL ID:	**KC1700134**		
LIMS ID:	555466		

1st Review: Liz Domreis

2nd Review: [illegible] 7/31/17

Column: Phenomenx EVO-C18 100X4.6 mm S/N: H17-159040

Mobile Phases **A:** 5mM Ammonium Acetate in H2O 17-OLC-01-68B + 17-OLC-01-71C **B:** 5mM Ammonium Acetate In MeOH 17-OLC-01-68A + 17-OLC-01-71B

	Sample Name		File Name	Acquisition Method	Dilution	R	Comments
1	IB	IB	072817_106	PFAS_060917.lcm	1x		Passes LAB QAP only for PFHpS, submitted for review in 072817_b1
2	0.01 ppb	17-OLC-01-73C	072817_107	PFAS_060917.lcm	1x		Passes LAB QAP only for PFHpS, submitted for review in 072817_b1
3	0.02 ppb	17-OLC-01-73D	072817_108	PFAS_060917.lcm	1x		Passes LAB QAP only for PFHpS, submitted for review in 072817_b1
4	0.05ppb	17-OLC-01-73E	072817_109	PFAS_060917.lcm	1x		Passes LAB QAP only for PFHpS, submitted for review in 072817_b1
5	0.1ppb	17-OLC-01-73F	072817_110	PFAS_060917.lcm	1x		Passes LAB QAP only for PFHpS, submitted for review in 072817_b1
6	0.25ppb	17-OLC-01-73G	072817_111	PFAS_060917.lcm	1x		Passes LAB QAP only for PFHpS, submitted for review in 072817_b1
7	0.50ppb	17-OLC-01-73H	072817_112	PFAS_060917.lcm	1x		Passes LAB QAP only for PFHpS, submitted for review in 072817_b1
8	1 ppb	17-OLC-01-73I	072817_113	PFAS_060917.lcm	1x		Passes LAB QAP only for PFHpS, submitted for review in 072817_b1
9	5 ppb	17-OLC-01-73J	072817_114	PFAS_060917.lcm	1x		Passes LAB QAP only for PFHpS, submitted for review in 072817_b1
10	10 ppb	17-OLC-01-73K	072817_115	PFAS_060917.lcm	1x		Passes LAB QAP only for PFHpS, submitted for review in 072817_b1
11	20 ppb	17-OLC-01-73L	072817_116	PFAS_060917.lcm	1x		Passes LAB QAP only for PFHpS, submitted for review in 072817_b1
12	IB	IB	072817_117	PFAS_060917.lcm	1x		Passes LAB QAP only for PFHpS, submitted for review in 072817_b1
13	1 ppb ICV	17-OLC-01-73M	072817_118	PFAS_060917.lcm	1x		Passes LAB QAP only for PFHpS, submitted for review in 072817_b1
14	IB	IB	072817_119	PFAS_060917.lcm	1x		submitted for review in 072817_b1
15	1ppb T-PFOA	17-OLC-01-73O	072817_120	PFAS_060917.lcm	1x		submitted for review in 072817_b1
16	1 ppb	17-OLC-01-73N	072817_129	PFAS_060917.lcm	1x	☑	
17	IB	IB	072817_130	PFAS_060917.lcm	1x	☑	
18	KQ1710309-04	MB	072817_131	PFAS_060917.lcm	1x	☑	
19	KQ1710309-03	LCS	072817_132	PFAS_060917.lcm	1x	☑	
20	K1707573-001		072817_133	PFAS_060917.lcm	1x	☑	
21	KQ1710309-01	K1707573-001 MS	072817_134	PFAS_060917.lcm	1x	☑	
22	KQ1710309-02	K1707573-001 DMS	072817_135	PFAS_060917.lcm	1x	☑	
23	KQ1710167-01	LCS	072817_136	PFAS_060917.lcm	1x	☑	Report only PFBA, PFDA, PFUNA
24	KQ1710167-02	DLCS	072817_137	PFAS_060917.lcm	1x	☑	Report only PFBA, PFHxA, PFOA, PFNA, PFDA, PFUNA, PFDoA
25	K1707746-016 20X		072817_138	PFAS_060917.lcm	20x	☑	Report only PFHxS, PFOA
26	K1707746-016		072817_139	PFAS_060917.lcm	1x	☑	Report only PFBA, PFHxA, PFNA, PFOS + surrogates
27	K1707746-004 100X		072817_140	PFAS_060917.lcm	100x	☑	Report only PFBS, PFHxA, PFHpA, PFHxS, PFOA, PFHpA, PFOS
28	K1707681-008 20X		072817_141	PFAS_060917.lcm	20x	☑	Report only PFHxS
29	K1707108-005 250X		072817_142	PFAS_060917.lcm	250x	☑	Report only PFBA, PFPeA, PFHpA, PFOA
30	K1707108-008 250X		072817_143	PFAS_060917.lcm	250x	☑	Report only PFBA, PFPeA, PFHpA, PFOA, PFOS
31	1 ppb	17-OLC-01-73N	072817_144	PFAS_060917.lcm	1x	☑	
32	IB	IB	072817_145	PFAS_060917.lcm	1x	☑	

J:\LCMS06\Data\072817_b2\072817_b2 injection log

Validation Report

Data File: J:\LCMS06\Data\072817_b2\072817_129
Lab ID: KQ1710515-01
RunType: CCV
Matrix: Pulp Sheet

Date Acquired: 7/28/17 13:41
Batch ID: 555466
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Above Highest ICAL Level	X	

Primary Review: EOD 7/31/17

Secondary Review: MM 7/31/17

Printed: 7/31/17 9:15
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072817_b2\072817_129	**Instrument:**	K-LCMS-06
Acqu Date:	7/28/17 13:41	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1710515-01	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	V	**Matrix:**	Pulp Sheet
Prod Code:	PFOA	**Collect Date:**	7/2/17	**Receive Date:**	7/19/17

Analysis Lot:	*555466	**Prep Lot:**		**Report Group:**	KQ1710515
Analysis Method:	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700134
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.685	367000	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
13C4-PFBA	3.406	2046717	4.5002	Y
13C2-PFHxA	4.234	2769348	4.5588	Y
18O2-PFHxS	4.422	405226	4.7697	Y
13C2-6:2 FTS	4.587	228859	4.3469	Y
13C4-PFOA	4.598	3391875	4.7327	Y
13C5-PFNA	4.779	3258868	4.6092	Y
13C4-PFOS	4.764	460279	4.7341	Y
13C2-PFDA	4.968	2917614	4.7039	Y
13C2-PFUnDA	5.155	3244362	4.7229	Y
13C2-PFDoDA	5.339	4113736	4.6753	Y
D7-MeFOSE	5.659	361674	4.8809	Y
D9-EtFOSE	5.792	376648	4.8845	Y
D5-EtFOSA	5.825	466416	4.6938	Y
13C2-8:2 FTS	4.966	234212	4.5366	Y
13C2-PFTeDA	5.655	2860693	4.7512	Y
13C4-PFHpA	4.423	2509025	4.5101	Y
13C5-PFPeA	3.973	908376	4.4577	Y
13C3-PFBS	4.023	612665	4.6534	Y
13C8-FOSA	5.297	1075207	4.4108	Y

Target Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
Perfluorobutanoic acid (PFBA)	3.407	456427	1.0525	Y
Perfluoropentanoic acid (PFPeA)	3.973	576567	1.0811	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/31/17 9:15
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072817_b2\072817_129	**Instrument:**	K-LCMS-06
Acqu Date:	7/28/17 13:41	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1710515-01	**Raw Units:**	ng/mL

Target Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.022	106980	0.9940	Y
Perfluorohexanoic acid (PFHxA)	4.235	507095	1.0959	Y
Perfluoroheptanoic acid (PFHpA)	4.423	535676	1.0913	Y
Perfluorohexane sulfonic acid (PFHxS)	4.420	91523	0.9268	Y
Perfluorooctanoic acid (PFOA)	4.598	715845	0.9431	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.590	59030	0.8198	Y
Perfluorononanoic acid (PFNA)	4.779	637774	1.1597	Y
Perfluorooctane sulfonic acid (PFOS)	4.763	64585	0.9328	Y
Perfluorodecanoic acid (PFDA)	4.968	603929	0.9278	Y
Perfluoroundecanoic acid (PFUnDA)	5.155	605940	1.0589	Y
Perfluorooctane sulfonamide (FOSA)	5.297	337418	1.0724	Y
Perfluorododecanoic acid (PFDoDA)	5.339	461686	1.0336	Y
Perfluorotridecanoic acid (PFTrDA)	5.506	589939	1.0183	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.689	112182	0.9477	Y
N-Methyl perfluorooctane sulfonamidoethanol *	5.667	152534	1.0306	Y
Perfluorotetradecanoic acid (PFTeDA)	5.655	296779	1.0831	Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.804	175514	0.9918	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.831	19311	0.9694	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.965	48528	1.0231	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.587	68599	1.3139	Y
Perfluorodecane sulfonic acid (PFDS)	5.131	74074	1.0240	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/31/17 9:15
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072817_129

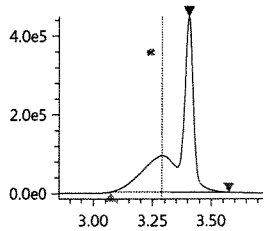
Sample ID: 1 ppb
Date acquired: 7/28/2017 1:41:48 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b2\072817_129.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 1

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.406	2046717	2046717	2	5.0000	ng/mL	5	100.00	Auto
PFBA-13C	3.406	2046717	367000	1	4.5002	ng/mL	5	90.00	Auto
PFBA	3.407	456427	2046717	2	1.0525	ng/mL	1	105.25	M
PFPeA-13C_IS	3.973	908376	908376	4	5.0000	ng/mL	5	100.00	Auto
PFPeA-13C	3.973	908376	367000	1	4.4577	ng/mL	5	89.15	Auto
PFPeA	3.973	576567	908376	4	1.0811	ng/mL	1	108.11	Auto
PFBS_1	4.022	106980	612665	16	0.9940	ng/mL	0.88737	112.02	Auto
PFBS-13C	4.023	612665	367000	1	4.6534	ng/mL	5	93.07	Auto
PFBS-13C_IS	4.023	612665	612665	16	5.0000	ng/mL	5	100.00	Auto
PFHxA-13C_IS	4.234	2769348	2769348	6	5.0000	ng/mL	5	100.00	Auto
PFHxA-13C	4.234	2769348	367000	1	4.5588	ng/mL	5	91.18	Auto
PFHxA	4.235	507095	2769348	6	1.0959	ng/mL	1	109.59	Auto
HPFO_DA	4.299	128085	701097	3	1.1028	ng/mL	1	110.28	Auto
HFPO_DA-13C_IS	4.300	701097	701097	3	5.0000	ng/mL	5	100.00	Auto
HFPO_DA-13C	4.300	701097	367000	1	4.4934	ng/mL	5	89.87	Auto
4_2-FTS-13C_IS	4.209	310442	310442	5	5.0000	ng/mL	5	100.00	Auto
4_2-FTS-13C	4.209	310442	367000	1	4.1901	ng/mL	5	83.80	Auto
4_2-FTS_1	4.209	71636	310442	5	1.0021	ng/mL	0.937218	106.92	Auto
PFHpA	4.423	535676	2509025	8	1.0913	ng/mL	1	109.13	Auto
PFHpA-13C_IS	4.423	2509025	2509025	8	5.0000	ng/mL	5	100.00	Auto
PFHpA-13C	4.423	2509025	367000	1	4.5101	ng/mL	5	90.20	Auto
PFHxS-18O_IS	4.422	405226	405226	7	5.0000	ng/mL	5	100.00	Auto
PFHxS-18O	4.422	405226	367000	1	4.7697	ng/mL	5	95.39	Auto
PFHxS_1	4.420	91523	405226	7	0.9268	ng/mL	0.913075	101.50	Auto
6_2-FTS-13C	4.587	228859	367000	1	4.3469	ng/mL	5	86.94	Auto
6_2-FTS-13C_IS	4.587	228859	228859	10	5.0000	ng/mL	5	100.00	Auto
6_2-FTS_1	4.587	68599	228859	10	1.3139	ng/mL	0.951168	138.13	Auto
PFHpS_1	4.590	59030	405226	7	0.8198	ng/mL	0.953438	85.99	Auto
PFOA-13C_IS	4.598	3391875	3391875	9	5.0000	ng/mL	5	100.00	Auto
PFOA-13C	4.598	3391875	367000	1	4.7327	ng/mL	5	94.65	Auto
PFOA	4.598	715845	3391875	9	0.9431	ng/mL	1	94.31	Auto
PFOS_1	4.763	64585	460279	13	0.9328	ng/mL	0.929229	100.38	Auto
PFOS-13C_IS	4.764	460279	460279	13	5.0000	ng/mL	5	100.00	Auto
PFOS-13C	4.764	460279	367000	1	4.7341	ng/mL	5	94.68	Auto
PFNA-13C_IS	4.779	3258868	3258868	11	5.0000	ng/mL	5	100.00	Auto
PFNA-13C	4.779	3258868	367000	1	4.6092	ng/mL	5	92.18	Auto
PFNA	4.779	637774	3258868	11	1.1597	ng/mL	1	115.97	Auto
PFDA-13C_IS	4.968	2917614	2917614	12	5.0000	ng/mL	5	100.00	Auto
PFDA-13C	4.968	2917614	367000	1	4.7039	ng/mL	5	94.08	Auto
PFDA	4.968	603929	2917614	12	0.9278	ng/mL	1	92.78	Auto
8_2-FTS-13C_IS	4.966	234212	234212	15	5.0000	ng/mL	5	100.00	Auto
8_2-FTS-13C	4.966	234212	367000	1	4.5366	ng/mL	5	90.73	Auto
8_2-FTS_1	4.965	48528	234212	15	1.0231	ng/mL	0.960045	106.57	Auto
PFDS_1	5.131	74074	460279	13	1.0240	ng/mL	0.964667	106.15	Auto
PFUnA	5.155	605940	3244362	14	1.0589	ng/mL	1	105.89	Auto
PFUnA-13C_IS	5.155	3244362	3244362	14	5.0000	ng/mL	5	100.00	Auto
PFUnA-13C	5.155	3244362	367000	1	4.7229	ng/mL	5	94.46	Auto
PFDoA	5.339	461686	4113736	17	1.0336	ng/mL	1	103.36	Auto
PFDoA-13C	5.339	4113736	367000	1	4.6753	ng/mL	5	93.51	Auto
PFDoA-13C_IS	5.339	4113736	4113736	17	5.0000	ng/mL	5	100.00	Auto
10_2-FtS_1	5.346	45326	234212	15	1.1573	ng/mL	0.966191	119.78	Auto
PFTrDA	5.506	589939	2860693	22	1.0183	ng/mL	1	101.83	Auto
PFTeDA	5.655	296779	2860693	22	1.0831	ng/mL	1	108.31	Auto
PFTeDA-13C	5.655	2860693	367000	1	4.7512	ng/mL	5	95.02	Auto
PFTeDA-13C_IS	5.655	2860693	2860693	22	5.0000	ng/mL	5	100.00	Auto
FOSA-13C_IS	5.297	1075207	1075207	18	5.0000	ng/mL	5	100.00	Auto
FOSA-13C	5.297	1075207	367000	1	4.4108	ng/mL	5	88.22	Auto
FOSA	5.297	337418	1075207	18	1.0724	ng/mL	1	107.24	Auto
N-MeFOSAA	5.075	117560	669708	19	1.1588	ng/mL	1	115.88	Auto
N-MeFOSAA-d3	5.072	669708	367000	1	4.8742	ng/mL	5	97.48	Auto
N-MeFOSAA-d3_IS	5.072	669708	669708	19	5.0000	ng/mL	5	100.00	Auto
N-MeFOSA_IS	5.685	367000	367000	1	5.0000	ng/mL	5	100.00	Auto
N-MeFOSA	5.689	112182	361674	20	0.9477	ng/mL	1	94.77	Auto
N-MeFOSE-d7	5.659	361674	367000	1	4.8809	ng/mL	5	97.62	Auto
N-MeFOSE-d7_IS	5.659	361674	361674	20	5.0000	ng/mL	5	100.00	Auto

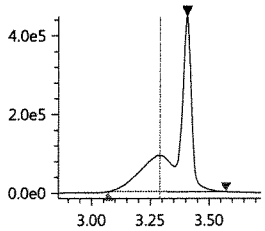
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-MeFOSE	5.667	152534	361674	20	1.0306	ng/mL	1	103.06	Auto
N-EtFOSAA	5.179	103823	644390	21	0.9803	ng/mL	1	98.03	Auto
N-EtFOSAA-d5_IS	5.172	644390	644390	21	5.0000	ng/mL	5	100.00	Auto
N-EtFOSAA-d5	5.172	644390	367000	1	4.8195	ng/mL	5	96.39	Auto
N-EtFOSA-d9_IS	5.825	466416	466416	23	5.0000	ng/mL	5	100.00	Auto
N-EtFOSA-d9	5.825	466416	367000	1	4.6938	ng/mL	5	93.88	Auto
N-EtFOSA	5.831	19311	466416	23	0.9694	ng/mL	1	96.94	Auto
N-EtFOSE-d9_IS	5.792	376648	376648	24	5.0000	ng/mL	5	100.00	Auto
N-EtFOSE-d9	5.792	376648	367000	1	4.8845	ng/mL	5	97.69	Auto
N-EtFOSE	5.804	175514	376648	24	0.9918	ng/mL	1	99.18	Auto

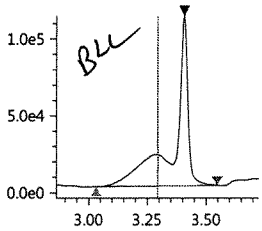
PFBA-13C_IS
Conc 5.0000
RT 3.406 Area 2046717
ISTD 216.90>172.15 4.50e5



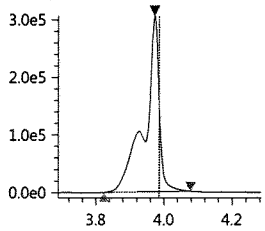
PFBA-13C
Conc 4.5002
RT 3.406 Area 2046717
Q 216.90>172.15 4.50e5



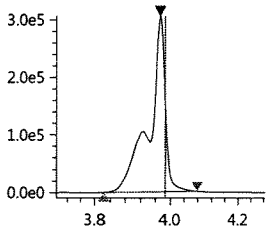
PFBA
Conc 1.0525
RT 3.407 Area 456427
Q 213.00>169.10 1.15e5



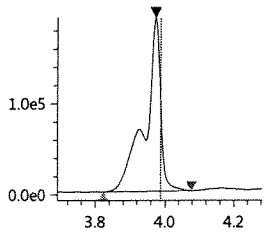
PFPeA-13C_IS
Conc 5.0000
RT 3.973 Area 908376
ISTD 267.90>223.00 3.07e5



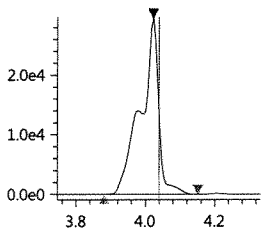
PFPeA-13C
Conc 4.4577
RT 3.973 Area 908376
Q 267.90>223.00 3.07e5



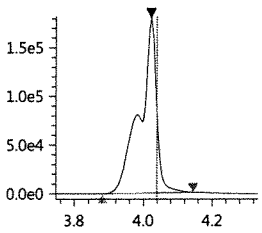
PFPeA
Conc 1.0811
RT 3.973 Area 576567
Q 263.05>219.10 1.95e5



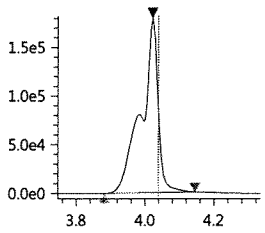
PFBS_1
Conc 0.9940
RT 4.022 Area 106980
Q 299.00>80.00 2.97e4



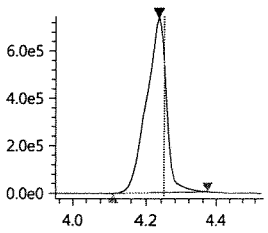
PFBS-13C
Conc 4.6534
RT 4.023 Area 612665
Q 301.80>80.00 1.82e5



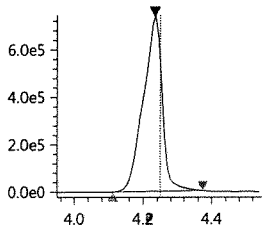
PFBS-13C_IS
Conc 5.0000
RT 4.023 Area 612665
ISTD 301.80>80.00 1.82e5



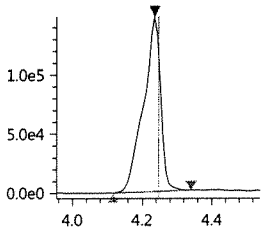
PFHxA-13C_IS
Conc 5.0000
RT 4.234 Area 2769348
ISTD 314.90>270.10 7.47e5



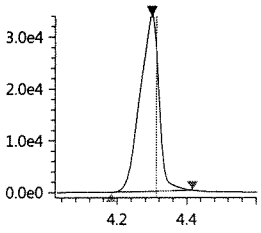
PFHxA-13C
Conc 4.5588
RT 4.234 Area 2769348
Q 314.90>270.10 7.47e5



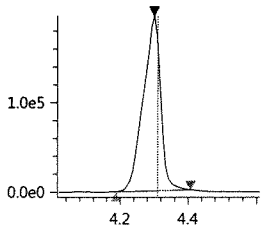
PFHxA
Conc 1.0959
RT 4.235 Area 507095
Q 313.00>269.00 1.50e5



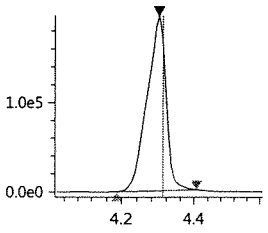
HPFO_DA
Conc 1.1028
RT 4.299 Area 128085
Q 329.00>169.00 3.41e4



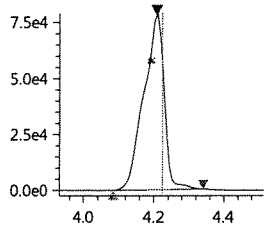
HFPO_DA-13C_IS
Conc 5.0000
RT 4.300 Area 701097
ISTD 332.00>286.80 1.97e5



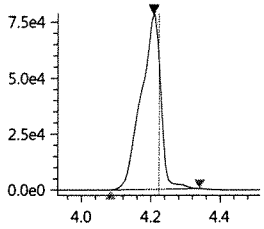
HFPO_DA-13C
Conc 4.4934
RT 4.300 Area 701097
Q 332.00>286.80 1.97e5



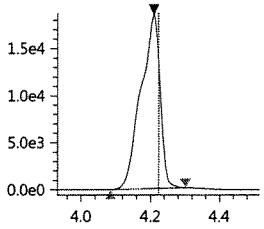
4_2-FTS-13C_IS
Conc 5.0000
RT 4.209 Area 310442
ISTD 328.80>309.05 7.91e4



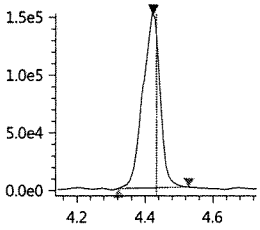
4_2-FTS-13C
Conc 4.1901
RT 4.209 Area 310442
Q 328.80>309.05 7.91e4



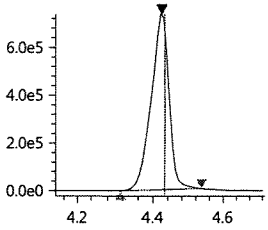
4_2-FTS_1
Conc 1.0021
RT 4.209 Area 71636
Q 327.00>307.05 1.88e4



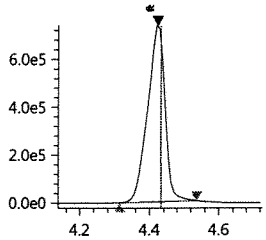
PFHpA
Conc 1.0913
RT 4.423 Area 535676
Q 362.90>319.00 1.53e5



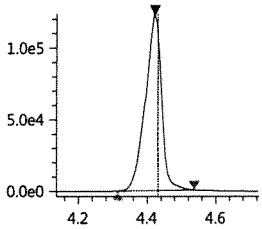
PFHpA-13C_IS
Conc 5.0000
RT 4.423 Area 2509025
ISTD 366.90>322.10 7.40e5



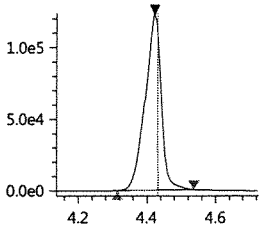
PFHpA-13C
Conc 4.5101
RT 4.423 Area 2509025
Q 366.90>322.10 7.40e5



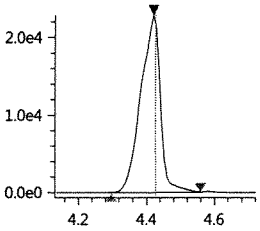
PFHxS-18O_IS
Conc 5.0000
RT 4.422 Area 405226
ISTD 402.70>84.05 1.24e5



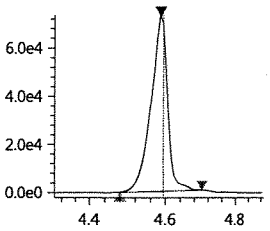
PFHxS-18O
Conc 4.7697
RT 4.422 Area 405226
Q 402.70>84.05 1.24e5



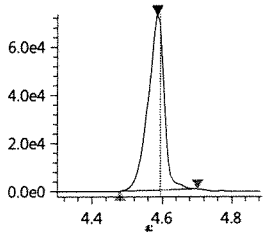
PFHxS_1
Conc 0.9268
RT 4.420 Area 91523
Q 399.00>80.00 2.29e4



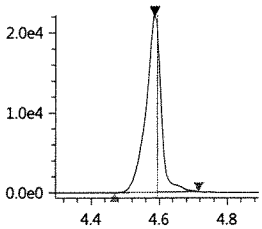
6_2-FTS-13C
Conc 4.3469
RT 4.587 Area 228859
Q 428.90>409.00 7.37e4



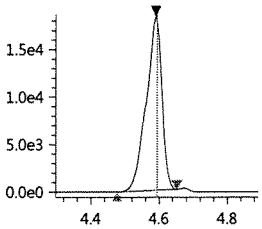
6_2-FTS-13C_IS
Conc 5.0000
RT 4.587 Area 228859
ISTD 428.90>409.00 7.37e4



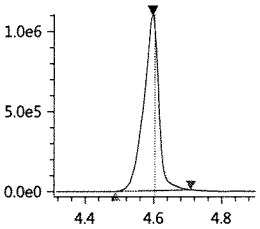
6_2-FTS_1
Conc 1.3139
RT 4.587 Area 68599
Q 427.00>407.00 2.22e4



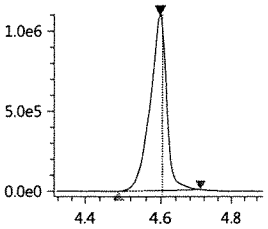
PFHpS_1
Conc 0.8198
RT 4.590 Area 59030
Q 449.00>80.15 1.87e4



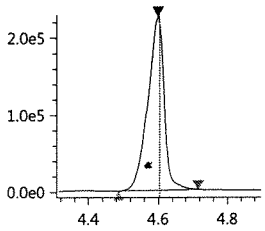
PFOA-13C_IS
Conc 5.0000
RT 4.598 Area 3391875
ISTD 416.80>372.05 1.11e6



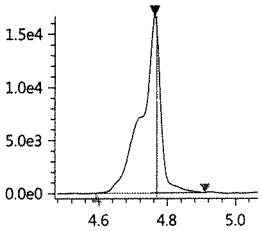
PFOA-13C
Conc 4.7327
RT 4.598 Area 3391875
Q 416.80>372.05 1.11e6



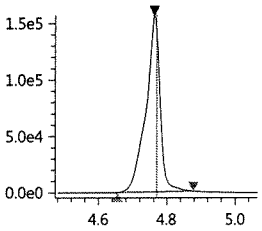
PFOA
Conc 0.9431
RT 4.598 Area 715845
Q 413.00>369.00 2.30e5



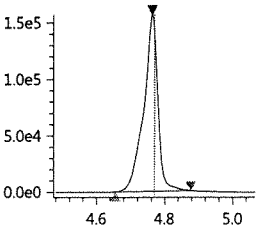
PFOS_1
Conc 0.9328
RT 4.763 Area 64585
Q 499.00>80.00 1.67e4



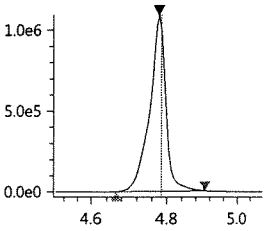
PFOS-13C_IS
Conc 5.0000
RT 4.764 Area 460279
ISTD 502.80>80.05 1.57e5



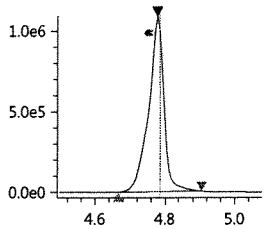
PFOS-13C
Conc 4.7341
RT 4.764 Area 460279
Q 502.80>80.05 1.57e5



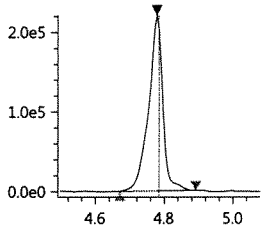
PFNA-13C_IS
Conc 5.0000
RT 4.779 Area 3258868
ISTD 467.80>423.00 1.10e6



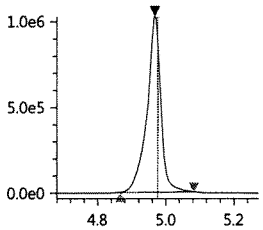
PFNA-13C
Conc 4.6092
RT 4.779 Area 3258868
Q 467.80>423.00 1.10e6



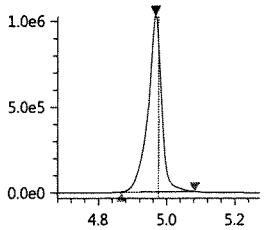
PFNA
Conc 1.1597
RT 4.779 Area 637774
Q 463.00>418.90 2.22e5



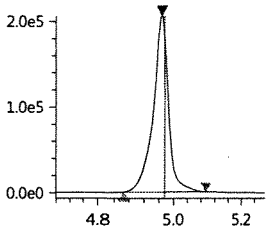
PFDA-13C_IS
Conc 5.0000
RT 4.968 Area 2917614
ISTD 514.80>469.95 1.03e6



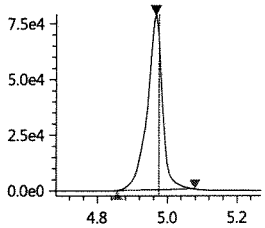
PFDA-13C
Conc 4.7039
RT 4.968 Area 2917614
Q 514.80>469.95 1.03e6



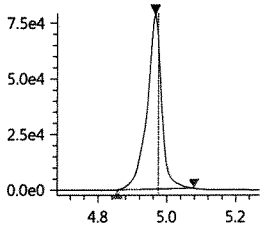
PFDA
Conc 0.9278
RT 4.968 Area 603929
Q 513.00>468.80 2.06e5



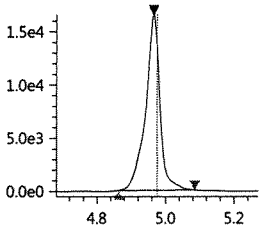
8_2-FTS-13C_IS
Conc 5.0000
RT 4.966 Area 234212
ISTD 528.80>509.00* 7.94e4



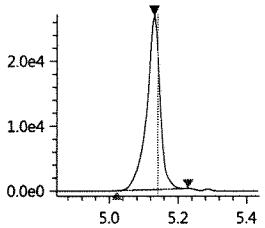
8_2-FTS-13C
Conc 4.5366
RT 4.966 Area 234212
Q 528.80>509.00 7.94e4



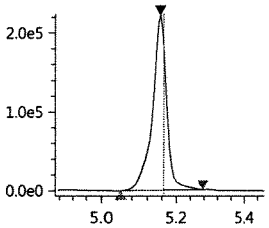
8_2-FTS_1
Conc 1.0231
RT 4.965 Area 48528
Q 526.90>506.90 1.66e4



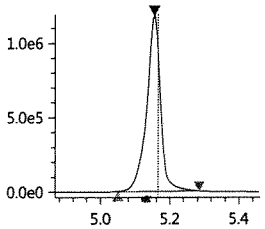
PFDS_1
Conc 1.0240
RT 5.131 Area 74074
Q 599.00>79.90 2.72e4



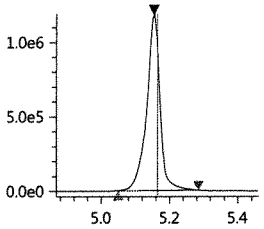
PFUnA
Conc 1.0589
RT 5.155 Area 605940
Q 563.00>518.90 2.24e5



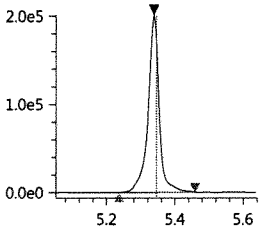
PFUnA-13C_IS*
Conc 5.0000
RT 5.155 Area 3244362
ISTD 564.80>519.95 1.19e6



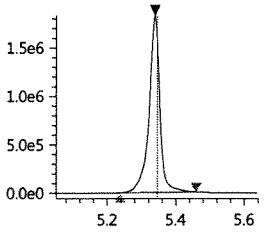
PFUnA-13C
Conc 4.7229
RT 5.155 Area 3244362
Q 564.80>519.95 1.19e6



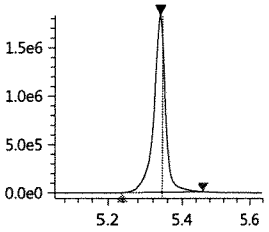
PFDoA
Conc 1.0336
RT 5.339 Area 461686
Q 613.05>569.00 2.01e5



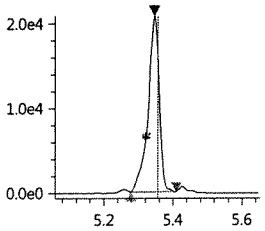
PFDoA-13C
Conc 4.6753
RT 5.339 Area 4113736
Q 614.80>569.95 1.83e6



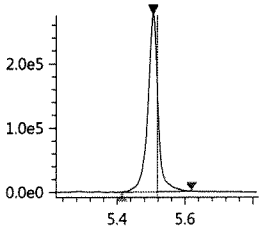
PFDoA-13C_IS
Conc 5.0000
RT 5.339 Area 4113736
ISTD 614.80>569.95 1.83e6



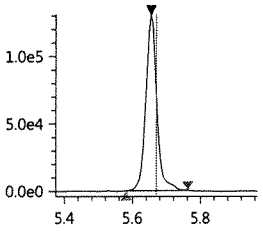
10_2-FtS_1
Conc 1.1573
RT 5.346 Area 45326
Q 627.00>606.95 2.09e4



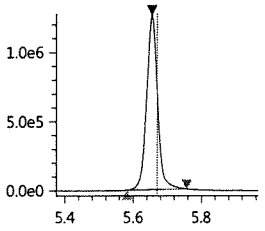
PFTrDA
Conc 1.0183
RT 5.506 Area 589939
Q 663.00>618.90 2.76e5



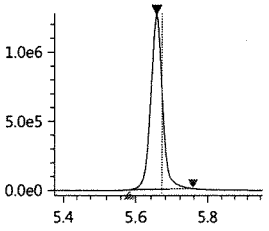
PFTeDA
Conc 1.0831
RT 5.655 Area 296779
Q 713.40>669.00 1.31e5



PFTeDA-13C
Conc 4.7512
RT 5.655 Area 2860693
Q 714.70>669.90 1.28e6



PFTeDA-13C_IS
Conc 5.0000
RT 5.655 Area 2860693
ISTD 714.70>669.90 1.28e6

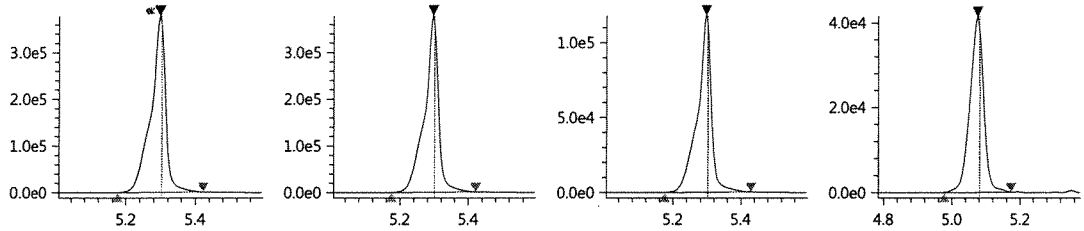


FOSA-13C_IS
Conc 5.0000
RT 5.297 Area 1075207
ISTD 506.00>78.05 3.79e5

FOSA-13C
Conc 4.4108
RT 5.297 Area 1075207
Q 506.00>78.05 3.79e5

FOSA
Conc 1.0724
RT 5.297 Area 337418
Q 498.00>78.00 1.18e5

N-MeFOSAA
Conc 1.1588
RT 5.075 Area 117560
Q 570.20>419.00 4.17e4



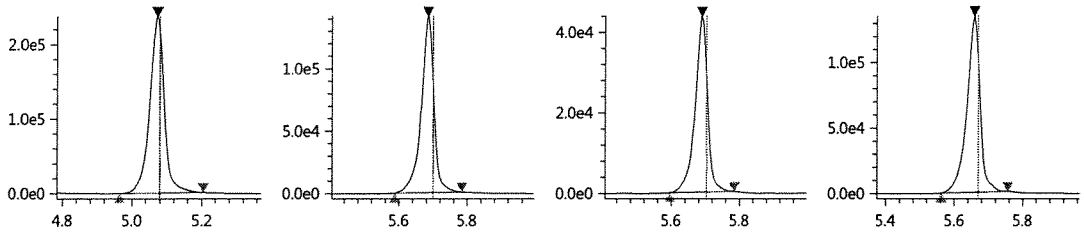
N-MeFOSAA-d3
Conc 4.8742
RT 5.072 Area 669708
Q 572.80>419.05 2.39e5

N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.072 Area 669708
ISTD 572.80>419.05 2.39e5

N-MeFOSA_IS
Conc 5.0000
RT 5.685 Area 367000
ISTD 514.90>168.90 1.43e5

N-MeFOSA
Conc 0.9477
RT 5.689 Area 112182
Q 512.00>169.10 4.41e4

N-MeFOSE-d7
Conc 4.8809
RT 5.659 Area 361674
Q 622.70>59.10 1.36e5



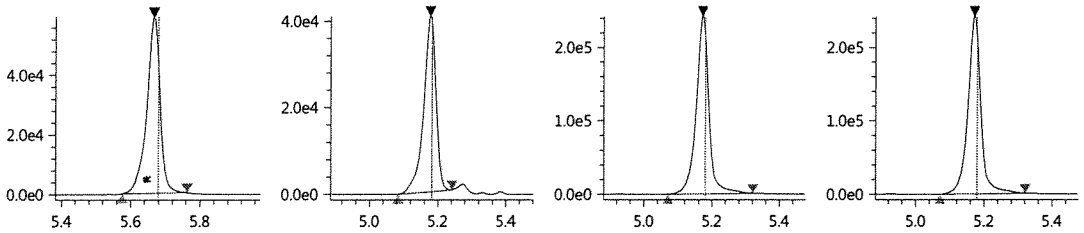
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.659 Area 361674
ISTD 622.70>59.10 1.36e5

N-MeFOSE
Conc 1.0306
RT 5.667 Area 152534
Q 616.00>59.00 5.98e4

N-EtFOSAA
Conc 0.9803
RT 5.179 Area 103823
Q 584.20>418.95 4.11e4

N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.172 Area 644390
ISTD 588.80>419.00 2.42e5

N-EtFOSAA-d5
Conc 4.8195
RT 5.172 Area 644390
Q 588.80>419.00 2.42e5



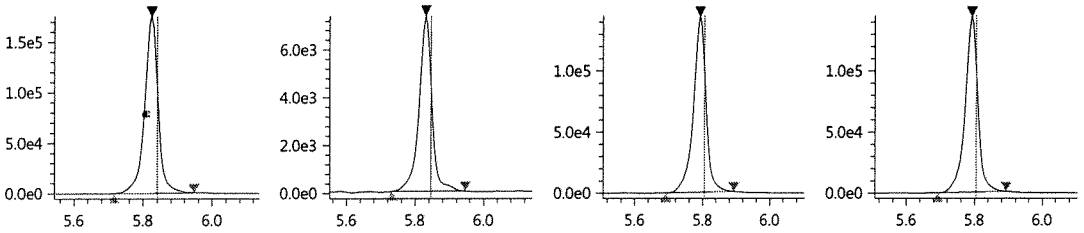
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.825 Area 466416
ISTD 530.90>169.15 1.76e5

N-EtFOSA-d9
Conc 4.6938
RT 5.825 Area 466416
Q 530.90>169.15 1.76e5

N-EtFOSA
Conc 0.9694
RT 5.831 Area 19311
Q 526.90>169.10 7.43e3

N-EtFOSE-d9_IS
Conc 5.0000
RT 5.792 Area 376648
ISTD 638.70>59.10 1.45e5

N-EtFOSE-d9
Conc 4.8845
RT 5.792 Area 376648
Q 638.70>59.10 1.45e5



N-EtFOSE
Conc 0.9918
RT 5.804 Area 175514
Q 630.00>58.90 6.81e4

Before LEJD 7/31/17

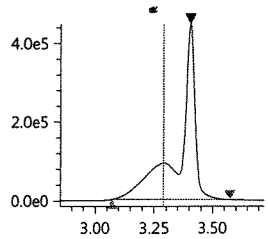
Insight Report

Printed at 7/30/2017 1:18:39 PM

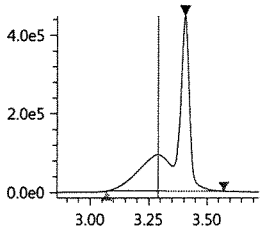
072817_129

Sample ID: 1 ppb
Date acquired: 7/28/2017 1:41:48 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b2\072817_129.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 1

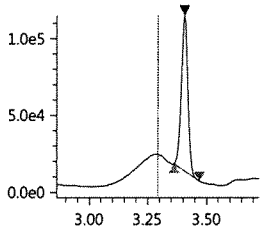
PFBA-13C_IS
Conc 5.0000
RT 3.406 Area 2046717
ISTD 216.90>172.15 4.50e5



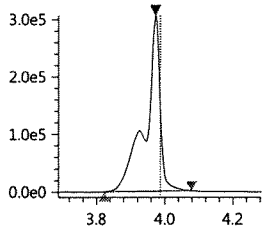
PFBA-13C
Conc 4.5002
RT 3.406 Area 2046717
Q 216.90>172.15 4.50e5



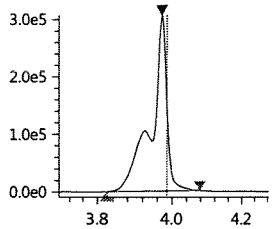
PFBA
Conc 0.4489
RT 3.407 Area 194694
Q 213.00>169.10 1.15e5



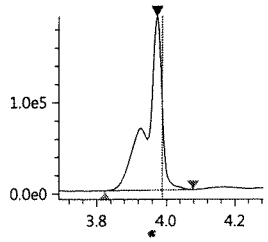
PFPeA-13C_IS
Conc 5.0000
RT 3.973 Area 908376
ISTD 267.90>223.00 3.07e5



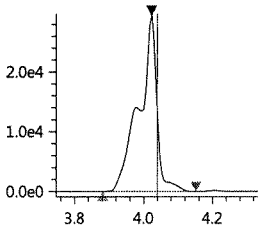
PFPeA-13C
Conc 4.4577
RT 3.973 Area 908376
Q 267.90>223.00 3.07e5



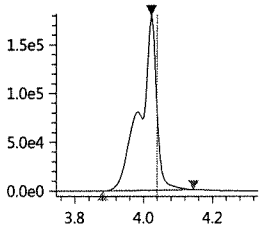
PFPeA
Conc 1.0811
RT 3.973 Area 576567
Q 263.05>219.10 1.95e5



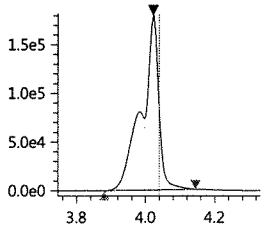
PFBS_1
Conc 0.9940
RT 4.022 Area 106980
Q 299.00>80.00 2.97e4



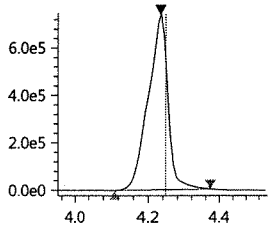
PFBS-13C
Conc 4.6534
RT 4.023 Area 612665
Q 301.80>80.00 1.82e5



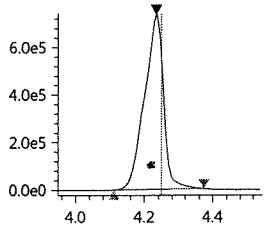
PFBS-13C_IS
Conc 5.0000
RT 4.023 Area 612665
ISTD 301.80>80.00 1.82e5



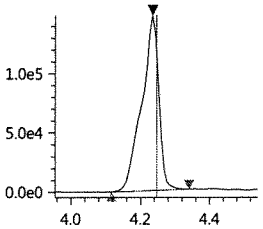
PFHxA-13C_IS
Conc 5.0000
RT 4.234 Area 2769348
ISTD 314.90>270.10 7.47e5



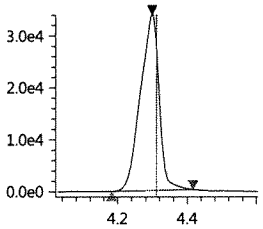
PFHxA-13C
Conc 4.5588
RT 4.234 Area 2769348
Q 314.90>270.10 7.47e5



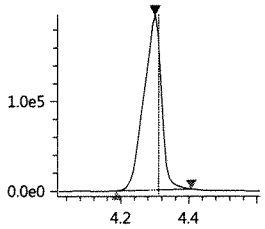
PFHxA
Conc 1.0959
RT 4.235 Area 507095
Q 313.00>269.00 1.50e5



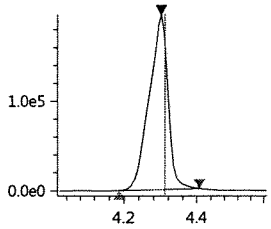
HPFO_DA
Conc 1.1028
RT 4.299 Area 128085
Q 329.00>169.00 3.41e4



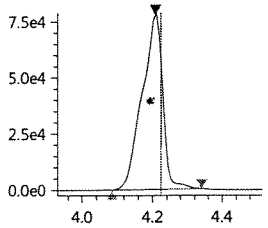
HFPO_DA-13C_IS
Conc 5.0000
RT 4.300 Area 701097
ISTD 332.00>286.80 1.97e5



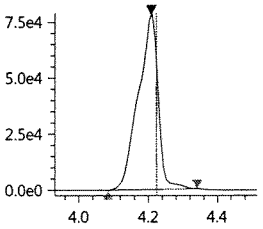
HFPO_DA-13C
Conc 4.4934
RT 4.300 Area 701097
Q 332.00>286.80 1.97e5



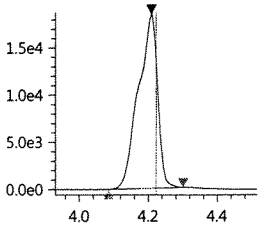
4_2-FTS-13C_IS
Conc 5.0000
RT 4.209 Area 310442
ISTD 328.80>309.05 7.91e4



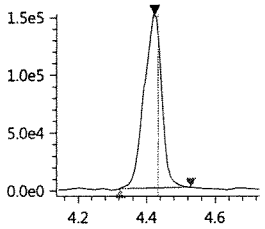
4_2-FTS-13C
Conc 4.1901
RT 4.209 Area 310442
Q 328.80>309.05 7.91e4



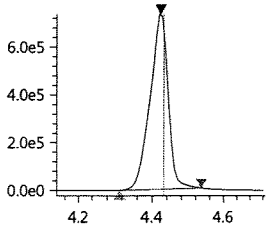
4_2-FTS_1
Conc 1.0021
RT 4.209 Area 71636
Q 327.00>307.05 1.88e4



PFHpA
Conc 1.0913
RT 4.423 Area 535676
Q 362.90>319.00 1.53e5



PFHpA-13C_IS
Conc 5.0000
RT 4.423 Area 2509025
ISTD 366.90>322.10 7.40e5



7/31/17

LOD 7/31/17

Insight Report

Printed at 7/30/2017 5:55:51 PM

072817_130

Sample ID: IB
Date acquired: 7/28/2017 1:52:18 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b2\072817_130.lcd
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 1

target analytes < MRL

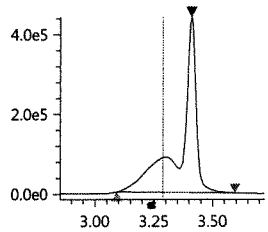
Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.411	1974382	1974382	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.411	1974382	363385	1	4.3843	ng/mL	----	----	Auto
PFBA	3.412	13126	1974382	2	0.0314	ng/mL	----	----	M
PFPeA-13C_IS	3.978	881975	881975	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.978	881975	363385	1	4.3712	ng/mL	----	----	Auto
PFPeA	3.978	66405	881975	4	0.0442	ng/mL	----	----	Auto
PFBS_1	----	----	----	16	----	ng/mL	----	----	NP
PFBS-13C	4.027	616189	363385	1	4.7268	ng/mL	----	----	Auto
PFBS-13C_IS	4.027	616189	616189	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.240	2722268	2722268	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.240	2722268	363385	1	4.5258	ng/mL	----	----	Auto
PFHxA	4.222	14388	2722268	6	0.0103	ng/mL	----	----	Auto
HPFO_DA	----	----	----	3	----	ng/mL	----	----	NI
HFPO_DA-13C_IS	4.305	673707	673707	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.305	673707	363385	1	4.3608	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.214	327092	327092	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.214	327092	363385	1	4.4587	ng/mL	----	----	Auto
4_2-FTS_1	4.212	183	327092	5	0.0024	ng/mL	----	----	Auto
PFHpA	----	----	----	8	----	ng/mL	----	----	NI
PFHpA-13C_IS	4.430	2628147	2628147	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.430	2628147	363385	1	4.7712	ng/mL	----	----	Auto
PFHxS-18O_IS	4.429	393295	393295	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.429	393295	363385	1	4.6753	ng/mL	----	----	Auto
PFHxS_1	----	----	----	7	----	ng/mL	----	----	NP
6_2-FTS-13C	4.595	229006	363385	1	4.3930	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.595	229006	229006	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	----	----	----	10	----	ng/mL	----	----	NP
PFHpS_1	----	----	----	7	----	ng/mL	----	----	NP
PFOA-13C_IS	4.605	3648409	3648409	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.605	3648409	363385	1	5.1413	ng/mL	----	----	Auto
PFOA	4.594	19524	3648409	9	0.0239	ng/mL	----	----	Auto
PFOS_1	----	----	----	13	----	ng/mL	----	----	NI
PFOS-13C_IS	4.769	431225	431225	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.769	431225	363385	1	4.4794	ng/mL	----	----	Auto
PFNA-13C_IS	4.785	3153347	3153347	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.785	3153347	363385	1	4.5044	ng/mL	----	----	Auto
PFNA	4.772	9296	3153347	11	0.0175	ng/mL	----	----	M
PFDA-13C_IS	4.974	2892195	2892195	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.974	2892195	363385	1	4.7093	ng/mL	----	----	Auto
PFDA	4.954	15082	2892195	12	0.0234	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.972	233672	233672	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.972	233672	363385	1	4.5712	ng/mL	----	----	Auto
8_2-FTS_1	----	----	----	15	----	ng/mL	----	----	NP
PFDS_1	----	----	----	13	----	ng/mL	----	----	NP
PFUnA	5.150	13619	3226507	14	-0.0011	ng/mL	----	----	Auto
PFUnA-13C_IS	5.162	3226507	3226507	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.162	3226507	363385	1	4.7436	ng/mL	----	----	Auto
PFDoA	5.342	5192	4096796	17	0.0117	ng/mL	----	----	M
PFDoA-13C	5.346	4096796	363385	1	4.7024	ng/mL	----	----	Auto
PFDoA-13C_IS	5.346	4096796	4096796	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	----	----	----	15	----	ng/mL	----	----	NP
PFTrDA	5.506	6704	2883358	22	0.0115	ng/mL	----	----	Auto
PFTeDA	5.661	21749	2883358	22	-0.0120	ng/mL	----	----	Auto
PFTeDA-13C	5.662	2883358	363385	1	4.8365	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.662	2883358	2883358	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.303	1033481	1033481	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.303	1033481	363385	1	4.2818	ng/mL	----	----	Auto
FOSA	5.305	729	1033481	18	0.0024	ng/mL	----	----	Auto
N-MeFOSAA	----	----	----	19	----	ng/mL	----	----	NI
N-MeFOSAA-d3	5.079	665530	363385	1	4.8920	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.079	665530	665530	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.692	363385	363385	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	----	----	----	20	----	ng/mL	----	----	NI
N-MeFOSE-d7	5.665	370072	363385	1	5.0439	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.665	370072	370072	20	5.0000	ng/mL	----	----	Auto

MH 7/31/17

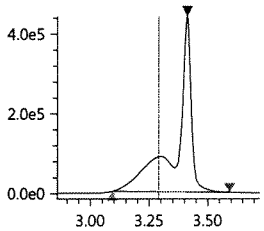
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-MeFOSE	----	----	----	20	----	ng/mL	----	----	NI
N-EtFOSAA	5.139	182	636696	21	0.0017	ng/mL	----	----	Auto
N-EtFOSAA-d5_IS	5.179	636696	636696	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.179	636696	363385	1	4.8093	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.831	457544	457544	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.831	457544	363385	1	4.6503	ng/mL	----	----	Auto
N-EtFOSA	----	----	----	23	----	ng/mL	----	----	NI
N-EtFOSE-d9_IS	5.799	375713	375713	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.799	375713	363385	1	4.9208	ng/mL	----	----	Auto
N-EtFOSE	----	----	----	24	----	ng/mL	----	----	NI

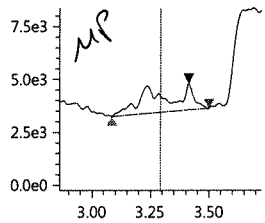
PFBA-13C_IS
Conc 5.0000
RT 3.411 Area 1974382
ISTD 216.90>172.15 4.45e5



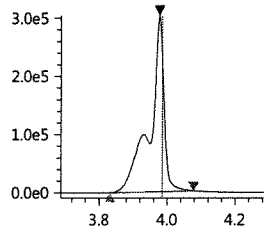
PFBA-13C
Conc 4.3843
RT 3.411 Area 1974382
Q 216.90>172.15 4.45e5



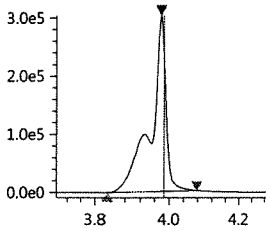
PFBA
Conc 0.0314
RT 3.412 Area 13126
Q 213.00>169.10 8.38e3



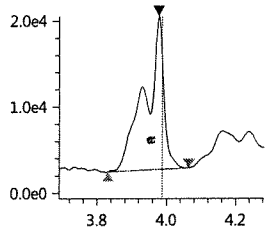
PFPeA-13C_IS
Conc 5.0000
RT 3.978 Area 881975
ISTD 267.90>223.00 3.05e5



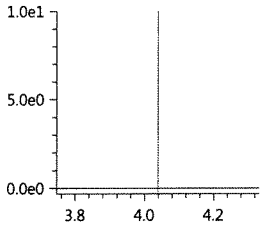
PFPeA-13C
Conc 4.3712
RT 3.978 Area 881975
Q 267.90>223.00 3.05e5



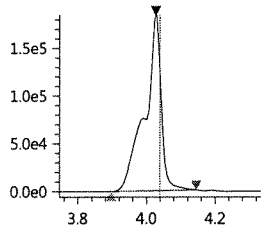
PFPeA
Conc 0.0442
RT 3.978 Area 66405
Q 263.05>219.10 2.06e4



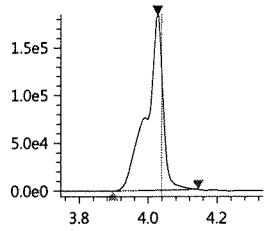
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 0.00e0



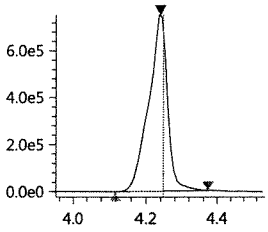
PFBS-13C
Conc 4.7268
RT 4.027 Area 616189
Q 301.80>80.00 1.85e5



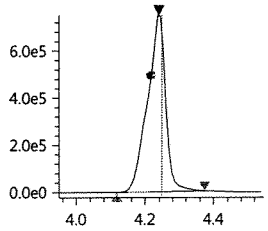
PFBS-13C_IS
Conc 5.0000
RT 4.027 Area 616189
ISTD 301.80>80.00 1.85e5



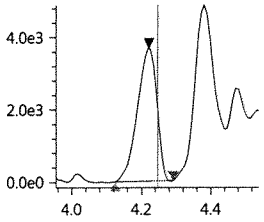
PFHxA-13C_IS
Conc 5.0000
RT 4.240 Area 2722268
ISTD 314.90>270.10 7.53e5



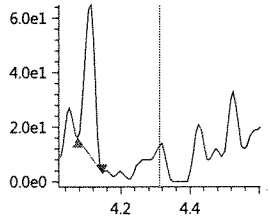
PFHxA-13C
Conc 4.5258
RT 4.240 Area 2722268
Q 314.90>270.10 7.53e5



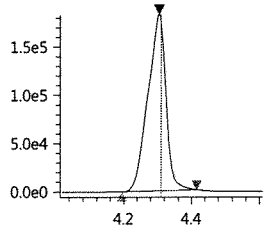
PFHxA
Conc 0.0103
RT 4.222 Area 14388
Q 313.00>269.00 4.90e3



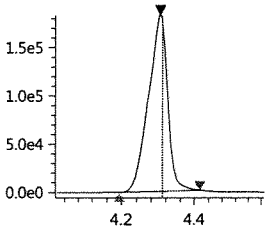
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 6.50e1



HFPO_DA-13C_IS
Conc 5.0000
RT 4.305 Area 673707
ISTD 332.00>286.80 1.83e5

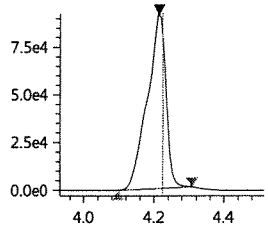


HFPO_DA-13C
Conc 4.3608
RT 4.305 Area 673707
Q 332.00>286.80 1.83e5

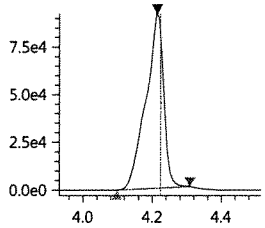


7/31/17

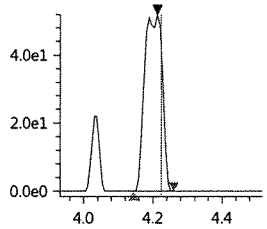
4_2-FTS-13C_IS
Conc 5.0000
RT 4.214 Area 327092
ISTD 328.80>309.05 9.28e4



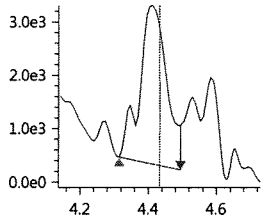
4_2-FTS-13C
Conc 4.4587
RT 4.214 Area 327092
Q 328.80>309.05 9.28e4



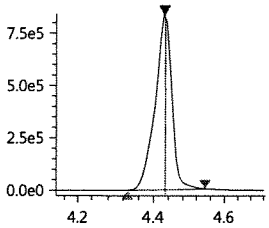
4_2-FTS_1
Conc 0.0024
RT 4.212 Area 183
Q 327.00>307.05 5.20e1



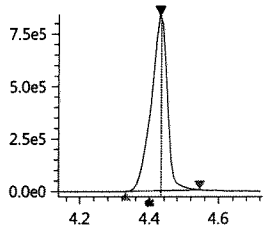
PFHpA
Conc ----
RT ---- Area ----
Q 362.90>319.00 3.31e3



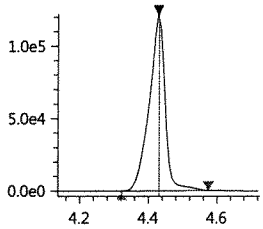
PFHpA-13C_IS
Conc 5.0000
RT 4.430 Area 2628147
ISTD 366.90>322.10 8.44e5



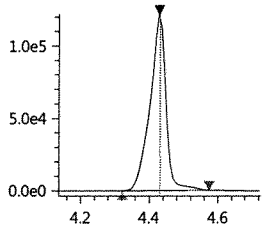
PFHpA-13C
Conc 4.7712
RT 4.430 Area 2628147
Q 366.90>322.10 8.44e5



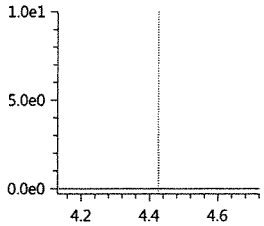
PFHxS-18O_IS
Conc 5.0000
RT 4.429 Area 393295
ISTD 402.70>84.05 1.22e5



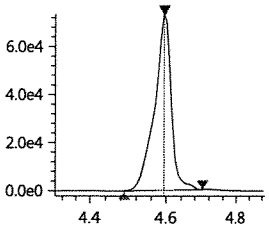
PFHxS-18O
Conc 4.6753
RT 4.429 Area 393295
Q 402.70>84.05 1.22e5



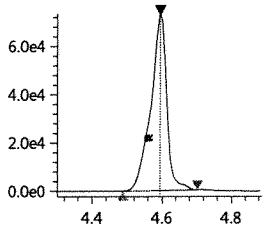
PFHxS_1
Conc ----
RT ---- Area ----
Q 399.00>80.00 0.00e0



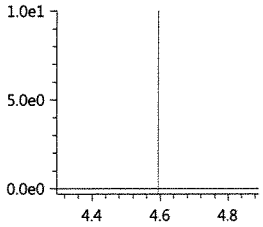
6_2-FTS-13C
Conc 4.3930
RT 4.595 Area 229006
Q 428.90>409.00 7.36e4



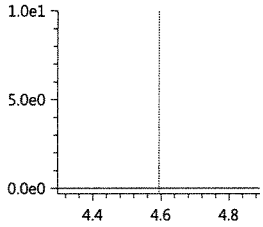
6_2-FTS-13C_IS
Conc 5.0000
RT 4.595 Area 229006
ISTD 428.90>409.00 7.36e4



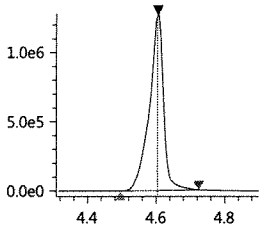
6_2-FTS_1
Conc ----
RT ---- Area ----
Q 427.00>407.00 0.00e0



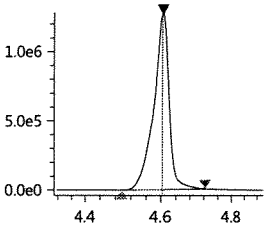
PFHpS_1
Conc ----
RT ---- Area ----
Q 449.00>80.15 0.00e0



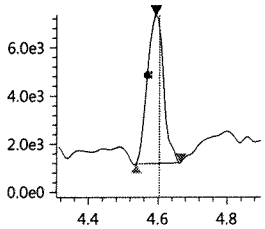
PFOA-13C_IS
Conc 5.0000
RT 4.605 Area 3648409
ISTD 416.80>372.05 1.28e6



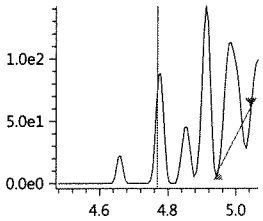
PFOA-13C
Conc 5.1413
RT 4.605 Area 3648409
Q 416.80>372.05 1.28e6



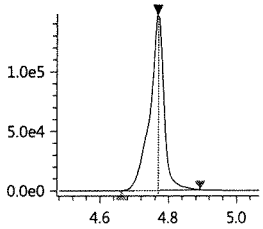
PFOA
Conc 0.0239
RT 4.594 Area 19524
Q 413.00>369.00 7.36e3



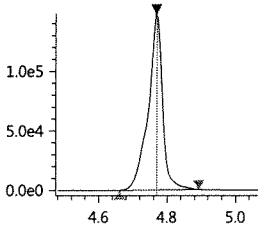
PFOS_1
Conc ----
RT ---- Area ----
Q 499.00>80.00 1.42e2



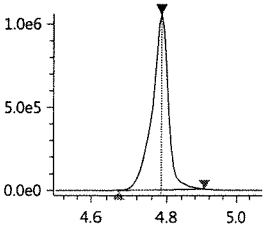
PFOS-13C_IS
Conc 5.0000
RT 4.769 Area 431225
ISTD 502.80>80.05 1.49e5



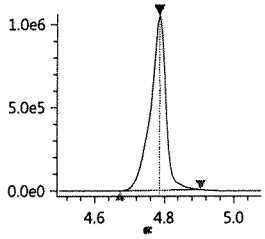
PFOS-13C
Conc 4.4794
RT 4.769 Area 431225
Q 502.80>80.05 1.49e5



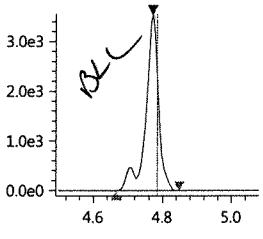
PFNA-13C_IS
Conc 5.0000
RT 4.785 Area 3153347
ISTD 467.80>423.00 1.06e6



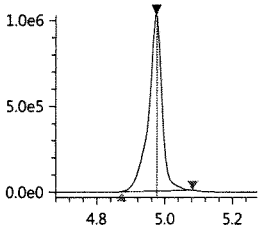
PFNA-13C
Conc 4.5044
RT 4.785 Area 3153347
Q 467.80>423.00 1.06e6



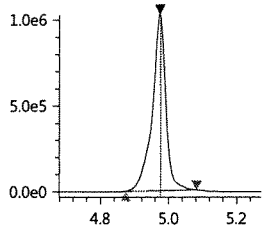
PFNA
Conc 0.0175
RT 4.772 Area 9296
Q 463.00>418.90 3.56e3



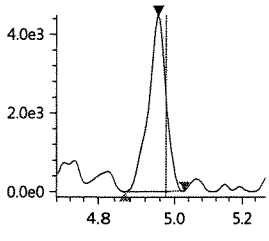
PFDA-13C_IS
Conc 5.0000
RT 4.974 Area 2892195
ISTD 514.80>469.95 1.03e6



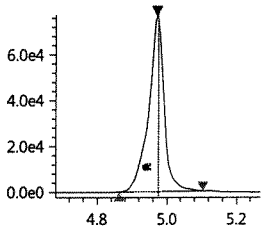
PFDA-13C
Conc 4.7093
RT 4.974 Area 2892195
Q 514.80>469.95 1.03e6



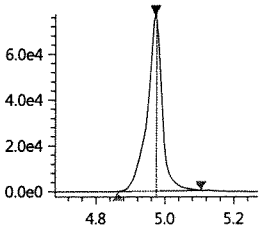
PFDA
Conc 0.0234
RT 4.954 Area 15082
Q 513.00>468.80 4.50e3



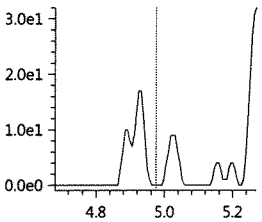
8_2-FTS-13C_IS
Conc 5.0000
RT 4.972 Area 233672
ISTD 528.80>509.00 7.75e4



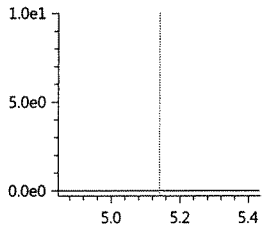
8_2-FTS-13C
Conc 4.5712
RT 4.972 Area 233672
Q 528.80>509.00 7.75e4



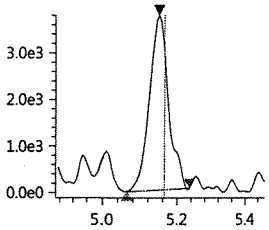
8_2-FTS_1
Conc ----
RT ---- Area ----
Q 526.90>506.90 3.20e1



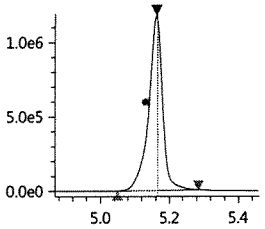
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 0.00e0



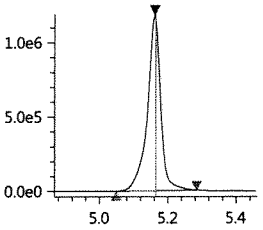
PFUnA
Conc -0.0011
RT 5.150 Area 13619
Q 563.00>518.90 3.81e3



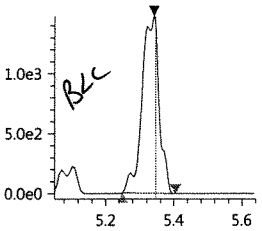
PFUnA-13C_IS
Conc 5.0000
RT 5.162 Area 3226507
ISTD 564.80>519.95 1.19e6



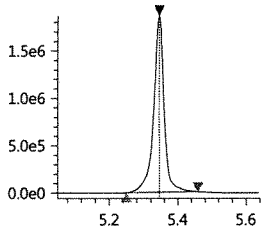
PFUnA-13C
Conc 4.7436
RT 5.162 Area 3226507
Q 564.80>519.95 1.19e6



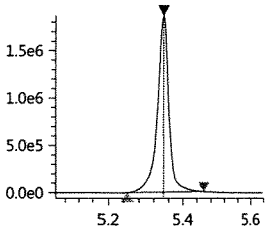
PFDoA
Conc 0.0117
RT 5.342 Area 5192
Q 613.05>569.00 1.48e3



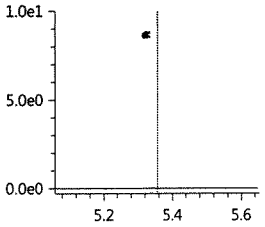
PFDoA-13C
Conc 4.7024
RT 5.346 Area 4096796
Q 614.80>569.95 1.87e6



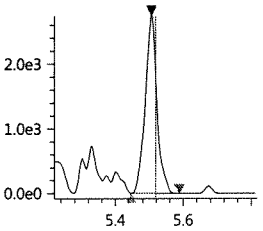
PFDoA-13C_IS
Conc 5.0000
RT 5.346 Area 4096796
ISTD 614.80>569.95 1.87e6



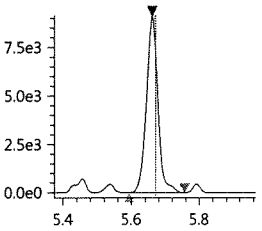
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



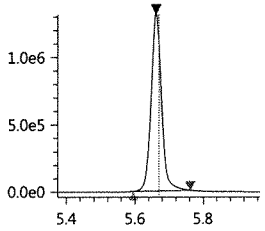
PFTrDA
Conc 0.0115
RT 5.506 Area 6704
Q 663.00>618.90 2.74e3



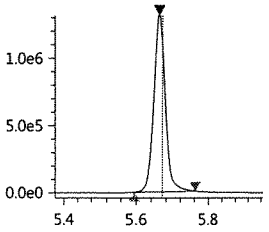
PFTeDA
Conc -0.0120
RT 5.661 Area 21749
Q 713.40>669.00 9.15e3



PFTeDA-13C
Conc 4.8365
RT 5.662 Area 2883358
Q 714.70>669.90 1.32e6

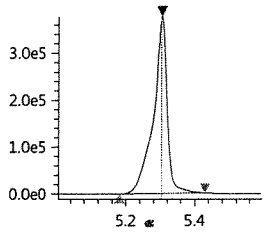


PFTeDA-13C_IS
Conc 5.0000
RT 5.662 Area 2883358
ISTD 714.70>669.90 1.32e6

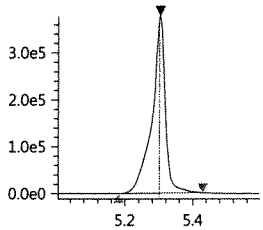


7/31/17

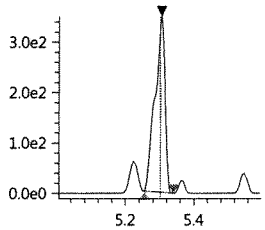
FOSA-13C_IS
Conc 5.0000
RT 5.303 Area 1033481
ISTD 506.00>78.05 3.78e5



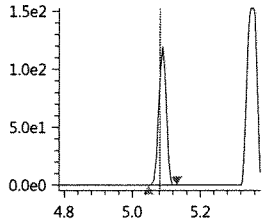
FOSA-13C
Conc 4.2818
RT 5.303 Area 1033481
Q 506.00>78.05 3.78e5



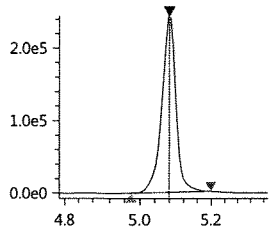
FOSA
Conc 0.0024
RT 5.305 Area 729
Q 498.00>78.00 3.52e2



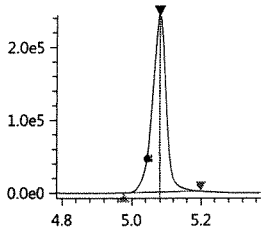
N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 1.53e2



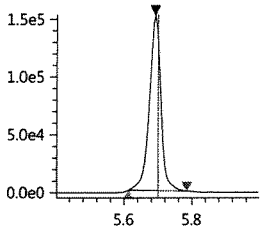
N-MeFOSAA-d3
Conc 4.8920
RT 5.079 Area 665530
Q 572.80>419.05 2.45e5



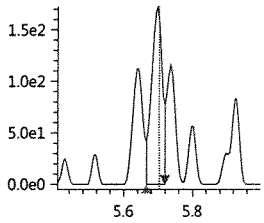
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.079 Area 665530
ISTD 572.80>419.05 2.45e5



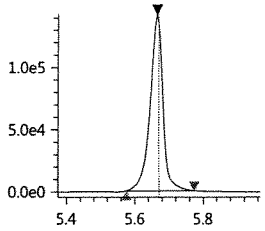
N-MeFOSA_IS
Conc 5.0000
RT 5.692 Area 363385
ISTD 514.90>168.90 1.54e5



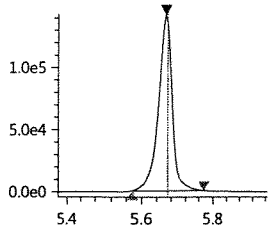
N-MeFOSA
Conc ----
RT ---- Area ----
Q 512.00>169.10 1.73e2



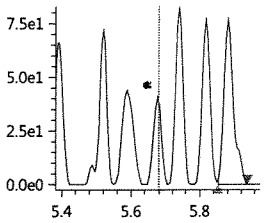
N-MeFOSE-d7
Conc 5.0439
RT 5.665 Area 370072
Q 622.70>59.10 1.43e5



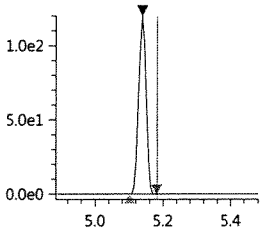
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.665 Area 370072
ISTD 622.70>59.10 1.43e5



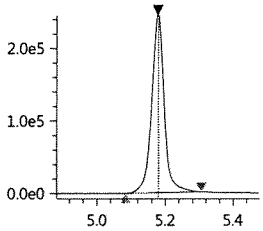
N-MeFOSE
Conc ----
RT ---- Area ----
Q 616.00>59.00 8.30e1



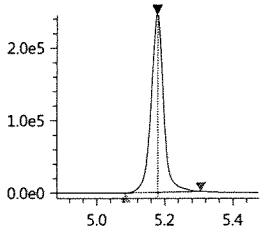
N-EtFOSAA
Conc 0.0017
RT 5.139 Area 182
Q 584.20>418.95 1.20e2



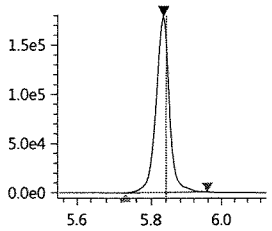
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.179 Area 636696
ISTD 588.80>419.00 2.45e5



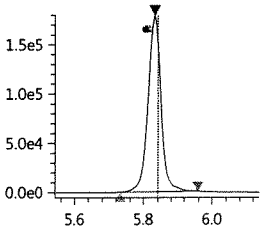
N-EtFOSAA-d5
Conc 4.8093
RT 5.179 Area 636696
Q 588.80>419.00 2.45e5



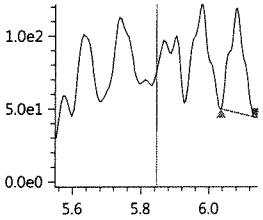
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.831 Area 457544
ISTD 530.90>169.15 1.81e5



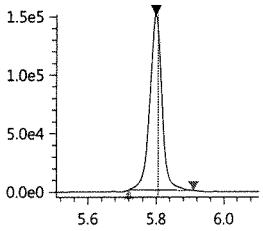
N-EtFOSA-d9
Conc 4.6503
RT 5.831 Area 457544
Q 530.90>169.15 1.81e5



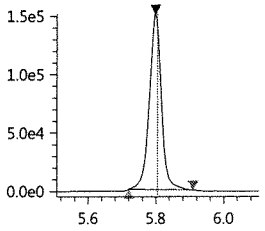
N-EtFOSA
Conc ----
RT ---- Area ----
Q 526.90>169.10 1.22e2



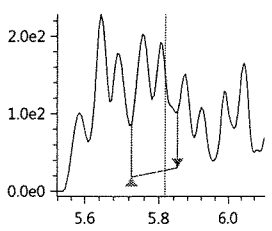
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.799 Area 375713
ISTD 638.70>59.10 1.52e5



N-EtFOSE-d9
Conc 4.9208
RT 5.799 Area 375713
Q 638.70>59.10 1.52e5



N-EtFOSE
Conc ----
RT ---- Area ----
Q 630.00>58.90 2.29e2



Before 25ID 7/31/17

Insight Report

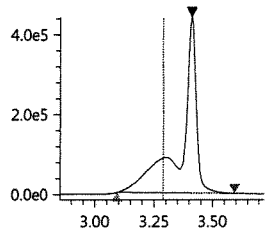
Printed at 7/30/2017 1:18:39 PM

072817_130

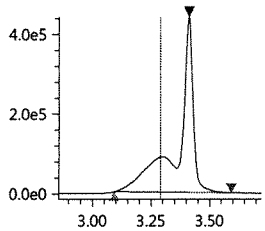
Sample ID: IB
Date acquired: 7/28/2017 1:52:18 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b2\072817_130.lcd
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 1

MA 7/31/17

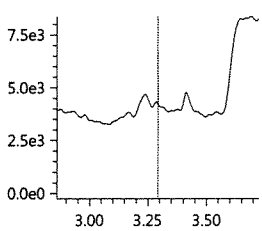
PFBA-13C_IS
Conc 5.0000
RT 3.411 Area 1974382
ISTD 216.90>172.15 4.45e5



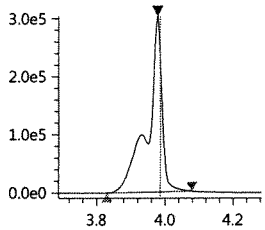
PFBA-13C
Conc 4.3843
RT 3.411 Area 1974382
Q 216.90>172.15 4.45e5



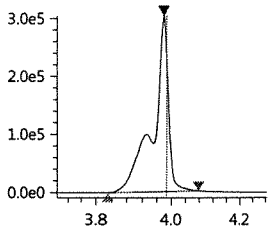
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 8.38e3



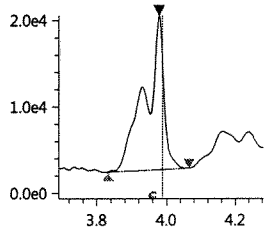
PFPeA-13C_IS
Conc 5.0000
RT 3.978 Area 881975
ISTD 267.90>223.00 3.05e5



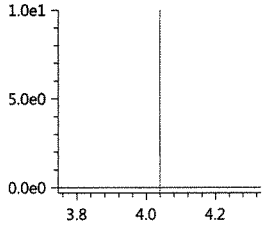
PFPeA-13C
Conc 4.3712
RT 3.978 Area 881975
Q 267.90>223.00 3.05e5



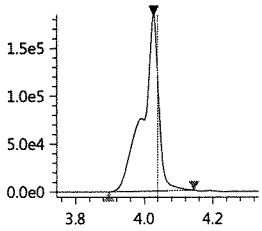
PFPeA
Conc 0.0442
RT 3.978 Area 66405
Q 263.05>219.10 2.06e4



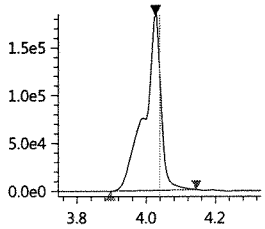
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 0.00e0



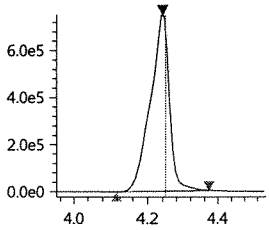
PFBS-13C
Conc 4.7268
RT 4.027 Area 616189
Q 301.80>80.00 1.85e5



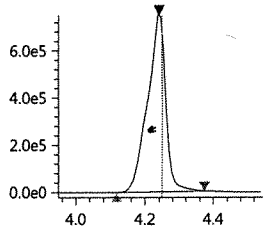
PFBS-13C_IS
Conc 5.0000
RT 4.027 Area 616189
ISTD 301.80>80.00 1.85e5



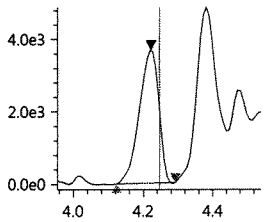
PFHxA-13C_IS
Conc 5.0000
RT 4.240 Area 2722268
ISTD 314.90>270.10 7.53e5



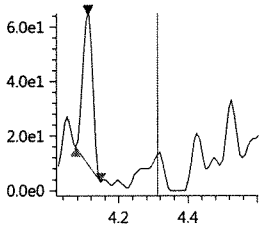
PFHxA-13C
Conc 4.5258
RT 4.240 Area 2722268
Q 314.90>270.10 7.53e5



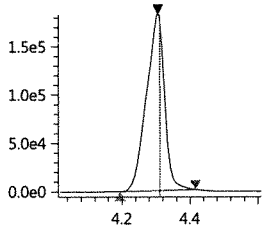
PFHxA
Conc 0.0103
RT 4.222 Area 14388
Q 313.00>269.00 4.90e3



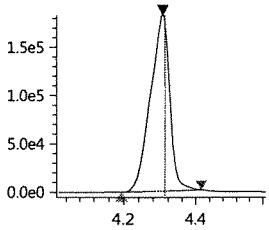
HPFO_DA
Conc 0.0010
RT 4.111 Area 110
Q 329.00>169.00 6.50e1



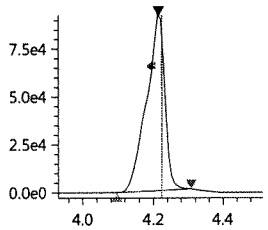
HFPO_DA-13C_IS
Conc 5.0000
RT 4.305 Area 673707
ISTD 332.00>286.80 1.83e5



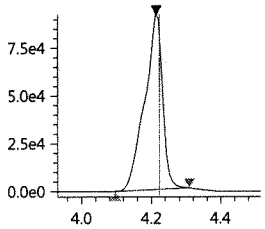
HFPO_DA-13C
Conc 4.3608
RT 4.305 Area 673707
Q 332.00>286.80 1.83e5



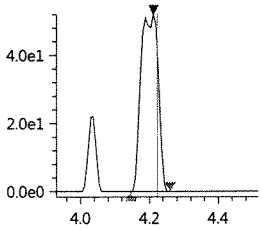
4_2-FTS-13C_IS
Conc 5.0000
RT 4.214 Area 327092
ISTD 328.80>309.05 9.28e4



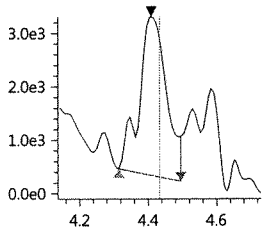
4_2-FTS-13C
Conc 4.4587
RT 4.214 Area 327092
Q 328.80>309.05 9.28e4



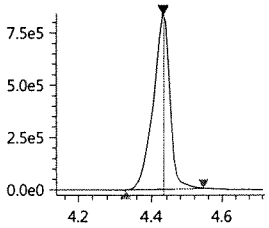
4_2-FTS_1
Conc 0.0024
RT 4.212 Area 183
Q 327.00>307.05 5.20e1



PFHpA
Conc -0.0128
RT 4.409 Area 16530
Q 362.90>319.00 3.31e3



PFHpA-13C_IS
Conc 5.0000
RT 4.430 Area 2628147
ISTD 366.90>322.10 8.44e5

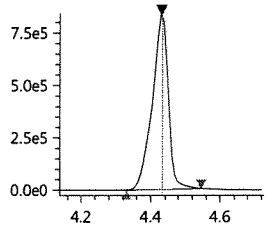


Before 130

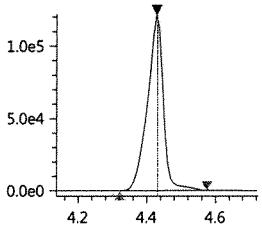
Insight Report

Printed at 7/30/2017 1:18:39 PM

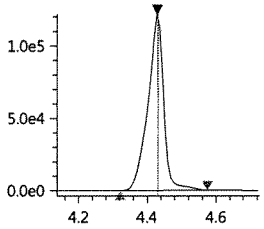
PFHpA-13C
Conc 4.7712
RT 4.430 Area 2628147
Q 366.90>322.10 8.44e5



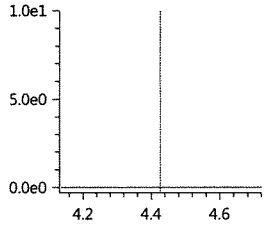
PFHxS-18O_IS
Conc 5.0000
RT 4.429 Area 393295
ISTD 402.70>84.05 1.22e5



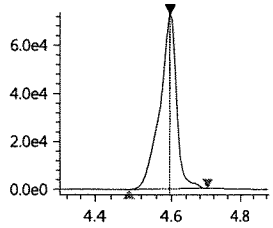
PFHxS-18O
Conc 4.6753
RT 4.429 Area 393295
Q 402.70>84.05 1.22e5



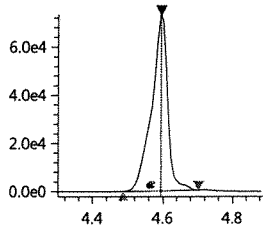
PFHxS_1
Conc ----
RT ---- Area ----
Q 399.00>80.00 0.00e0



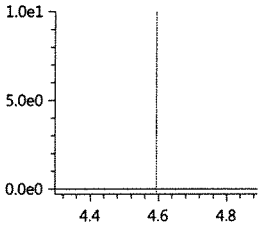
6_2-FTS-13C
Conc 4.3930
RT 4.595 Area 229006
Q 428.90>409.00 7.36e4



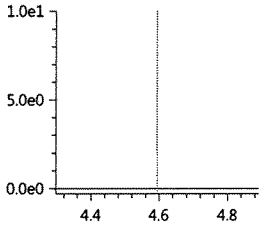
6_2-FTS-13C_IS
Conc 5.0000
RT 4.595 Area 229006
ISTD 428.90>409.00 7.36e4



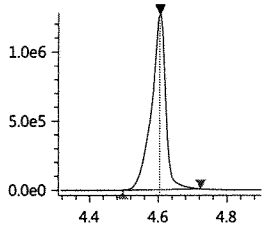
6_2-FTS_1
Conc ----
RT ---- Area ----
Q 427.00>407.00 0.00e0



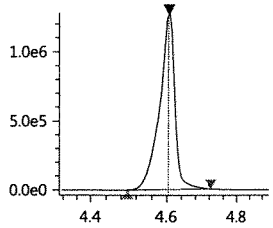
PFHpS_1
Conc ----
RT ---- Area ----
Q 449.00>80.15 0.00e0



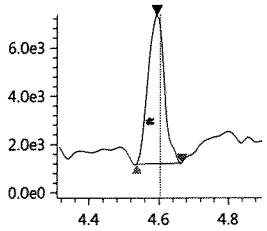
PFOA-13C_IS
Conc 5.0000
RT 4.605 Area 3648409
ISTD 416.80>372.05 1.28e6



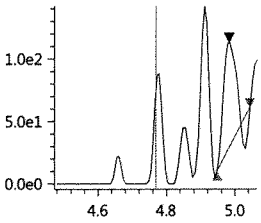
PFOA-13C
Conc 5.1413
RT 4.605 Area 3648409
Q 416.80>372.05 1.28e6



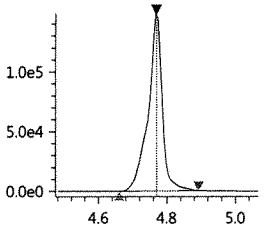
PFOA
Conc 0.0239
RT 4.594 Area 19524
Q 413.00>369.00 7.36e3



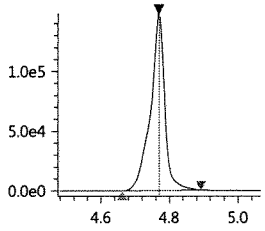
PFOS_1
Conc 0.0029
RT 4.983 Area 187
Q 499.00>80.00 1.42e2



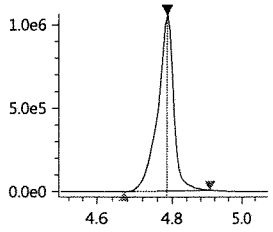
PFOS-13C_IS
Conc 5.0000
RT 4.769 Area 431225
ISTD 502.80>80.05 1.49e5



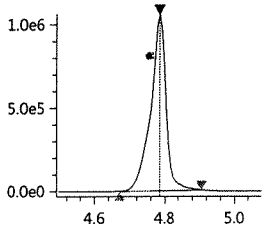
PFOS-13C
Conc 4.4794
RT 4.769 Area 431225
Q 502.80>80.05 1.49e5



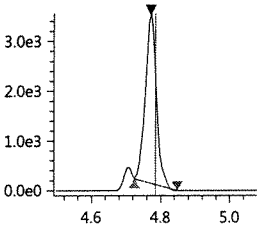
PFNA-13C_IS
Conc 5.0000
RT 4.785 Area 3153347
ISTD 467.80>423.00 1.06e6



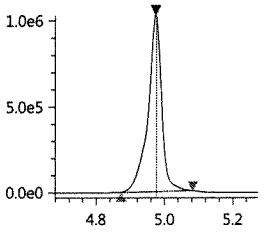
PFNA-13C
Conc 4.5044
RT 4.785 Area 3153347
Q 467.80>423.00 1.06e6



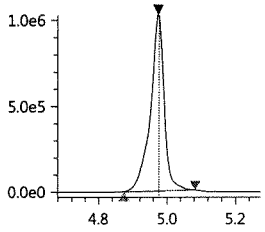
PFNA
Conc 0.0143
RT 4.772 Area 7601
Q 463.00>418.90 3.56e3



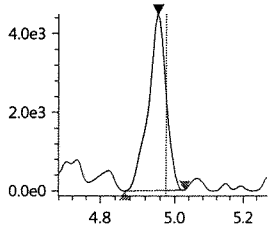
PFDA-13C_IS
Conc 5.0000
RT 4.974 Area 2892195
ISTD 514.80>469.95 1.03e6



PFDA-13C
Conc 4.7093
RT 4.974 Area 2892195
Q 514.80>469.95 1.03e6



PFDA
Conc 0.0234
RT 4.954 Area 15082
Q 513.00>468.80 4.50e3

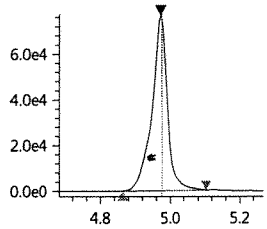


Before 130

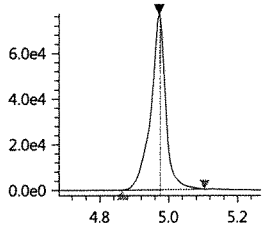
Insight Report

Printed at 7/30/2017 1:18:39 PM

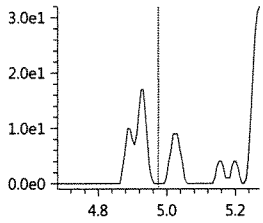
8_2-FTS-13C_IS
Conc 5.0000
RT 4.972 Area 233672
ISTD 528.80>509.00 7.75e4



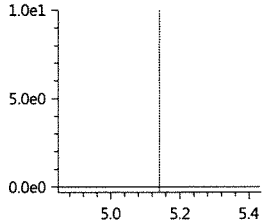
8_2-FTS-13C
Conc 4.5712
RT 4.972 Area 233672
Q 528.80>509.00 7.75e4



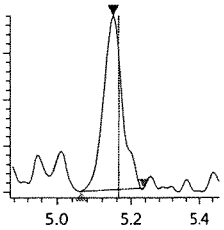
8_2-FTS_1
Conc ----
RT ---- Area ----
Q 526.90>506.90 3.20e1



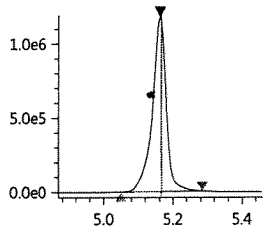
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 0.00e0



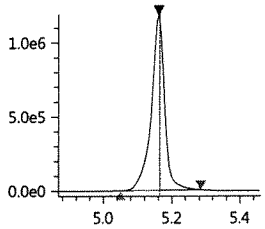
PFUnA
Conc -0.0011
RT 5.150 Area 13619
Q 563.00>518.90 3.81e3



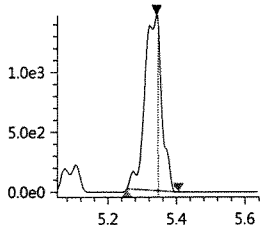
PFUnA-13C_IS
Conc 5.0000
RT 5.162 Area 3226507
ISTD 564.80>519.95 1.19e6



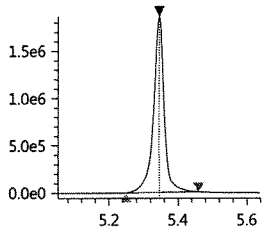
PFUnA-13C
Conc 4.7436
RT 5.162 Area 3226507
Q 564.80>519.95 1.19e6



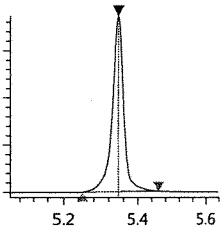
PFDoA
Conc 0.0114
RT 5.342 Area 5079
Q 613.05>569.00 1.48e3



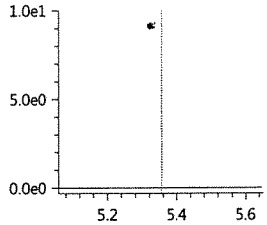
PFDoA-13C
Conc 4.7024
RT 5.346 Area 4096796
Q 614.80>569.95 1.87e6



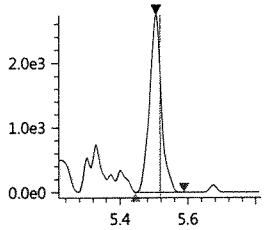
PFDoA-13C_IS
Conc 5.0000
RT 5.346 Area 4096796
ISTD 614.80>569.95 1.87e6



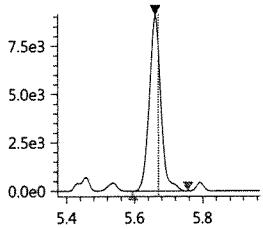
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



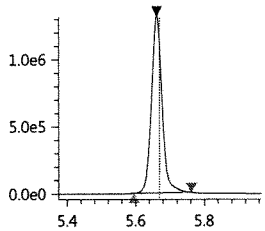
PFTrDA
Conc 0.0115
RT 5.506 Area 6704
Q 663.00>618.90 2.74e3



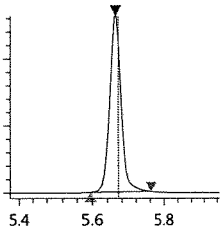
PFTeDA
Conc -0.0120
RT 5.661 Area 21749
Q 713.40>669.00 9.15e3



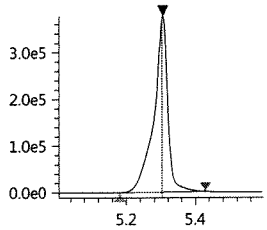
PFTeDA-13C
Conc 4.8365
RT 5.662 Area 2883358
Q 714.70>669.90 1.32e6



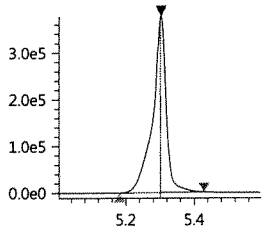
PFTeDA-13C_IS
Conc 5.0000
RT 5.662 Area 2883358
ISTD 714.70>669.90 1.32e6



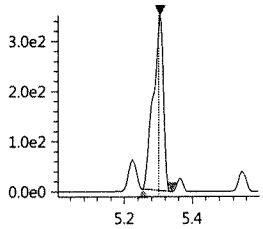
FOSA-13C_IS
Conc 5.0000
RT 5.303 Area 1033481
ISTD 506.00>78.05 3.78e5



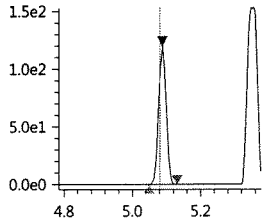
FOSA-13C
Conc 4.2818
RT 5.303 Area 1033481
Q 506.00>78.05 3.78e5



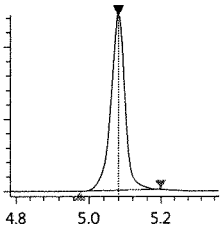
FOSA
Conc 0.0024
RT 5.305 Area 729
Q 498.00>78.00 3.52e2



N-MeFOSAA
Conc 0.0112
RT 5.089 Area 186
Q 570.20>419.00 1.53e2



N-MeFOSAA-d3
Conc 4.8920
RT 5.079 Area 665530
Q 572.80>419.05 2.45e5



Validation Report

Data File: J:\LCMS06\Data\072817_b2\072817_144
Lab ID: KQ1710515-04
RunType: CCV
Matrix: Pulp Sheet

Date Acquired: 7/28/17 16:19
Batch ID: 555466
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Above Highest ICAL Level	X	

Primary Review: ESD 7/31/17

Secondary Review: NL 7/31/17

Printed: 7/31/17 9:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report

Data File:	J:\LCMS06\Data\072817_b2\072817_144	**Instrument:**	K-LCMS-06
Acqu Date:	7/28/17 16:19	**Vial:**	17
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1710515-04	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	V	**Matrix:**	Pulp Sheet
Prod Code:	PFOA	**Collect Date:**	7/2/17	**Receive Date:**	7/19/17

Analysis Lot:	555466	**Prep Lot:**		**Report Group:**	KQ1710515
Analysis Method:	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1700134
		Report List ID:	17529

Internal Standard Compounds

Parameter Name	RT	Response	Solution Conc	Area Criteria
D3-MeFOSA	5.696	392384	5.0000	OK

Surrogate Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
13C4-PFBA *	3.415	2024406	4.1632	Y
13C2-PFHxA	4.246	2887809	4.4462	Y
18O2-PFHxS	4.431	362032	3.9856	Y
13C2-6:2 FTS	4.600	236194	4.1960	Y
13C4-PFOA	4.611	3796647	4.9548	Y
13C5-PFNA	4.789	3326037	4.3999	Y
13C4-PFOS	4.774	439398	4.2270	Y
13C2-PFDA	4.978	2956899	4.4588	Y
13C2-PFUnDA *	5.167	3313202	4.5111	Y
13C2-PFDoDA	5.350	4119145	4.3786	Y
D7-MeFOSE	5.669	364807	4.6047	Y
D9-EtFOSE	5.803	393021	4.7671	Y
D5-EtFOSA	5.835	440417	4.1454	Y
13C2-8:2 FTS	4.977	242104	4.3861	Y
13C2-PFTeDA	5.665	2858652	4.4407	Y
13C4-PFHpA	4.434	2420265	4.0691	Y
13C5-PFPeA *	3.983	894427	4.1053	Y
13C3-PFBS	4.032	648983	4.6104	Y
13C8-FOSA	5.308	1047652	4.0198	Y

Target Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
Perfluorobutanoic acid (PFBA)	3.415	444436	1.0361	Y
Perfluoropentanoic acid (PFPeA)	3.983	541398	1.0266	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/31/17 9:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Data File:	J:\LCMS06\Data\072817_b2\072817_144	**Instrument:**	K-LCMS-06
Acqu Date:	7/28/17 16:19	**Vial:**	17
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1710515-04	**Raw Units:**	ng/mL

Target Compounds

Parameter Name	RT	Response	Solution Conc	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.031	101906	0.8939	Y
Perfluorohexanoic acid (PFHxA)	4.244	513150	1.0628	Y
Perfluoroheptanoic acid (PFHpA)	4.434	516017	1.0897	Y
Perfluorohexane sulfonic acid (PFHxS)	4.431	84323	0.9557	Y
Perfluorooctanoic acid (PFOA)	4.611	808355	0.9514	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.599	90073	1.4038	Y
Perfluorononanoic acid (PFNA)	4.789	563574	1.0041	Y
Perfluorooctane sulfonic acid (PFOS)	4.774	67586	1.0225	Y
Perfluorodecanoic acid (PFDA)	4.978	604143	0.9158	Y
Perfluoroundecanoic acid (PFUnDA)	5.167	571296	0.9756	Y
Perfluorooctane sulfonamide (FOSA)	5.309	331892	1.0826	Y
Perfluorododecanoic acid (PFDoDA)	5.351	466303	1.0426	Y
Perfluorotridecanoic acid (PFTrDA)	5.517	566203	0.9780	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.699	105567	0.8841	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.677	155399	1.0410	Y
Perfluorotetradecanoic acid (PFTeDA)	5.666	288893	1.0526	Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.814	179141	0.9701	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.840	18524	0.9847	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.976	50450	1.0289	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.600	67817	1.2559	Y
Perfluorodecane sulfonic acid (PFDS)	5.142	73018	1.0573	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 7/31/17 9:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

072817_144

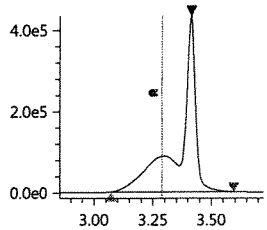
Sample ID: 1 ppb
Date acquired: 7/28/2017 4:19:00 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b2\072817_144.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 1

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.415	2024406	2024406	2	5.0000	ng/mL	5	100.00	Auto
PFBA-13C	3.415	2024406	392384	1	4.1632	ng/mL	5	83.26	Auto
PFBA	3.415	444436	2024406	2	1.0361	ng/mL	1	103.61	M
PFPeA-13C_IS	3.983	894427	894427	4	5.0000	ng/mL	5	100.00	Auto
PFPeA-13C	3.983	894427	392384	1	4.1053	ng/mL	5	82.11	Auto
PFPeA	3.983	541398	894427	4	1.0266	ng/mL	1	102.66	Auto
PFBS_1	4.031	101906	648983	16	0.8939	ng/mL	0.88737	100.73	Auto
PFBS-13C	4.032	648983	392384	1	4.6104	ng/mL	5	92.21	Auto
PFBS-13C_IS	4.032	648983	648983	16	5.0000	ng/mL	5	100.00	Auto
PFHxA-13C_IS	4.246	2887809	2887809	6	5.0000	ng/mL	5	100.00	Auto
PFHxA-13C	4.246	2887809	392384	1	4.4462	ng/mL	5	88.92	Auto
PFHxA	4.244	513150	2887809	6	1.0628	ng/mL	1	106.28	Auto
HPFO_DA	4.311	132710	757308	3	1.0578	ng/mL	1	105.78	Auto
HFPO_DA-13C_IS	4.311	757308	757308	3	5.0000	ng/mL	5	100.00	Auto
HFPO_DA-13C	4.311	757308	392384	1	4.5397	ng/mL	5	90.79	Auto
4_2-FTS-13C_IS	4.219	349293	349293	5	5.0000	ng/mL	5	100.00	Auto
4_2-FTS-13C	4.219	349293	392384	1	4.4095	ng/mL	5	88.19	Auto
4_2-FTS_1	4.220	72930	349293	5	0.9067	ng/mL	0.937218	96.74	Auto
PFHpA	4.434	516017	2420265	8	1.0897	ng/mL	1	108.97	Auto
PFHpA-13C_IS	4.434	2420265	2420265	8	5.0000	ng/mL	5	100.00	Auto
PFHpA-13C	4.434	2420265	392384	1	4.0691	ng/mL	5	81.38	Auto
PFHxS-18O_IS	4.431	362032	362032	7	5.0000	ng/mL	5	100.00	Auto
PFHxS-18O	4.431	362032	392384	1	3.9856	ng/mL	5	79.71	Auto
PFHxS_1	4.431	84323	362032	7	0.9557	ng/mL	0.913075	104.67	Auto
6_2-FTS-13C	4.600	236194	392384	1	4.1960	ng/mL	5	83.92	Auto
6_2-FTS-13C_IS	4.600	236194	236194	10	5.0000	ng/mL	5	100.00	Auto
6_2-FTS_1	4.600	67817	236194	10	1.2559	ng/mL	0.951168	132.04	Auto
PFHpS_1	4.599	90073	362032	7	1.4038	ng/mL	0.953438	147.24	Auto
PFOA-13C_IS	4.611	3796647	3796647	9	5.0000	ng/mL	5	100.00	Auto
PFOA-13C	4.611	3796647	392384	1	4.9548	ng/mL	5	99.10	Auto
PFOA	4.611	808355	3796647	9	0.9514	ng/mL	1	95.14	Auto
PFOS_1	4.774	67586	439398	13	1.0225	ng/mL	0.929229	110.04	Auto
PFOS-13C_IS	4.774	439398	439398	13	5.0000	ng/mL	5	100.00	Auto
PFOS-13C	4.774	439398	392384	1	4.2270	ng/mL	5	84.54	Auto
PFNA-13C_IS	4.789	3326037	3326037	11	5.0000	ng/mL	5	100.00	Auto
PFNA-13C	4.789	3326037	392384	1	4.3999	ng/mL	5	88.00	Auto
PFNA	4.789	563574	3326037	11	1.0041	ng/mL	1	100.41	Auto
PFDA-13C_IS	4.978	2956899	2956899	12	5.0000	ng/mL	5	100.00	Auto
PFDA-13C	4.978	2956899	392384	1	4.4588	ng/mL	5	89.18	Auto
PFDA	4.978	604143	2956899	12	0.9158	ng/mL	1	91.58	Auto
8_2-FTS-13C_IS	4.977	242104	242104	15	5.0000	ng/mL	5	100.00	Auto
8_2-FTS-13C	4.977	242104	392384	1	4.3861	ng/mL	5	87.72	Auto
8_2-FTS_1	4.976	50450	242104	15	1.0289	ng/mL	0.960045	107.18	Auto
PFDS_1	5.142	73018	439398	13	1.0573	ng/mL	0.964667	109.60	Auto
PFUnA	5.167	571296	3313202	14	0.9756	ng/mL	1	97.56	Auto
PFUnA-13C_IS	5.167	3313202	3313202	14	5.0000	ng/mL	5	100.00	Auto
PFUnA-13C	5.167	3313202	392384	1	4.5111	ng/mL	5	90.22	Auto
PFDoA	5.351	466303	4119145	17	1.0426	ng/mL	1	104.26	Auto
PFDoA-13C	5.350	4119145	392384	1	4.3786	ng/mL	5	87.57	Auto
PFDoA-13C_IS	5.350	4119145	4119145	17	5.0000	ng/mL	5	100.00	Auto
10_2-FtS_1	5.358	43091	242104	15	1.0643	ng/mL	0.966191	110.16	Auto
PFTrDA	5.517	566203	2858652	22	0.9780	ng/mL	1	97.80	Auto
PFTeDA	5.666	288893	2858652	22	1.0526	ng/mL	1	105.26	Auto
PFTeDA-13C	5.665	2858652	392384	1	4.4407	ng/mL	5	88.81	Auto
PFTeDA-13C_IS	5.665	2858652	2858652	22	5.0000	ng/mL	5	100.00	Auto
FOSA-13C_IS	5.308	1047652	1047652	18	5.0000	ng/mL	5	100.00	Auto
FOSA-13C	5.308	1047652	392384	1	4.0198	ng/mL	5	80.40	Auto
FOSA	5.309	331892	1047652	18	1.0826	ng/mL	1	108.26	Auto
N-MeFOSAA	5.087	118065	650505	19	1.1978	ng/mL	1	119.78	Auto
N-MeFOSAA-d3	5.083	650505	392384	1	4.4282	ng/mL	5	88.56	Auto
N-MeFOSAA-d3_IS	5.083	650505	650505	19	5.0000	ng/mL	5	100.00	Auto
N-MeFOSA_IS	5.696	392384	392384	1	5.0000	ng/mL	5	100.00	Auto
N-MeFOSA	5.699	105567	364807	20	0.8841	ng/mL	1	88.41	Auto
N-MeFOSE-d7	5.669	364807	392384	1	4.6047	ng/mL	5	92.09	Auto
N-MeFOSE-d7_IS	5.669	364807	364807	20	5.0000	ng/mL	5	100.00	Auto

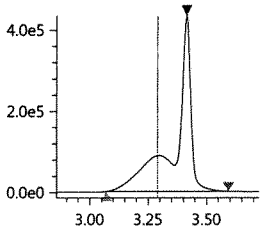
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-MeFOSE	5.677	155399	364807	20	1.0410	ng/mL	1	104.10	Auto
N-EtFOSAA	5.189	100207	634415	21	0.9611	ng/mL	1	96.11	Auto
N-EtFOSAA-d5_IS	5.184	634415	634415	21	5.0000	ng/mL	5	100.00	Auto
N-EtFOSAA-d5	5.184	634415	392384	1	4.4380	ng/mL	5	88.76	Auto
N-EtFOSA-d9_IS	5.835	440417	440417	23	5.0000	ng/mL	5	100.00	Auto
N-EtFOSA-d9	5.835	440417	392384	1	4.1454	ng/mL	5	82.91	Auto
N-EtFOSA	5.840	18524	440417	23	0.9847	ng/mL	1	98.47	Auto
N-EtFOSE-d9_IS	5.803	393021	393021	24	5.0000	ng/mL	5	100.00	Auto
N-EtFOSE-d9	5.803	393021	392384	1	4.7671	ng/mL	5	95.34	Auto
N-EtFOSE	5.814	179141	393021	24	0.9701	ng/mL	1	97.01	Auto

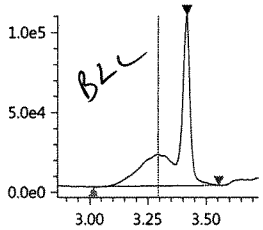
PFBA-13C_IS
Conc 5.0000
RT 3.415 Area 2024406
ISTD 216.90>172.15 4.36e5



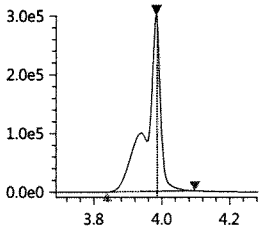
PFBA-13C
Conc 4.1632
RT 3.415 Area 2024406
Q 216.90>172.15 4.36e5



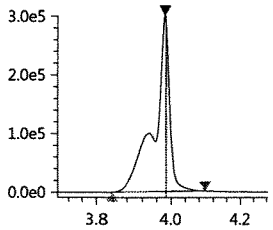
PFBA
Conc 1.0361
RT 3.415 Area 444436
Q 213.00>169.10 1.11e5



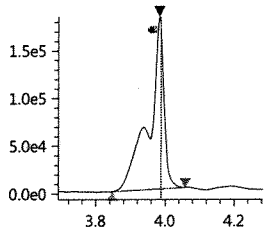
PFPeA-13C_IS
Conc 5.0000
RT 3.983 Area 894427
ISTD 267.90>223.00 3.01e5



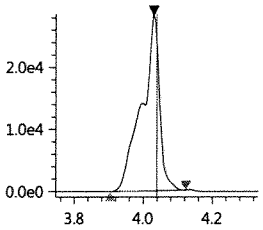
PFPeA-13C
Conc 4.1053
RT 3.983 Area 894427
Q 267.90>223.00 3.01e5



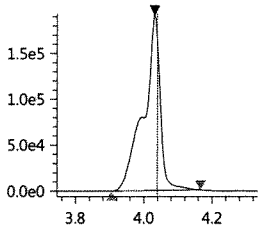
PFPeA
Conc 1.0266
RT 3.983 Area 541398
Q 263.05>219.10 1.86e5



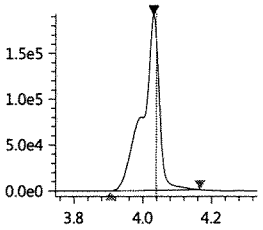
PFBS_1
Conc 0.8939
RT 4.031 Area 101906
Q 299.00>80.00 2.86e4



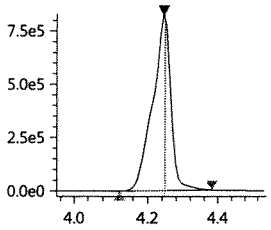
PFBS-13C
Conc 4.6104
RT 4.032 Area 648983
Q 301.80>80.00 1.93e5



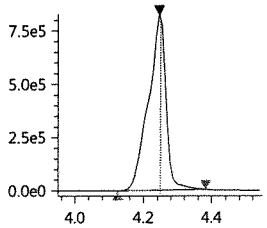
PFBS-13C_IS
Conc 5.0000
RT 4.032 Area 648983
ISTD 301.80>80.00 1.93e5



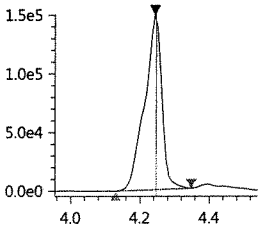
PFHxA-13C_IS
Conc 5.0000
RT 4.246 Area 2887809
ISTD 314.90>270.10 8.31e5



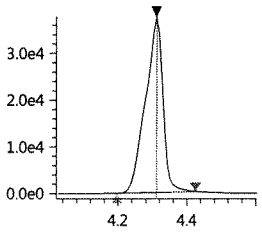
PFHxA-13C
Conc 4.4462
RT 4.246 Area 2887809
Q 314.90>270.10 8.31e5



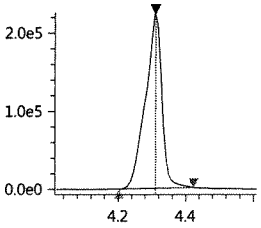
PFHxA
Conc 1.0628
RT 4.244 Area 513150
Q 313.00>269.00 1.51e5



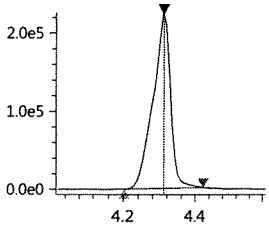
HPFO_DA
Conc 1.0578
RT 4.311 Area 132710
Q 329.00>169.00 3.78e4



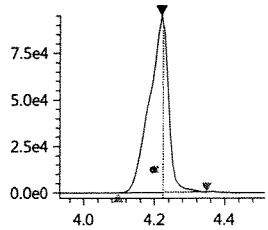
HFPO_DA-13C_IS
Conc 5.0000
RT 4.311 Area 757308
ISTD 332.00>286.80 2.26e5



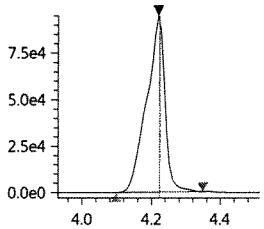
HFPO_DA-13C
Conc 4.5397
RT 4.311 Area 757308
Q 332.00>286.80 2.26e5



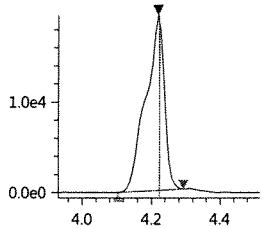
4_2-FTS-13C_IS
Conc 5.0000
RT 4.219 Area 349293
ISTD 328.80>309.05 9.55e4



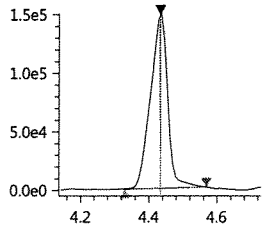
4_2-FTS-13C
Conc 4.4095
RT 4.219 Area 349293
Q 328.80>309.05 9.55e4



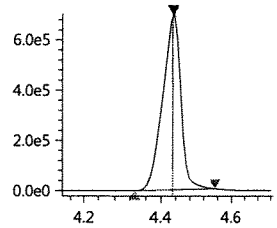
4_2-FTS_1
Conc 0.9067
RT 4.220 Area 72930
Q 327.00>307.05 1.96e4



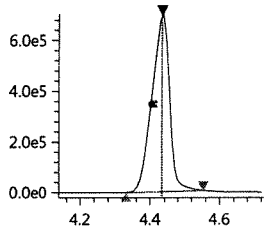
PFHpA
Conc 1.0897
RT 4.434 Area 516017
Q 362.90>319.00 1.51e5



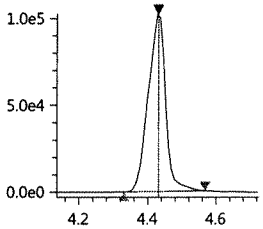
PFHpA-13C_IS
Conc 5.0000
RT 4.434 Area 2420265
ISTD 366.90>322.10 7.05e5



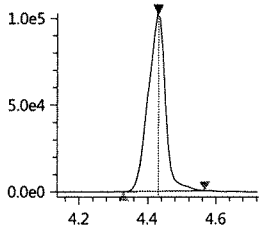
PFHpA-13C
Conc 4.0691
RT 4.434 Area 2420265
Q 366.90>322.10 7.05e5



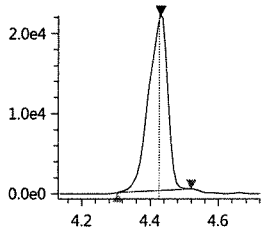
PFHxS-18O_IS
Conc 5.0000
RT 4.431 Area 362032
ISTD 402.70>84.05 1.03e5



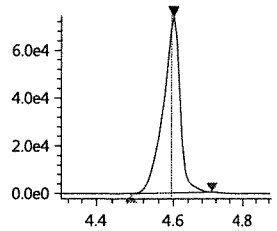
PFHxS-18O
Conc 3.9856
RT 4.431 Area 362032
Q 402.70>84.05 1.03e5



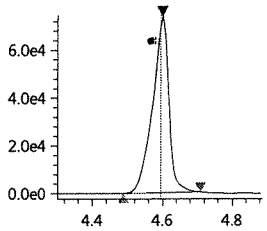
PFHxS_1
Conc 0.9557
RT 4.431 Area 84323
Q 399.00>80.00 2.23e4



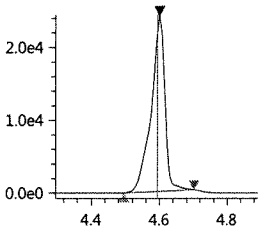
6_2-FTS-13C
Conc 4.1960
RT 4.600 Area 236194
Q 428.90>409.00 7.46e4



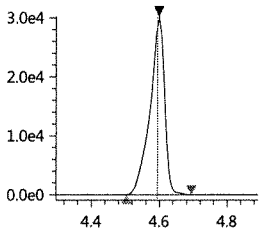
6_2-FTS-13C_IS
Conc 5.0000
RT 4.600 Area 236194
ISTD 428.90>409.00 7.46e4



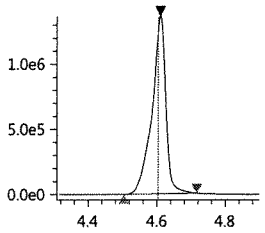
6_2-FTS_1
Conc 1.2559
RT 4.600 Area 67817
Q 427.00>407.00 2.45e4



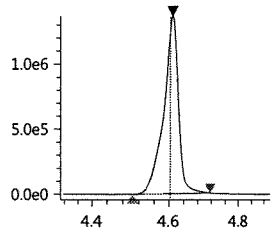
PFHpS_1
Conc 1.4038
RT 4.599 Area 90073
Q 449.00>80.15 3.02e4



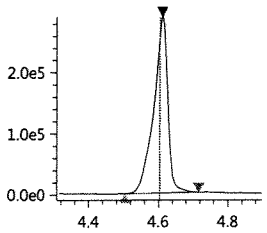
PFOA-13C_IS
Conc 5.0000
RT 4.611 Area 3796647
ISTD 416.80>372.05 1.37e6



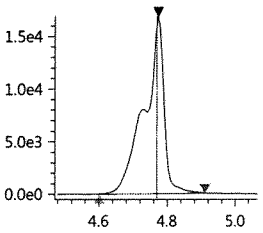
PFOA-13C
Conc 4.9548
RT 4.611 Area 3796647
Q 416.80>372.05 1.37e6



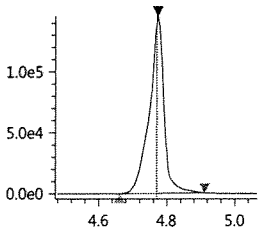
PFOA
Conc 0.9514
RT 4.611 Area 808355
Q 413.00>369.00 2.92e5



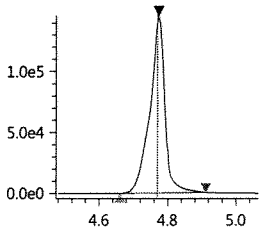
PFOS_1
Conc 1.0225
RT 4.774 Area 67586
Q 499.00>80.00 1.70e4



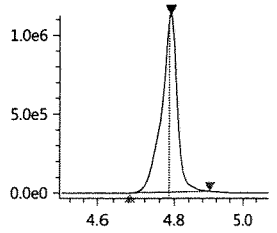
PFOS-13C_IS
Conc 5.0000
RT 4.774 Area 439398
ISTD 502.80>80.05 1.46e5



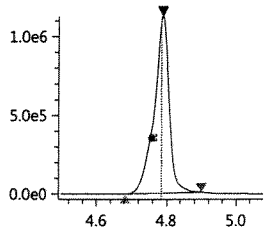
PFOS-13C
Conc 4.2270
RT 4.774 Area 439398
Q 502.80>80.05 1.46e5



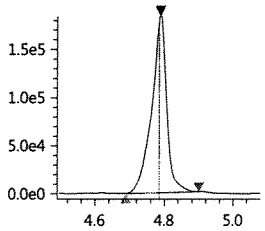
PFNA-13C_IS
Conc 5.0000
RT 4.789 Area 3326037
ISTD 467.80>423.00 1.13e6



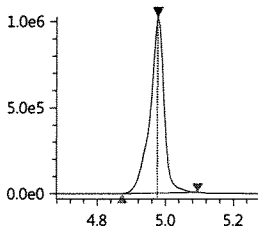
PFNA-13C
Conc 4.3999
RT 4.789 Area 3326037
Q 467.80>423.00 1.13e6



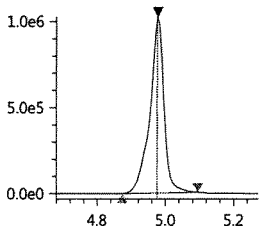
PFNA
Conc 1.0041
RT 4.789 Area 563574
Q 463.00>418.90 1.84e5



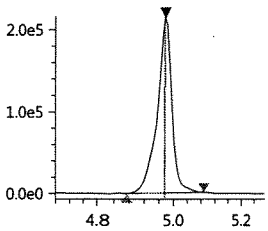
PFDA-13C_IS
Conc 5.0000
RT 4.978 Area 2956899
ISTD 514.80>469.95 1.03e6



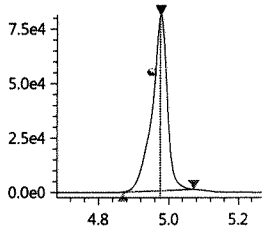
PFDA-13C
Conc 4.4588
RT 4.978 Area 2956899
Q 514.80>469.95 1.03e6



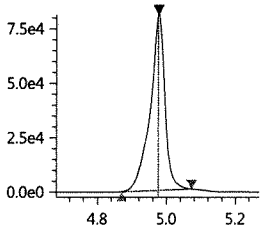
PFDA
Conc 0.9158
RT 4.978 Area 604143
Q 513.00>468.80 2.17e5



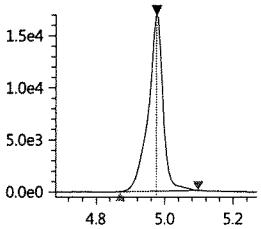
8_2-FTS-13C_IS
Conc 5.0000
RT 4.977 Area 242104
ISTD 528.80>509.00 8.15e4



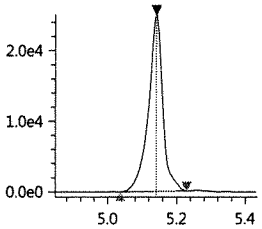
8_2-FTS-13C
Conc 4.3861
RT 4.977 Area 242104
Q 528.80>509.00 8.15e4



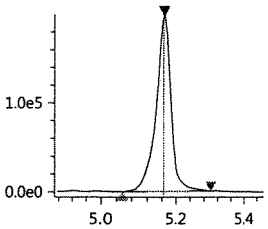
8_2-FTS_1
Conc 1.0289
RT 4.976 Area 50450
Q 526.90>506.90 1.70e4



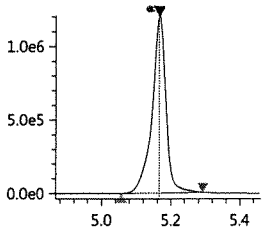
PFDS_1
Conc 1.0573
RT 5.142 Area 73018
Q 599.00>79.90 2.51e4



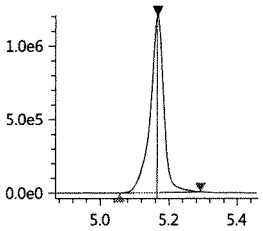
PFUnA
Conc 0.9756
RT 5.167 Area 571296
Q 563.00>518.90 1.99e5



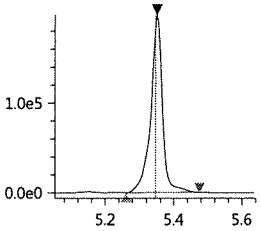
PFUnA-13C_IS
Conc 5.0000
RT 5.167 Area 3313202
ISTD 564.80>519.95 1.21e6



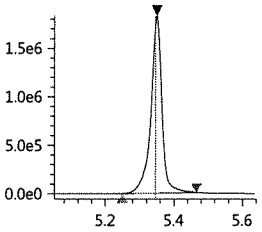
PFUnA-13C
Conc 4.5111
RT 5.167 Area 3313202
Q 564.80>519.95 1.21e6



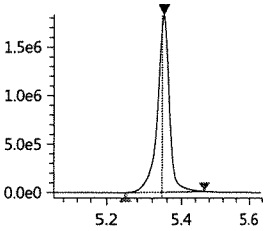
PFDoA
Conc 1.0426
RT 5.351 Area 466303
Q 613.05>569.00 1.98e5



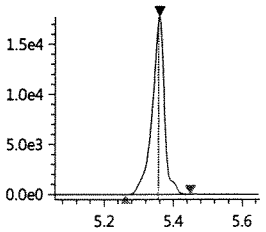
PFDoA-13C
Conc 4.3786
RT 5.350 Area 4119145
Q 614.80>569.95 1.83e6



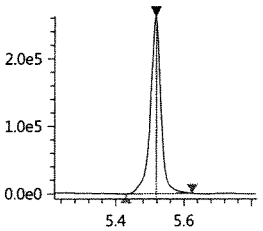
PFDoA-13C_IS
Conc 5.0000
RT 5.350 Area 4119145
ISTD 614.80>569.95 1.83e6



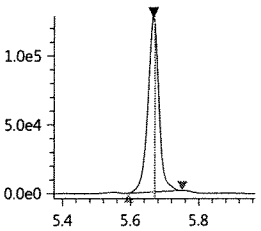
10_2-FtS_1
Conc 1.0643
RT 5.358 Area 43091
Q 627.00>606.95 1.77e4



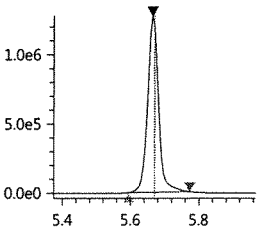
PFTrDA
Conc 0.9780
RT 5.517 Area 566203
Q 663.00>618.90 2.63e5



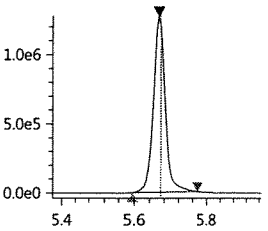
PFTeDA
Conc 1.0526
RT 5.666 Area 288893
Q 713.40>669.00 1.29e5



PFTeDA-13C
Conc 4.4407
RT 5.665 Area 2858652
Q 714.70>669.90 1.28e6



PFTeDA-13C_IS
Conc 5.0000
RT 5.665 Area 2858652
ISTD 714.70>669.90 1.28e6

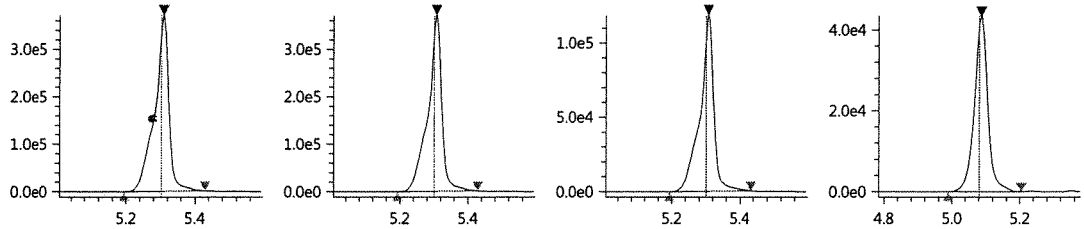


FOSA-13C_IS
Conc 5.0000
RT 5.308 Area 1047652
ISTD 506.00>78.05 3.72e5

FOSA-13C
Conc 4.0198
RT 5.308 Area 1047652
Q 506.00>78.05 3.72e5

FOSA
Conc 1.0826
RT 5.309 Area 331892
Q 498.00>78.00 1.19e5

N-MeFOSAA
Conc 1.1978
RT 5.087 Area 118065
Q 570.20>419.00 4.37e4



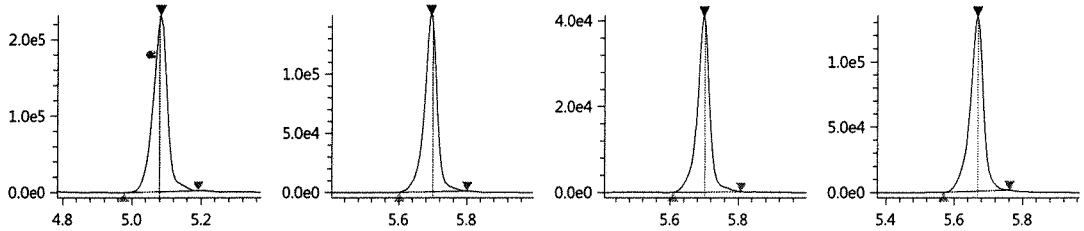
N-MeFOSAA-d3
Conc 4.4282
RT 5.083 Area 650505
Q 572.80>419.05 2.32e5

N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.083 Area 650505
ISTD 572.80>419.05 2.32e5

N-MeFOSA_IS
Conc 5.0000
RT 5.696 Area 392384
ISTD 514.90>168.90 1.50e5

N-MeFOSA
Conc 0.8841
RT 5.699 Area 105567
Q 512.00>169.10 4.13e4

N-MeFOSE-d7
Conc 4.6047
RT 5.669 Area 364807
Q 622.70>59.10 1.36e5



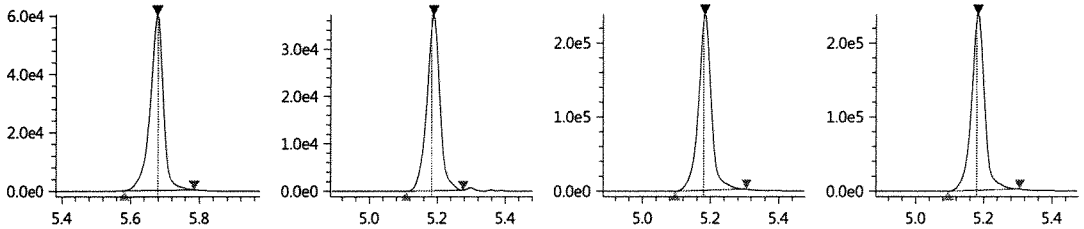
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.669 Area 364807
ISTD 622.70>59.10 1.36e5

N-MeFOSE
Conc 1.0410
RT 5.677 Area 155399
Q 616.00>59.00 6.07e4

N-EtFOSAA
Conc 0.9611
RT 5.189 Area 100207
Q 584.20>418.95 3.74e4

N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.184 Area 634415
ISTD 588.80>419.00 2.39e5

N-EtFOSAA-d5
Conc 4.4380
RT 5.184 Area 634415
Q 588.80>419.00 2.39e5



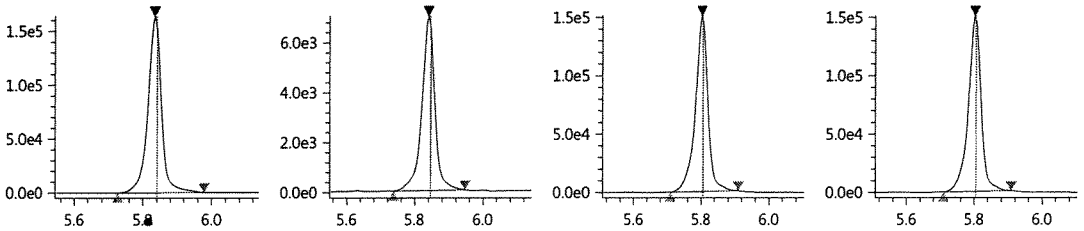
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.835 Area 440417
ISTD 530.90>169.15 1.65e5

N-EtFOSA-d9
Conc 4.1454
RT 5.835 Area 440417
Q 530.90>169.15 1.65e5

N-EtFOSA
Conc 0.9847
RT 5.840 Area 18524
Q 526.90>169.10 7.10e3

N-EtFOSE-d9_IS
Conc 5.0000
RT 5.803 Area 393021
ISTD 638.70>59.10 1.52e5

N-EtFOSE-d9
Conc 4.7671
RT 5.803 Area 393021
Q 638.70>59.10 1.52e5



N-EtFOSE
Conc 0.9701
RT 5.814 Area 179141
Q 630.00>58.90 6.76e4

Before 7/31/17

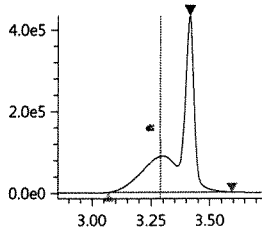
Insight Report

Printed at 7/30/2017 1:18:39 PM

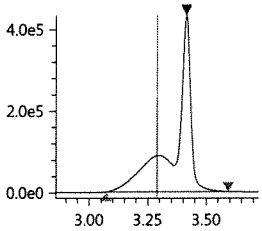
072817_144

Sample ID: 1 ppb
Date acquired: 7/28/2017 4:19:00 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b2\072817_144.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 1

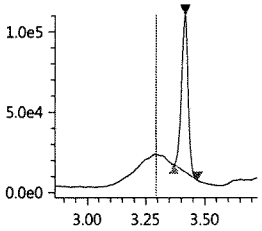
PFBA-13C_IS
Conc 5.0000
RT 3.415 Area 2024406
ISTD 216.90>172.15 4.36e5



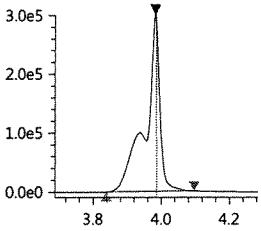
PFBA-13C
Conc 4.1632
RT 3.415 Area 2024406
Q 216.90>172.15 4.36e5



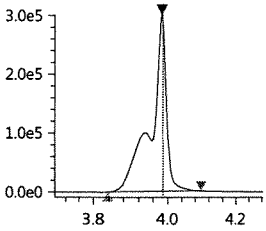
PFBA
Conc 0.4468
RT 3.415 Area 191635
Q 213.00>169.10 1.11e5



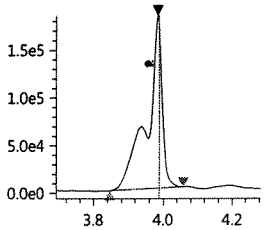
PFPeA-13C_IS
Conc 5.0000
RT 3.983 Area 894427
ISTD 267.90>223.00 3.01e5



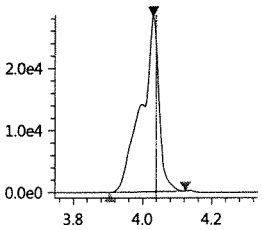
PFPeA-13C
Conc 4.1053
RT 3.983 Area 894427
Q 267.90>223.00 3.01e5



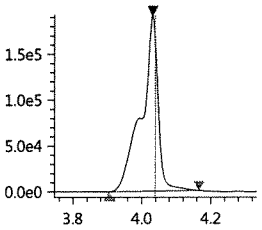
PFPeA
Conc 1.0266
RT 3.983 Area 541398
Q 263.05>219.10 1.86e5



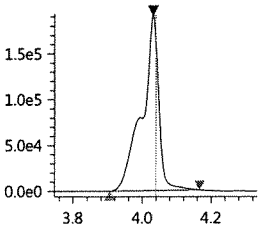
PFBS_1
Conc 0.8939
RT 4.031 Area 101906
Q 299.00>80.00 2.86e4



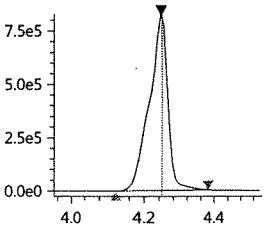
PFBS-13C
Conc 4.6104
RT 4.032 Area 648983
Q 301.80>80.00 1.93e5



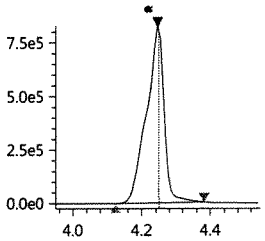
PFBS-13C_IS
Conc 5.0000
RT 4.032 Area 648983
ISTD 301.80>80.00 1.93e5



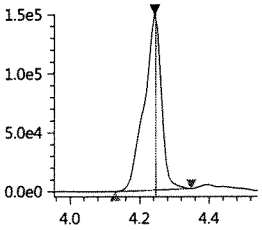
PFHxA-13C_IS
Conc 5.0000
RT 4.246 Area 2887809
ISTD 314.90>270.10 8.31e5



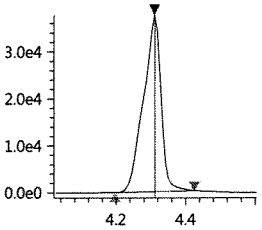
PFHxA-13C
Conc 4.4462
RT 4.246 Area 2887809
Q 314.90>270.10 8.31e5



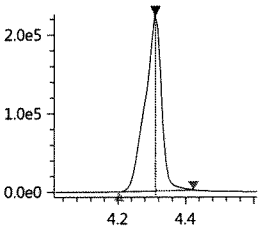
PFHxA
Conc 1.0628
RT 4.244 Area 513150
Q 313.00>269.00 1.51e5



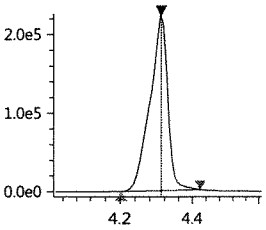
HPFO_DA
Conc 1.0578
RT 4.311 Area 132710
Q 329.00>169.00 3.78e4



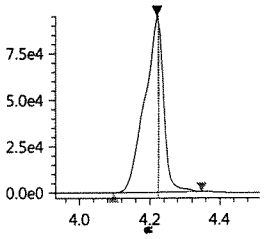
HFPO_DA-13C_IS
Conc 5.0000
RT 4.311 Area 757308
ISTD 332.00>286.80 2.26e5



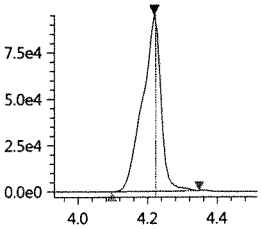
HFPO_DA-13C
Conc 4.5397
RT 4.311 Area 757308
Q 332.00>286.80 2.26e5



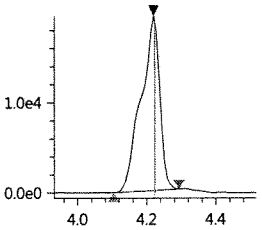
4_2-FTS-13C_IS
Conc 5.0000
RT 4.219 Area 349293
ISTD 328.80>309.05 9.55e4



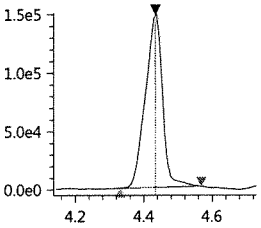
4_2-FTS-13C
Conc 4.4095
RT 4.219 Area 349293
Q 328.80>309.05 9.55e4



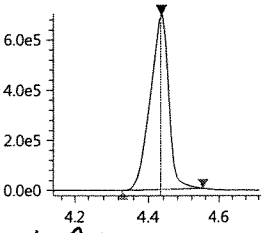
4_2-FTS_1
Conc 0.9067
RT 4.220 Area 72930
Q 327.00>307.05 1.96e4



PFHpA
Conc 1.0897
RT 4.434 Area 516017
Q 362.90>319.00 1.51e5



PFHpA-13C_IS
Conc 5.0000
RT 4.434 Area 2420265
ISTD 366.90>322.10 7.05e5



7/31/17

072817_145

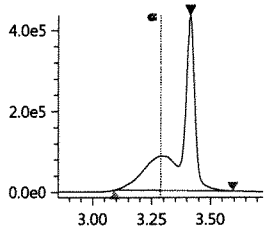
Sample ID: IB
Date acquired: 7/28/2017 4:29:27 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b2\072817_145.lcd
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 1

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
PFBA-13C_IS	3.415	1949516	1949516	2	5.0000	ng/mL	----	----	Auto
PFBA-13C	3.415	1949516	361121	1	4.3563	ng/mL	----	----	Auto
PFBA	3.418	9566	1949516	2	0.0232	ng/mL	----	----	M
PFPeA-13C_IS	3.984	872046	872046	4	5.0000	ng/mL	----	----	Auto
PFPeA-13C	3.984	872046	361121	1	4.3491	ng/mL	----	----	Auto
PFPeA	3.985	57987	872046	4	0.0279	ng/mL	----	----	Auto
PFBS_1	4.035	120	636420	16	0.0011	ng/mL	----	----	Auto
PFBS-13C	4.032	636420	361121	1	4.9126	ng/mL	----	----	Auto
PFBS-13C_IS	4.032	636420	636420	16	5.0000	ng/mL	----	----	Auto
PFHxA-13C_IS	4.247	2911154	2911154	6	5.0000	ng/mL	----	----	Auto
PFHxA-13C	4.247	2911154	361121	1	4.8702	ng/mL	----	----	Auto
PFHxA	4.225	13735	2911154	6	0.0068	ng/mL	----	----	Auto
HPFO_DA	----	----	----	3	----	ng/mL	----	----	NI
HFPO_DA-13C_IS	4.312	735991	735991	3	5.0000	ng/mL	----	----	Auto
HFPO_DA-13C	4.312	735991	361121	1	4.7939	ng/mL	----	----	Auto
4_2-FTS-13C_IS	4.221	366847	366847	5	5.0000	ng/mL	----	----	Auto
4_2-FTS-13C	4.221	366847	361121	1	5.0320	ng/mL	----	----	Auto
4_2-FTS_1	----	----	----	5	----	ng/mL	----	----	NI
PFHpA	----	----	----	8	----	ng/mL	----	----	NI
PFHpA-13C_IS	4.436	2479280	2479280	8	5.0000	ng/mL	----	----	Auto
PFHpA-13C	4.436	2479280	361121	1	4.5292	ng/mL	----	----	Auto
PFHxS-18O_IS	4.434	351774	351774	7	5.0000	ng/mL	----	----	Auto
PFHxS-18O	4.434	351774	361121	1	4.2079	ng/mL	----	----	Auto
PFHxS_1	4.447	590	351774	7	0.0069	ng/mL	----	----	M
6_2-FTS-13C	4.601	245694	361121	1	4.7427	ng/mL	----	----	Auto
6_2-FTS-13C_IS	4.601	245694	245694	10	5.0000	ng/mL	----	----	Auto
6_2-FTS_1	----	----	----	10	----	ng/mL	----	----	NP
PFHpS_1	----	----	----	7	----	ng/mL	----	----	NP
PFOA-13C_IS	4.611	3723150	3723150	9	5.0000	ng/mL	----	----	Auto
PFOA-13C	4.611	3723150	361121	1	5.2795	ng/mL	----	----	Auto
PFOA	4.602	17164	3723150	9	0.0206	ng/mL	----	----	Auto
PFOS_1	4.779	434	439441	13	0.0066	ng/mL	----	----	M
PFOS-13C_IS	4.775	439441	439441	13	5.0000	ng/mL	----	----	Auto
PFOS-13C	4.775	439441	361121	1	4.5934	ng/mL	----	----	Auto
PFNA-13C_IS	4.791	3274631	3274631	11	5.0000	ng/mL	----	----	Auto
PFNA-13C	4.791	3274631	361121	1	4.7069	ng/mL	----	----	Auto
PFNA	4.762	11601	3274631	11	0.0210	ng/mL	----	----	Auto
PFDA-13C_IS	4.979	2965322	2965322	12	5.0000	ng/mL	----	----	Auto
PFDA-13C	4.979	2965322	361121	1	4.8586	ng/mL	----	----	Auto
PFDA	4.966	7062	2965322	12	0.0107	ng/mL	----	----	Auto
8_2-FTS-13C_IS	4.978	234700	234700	15	5.0000	ng/mL	----	----	Auto
8_2-FTS-13C	4.978	234700	361121	1	4.6201	ng/mL	----	----	Auto
8_2-FTS_1	4.988	110	234700	15	0.0023	ng/mL	----	----	Auto
PFDS_1	----	----	----	13	----	ng/mL	----	----	NP
PFUnA	5.166	16789	3300482	14	0.0039	ng/mL	----	----	M
PFUnA-13C_IS	5.167	3300482	3300482	14	5.0000	ng/mL	----	----	Auto
PFUnA-13C	5.167	3300482	361121	1	4.8828	ng/mL	----	----	Auto
PFDoA	5.331	6602	4127288	17	0.0147	ng/mL	----	----	Auto
PFDoA-13C	5.351	4127288	361121	1	4.7671	ng/mL	----	----	Auto
PFDoA-13C_IS	5.351	4127288	4127288	17	5.0000	ng/mL	----	----	Auto
10_2-FtS_1	----	----	----	15	----	ng/mL	----	----	NP
PFTrDA	5.499	5764	2826549	22	0.0101	ng/mL	----	----	Auto
PFTeDA	5.665	28384	2826549	22	0.0165	ng/mL	----	----	Auto
PFTeDA-13C	5.665	2826549	361121	1	4.7709	ng/mL	----	----	Auto
PFTeDA-13C_IS	5.665	2826549	2826549	22	5.0000	ng/mL	----	----	Auto
FOSA-13C_IS	5.309	1036213	1036213	18	5.0000	ng/mL	----	----	Auto
FOSA-13C	5.309	1036213	361121	1	4.3201	ng/mL	----	----	Auto
FOSA	5.315	1217	1036213	18	0.0040	ng/mL	----	----	Auto
N-MeFOSAA	----	----	----	19	----	ng/mL	----	----	NP
N-MeFOSAA-d3	5.084	675872	361121	1	4.9992	ng/mL	----	----	Auto
N-MeFOSAA-d3_IS	5.084	675872	675872	19	5.0000	ng/mL	----	----	Auto
N-MeFOSA_IS	5.695	361121	361121	1	5.0000	ng/mL	----	----	Auto
N-MeFOSA	5.699	481	371869	20	0.0039	ng/mL	----	----	M
N-MeFOSE-d7	5.668	371869	361121	1	5.1002	ng/mL	----	----	Auto
N-MeFOSE-d7_IS	5.668	371869	371869	20	5.0000	ng/mL	----	----	Auto

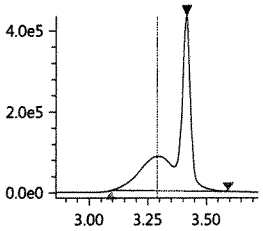
(Table continued from previous page)

Name	Found Ret. Time	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.	Accuracy(%)	Mode ID
N-MeFOSE	----	----	----	20	----	ng/mL	----	----	NI
N-EtFOSAA	----	----	----	21	----	ng/mL	----	----	NP
N-EtFOSAA-d5_IS	5.184	638710	638710	21	5.0000	ng/mL	----	----	Auto
N-EtFOSAA-d5	5.184	638710	361121	1	4.8548	ng/mL	----	----	Auto
N-EtFOSA-d9_IS	5.835	449343	449343	23	5.0000	ng/mL	----	----	Auto
N-EtFOSA-d9	5.835	449343	361121	1	4.5956	ng/mL	----	----	Auto
N-EtFOSA	----	----	----	23	----	ng/mL	----	----	NI
N-EtFOSE-d9_IS	5.802	376920	376920	24	5.0000	ng/mL	----	----	Auto
N-EtFOSE-d9	5.802	376920	361121	1	4.9676	ng/mL	----	----	Auto
N-EtFOSE	----	----	----	24	----	ng/mL	----	----	NI

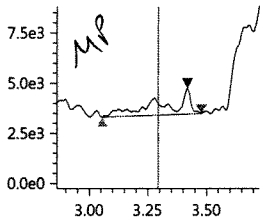
PFBA-13C_IS
Conc 5.0000
RT 3.415 Area 1949516
ISTD 216.90>172.15 4.37e5



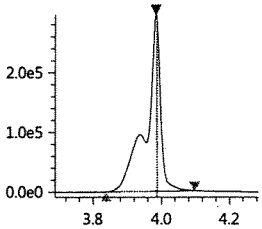
PFBA-13C
Conc 4.3563
RT 3.415 Area 1949516
Q 216.90>172.15 4.37e5



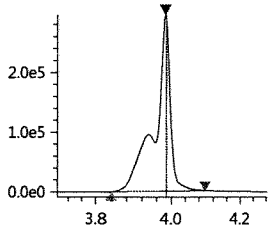
PFBA
Conc 0.0232
RT 3.418 Area 9566
Q 213.00>169.10 8.82e3



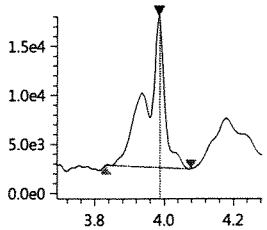
PFPeA-13C_IS
Conc 5.0000
RT 3.984 Area 872046
ISTD 267.90>223.00 2.96e5



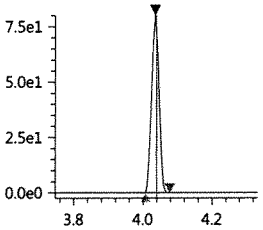
PFPeA-13C
Conc 4.3491
RT 3.984 Area 872046
Q 267.90>223.00 2.96e5



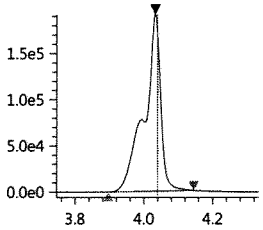
PFPeA
Conc 0.0279
RT 3.985 Area 57987
Q 263.05>219.10 1.81e4



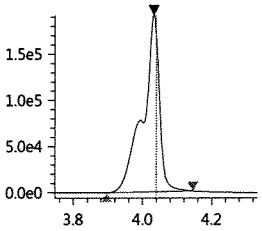
PFBS_1
Conc 0.0011
RT 4.035 Area 120
Q 299.00>80.00 8.00e1



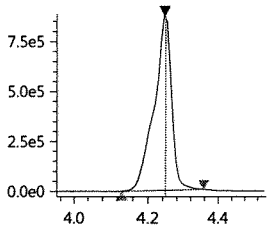
PFBS-13C
Conc 4.9126
RT 4.032 Area 636420
Q 301.80>80.00 1.92e5



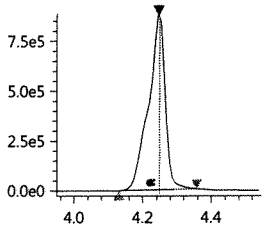
PFBS-13C_IS
Conc 5.0000
RT 4.032 Area 636420
ISTD 301.80>80.00 1.92e5



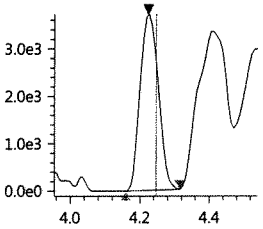
PFHxA-13C_IS
Conc 5.0000
RT 4.247 Area 2911154
ISTD 314.90>270.10 8.87e5



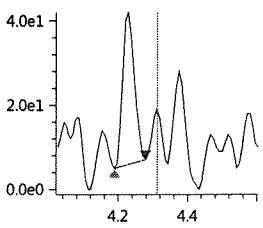
PFHxA-13C
Conc 4.8702
RT 4.247 Area 2911154
Q 314.90>270.10 8.87e5



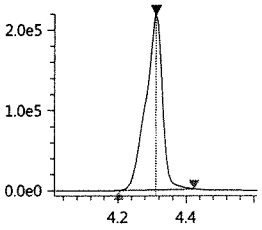
PFHxA
Conc 0.0068
RT 4.225 Area 13735
Q 313.00>269.00 3.73e3



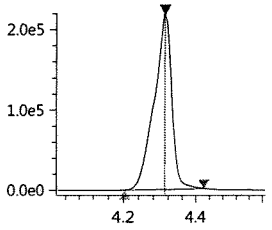
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 4.20e1



HFPO_DA-13C_IS
Conc 5.0000
RT 4.312 Area 735991
ISTD 332.00>286.80 2.20e5



HFPO_DA-13C
Conc 4.7939
RT 4.312 Area 735991
Q 332.00>286.80 2.20e5



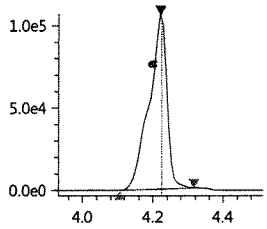
MM 7/31/17

7/31/17

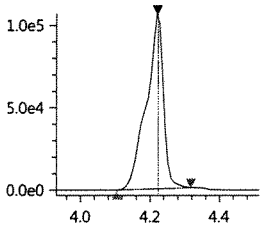
Insight Report

Printed at 7/30/2017 5:55:51 PM

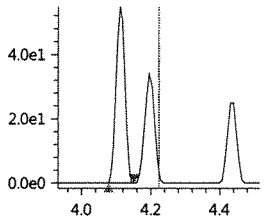
4_2-FTS-13C_IS
Conc 5.0000
RT 4.221 Area 366847
ISTD 328.80>309.05 1.07e5



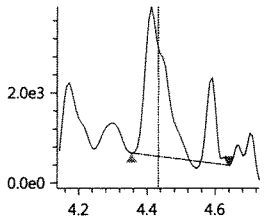
4_2-FTS-13C
Conc 5.0320
RT 4.221 Area 366847
Q 328.80>309.05 1.07e5



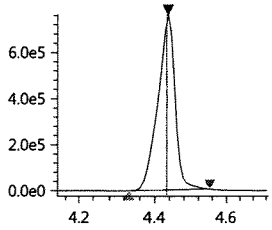
4_2-FTS_1
Conc ----
RT ---- Area ----
Q 327.00>307.05 5.50e1



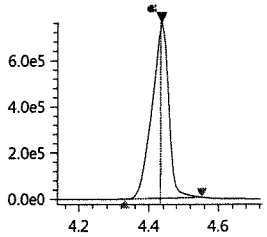
PFHpA
Conc ----
RT ---- Area ----
Q 362.90>319.00 3.92e3



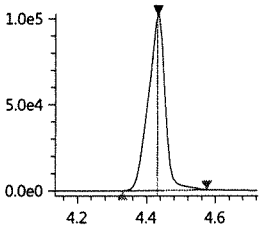
PFHpA-13C_IS
Conc 5.0000
RT 4.436 Area 2479280
ISTD 366.90>322.10 7.67e5



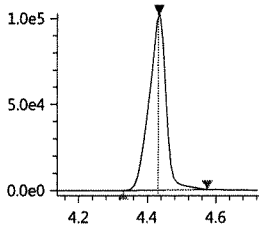
PFHpA-13C
Conc 4.5292
RT 4.436 Area 2479280
Q 366.90>322.10 7.67e5



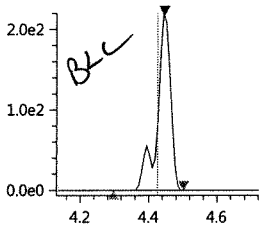
PFHxS-18O_IS
Conc 5.0000
RT 4.434 Area 351774
ISTD 402.70>84.05 1.03e5



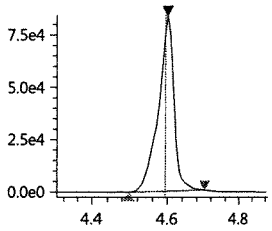
PFHxS-18O
Conc 4.2079
RT 4.434 Area 351774
Q 402.70>84.05 1.03e5



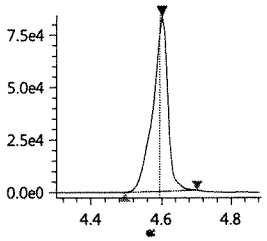
PFHxS_1
Conc 0.0069
RT 4.447 Area 590
Q 399.00>80.00 2.20e2



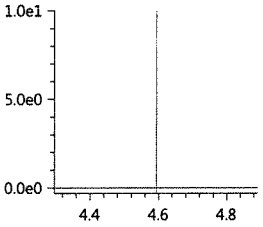
6_2-FTS-13C
Conc 4.7427
RT 4.601 Area 245694
Q 428.90>409.00 8.45e4



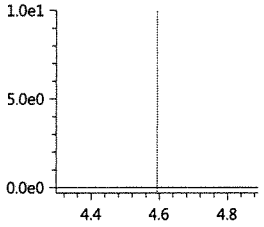
6_2-FTS-13C_IS
Conc 5.0000
RT 4.601 Area 245694
ISTD 428.90>409.00 8.45e4



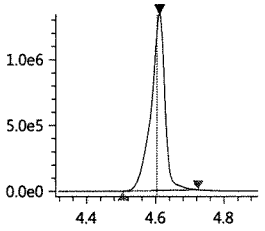
6_2-FTS_1
Conc ----
RT ---- Area ----
Q 427.00>407.00 0.00e0



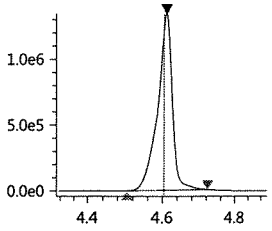
PFHpS_1
Conc ----
RT ---- Area ----
Q 449.00>80.15 0.00e0



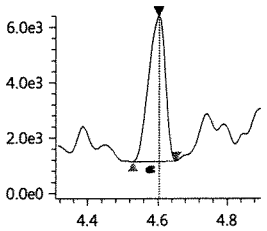
PFOA-13C_IS
Conc 5.0000
RT 4.611 Area 3723150
ISTD 416.80>372.05 1.35e6



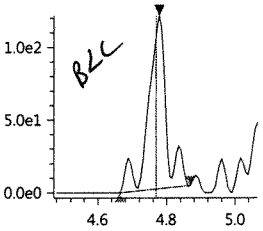
PFOA-13C
Conc 5.2795
RT 4.611 Area 3723150
Q 416.80>372.05 1.35e6



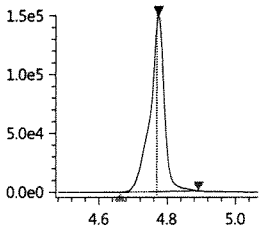
PFOA
Conc 0.0206
RT 4.602 Area 17164
Q 413.00>369.00 6.41e3



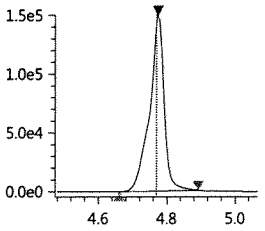
PFOS_1
Conc 0.0066
RT 4.779 Area 434
Q 499.00>80.00 1.22e2



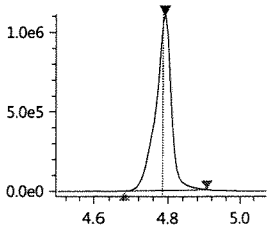
PFOS-13C_IS
Conc 5.0000
RT 4.775 Area 439441
ISTD 502.80>80.05 1.51e5



PFOS-13C
Conc 4.5934
RT 4.775 Area 439441
Q 502.80>80.05 1.51e5



PFNA-13C_IS
Conc 5.0000
RT 4.791 Area 3274631
ISTD 467.80>423.00 1.12e6



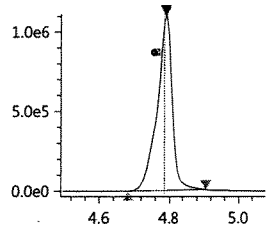
MB 7/31/17

7/31/17

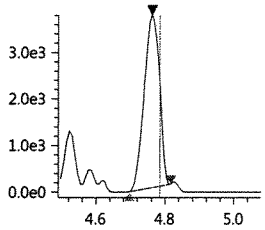
Insight Report

Printed at 7/30/2017 5:55:51 PM

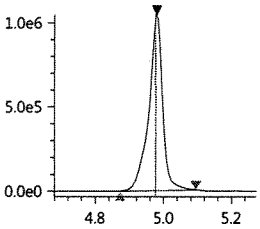
PFNA-13C
Conc 4.7069
RT 4.791 Area 3274631
Q 467.80>423.00 1.12e6



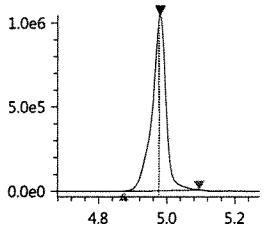
PFNA
Conc 0.0210
RT 4.762 Area 11601
Q 463.00>418.90 3.81e3



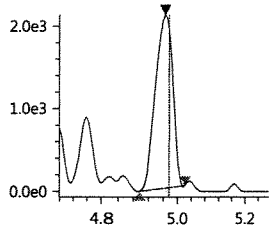
PFDA-13C_IS
Conc 5.0000
RT 4.979 Area 2965322
ISTD 514.80>469.95 1.05e6



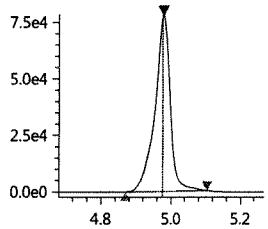
PFDA-13C
Conc 4.8586
RT 4.979 Area 2965322
Q 514.80>469.95 1.05e6



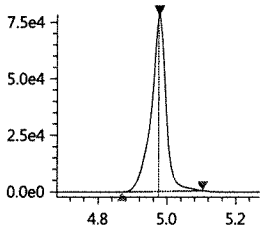
PFDA
Conc 0.0107
RT 4.966 Area 7062
Q 513.00>468.80 2.15e3



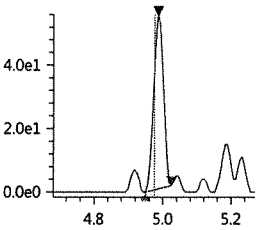
8_2-FTS-13C_IS
Conc 5.0000
RT 4.978 Area 234700
ISTD 528.80>509.00 7.86e4



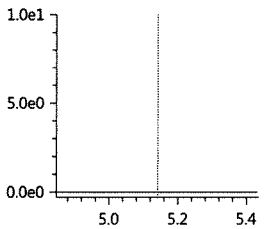
8_2-FTS-13C
Conc 4.6201
RT 4.978 Area 234700
Q 528.80>509.00 7.86e4



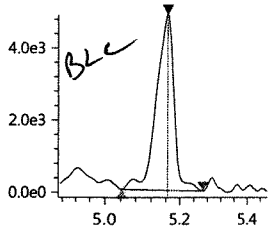
8_2-FTS_1
Conc 0.0023
RT 4.988 Area 110
Q 526.90>506.90 5.60e1



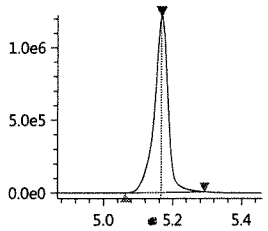
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 0.00e0



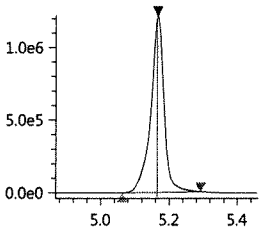
PFUnA
Conc 0.0039
RT 5.166 Area 16789
Q 563.00>518.90 4.93e3



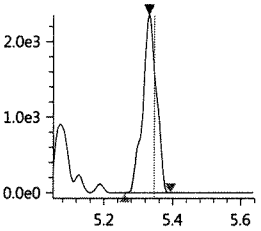
PFUnA-13C_IS
Conc 5.0000
RT 5.167 Area 3300482
ISTD 564.80>519.95 1.23e6



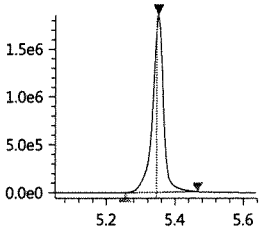
PFUnA-13C
Conc 4.8828
RT 5.167 Area 3300482
Q 564.80>519.95 1.23e6



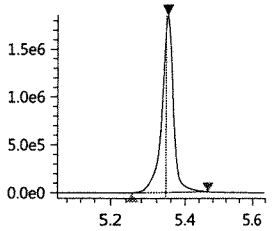
PFDoA
Conc 0.0147
RT 5.331 Area 6602
Q 613.05>569.00 2.36e3



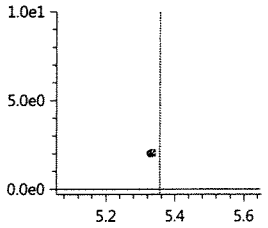
PFDoA-13C
Conc 4.7671
RT 5.351 Area 4127288
Q 614.80>569.95 1.86e6



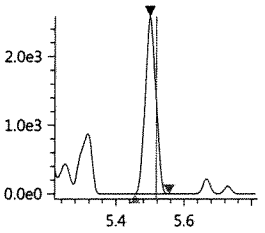
PFDoA-13C_IS
Conc 5.0000
RT 5.351 Area 4127288
ISTD 614.80>569.95 1.86e6



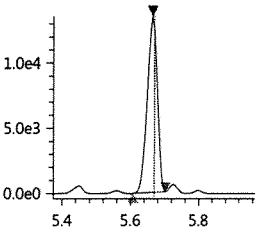
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



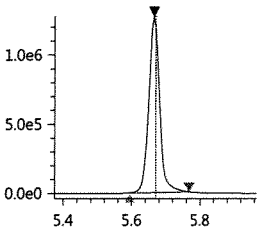
PFTrDA
Conc 0.0101
RT 5.499 Area 5764
Q 663.00>618.90 2.59e3



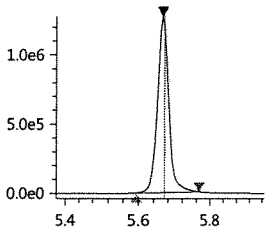
PFTeDA
Conc 0.0165
RT 5.665 Area 28384
Q 713.40>669.00 1.36e4



PFTeDA-13C
Conc 4.7709
RT 5.665 Area 2826549
Q 714.70>669.90 1.28e6



PFTeDA-13C_IS
Conc 5.0000
RT 5.665 Area 2826549
ISTD 714.70>669.90 1.28e6



7/31/17

7/31/17

Insight Report

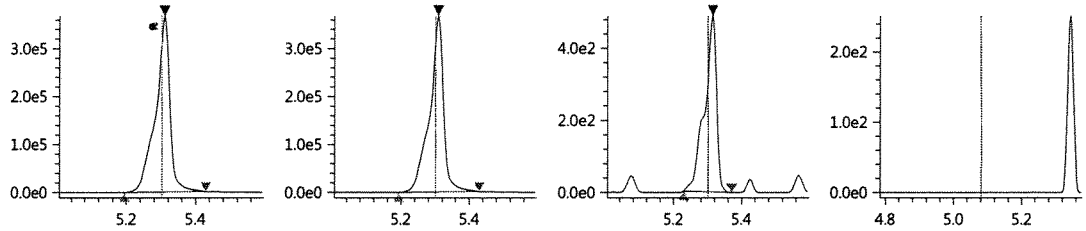
Printed at 7/30/2017 5:55:51 PM

FOSA-13C_IS
Conc 5.0000
RT 5.309 Area 1036213
ISTD 506.00>78.05 3.69e5

FOSA-13C
Conc 4.3201
RT 5.309 Area 1036213
Q 506.00>78.05 3.69e5

FOSA
Conc 0.0040
RT 5.315 Area 1217
Q 498.00>78.00 4.91e2

N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 2.52e2



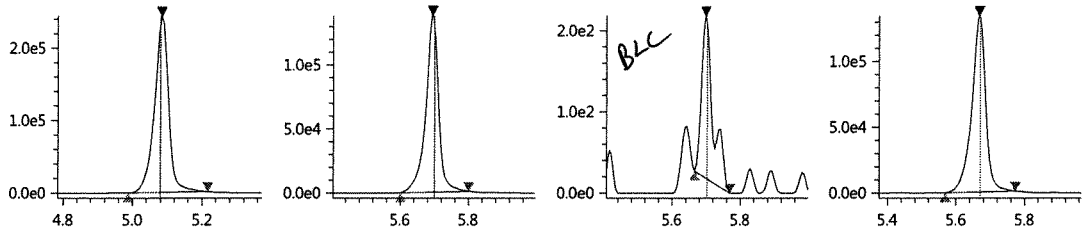
N-MeFOSAA-d3
Conc 4.9992
RT 5.084 Area 675872
Q 572.80>419.05 2.45e5

N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.084 Area 675872
ISTD 572.80>419.05 2.45e5

N-MeFOSA_IS
Conc 5.0000
RT 5.695 Area 361121
ISTD 514.90>168.90 1.39e5

N-MeFOSA
Conc 0.0039
RT 5.699 Area 481
Q 512.00>169.10 2.19e2

N-MeFOSE-d7
Conc 5.1002
RT 5.668 Area 371869
Q 622.70>59.10 1.35e5



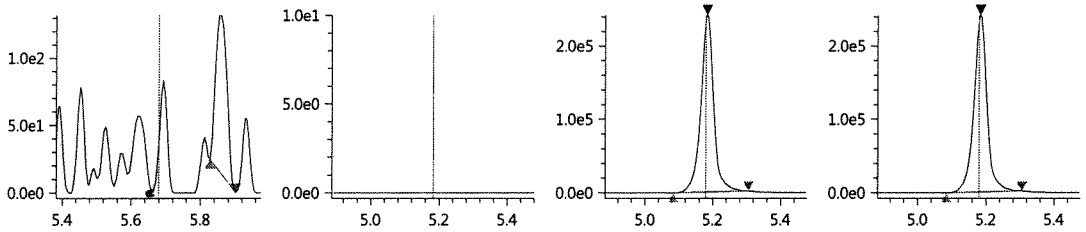
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.668 Area 371869
ISTD 622.70>59.10 1.35e5

N-MeFOSE
Conc ----
RT ---- Area ----
Q 616.00>59.00 1.32e2

N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 0.00e0

N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.184 Area 638710
ISTD 588.80>419.00 2.42e5

N-EtFOSAA-d5
Conc 4.8548
RT 5.184 Area 638710
Q 588.80>419.00 2.42e5



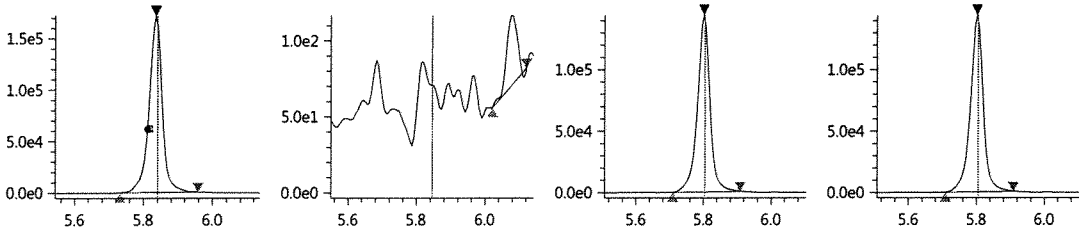
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.835 Area 449343
ISTD 530.90>169.15 1.73e5

N-EtFOSA-d9
Conc 4.5956
RT 5.835 Area 449343
Q 530.90>169.15 1.73e5

N-EtFOSA
Conc ----
RT ---- Area ----
Q 526.90>169.10 1.17e2

N-EtFOSE-d9_IS
Conc 5.0000
RT 5.802 Area 376920
ISTD 638.70>59.10 1.45e5

N-EtFOSE-d9
Conc 4.9676
RT 5.802 Area 376920
Q 638.70>59.10 1.45e5



N-EtFOSE
Conc ----
RT ---- Area ----
Q 630.00>58.90 2.82e2

AH 7/31/17

Before LOD 7/31/17

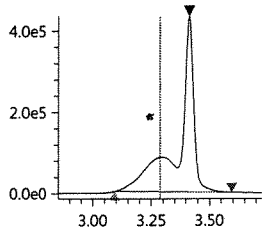
Insight Report

Printed at 7/30/2017 1:18:39 PM

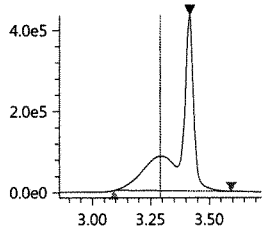
072817_145

Sample ID: IB
Date acquired: 7/28/2017 4:29:27 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\072817_b2\072817_145.lcd
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 1

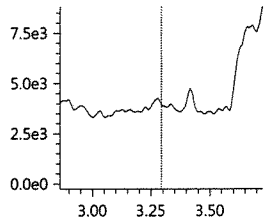
PFBA-13C_IS
Conc 5.0000
RT 3.415 Area 1949516
ISTD 216.90>172.15 4.37e5



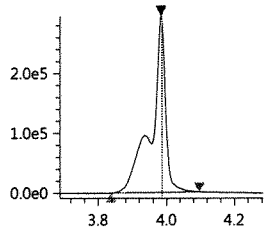
PFBA-13C
Conc 4.3563
RT 3.415 Area 1949516
Q 216.90>172.15 4.37e5



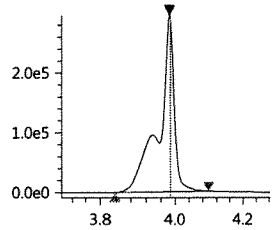
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 8.82e3



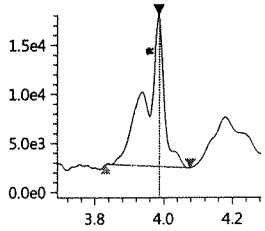
PFPeA-13C_IS
Conc 5.0000
RT 3.984 Area 872046
ISTD 267.90>223.00 2.96e5



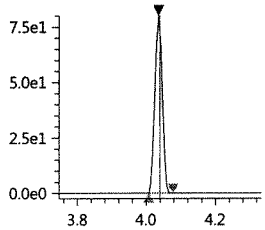
PFPeA-13C
Conc 4.3491
RT 3.984 Area 872046
Q 267.90>223.00 2.96e5



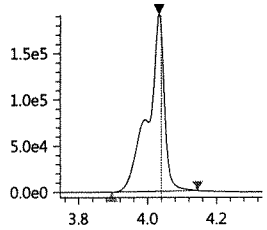
PFPeA
Conc 0.0279
RT 3.985 Area 57987
Q 263.05>219.10 1.81e4



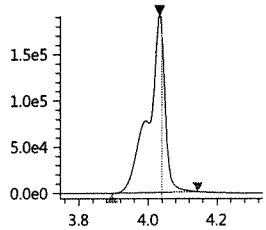
PFBS_1
Conc 0.0011
RT 4.035 Area 120
Q 299.00>80.00 8.00e1



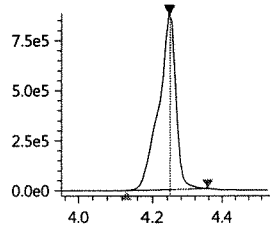
PFBS-13C
Conc 4.9126
RT 4.032 Area 636420
Q 301.80>80.00 1.92e5



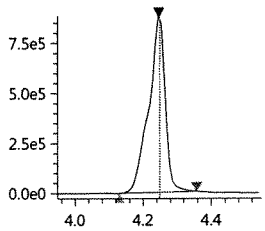
PFBS-13C_IS
Conc 5.0000
RT 4.032 Area 636420
ISTD 301.80>80.00 1.92e5



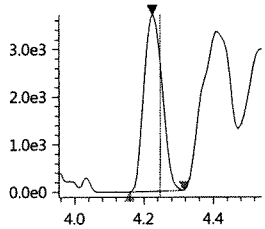
PFHxA-13C_IS
Conc 5.0000
RT 4.247 Area 2911154
ISTD 314.90>270.10 8.87e5



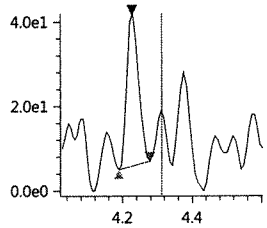
PFHxA-13C
Conc 4.8702
RT 4.247 Area 2911154
Q 314.90>270.10 8.87e5



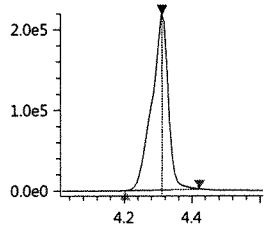
PFHxA
Conc 0.0068
RT 4.225 Area 13735
Q 313.00>269.00 3.73e3



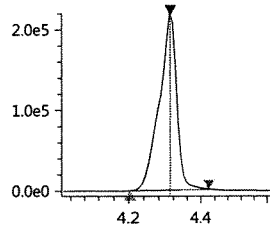
HPFO_DA
Conc 0.0007
RT 4.228 Area 86
Q 329.00>169.00 4.20e1



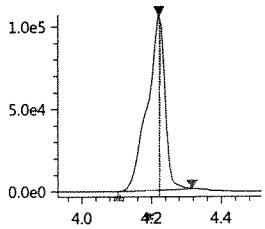
HFPO_DA-13C_IS
Conc 5.0000
RT 4.312 Area 735991
ISTD 332.00>286.80 2.20e5



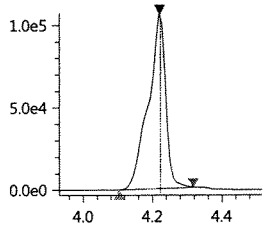
HFPO_DA-13C
Conc 4.7939
RT 4.312 Area 735991
Q 332.00>286.80 2.20e5



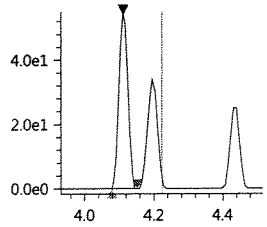
4_2-FTS-13C_IS
Conc 5.0000
RT 4.221 Area 366847
ISTD 328.80>309.05 1.07e5



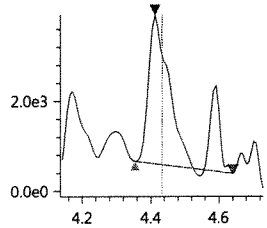
4_2-FTS-13C
Conc 5.0320
RT 4.221 Area 366847
Q 328.80>309.05 1.07e5



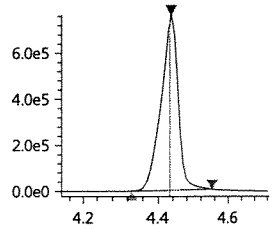
4_2-FTS_1
Conc 0.0012
RT 4.112 Area 98
Q 327.00>307.05 5.50e1



PFHpA
Conc -0.0091
RT 4.412 Area 17305
Q 362.90>319.00 3.92e3



PFHpA-13C_IS
Conc 5.0000
RT 4.436 Area 2479280
ISTD 366.90>322.10 7.67e5



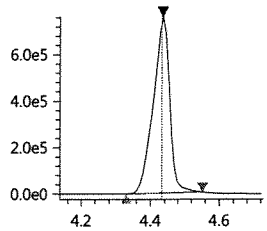
AH 7/31/17

Before 145

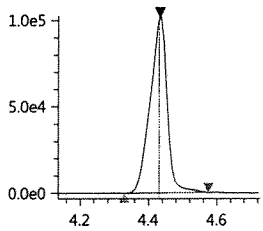
Insight Report

Printed at 7/30/2017 1:18:39 PM

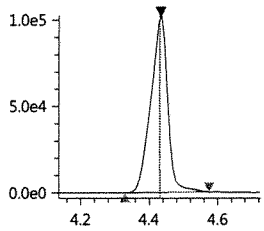
PFHpA-13C
Conc 4.5292
RT 4.436 Area 2479280
Q 366.90>322.10 7.67e5



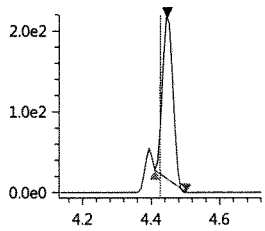
PFHxS-18O_IS
Conc 5.0000
RT 4.434 Area 351774
ISTD 402.70>84.05 1.03e5



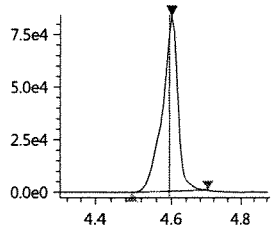
PFHxS-18O
Conc 4.2079
RT 4.434 Area 351774
Q 402.70>84.05 1.03e5



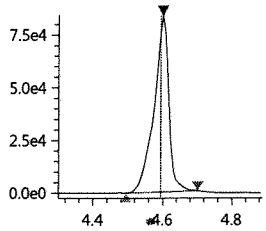
PFHxS_1
Conc 0.0049
RT 4.447 Area 422
Q 399.00>80.00 2.20e2



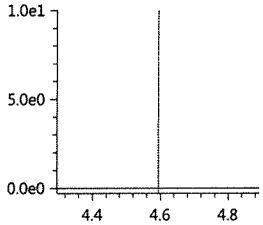
6_2-FTS-13C
Conc 4.7427
RT 4.601 Area 245694
Q 428.90>409.00 8.45e4



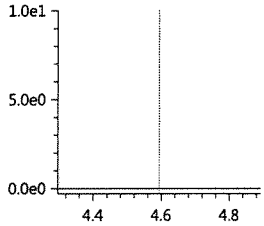
6_2-FTS-13C_IS
Conc 5.0000
RT 4.601 Area 245694
ISTD 428.90>409.00 8.45e4



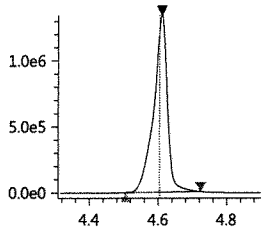
6_2-FTS_1
Conc ----
RT ---- Area ----
Q 427.00>407.00 0.00e0



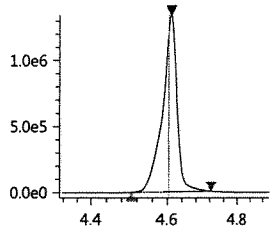
PFHpS_1
Conc ----
RT ---- Area ----
Q 449.00>80.15 0.00e0



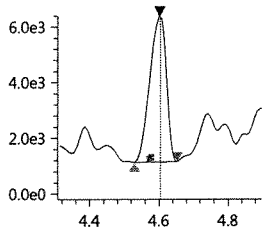
PFOA-13C_IS
Conc 5.0000
RT 4.611 Area 3723150
ISTD 416.80>372.05 1.35e6



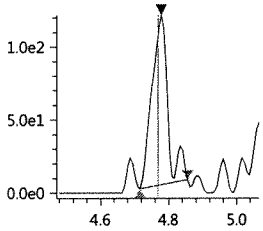
PFOA-13C
Conc 5.2795
RT 4.611 Area 3723150
Q 416.80>372.05 1.35e6



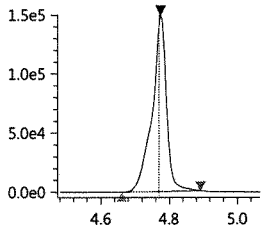
PFOA
Conc 0.0206
RT 4.602 Area 17164
Q 413.00>369.00 6.41e3



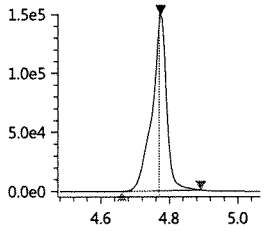
PFOS_1
Conc 0.0056
RT 4.779 Area 373
Q 499.00>80.00 1.22e2



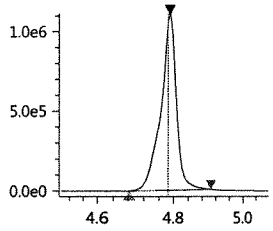
PFOS-13C_IS
Conc 5.0000
RT 4.775 Area 439441
ISTD 502.80>80.05 1.51e5



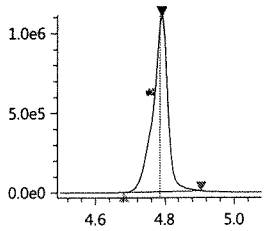
PFOS-13C
Conc 4.5934
RT 4.775 Area 439441
Q 502.80>80.05 1.51e5



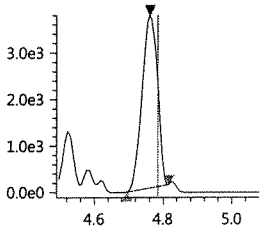
PFNA-13C_IS
Conc 5.0000
RT 4.791 Area 3274631
ISTD 467.80>423.00 1.12e6



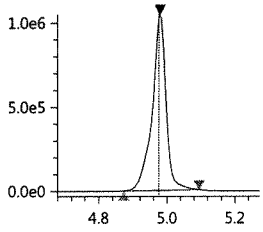
PFNA-13C
Conc 4.7069
RT 4.791 Area 3274631
Q 467.80>423.00 1.12e6



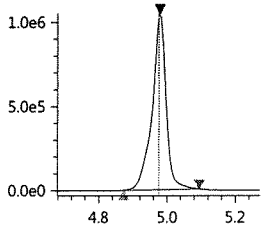
PFNA
Conc 0.0210
RT 4.762 Area 11601
Q 463.00>418.90 3.81e3



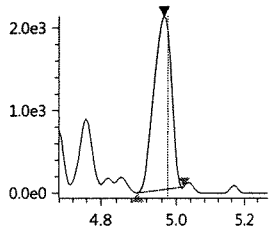
PFDA-13C_IS
Conc 5.0000
RT 4.979 Area 2965322
ISTD 514.80>469.95 1.05e6



PFDA-13C
Conc 4.8586
RT 4.979 Area 2965322
Q 514.80>469.95 1.05e6



PFDA
Conc 0.0107
RT 4.966 Area 7062
Q 513.00>468.80 2.15e3

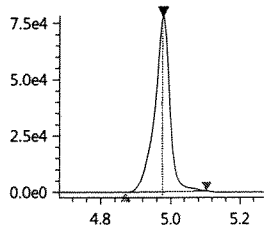


Before 145

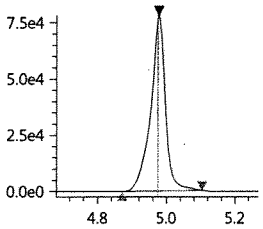
Insight Report

Printed at 7/30/2017 1:18:39 PM

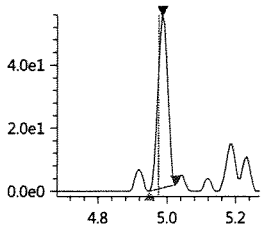
8_2-FTS-13C_IS
Conc 5.0000
RT 4.978 Area 234700
ISTD 528.80>509.00 7.86e4



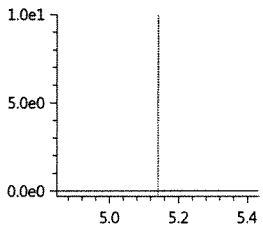
8_2-FTS-13C
Conc 4.6201
RT 4.978 Area 234700
Q 528.80>509.00 7.86e4



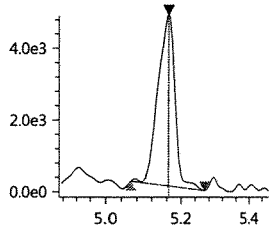
8_2-FTS_1
Conc 0.0023
RT 4.988 Area 110
Q 526.90>506.90 5.60e1



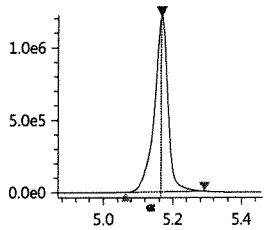
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 0.00e0



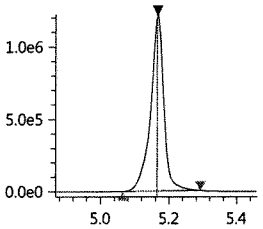
PFUnA
Conc 0.0013
RT 5.166 Area 15310
Q 563.00>518.90 4.93e3



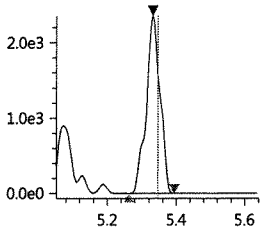
PFUnA-13C_IS
Conc 5.0000
RT 5.167 Area 3300482
ISTD 564.80>519.95 1.23e6



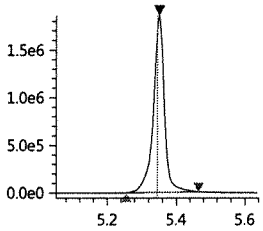
PFUnA-13C
Conc 4.8828
RT 5.167 Area 3300482
Q 564.80>519.95 1.23e6



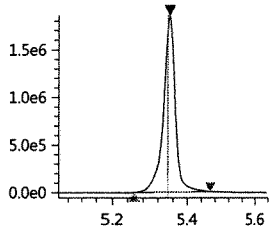
PFDoA
Conc 0.0147
RT 5.331 Area 6602
Q 613.05>569.00 2.36e3



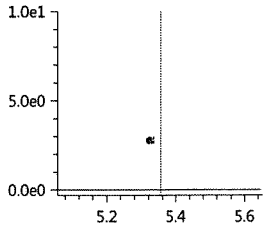
PFDoA-13C
Conc 4.7671
RT 5.351 Area 4127288
Q 614.80>569.95 1.86e6



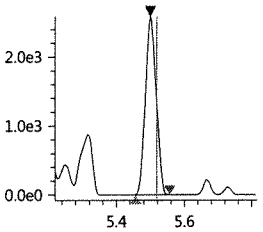
PFDoA-13C_IS
Conc 5.0000
RT 5.351 Area 4127288
ISTD 614.80>569.95 1.86e6



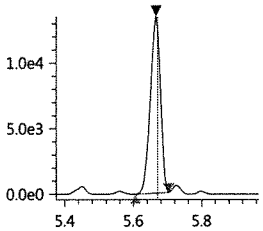
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 0.00e0



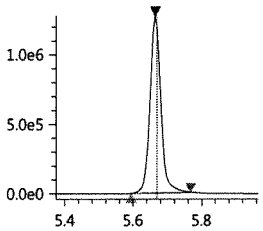
PFTrDA
Conc 0.0101
RT 5.499 Area 5764
Q 663.00>618.90 2.59e3



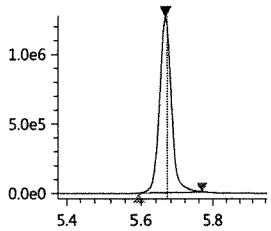
PFTeDA
Conc 0.0165
RT 5.665 Area 28384
Q 713.40>669.00 1.36e4



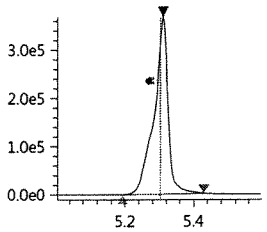
PFTeDA-13C
Conc 4.7709
RT 5.665 Area 2826549
Q 714.70>669.90 1.28e6



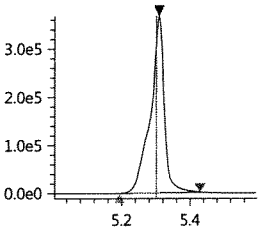
PFTeDA-13C_IS
Conc 5.0000
RT 5.665 Area 2826549
ISTD 714.70>669.90 1.28e6



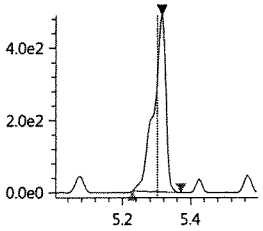
FOSA-13C_IS
Conc 5.0000
RT 5.309 Area 1036213
ISTD 506.00>78.05 3.69e5



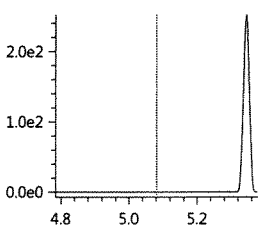
FOSA-13C
Conc 4.3201
RT 5.309 Area 1036213
Q 506.00>78.05 3.69e5



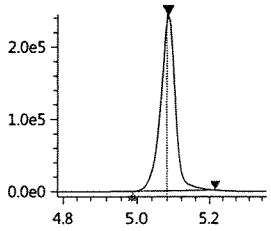
FOSA
Conc 0.0040
RT 5.315 Area 1217
Q 498.00>78.00 4.91e2



N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 2.52e2



N-MeFOSAA-d3
Conc 4.9992
RT 5.084 Area 675872
Q 572.80>419.05 2.45e5

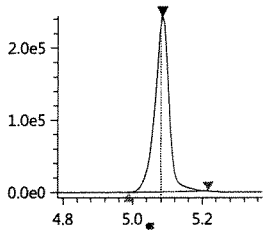


Before 145

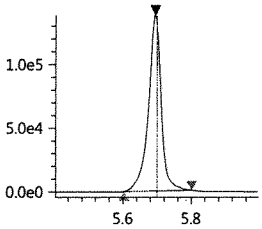
Insight Report

Printed at 7/30/2017 1:18:39 PM

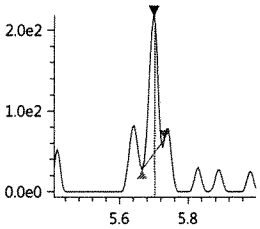
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.084 Area 675872
ISTD 572.80>419.05 2.45e5



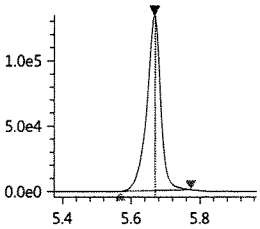
N-MeFOSA_IS
Conc 5.0000
RT 5.695 Area 361121
ISTD 514.90>168.90 1.39e5



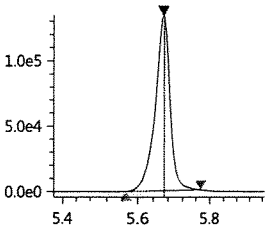
N-MeFOSA
Conc 0.0023
RT 5.699 Area 284
Q 512.00>169.10 2.19e2



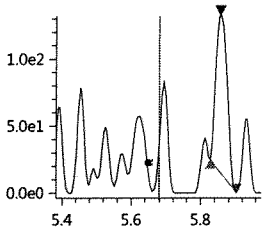
N-MeFOSE-d7
Conc 5.1002
RT 5.668 Area 371869
Q 622.70>59.10 1.35e5



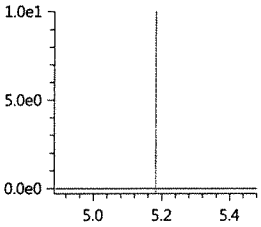
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.668 Area 371869
ISTD 622.70>59.10 1.35e5



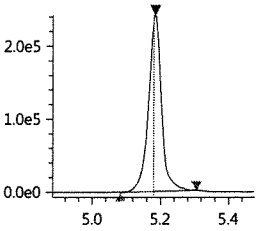
N-MeFOSE
Conc 0.0017
RT 5.857 Area 262
Q 616.00>59.00 1.32e2



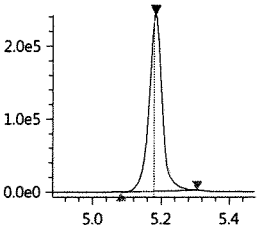
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 0.00e0



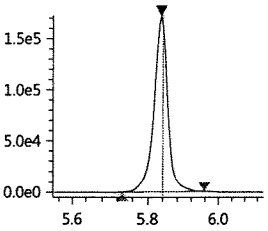
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.184 Area 638710
ISTD 588.80>419.00 2.42e5



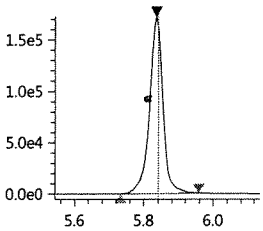
N-EtFOSAA-d5
Conc 4.8548
RT 5.184 Area 638710
Q 588.80>419.00 2.42e5



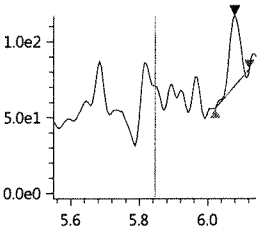
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.835 Area 449343
ISTD 530.90>169.15 1.73e5



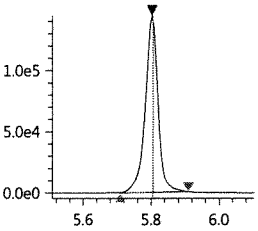
N-EtFOSA-d9
Conc 4.5956
RT 5.835 Area 449343
Q 530.90>169.15 1.73e5



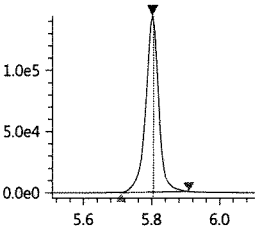
N-EtFOSA
Conc 0.0051
RT 6.079 Area 98
Q 526.90>169.10 1.17e2



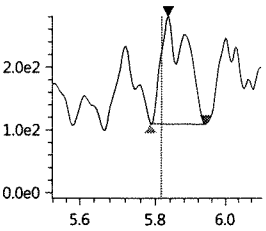
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.802 Area 376920
ISTD 638.70>59.10 1.45e5



N-EtFOSE-d9
Conc 4.9676
RT 5.802 Area 376920
Q 638.70>59.10 1.45e5



N-EtFOSE
Conc 0.0048
RT 5.834 Area 857
Q 630.00>58.90 2.82e2



Preparation Information Benchsheet

'rep Run#: 293302
'eam: Organic LC/CMULLER
Number of Copies to make: 2

Prep WorkFlow: OrgExtS(14)
Prep Method: EPA 3550B

Status: Prepped
Prep Date/Time: 7/24/17 09:57 AM

	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K1707559-001	OIT Baghouse Stake 1	.01	PFC/537M/PFOA		Soil	1.011g	8.00mL	APOSEY K- BALANCE -49
2	K1707559-002	OIT Baghouse Stake 2	.01	PFC/537M/PFOA		Soil	1.085g	8.00mL	APOSEY K- BALANCE -49
3	K1707559-003	OIT Baghouse Stake 3	.01	PFC/537M/PFOA		Soil	1.008g	8.00mL	APOSEY K- BALANCE -49
4	K1707559-004	Duplicate	.01	PFC/537M/PFOA		Soil	1.058g	8.00mL	APOSEY K- BALANCE -49
5	K1707681-001	PEC-1	.01	PFC/537M/PFOA		Soil	1.004g	8.00mL	KMCCOY K-Balance-47 / grass and mud
6	K1707681-002	PEC-1 DUP	.01	PFC/537M/PFOA		Soil	1.118g	8.00mL	KMCCOY K-Balance-47 / grass and mud
7	KQ1709896-04	MB		PFC/537M/PFOA		Solid	1g	8.00mL	
8	KQ1709896-03	LCS		PFC/537M/PFOA		Solid	1g	8.00mL	
9	KQ1709896-01	K1707559-001 MS	.01	PFC/537M/PFOA		Solid	1.090g	8.00mL	
10	KQ1709896-02	K1707559-001 DMS	.01	PFC/537M/PFOA		Solid	1.082g	8.00mL	

piking Solutions

Name: PFC Targets 2ppm | Inventory ID 180127 | Logbook Ref: 17-OLC-01-18I | Expires On: 01/04/2022

KQ1709896-01 20.00µL KQ1709896-02 20.00µL KQ1709896-03 20.00µL

Name: PFC IS | Inventory ID 182250 | Logbook Ref: 17-OLC-01-58B | Expires On: 12/27/2017

K1707559-001 10.00µL K1707559-002 10.00µL K1707559-003 10.00µL K1707559-004 10.00µL K1707681-001 10.00µL K1707681-002 10.00µL
KQ1709896-01 10.00µL KQ1709896-02 10.00µL KQ1709896-03 10.00µL KQ1709896-04 10.00µL

Name: PFC isotopes 2ppm | Inventory ID 182616 | Logbook Ref: 17-OLC-01-66D | Expires On: 01/11/2018

K1707559-001 20.00µL K1707559-002 20.00µL K1707559-003 20.00µL K1707559-004 20.00µL K1707681-001 20.00µL K1707681-002 20.00µL
KQ1709896-01 20.00µL KQ1709896-02 20.00µL KQ1709896-03 20.00µL KQ1709896-04 20.00µL

Name: PFC Targets 2ppm | Inventory ID 182774 | Logbook Ref: 17-OLC-01-70E_A | Expires On: 01/19/2018

KQ1709896-01 20.00µL KQ1709896-02 20.00µL KQ1709896-03 20.00µL

Name: PFC isotopes 2ppm | Inventory ID 182795 | Logbook Ref: 17-OLC-01-52A | Expires On: 11/17/2021

K1707559-001 20.00µL K1707559-002 20.00µL K1707559-003 20.00µL K1707559-004 20.00µL K1707681-001 20.00µL K1707681-002 20.00µL
KQ1709896-01 20.00µL KQ1709896-02 20.00µL KQ1709896-03 20.00µL KQ1709896-04 20.00µL

Preparation Information Benchsheet

Prep Run#: 293302
Team: Organic LC/CMULLER

Prep WorkFlow: OrgExtS(14)
Prep Method: EPA 3550B

Status: Prepped
Prep Date/Time: 7/24/17 09:57 AM

Preparation Steps

Step:	Weigh	Step:	Extraction	Step:	Final Volume
Started:	7/20/17 09:57	Started:	7/24/17 14:14	Started:	7/24/17 14:14
Finished:	7/24/17 14:09	Finished:	7/24/17 14:14	Finished:	7/24/17 14:14
By:	CMULLER	By:	CMULLER	By:	CMULLER
Comments		Comments		Comments	

Page 533 of 545

Comments:

Reviewed By: Justine Jennant Date: 7/25/17

Chain of Custody

Relinquished By: CMuller Date: 7-24-17

Received By: Justine Jennant Date: 7/24/17

Extracts Examined
Yes No

Preparation Information Benchsheet

ep Run#: 293302 **Prep WorkFlow:** OrgExtS(14) **Status:** Draft CM
eam: Organic LC/CMULLER **Prep Method:** EPA 3550B **Prep Date/Time:** ~~7/20/17 09:~~57 AM 7-24-17
Number of Copies to make: 2

	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext. g	pH	Int. Vol	Final Vol mL	Surr Amt uL	Spike Amt uL
	K1707559-001	OIT Baghouse Stake 1	.01	N/A	PFC/537M / PFOA	Soil	1.011	N/A	NA	8	20/20	0
	K1707559-002	OIT Baghouse Stake 2	.01		PFC/537M / PFOA	Soil	1.085					
	K1707559-003	OIT Baghouse Stake 3	.01		PFC/537M / PFOA	Soil	1.008					
	K1707559-004	Duplicate	.01		PFC/537M / PFOA	Soil	1.058					
	K1707681-001	PEC-1	.01		PFC/537M / PFOA	Soil	1.004					
	K1707681-002	PEC-1 DUP	.01		PFC/537M / PFOA	Soil	1.118					
	KQ1709896-04	MB			PFC/537M / PFOA	Solid	1					
	KQ1709896-03	LCS			PFC/537M / PFOA	Solid	1					20/20
	KQ1709896-01	K1707559-001 MS	.01		PFC/537M / PFOA	Solid	1.090					
0	KQ1709896-02	K1707559-001 DMS	.01		PFC/537M / PFOA	Solid	1.082					

Page 534 of 545

Comments:

17-OLC-01-52A 2ppm 1-17-21 17-OLC-01-18I 2ppm 1-4-22

Surrogate ID: 17-OLC-01-66D 2ppm 1-11-18 Spike ID: 17-OLC-01-70E 2ppm 1-19-17

Witnessed By: [illegible] 7-24-17

Analyst: CMuller Assisted By:

Pre-Prep Information Benchsheet

Prep Run #: 293302 **Prep Method:** **Team:** **Container Lot No:** 16204-D **Prep Due Date:** Jul-26-2017

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K1707559-001	.01	PFOA	1.011g		PrepComments:APOSEY K- BALANCE -49
2	K1707559-001 MS KQ1709896-01	.01	PFOA	1.090g		
3	K1707559-001 DMS KQ1709896-02	.01	PFOA	1.082g		
4	K1707559-002	.01	PFOA	1.085g		PrepComments:APOSEY K- BALANCE -49
5	K1707559-003	.01	PFOA	1.008g		PrepComments:APOSEY K- BALANCE -49
6	K1707559-004	.01	PFOA	1.058g		PrepComments:APOSEY K- BALANCE -49

RUSH

Relinquished By:	Date/Time:	Received By:	Date/Time:
	7/20/17 10:00		7/20/17 10:46

Additional prep information for Perfluorinated Compounds
by HPLC/MS/MS – SOP: LCP-PFC (rev. 7)

Soil/Paperboard

Service Request K1707559, 7681 **Workgroup** KQ1709896

1% Acetic Acid/MeOH Lot # 17-OLC-01-71F

Sonication Start (Time/Date/Initial): 0850 7-24-17 cly

Sonication Stop (Time/Date/Initial): 1150 7-24-17 cly

NH4OH lot #: BCBR9284V

IS (or IS/MeOH solution) Lot #: 17-OLC-01-58B

0.45µm Nylon Filter Lot#: 21871979

Extract Storage: _____

Completed(Time/Date/Initial): 1406 7-24-17 cly

Comments/Observations:

_____

_____

_____

_____

Bench Sheet Review Check List
❑ Hold Times Met (if no, Reason: _____)
❑ Prep date, dept, method, product code correct in stealth
❑ Spike Information correct
❑ Weights/Volumes and units correct on raw and final bench sheets
❑ Sample IDs have been checked—Bottle numbers appended if required
❑ Names present for: Started by, Completed by, relinquished by, and witnessed by.
❑ Training has been circled
❑ Extract Storage recorded
❑ Additional Prep Sheet completely filled out (NA or line out Blanks)
❑ All clean-ups have been noted on additional prep sheet
❑ Signed service request with Form V, if applicable, has been attached

Preparation Information Benchsheet

Prep Run#: 293672
Team: Organic LC/CMULLER
Number of Copies to make: 1

Prep WorkFlow: OrgExtAq(14)
Prep Method: EPA 3535A

Status: Prepped
Prep Date/Time: 7/25/17 07:41 AM

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K1707681-006	EB-1-SOIL-72017	.01	PFC/537M/PFOA		Water	148.0000mL	4.00mL	
2	K1707681-007	MW-10	.01	PFC/537M/PFOA		Water	148.0000mL	4.00mL	
3	K1707681-009	EB-2-WATER-72017	.01	PFC/537M/PFOA		Water	148.0000mL	4.00mL	
4	KQ1710166-03	MB		PFC/537M/PFOA		Liquid	125.0000mL	4.00mL	
5	KQ1710166-01	LCS		PFC/537M/PFOA		Liquid	125.0000mL	4.00mL	
6	KQ1710166-02	DLCS		PFC/537M/PFOA		Liquid	125.0000mL	4.00mL	

Spiking Solutions

Name: PFC Targets 2ppm Inventory ID 180127 Logbook Ref: 17-OLC-01-18I Expires On: 01/04/2022

KQ1710166-01 10.00µL KQ1710166-02 10.00µL

Name: PFC IS Inventory ID 182250 Logbook Ref: 17-OLC-01-58B Expires On: 12/27/2017

K1707681-006 10.00µL K1707681-007 10.00µL K1707681-009 10.00µL KQ1710166-01 10.00µL KQ1710166-02 10.00µL KQ1710166-03 10.00µL

Name: PFC isotopes 1ppm mix Inventory ID 182677 Logbook Ref: 17-OLC-01-68E Expires On: 01/11/2018

K1707681-006 20.00µL K1707681-007 20.00µL K1707681-009 20.00µL KQ1710166-01 20.00µL KQ1710166-02 20.00µL KQ1710166-03 20.00µL

Name: PFC Targets 2ppm Inventory ID 182774 Logbook Ref: 17-OLC-01-70E_A Expires On: 01/19/2018

KQ1710166-01 10.00µL KQ1710166-02 10.00µL

Preparation Steps

Step:	Extraction	Step:	Final Volume
Started:	7/25/17 07:41	Started:	7/26/17 09:19
Finished:	7/26/17 09:19	Finished:	7/26/17 09:19
By:	CMULLER	By:	CMULLER
Comments		Comments	

Preparation Information Benchsheet

Prep Run#: 293672
Team: Organic LC/CMULLER

Prep WorkFlow: OrgExtAq(14)
Prep Method: EPA 3535A

Status: Prepped
Prep Date/Time: 7/25/17 07:41 AM

Comments:

Reviewed By: Justine Jennant Date: 7/27/17 Spike Witness: RHOLDEN Date:

Chain of Custody

Relinquished By:	CMuller	Date:	7-26-17	Extracts Examined
Received By:	Justine Jennant	Date:	7/26/17	(Yes) No

Preparation Information Benchsheet

rep Run#: 293672
eam: Organic LC/CMULLER
Number of Copies to make: 1

Prep WorkFlow: OrgExtAq(14)
Prep Method: EPA 3535A

Status: Draft
Prep Date/Time: 7/25/17 07:41 AM

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext. mL	pH	Int. Vol	Final Vol mL	Surr Amt uL	Spike Amt uL
1	K1707681-006	EB-1-SOIL-72017	.01	✓	PFC/537M / PFOA	Water	148	8.5	NA	4	20	0
2	K1707681-007	MW-10	.01	✓	PFC/537M / PFOA	Water	148					
3	K1707681-009	EB-2-WATER-72017	.01	✓	PFC/537M / PFOA	Water	148					
4	KQ1710166-03	MB			PFC/537M / PFOA	Liquid	125					
5	KQ1710166-01	LCS			PFC/537M / PFOA	Liquid	125					~~8~~ 44
6	KQ1710166-02	DLCS			PFC/537M / PFOA	Liquid	125					~~8~~ 44

☆ 10/10

Comments:

Surrogate ID: 17-OLC-01-68E 1ppm 1-11-18

Spike ID: 17-OLC-01-70E 2ppm 1-19-17
17-OLC-01-187 2ppm 1-4-22

Witnessed By: [signature] 7-25-17

Analyst: cmuller

Assisted By:

Additional prep information for Perfluorinated Compounds
by HPLC/MS/MS – SOP: LCP-PFC (rev.7 60ml)

Waters

Service Request K1707681 **Workgroup** KQ1710166

6cc 200mg Strata XL-AW Cartridge Lot # 5322-0018

0.1% NH_4OH in MeOH Lot# 17-OLC-01-71E MeOH Lot# 0R917

Reagent Water Lot# 57095 25mM Acetate Buffer Lot# 17-OLC-01-71D

Acetic Acid (LCMS Grade) Lot# BCB5338SL

25% NH_4OH Lot# ——

Extraction (Manifold) Start (Time/Date/Initial): 0955 7-25-17 CM

Extraction (Manifold) Stop (Time/Date/Initial): 1115 7-25-17 CM

N-EVAP Start (Time/Date/Initial): 0730 7-26-17 CM

N-EVAP Stop (Time/Date/Initial): 0825 7-26-17 CM

IS solution (d_3-N-Me-FOSA 500ppb) Lot #: 17-OLC-01-58D

13mm 0.45 µm Nylon Filter Lot#: 60385103

Extract Storage: Prison mike C10—03

Completed(Time/Date/Initial): 0910 7-26-17 CM

Comments/Observations:

Bench Sheet Review Check List
☐ Hold Times Met (if no, Reason:)
☐ Prep date, dept, method, product code correct in stealth
☐ Spike Information correct
☐ Weights/Volumes and units correct on raw and final bench sheets
☐ Sample IDs have been checked—Bottle numbers appended if required
☐ Names present for: Started by, Completed by, relinquished by, and witnessed by.
☐ Training has been circled
☐ Extract Storage recorded
☐ Additional Prep Sheet completely filled out (NA or line out Blanks)
☐ All clean-ups have been noted on additional prep sheet
☐ Signed service request with Form V, if applicable, has been attached

Preparation Information Benchsheet

rep Run#: 293673
eam: Organic LC/CMULLER
Number of Copies to make: 2

Prep WorkFlow: OrgExtAq(14)
Prep Method: EPA 3535A

Status: Prepped
Prep Date/Time: 7/25/17 07:45 AM

	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
	K1707746-001	1584 House	.01	PFC/537M/PFOA		Drinking Water	68.0000mL	2.00mL	
	K1707746-002	1767 House	.01	PFC/537M/PFOA		Drinking Water	68.0000mL	2.00mL	
	K1707746-003	1778 House	.01	PFC/537M/PFOA		Drinking Water	71.0000mL	2.00mL	
	K1707746-004	1850 House	.01	PFC/537M/PFOA		Drinking Water	71.0000mL	2.00mL	
	K1707746-005	1597 House	.01	PFC/537M/PFOA		Drinking Water	71.0000mL	2.00mL	
	K1707746-006	1654 House	.01	PFC/537M/PFOA		Drinking Water	68.0000mL	2.00mL	
	K1707746-007	1600 House	.01	PFC/537M/PFOA		Drinking Water	68.0000mL	2.00mL	
	K1707746-008	1620 House	.01	PFC/537M/PFOA		Drinking Water	68.0000mL	2.00mL	
	K1707746-009	7557 Chandler	.01	PFC/537M/PFOA		Drinking Water	71.0000mL	2.00mL	
0	K1707746-010	7373 Harrington	.01	PFC/537M/PFOA		Drinking Water	71.0000mL	2.00mL	
1	K1707746-011	Field Blank FB-1	.01	PFC/537M/PFOA		Drinking Water	71.0000mL	2.00mL	
2	K1707746-012	Field Blank FB-2	.01	PFC/537M/PFOA		Drinking Water	68.0000mL	2.00mL	
3	K1707746-013	1580 House	.01	PFC/537M/PFOA		Drinking Water	68.0000mL	2.00mL	
4	K1707746-014	1698 House	.01	PFC/537M/PFOA		Drinking Water	68.0000mL	2.00mL	
5	K1707746-015	1682 House	.01	PFC/537M/PFOA		Drinking Water	71.0000mL	2.00mL	
6	K1707746-016	1786 House	.01	PFC/537M/PFOA		Drinking Water	68.0000mL	2.00mL	
7	K1707746-017	7853 Imperial Pine	.01	PFC/537M/PFOA		Drinking Water	68.0000mL	2.00mL	
8	K1707746-018	Field Blank FB-3	.01	PFC/537M/PFOA		Drinking Water	68.0000mL	2.00mL	
9	K1707681-008	MW-10, DUP	.01	PFC/537M/PFOA		Water	71.0000mL	2.00mL	
0	KQ1710167-03	MB		PFC/537M/PFOA		Liquid	60mL	2.00mL	
1	KQ1710167-01	LCS		PFC/537M/PFOA		Liquid	60mL	2.00mL	
2	KQ1710167-02	DLCS		PFC/537M/PFOA		Liquid	60mL	2.00mL	

Preparation Information Benchsheet

Prep Run#: 293673 **Prep WorkFlow:** OrgExtAq(14) **Status:** Prepped
Team: Organic LC/CMULLER **Prep Method:** EPA 3535A **Prep Date/Time:** 7/25/17 07:45 AM

Spiking Solutions

Name:	PFC Targets 2ppm	Inventory ID	180127	Logbook Ref:	17-OLC-01-18I	Expires On:	01/04/2022

KQ1710167-01	5.00µL	KQ1710167-02	5.00µL

Name:	PFC IS	Inventory ID	182250	Logbook Ref:	17-OLC-01-58B	Expires On:	12/27/2017

K1707681-008	10.00µL	K1707746-001	10.00µL	K1707746-002	10.00µL	K1707746-003	10.00µL	K1707746-004	10.00µL	K1707746-005	10.00µL
K1707746-006	10.00µL	K1707746-007	10.00µL	K1707746-008	10.00µL	K1707746-009	10.00µL	K1707746-010	10.00µL	K1707746-011	10.00µL
K1707746-012	10.00µL	K1707746-013	10.00µL	K1707746-014	10.00µL	K1707746-015	10.00µL	K1707746-016	10.00µL	K1707746-017	10.00µL
K1707746-018	10.00µL	KQ1710167-01	10.00µL	KQ1710167-02	10.00µL	KQ1710167-03	10.00µL				

Name:	PFC isotopes 1ppm mix	Inventory ID	182677	Logbook Ref:	17-OLC-01-68E	Expires On:	01/11/2018

K1707681-008	10.00µL	K1707746-001	10.00µL	K1707746-002	10.00µL	K1707746-003	10.00µL	K1707746-004	10.00µL	K1707746-005	10.00µL
K1707746-006	10.00µL	K1707746-007	10.00µL	K1707746-008	10.00µL	K1707746-009	10.00µL	K1707746-010	10.00µL	K1707746-011	10.00µL
K1707746-012	10.00µL	K1707746-013	10.00µL	K1707746-014	10.00µL	K1707746-015	10.00µL	K1707746-016	10.00µL	K1707746-017	10.00µL
K1707746-018	10.00µL	KQ1710167-01	10.00µL	KQ1710167-02	10.00µL	KQ1710167-03	10.00µL				

Name:	PFC Targets 2ppm	Inventory ID	182774	Logbook Ref:	17-OLC-01-70E_A	Expires On:	01/19/2018

KQ1710167-01	5.00µL	KQ1710167-02	5.00µL

Preparation Steps

Step:	Extraction	Step:	Final Volume
Started:	7/25/17 07:45	Started:	7/26/17 11:41
Finished:	7/26/17 11:41	Finished:	7/26/17 11:41
By:	CMULLER	By:	CMULLER
Comments		Comments	

Comments: _____

Reviewed By: [signature] Date: 7-27-17 Spike Witness: RHOLDEN Date: _____

Preparation Information Benchsheet

Prep Run#: 293673
Team: Organic LC/CMULLER

Prep WorkFlow: OrgExtAq(14)
Prep Method: EPA 3535A

Status: Prepped
Prep Date/Time: 7/25/17 07:45 AM

Chain of Custody

Relinquished By:	CMuller	Date:	7-26-17	Extracts Examined
Received By:	Justine Sennett	Date:	7/26/17	Yes No

Preparation Information Benchsheet

:p Run#: 293673
ım: Organic LC/CMULLER
Number of Copies to make: 2

Prep WorkFlow: OrgExtAq(14)
Prep Method: EPA 3535A

Status: Draft
Prep Date/Time: 7/25/17 07:45 AM

Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext.	pH	Int. Vol	Final Vol mL	Surr Amt ul	Spike Amt
K1707746-001	1584 House	.01	✓	PFC/537M / PFOA	Drinking Water	68	3.5	NA	2	10	0
K1707746-002	1767 House	.01	✓	PFC/537M / PFOA	Drinking Water	68	3.5				
K1707746-003	1778 House	.01	✓	PFC/537M / PFOA	Drinking Water	71	3.5				
K1707746-004	1850 House	.01	✓	PFC/537M / PFOA	Drinking Water	71	3.5				
K1707746-005	1597 House	.01	✓	PFC/537M / PFOA	Drinking Water	71	3.5				
K1707746-006	1654 House	.01	✓	PFC/537M / PFOA	Drinking Water	68	3.5				
K1707746-007	1600 House	.01	✓	PFC/537M / PFOA	Drinking Water	68	3.5				
K1707746-008	1620 House	.01	✓	PFC/537M / PFOA	Drinking Water	68	3.5				
K1707746-009	7557 Chandler	.01	✓	PFC/537M / PFOA	Drinking Water	71	3.5				
K1707746-010	7373 Harrington	.01	✓	PFC/537M / PFOA	Drinking Water	71	3.5				
K1707746-011	Field Blank FB-1	.01	✓	PFC/537M / PFOA	Drinking Water	71	3.5				
K1707746-012	Field Blank FB-2	.01	✓	PFC/537M / PFOA	Drinking Water	68	3.5				
K1707746-013	1580 House	.01	✓	PFC/537M / PFOA	Drinking Water	68	3.5				
K1707746-014	1698 House	.01	✓	PFC/537M / PFOA	Drinking Water	68	3.5				
K1707746-015	1682 House	.01	✓	PFC/537M / PFOA	Drinking Water	71	3.5				
K1707746-016	1786 House	.01	✓	PFC/537M / PFOA	Drinking Water	68	3.5				
K1707746-017	7853 Imperial Pine	.01	✓	PFC/537M / PFOA	Drinking Water	68	3.5				
K1707746-018	Field Blank FB-3	.01	✓	PFC/537M / PFOA	Drinking Water	68	3.5				
K1707681-008	MW-10, DUP	.01	✓	PFC/537M / PFOA	Water	71	3.5				
KQ1710167-03	MB			PFC/537M / PFOA	Liquid	60	3.5				
KQ1710167-01	LCS			PFC/537M / PFOA	Liquid	60	3.5				5/5
KQ1710167-02	DLCS			PFC/537M / PFOA	Liquid	60	3.5				5/5

Comments:

Surrogate ID: 17-OLC-01-68E 1ppm 1-11-18

Spike ID: 17-OLC-01-70E 2ppm 1-19-17
17-OLC-01-181 2ppm 1-4-22

Witnessed By: R Holden 7-25-17

Analyst: CMuller

Assisted By: R Holden

Additional prep information for Perfluorinated Compounds
by HPLC/MS/MS – SOP: LCP-PFC (rev.7 60ml)

Waters

Service Request K1707746, K1707681 **Workgroup** 293673

6cc 200mg Strata XL-AW Cartridge Lot # 5322-0018

0.1% NH_4OH in MeOH Lot# 17-OLC-01-71I MeOH Lot# OR917

Reagent Water Lot# 57095 25mM Acetate Buffer Lot# 17-OLC-01-71D

Acetic Acid (LCMS Grade) Lot# BCB5338BV

25% NH_4OH Lot# ——

Extraction (Manifold) Start (Time/Date/Initial): 1445 ~~7-24-17~~ 7-25-17 CM

Extraction (Manifold) Stop (Time/Date/Initial): 1630 7-25-17 CM

N-EVAP Start (Time/Date/Initial): 0630 7-26-17 CM

N-EVAP Stop (Time/Date/Initial): 0940 7-26-17 CM

IS solution (d_3-N-Me-FOSA 500ppb) Lot #: 17-OLC-01-M 588

13mm 0.45 µm Nylon Filter Lot#: 6038 5103

Extract Storage: ____

Completed(Time/Date/Initial): 1120 7-26-17 CM

Comments/Observations: ____

Bench Sheet Review Check List
☐ Hold Times Met (if no, Reason: ____)
☐ Prep date, dept, method, product code correct in stealth
☐ Spike Information correct
☐ Weights/Volumes and units correct on raw and final bench sheets
☐ Sample IDs have been checked—Bottle numbers appended if required
☐ Names present for: Started by, Completed by, relinquished by, and witnessed by.
☐ Training has been circled
☐ Extract Storage recorded
☐ Additional Prep Sheet completely filled out (NA or line out Blanks)
☐ All clean-ups have been noted on additional prep sheet
☐ Signed service request with Form V, if applicable, has been attached

APPENDIX 11

MISCELLANEOUS ASSESSMENT

[This appendix is not applicable.]

APPENDIX 12

WASTE CHARACTERIZATION AND DISPOSITION DOCUMENTATION

Appendix 12 Waste Characterization and Disposition Documentation

IDW generated by AECOM during soil sampling efforts conducted in June, August, and September 2015 and in January 2017 were placed in properly labelled 55-gallon drums which are temporarily stored at the Site, along with other drums, assumed to contain waste from previous investigations conducted at the Site. One drum of IDW from this assessment contains excess soil from DPT and hand auger sampling, and the second drum contains decontamination liquid.

Based on the analytical results for the soil samples collected by AECOM in 2015 and 2017, the IDW in the drums used for this assessment is not hazardous. The intent is to hold these drums at the Site until the remedies in the approved Interim and Final RAP are implemented. Then the IDW will be disposed with the remediation wastes generated by the response action.

APPENDIX 13

PHOTOGRAPHIC DOCUMENTATION

APPENDIX 13 PHOTOGRAPHIC DOCUMENTATION

1. View looking east toward the Post Office, with view of parking lot and landscaped area with mowed grass and palm trees.

2. View looking north toward Galveston County Courthouse.

3. View looking southwest toward parking lot near commercial buildings.

4. View looking east toward fire hydrant near Galveston County Courthouse.

5. View from above of water meter/water pipe.

6. View looking northeast toward storm water drain near Galveston County Courthouse.

7. View of 59th Street Pump Station construction project.

8. View looking northwest toward drainage ditch near private properties.

9. View looking east toward monitoring well head near incinerator.

10. View from above of water meter near private properties.

APPENDIX 13 PHOTOGRAPHIC DOCUMENTATION (Continued)

11. View looking southeast toward drainage ditch near 61st Street.

12. View looking northeast toward muddy pit in heavily trafficked dirt lot.

13. View of railroad easement south of water tanks.

14. View looking north toward Flamingo Gardens plant nursery.

APPENDIX 14

STANDARD OPERATING PROCEDURES

[This appendix is not applicable.]

APPENDIX 15

OSHA HEALTH AND SAFETY PLAN (§350.74(b)(1))

[This appendix is not applicable.]

APPENDIX 16

REFERENCE LIST

Appendix 16 Reference List

Banks Environmental Data [Banks], October 2015. Water Well Report, City of Galveston Former Incinerator Site, Galveston, TX, Galveston County, ES-11765, Monday.

City of Galveston (CoG) Fire Department, September 3, 2015 and July 10, 2017. Personal communication with Mike Wisko, Fire Chief.

EFI Global, April 2015. Delineation Sampling Plan, Former Galveston Incinerator Site, Galveston, TX.

EFI Global, March 2014. Analytical Report 481007 (Galveston Incinerator) for EFI Global, Inc. Xenco Laboratories, April 8, 2014.

EFI Global, September 2014. Analytical Report 481007 (Galveston Incinerator) for EFI Global, Inc. Xenco Laboratories, October 10, 2014.

Federal Emergency Management Agency (FEMA), https://msc.fema.gov/portal/search?AddressQuery=lennox%20avenue%20galveston#searchresultsanchor, accessed July 2017.

Houston-Galveston Area Council (HGAC), 2017. http://www.h-gac.com/rds/gis-data/gis-datasets.aspx?_sm_au_=iVVVS7cKr6WrRN0F, accessed 2017.

http://www.i2massociates.com/downloads/chowdhury-turcoch02-ch02-gulfcoastgulfcoastgeology.pdf, accessed July 2017.

Meridian Alliance Group, LLC [Meridian], March 2006. City of Galveston Brownfields Site Assessment Pilot Project, Affected Property Assessment for the Old Municipal Incinerator Site, #3 Lennox avenue, Galveston, Texas.

Meridian, April 2003. City of Galveston Brownfields Site Assessment Pilot Project, Phase I Environmental Site Assessment Report for the City of Galveston's 61st Street Properties, Galveston, Texas.

National Oceanic and Atmospheric Administration (NOAA). http://w2.weather.gov/climate/index.php?wfo=HGX, accessed August 2017

Petit and Windslow, 1957. Geology and Ground-water Resources of Galveston County, Texas, Geological Survey Water Supply Paper 1416. Prepared by the United States Geological Survey, Texas Board of Water Engineers, and the City of Galveston, Texas.

Texas Commission on Environmental Quality (TCEQ), March 2017. Tier 1 PCL and Supporting Tables. Website: https://www.tceq.texas.gov/remediation/trrp/trrppcls.html, accessed July 2017.

TCEQ, May 2010. *Affected Property Assessment Requirements*, Regulatory Guidance (RG)-366/Texas Risk Reduction Program (TRRP)-12, and *Review and Reporting of COC Concentration Data under TRRP*, RG/TRRP-13 (pages 3-3 and 4-1).

TCEQ, March 2010. *Groundwater Classification*, RG-366/TRRP-8.

TCEQ, March 2009. *Notification Requirements*, RG-366/TRRP-17.

TCEQ, March 2007. Texas-Specific Soil Median Background Concentrations, 30 TAC 350.51(m).

TCEQ, September 2006. Acceptance into the Voluntary Cleanup Program (VCP) (VCP Identification [ID] Number [No.] 1962).

Texas Groundwater Protection Committee, July 2017. Joint Groundwater Monitoring and Contamination Report – 2016. TCEQ SFR-056/16.

Texas Water Development Board (TWDB), October 2015. Geologic Atlas of Texas, Houston Sheet, 1:250,000. Website: https://www.twdb.texas.gov/groundwater/aquifer/GAT/, accessed July 2017.

The Water Company (Galveston County water Control and Improvement District No. 1), September 2015. https://www.wcid1.com/CCR%202015.pdf, accessed August 2017.

U.S. Fish and Wildlife Service (USFWS), November 2015. National Wetland Inventory (NWI) Online Viewer. November 16.