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Robert Weimer
Alaska Department of Conservation (ADEC)
555 Cordova Street
Anchorage, Alaska 95501

Subject:
2019 Second Semi Annual Groundwater Monitoring Report

ENVIRONMENT

Dear Mr. Weimer,

On behalf of Chevron Environmental Management Company (Chevron), Arcadis US, Inc. (Arcadis) has prepared the attached *2019 Groundwater Monitoring Report* for the second semi-annual groundwater sampling event for the following facility:

Date:
December 31, 2019

<u>Chevron Facility No.</u>	<u>ADEC File No.</u>	<u>Hazard ID:</u>	<u>Location</u>
97324	2100.26.008	23885	4417 Lake Otis Parkway Anchorage, Alaska

Contact:
Nicole Monroe

Phone:
503.785.9414

If you have any questions, please do not hesitate to contact me.

Email:
Nicole.Monroe @arcadis.com

Sincerely,

Our ref:
30015222

Arcadis U.S., Inc.



Nicole Monroe, P.E
Project Manager
EV-149409

Copies:
Tim Bishop (*electronic copy*)
Nicole Jones-Vogel (*electronic copy*)

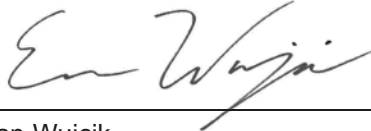
Chevron Environmental Management Company

2019 SECOND SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Former Chevron Service Station 97324
4417 Lake Otis Parkway
Anchorage, Alaska
ADEC File No. 2100.26.008

December 31, 2019

2019 SECOND SEMI-ANNUAL GROUNDWATER MONITORING REPORT



Evan Wujcik
Environmental Engineer



Max Elias
Environmental Scientist



Nicole Monroe, P.E.
Project Manager
EV-149409

Former Chevron-Branded Service Station 97324

4417 Lake Otis Parkway
Anchorage, Alaska

ADEC File No: 2100.26.008
HAZARD ID No: 23885

Prepared for:

Chevron Environmental Management
Company

Prepared by:

Arcadis U.S., Inc.
111 SW Columbia Street
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Our Ref.:

30015222

Date:

December 31, 2019

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**SECOND SEMI-ANNUAL STATUS REPORT
SECOND HALF 2019
December 31, 2019**

Facility No:	<u>Former Chevron-Branded Station No. 97324</u>	Address:	<u>4417 Lake Otis Parkway Anchorage, Alaska</u>
Arcadis Contact Person / Phone No.:	<u>Nicole Monroe / (503) 7859414</u>		
Arcadis Project No.:	<u>30015222</u>		
Primary Agency/Regulatory ID No.:	<u>Alaska Department of Conservation (ADEC) / Robert Weimer/ADEC File ID: 2100.26.008</u>		

WORK CONDUCTED THIS PERIOD [Second Half 2019]:

1. Conducted semi-annual groundwater monitoring activities on September 11, 2019.
2. Prepared the *Semi-Annual Status Report, Second Half 2019*.

WORK PROPOSED NEXT PERIOD [FIRST Half 2020]:

1. Conduct semi-annual groundwater monitoring activities in the First half of 2020.
2. Prepare the *Semi-Annual Status Report, First Half 2020*.

Current Phase of Project:	<u>Monitoring</u>	
Frequency of Monitoring / Sampling:	<u>Semi-annual</u>	
Are Light Non-Aqueous Phase Liquid (LNAPL) Present On-site:	<u>No</u>	
Cumulative LNAPL Recovered to Date:	<u>0.00</u>	(gallons)
Approximate Depth to Groundwater:	<u>15.87 to 24.93</u>	(feet below top of casing)
Approximate Groundwater Elevation:	<u>143.32 to 143.40</u>	(feet relative to corresponding datum)
Groundwater Flow Direction	<u>East-northeast</u>	

Groundwater Gradient	0.001	(feet per foot)
Current Remediation Techniques:	None	
Permits for Discharge:	None	
Summary of Unusual Activity:	None	
Agency Directive Requirements:	None	

1 INTRODUCTION

On behalf of Chevron Environmental Management Company (CEMC), Arcadis US, Inc. (Arcadis), has prepared this report to document the second semi-annual groundwater sampling event of 2019 for Chevron facility 97324, located at 4417 Lake Otis Parkway, Anchorage, Alaska (the site). The site location map and site plan are presented on Figure 1 and Figure 2, respectively.

This work was conducted under the direction of a “qualified person” [18 AAC 75. 990 (100), and 18 AAC 78.995 (118)]. Site background and history summaries are attached as Appendix A.

2 GROUNDWATER MONITORING

2.1 Groundwater Gauging Methods

The 2019 second semi-annual groundwater gauging event was conducted on September 11, 2019. Site monitoring wells were gauged with an oil/water interface probe to determine depth-to-water and to ascertain if LNAPL was present.

In order to prevent the possibility of cross-contamination, wells were gauged in the order of lowest to highest historical petroleum hydrocarbon concentrations in groundwater. In addition, non-disposable groundwater gauging equipment was decontaminated prior to and after each use with a detergent solution and rinsed in potable water.

2.2 Groundwater Elevation and Flow Direction

During the 2019 second semi-annual event, monitoring wells MW-1R, MW-2R, MW-8RR, and MW-9 were scheduled to be gauged for groundwater elevations and the presence of LNAPL. The groundwater monitoring event field notes are presented in Appendix B.

The inferred groundwater flow direction for the second semi-annual 2019 monitoring events is towards the east-northeast. Current groundwater depth-to-water and elevation data are included in Table 1. Historical depth-to-water and elevation data are included in Table 3. A groundwater contour map is presented as Figure 3.

2.3 Groundwater Sampling Methods

The second semi-annual groundwater monitoring event was conducted on September 11, 2019. Groundwater samples were collected from monitoring wells MW-1R, MW-2R, MW-8RR, and MW-9 using a low flow purge sampling method.

Sampling procedures were conducted in accordance with ADEC *Field Sampling Guidance* (ADEC, 2017). Monitoring well caps were removed to allow groundwater levels to stabilize and equilibrate before using an electronic interface probe (EIP) meter capable of 0.01-foot accuracy to measure the depth to groundwater and total well depth. A bladder pump with compressor & control unit with clean/disposable Teflon lined tubing and bladders was used to purge groundwater from the wells and collect samples to minimize the risk of volatile contaminant absorption by the sampling equipment. Water table drawdown was continuously monitored during purging with a water level meter and the flow rate of the pump was adjusted to limit drawdown to 0.1 meter. The intake of the pump was set as close as possible to the soil groundwater interface. Water quality parameters were monitored during purging with a multi-parameter water quality meter equipped with a flow through cell and Turbidity meter. Parameters were recorded every 3 to 5 minutes until a minimum of three (minimum of four if using temperature as an indicator) of the parameters listed below stabilized. The flow rate was reduced to 100-150 ml/minute and samples were collected from the discharge line into laboratory sample bottles. Water quality parameters were considered stable when three successive readings were within the following ADEC limits:

- $\pm 3\%$ for temperature (minimum of $\pm 0.2\text{ C}^\circ$),
- ± 0.1 for pH,
- $\pm 3\%$ for conductivity,
- $\pm 10\text{ mv}$ for redox potential,
- $\pm 10\%$ for dissolved oxygen, and
- $\pm 10\%$ for turbidity.

Sample bottles were labeled, stored in a cooler packed with ice, and submitted to Test America Seattle (Eurofins), under proper chain-of-custody procedures.

Groundwater samples collected from monitoring wells MW-1R, MW-2R, MW-8RR, and MW-9 were submitted to the analytical laboratory for the following analyses:

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX), Methyl tert- butyl ether (MTBE), 1,2-Dichloroethane (EDC), Trichloroethylene (TCE), Tetrachloroethylene (PCE), Cis 1,2-Dichloroethane (Cis-1,2-DCE), Methylene Chloride by United States Environmental Protection Agency (USEPA) method SW-846 8260C
- Total Petroleum Hydrocarbons as Gasoline Range Organics (TPH-g) by Alaska method AK101
- Total Petroleum Hydrocarbons as Gasoline Range Organics (TPH-d) by Alaska method AK102 and AK103 by

Additionally, groundwater samples were collected from MW-2R and analyzed for polycyclic aromatic hydrocarbons (PAHs) by USEPA Method 8270D SIM.

A groundwater duplicate sample was collected from monitoring wells MW-8RR. The duplicate samples were analyzed for BTEX, MTBE, EDC, TCE, PCE, cis-1,2-DCE, Methylene Chloride, TPH-g, and TPH-d. The duplicate samples were submitted blind with the sample set to Eurofins.

2.4 Groundwater Analytical Results

Routine analytical results for the above-mentioned constituents obtained from the second semi-annual 2019 groundwater monitoring event are summarized in Table 1 and are shown on Figure 4. Additional VOCs analytical results are summarized in Table 2. Current and historical analytical data for PAHs is summarized in Table 3. Historical groundwater analytical data is summarized in Table 4 and Table 5.

3 LABORATORY DATA QUALITY ASSURANCE SUMMARY

As required by ADEC (Technical Memorandum 06-002, dated March, 2009), Arcadis completed a laboratory data review checklist for each of the laboratory reports generated for the 2019 semi-annual events. The laboratory reports are included as Appendix C and data review checklists are included as Appendix D. The following quality assurance (QA) summary describes six parameters, related to the quality and usability of the data presented in this report.

3.1 Precision

The relative percent difference (RPD) for matrix spike/matrix spike duplicate (MS/MSD), and field duplicates (FD) were within the control limits. The RPD between laboratory control sample (LCS) / laboratory control sample duplicate (LCSD) for few compounds 1,2,4-trichlorobenzene, 1,1,2,2-tetrachloroethane, 4-chlorotoluene, n-propylbenzene, bromobenzene and naphthalene were exceeded the control limit. The associated results were qualified as estimated.

The precision of the data, as measured by laboratory quality control (QC) indicators, suggest that the Data Quality Objectives (DQOs) were met except for the estimated data.

3.2 Accuracy

The MS/MSD and surrogate recoveries were within the control limits.

The low LCSD recovery was observed for compound 1,3-dichlorobenzene and associated results were qualified as estimated.

The accuracy of the data, as measured by laboratory quality control (QC) indicators, suggest that the DQOs were met except for the estimated data.

3.3 Representativeness

The data appear to be representative of site conditions and are generally consistent with historical groundwater monitoring results and expected impacts to groundwater.

3.4 Comparability

The laboratory results are presented in the same units as previous reports to allow comparison.

3.5 Completeness

The results appear to be valid and usable, and thus, the laboratory results have 100% completeness.

3.6 Sensitivity

The sensitivity of the analyses was adequate for the samples as the detection limits were less than the ADEC GCLs for compounds.

4 CONCLUSIONS AND RECOMMENDATIONS

The groundwater data collected during the second semi-annual 2019 event indicate groundwater flow direction is to the east-northeast. During the second semi-annual 2019 groundwater monitoring events, groundwater samples were collected for analysis from monitoring wells MW-1R, MW-2R, MW-8RR, and MW-9. Analytical results from the monitoring wells are generally consistent with historical data.

Groundwater monitoring will continue in accordance with the current semi-annual schedule. First semi-annual sampling event of 2020 will be conducted in the spring of 2020.

5 REFERENCES

ADEC. *Field Sampling Guidance*. Division of Spill Prevention and Response Contaminated Sites Program. August, 2017.

ADEC Technical Memorandum, March, 2017. *Data Quality Objectives, Checklists, Quality Assurance Requirements for Laboratory Data, and Sample Handling*. ADEC, Division of Spill Prevention and Response Contaminated Sites Program.

TABLES



Table 1. Current Groundwater Gauging and Analytical Results 2SA19

Former Chevron-Branded Service Station 97324
 4417 Lake Otis Parkway
 Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	Datum	DTW (ft bTOC)	LNAPL Thickness (ft)	GW Elev (ft)	TPH-g (mg/L)	TPH-d (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
		ADEC Groundwater Cleanup Levels					1.5	2.2	0.0046	1.1	0.015	0.19	0.14
MW-1R	9/11/2019	167.56	NAVD88	24.21	0.00	143.35	< 0.10	0.16	0.0022	< 0.00039	< 0.00050	< 0.00114	< 0.00044
MW-2R	9/11/2019	168.25	NAVD88	24.93	0.00	143.32	0.25	0.67	0.005	< 0.00039	0.016	0.0020 J	< 0.00044
MW-8RR	9/11/2019	166.43	NAVD88	23.03	0.00	143.40	< 0.10 [< 0.10]	0.16 [0.16]	< 0.00050B [< 0.00050B]	< 0.00039 [< 0.00039]	< 0.00050 [< 0.00050]	< 0.00114 [< 0.00114]	< 0.00044 [< 0.00044]
MW-9	9/11/2019	159.24	NAVD88	15.87	0.00	143.37	< 0.10	< 0.076	< 0.00050B	< 0.00039	< 0.00050	< 0.00114	< 0.00044
QA (TB)	9/11/2019	--	NAVD88	--	--	--	< 0.10	--	< 0.0000090	< 0.00039	< 0.00050	< 0.00114	< 0.00044

Notes:

- ID = Identification
- MW = Groundwater monitoring well
- TOC = Top of casing
- DTW = Depth to groundwater
- ft bTOC = Feet below top of casing
- ft = Feet
- mg/L = Milligrams per liter
- GW Elev = Groundwater elevation
- Bold** = Value exceeds MDL
- Bold and Shaded** = Value exceeds ADEC Groundwater Cleanup Level
- <0.00039 = Not detected at or above the method detection limit (MDL)
- NAVD 88 = North American Vertical Datum of 1988
- LNAPL = Light Non-Aqueous Phase Liquid
- [] = Blind Duplicate Sample Result
- QA (TB) = Quality Assurance (Trip Blank)
- = Not Measured/Not analysed
- ADEC = Alaska Department of Environmental Conservation
- TPH-g = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to United States Environmental Protection Agency (USEPA) Method AK 101
- TPH-d = Total petroleum hydrocarbons, diesel range by LUFT GC/MS according to USEPA Method AK 102-SV 4/8/02
- Samples analyzed by USEPA SW-846 8260C
 - Benzene, toluene, ethylbenzene and total xylenes (collectively BTEX)
 - MTBE = Methyl tert-butyl ether
- J = The compound was positively identified; however, the associated numerical value is an estimated concentration only
- B= Compound considered non-detect at the listed value due to associated blank contamination.

Table 2. Current Groundwater Analytical Results - Additional VOCs

Former Chevron-Branded Service Station 97324
 4417 Lake Otis Parkway
 Anchorage, Alaska

Well ID	Sample Date	EDC (mg/L)	TCE (mg/L)	PCE (mg/L)	cis-1,2-DCE (mg/L)	Methylene chloride (mg/L)
ADEC Groundwater Cleanup Levels		0.0017	0.0028	0.041	0.036	0.11
MW-1R	9/11/2019	0.0014	< 0.0000090	< 0.00050B	< 0.00069	< 0.0014
MW-2R	9/11/2019	0.006	0.00011 J	< 0.00050B	< 0.00069	< 0.0014
MW-8RR	9/11/2019	0.00079 [0.00077]	0.000057 J [0.000070 J]	0.0018 [0.0017]	< 0.00069 [<lt; 0.00069]<="" td=""> <td>< 0.0014 [<lt; 0.0014]<="" td=""> </lt;></td></lt;>	< 0.0014 [<lt; 0.0014]<="" td=""> </lt;>
MW-9	9/11/2019	< 0.000024	0.022	0.068	0.058	< 0.0014
QA (TB)	9/11/2019	< 0.000024	< 0.0000090	0.000020 J	< 0.00069	< 0.0014

Notes:

ID = Identification

MW = Groundwater monitoring well

mg/L = Milligrams per liter

Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level

Bold = Value exceeds MDL

<0.0002 = Not detected at or above the method detection limit (MDL)

[] = Blind Duplicate Sample Result

QA (TB) = Quality Assurance (Trip Blank)

ADEC = Alaska Department of Environmental Conservation

Samples analyzed by USEPA SW-846 8260C

EDC = 1,2-Dichloroethane

TCE = Trichloroethylene

PCE = Tetrachloroethylene

cis-1,2-DCE = cis 1,2-Dichloroethane

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only

Table 3. Current and Historical Groundwater Analytical Results - PAHs
 Former Chevron-Branded Service Station 90430
 6470 DeBarr Road, Anchorage, Alaska

Well ID	Sample Date	1-Methylnaphthalene µg/L	2-Methylnaphthalene µg/L	Acenaphthene µg/L	Acenaphthylene µg/L	Anthracene µg/L	Benzo(a)anthracene µg/L	Benzo(b)pyrene µg/L	Benzo(k)fluoranthene µg/L	Benzo(g,h,i)perylene µg/L	Benzo(i)fluoranthene µg/L	Chrysene µg/L	Dibenz(a,h)anthracene µg/L	Fluoranthene µg/L	Fluorene µg/L	Indeno(1,2,3-cd)pyrene µg/L	Naphthalene µg/L	Phenanthrene µg/L	Pyrene µg/L
ADEC Groundwater Cleanup Levels		11	36	530	260	43	0.3	0.25	2.5	0.26	0.8	2	0.25	260	290	0.19	1.7	170	120
MW-2R	9/11/2019	0.17	0.058 J	<0.11	<0.0503	<0.11	<0.053	<0.11	<0.053	<0.053	<0.053	<0.11	<0.11	<0.21	<0.11	<0.053	1.8	<0.11	<0.11

Notes:
 PAHs = Polycyclic Aromatic Hydrocarbons by United States Environmental Protection Agency Method 8270D SIM.
 ADEC = Alaska Department of Environmental Conservation
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
Bold = Value exceeds Laboratory Method Detection Limit (MDL)
 mg/L = milligrams per liter
 J = The compound was positively identified; however, the associated numerical value is an estimated concentration only
 -- = Not measured / not analyzed
 <0.11 = Not detected at or above the laboratory MDL

Table 4. Historical Groundwater Gauging and Analytical Results
First Quarter 1992 to Current
Former Chevron-Blended Service Station 97324
4417 Lake Otis Parkway
Anchorage, Alaska

Table with columns: Well ID, Sample Date, TOC (ft am), DTW (ft DTOC), LNAPL Thickness (ft), GVI Elev (ft am), TPH-4 (mg/L), TPH-g (mg/L), Benzene (mg/L), Toluene (mg/L), Ethylbenzene (mg/L), Total Xylenes (mg/L), MTBE (mg/L), Comments. Rows include various well IDs and sample dates from 1992 to 2004, detailing chemical concentrations and analytical results.

Table 4. Historical Groundwater Gauging and Analytical Results
 First Quarter 1992 to Current
 Former Chevron-Blended Service Station 97324
 4417 Lake Otis Parkway
 Anchorage, Alaska

Well ID	Sample Date	TOC (ft amt)	DTW (ft DTDC)	LNAPL Thickness (ft)	GW Elev (ft amt)	TPH-d (mg/L)	TPH-g (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Comments
ADEC Groundwater Cleanup Levels													
						1.5	2.2	0.0046	1.1	0.015	0.19	0.14	
MW-17	5/12/2005	148.89	11.81	--	--	--	--	--	--	--	--	--	
MW-17	9/19/2005	148.89	11.45	--	--	--	--	--	--	--	--	--	
MW-17	5/8/2006	148.89	13.56	--	--	--	--	--	--	--	--	--	
MW-17	9/24/2006	148.91	12.69	--	--	--	--	--	--	--	--	--	
MW-17	5/14/2007	148.91	13.27	--	--	--	--	--	--	--	--	--	
MW-17	9/21/2007	148.91	11.77	--	--	--	--	--	--	--	--	--	
MW-17	5/12/2008	148.91	11.9	--	--	--	--	--	--	--	--	--	
MW-17	5/14/2009	148.91	--	--	--	--	--	--	--	--	--	--	Unable to Access - behind fenced area
MW-18	9/23/2001	--	13.3	--	--	0.0132	--	<0.001	<0.001	<0.001	<0.002	--	Sample date defaulted to first date listed in historical data table
MW-18	10/22/2001	--	13.46	--	--	--	0.162	<0.0005	<0.0005	0.00139	0.0112	<0.001	
MW-18	5/12/2002	150.5	12.88	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.001	
MW-18	9/20/2002	150.5	13.17	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001 (0.002)
MW-18	5/20/2003	150.5	13.6	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	Sample date defaulted to first date listed in historical data table
MW-18	10/22/2003	150.5	14.23	--	--	--	--	<0.0005	<0.0007	<0.0008	<0.0016	<0.002	
MW-18	6/12/2004	150.5	12.86	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.002	
MW-18	9/21/2004	150.5	14.01	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.002	Sample date defaulted to first date listed in historical data table
MW-18	5/12/2005	150.5	13.06	--	--	--	--	--	--	--	--	--	
MW-18	9/19/2005	150.5	12.74	--	--	--	--	--	--	--	--	--	
MW-18	05/08/2006	150.78	--	--	--	--	--	--	--	--	--	--	
Trip Blank	1/30/1996	--	--	--	--	--	--	ND	ND	ND	ND	--	
Trip Blank	6/21/1996	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	
Trip Blank	8/26/1996	--	--	--	--	--	--	<0.0005	0.00061	<0.0005	<0.001	--	
Trip Blank	10/16/1996	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	
Trip Blank	4/28/1997	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	
Trip Blank	9/19/1997	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	
Trip Blank	4/19/1998	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	
Trip Blank	9/23/1998	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	
Trip Blank	4/28/1999	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	
Trip Blank	10/13/1999	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	
Trip Blank	9/27/2000	--	--	--	--	--	--	<0.0005	0.00072	<0.0005	<0.001	<0.005	
Trip Blank	5/5/2001	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.005	
Trip Blank	10/22/2001	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.001	
Trip Blank	5/12/2002	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.001	
Trip Blank	9/20/2002	--	--	--	--	--	--	<0.0005	0.00018	<0.0005	<0.001	<0.001	
Trip Blank	5/20/2003	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.002	Sample date defaulted to first date listed in historical data table
Trip Blank	10/22/2003	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	
Trip Blank	6/12/2004	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	
Trip Blank	9/21/2004	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	Sample date defaulted to first date listed in historical data table
Trip Blank	5/12/2005	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0015	<0.0025	
Trip Blank	9/19/2005	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0015	<0.0025	
Trip Blank	9/8/2006	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
Trip Blank	9/24/2006	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	
Trip Blank	5/14/2007	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	
Trip Blank	9/21/2007	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	
Trip Blank	5/12/2008	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	
Trip Blank	7/15/2008	--	--	--	--	--	--	<0.005	<0.0005	<0.0005	<0.0005	<0.001	
Trip Blank	4/30/2009	--	--	--	--	--	<0.01	<0.0005	<0.0005	<0.0005	<0.001	--	
Trip Blank	8/19/2009	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.001	--	
Trip Blank	4/20/2010	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.001	--	
Trip Blank	6/10/2010	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.001	--	
Trip Blank	8/27/2010	--	--	--	--	--	<0.010	<0.010	<0.0005	<0.0005	<0.0005	--	
Trip Blank	5/24/2011	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
Trip Blank	7/26/2011	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	
Trip Blank	11/19/2011	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	
Trip Blank	6/20/2012	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	
Trip Blank	11/5/2012	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	
Trip Blank	4/30/2013	--	--	--	--	--	<0.010	<0.00062	<0.00077	<0.00081	<0.00022	--	
Trip Blank	11/05/2013	--	--	--	--	--	<0.10	<0.00024	<0.00023	<0.00024	<0.00022	--	
Trip Blank	4/28/2014	--	--	--	--	--	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	--	Car parked over well
Trip Blank	11/7/2014	--	--	--	--	--	<0.050	<0.00015	0.00012 J	<0.00016	<0.00040	--	
Trip Blank	4/29/2015	--	--	--	--	--	<0.050	<0.0005	<0.0005	<0.0005	<0.0005	--	
Trip Blank	11/6/2015	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	
Trip Blank	4/21/2016	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	
Trip Blank	11/15/2016	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	
Trip Blank	10/17/2017	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	
Trip Blank	4/27/2018	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Trip Blank	10/18/2018	--	--	--	--	--	<0.010	<0.0002	<0.0002	<0.0002	<0.0005	--	
Trip Blank	4/3/2019	--	--	--	--	--	<0.014	<0.0002	<0.0002	<0.0004	<0.0001	<0.0002	
Trip Blank	9/11/2019	--	--	--	--	<0.014	< 0.1	< 0.000090	< 0.00039	< 0.00050	<0.00114	< 0.00044	
Tutor Motel	9/21/2007	--	--	--	--	--	--	--	--	--	--	--	
Tutor Motel	5/12/2008	--	--	--	--	--	--	--	--	--	--	--	
Tutor Motel	7/15/2008	--	--	--	--	--	--	--	--	--	--	--	

Notes:

ID = Identification
 MW = Groundwater monitoring well
 TOC = Top of casing
 DTW = Depth to groundwater
 ft DTDC = Feet below top of casing
 ft = Feet
 mg/L = Milligrams per liter
 GW Elev = Groundwater elevation

Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level

Bold = Value exceeds MDL

<0.0002 = Not detected at or above the method detection limit (MDL)

NAVD 88 = North American Vertical Datum of 1988

LNAPL = Light Non-Aqueous Phase Liquid

[] = Blind Duplicate Sample Result

QA (FB) = Quality Assurance (Trip Blank)

-- = Not Measured/Not analyzed

ADEC = Alaska Department of Environmental Conservation

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only

B = Compound considered non-detect at the listed value due to associated blank contamination.

ND = Constituent considered non-detect at the MDL

TPH-g = Total petroleum hydrocarbons, gasoline range by LUF T GC/MS according to United States Environmental Protection Agency (USEPA) Method AK 101

TPH-d = Total petroleum hydrocarbons, diesel range by LUF T GC/MS according to USEPA Method AK 102-SV 48/02

Samples analyzed by USEPA SW-846 8260C

Benzene, toluene, ethylbenzene and total xylenes (collectively BTEX)

MTBE = Methyl tert-butyl ether

Table 5. Historical Groundwater Analytical Results - Additional VOCs
First Quarter 1992 to Current
 Former Chevron-Branded Service Station 97324
 4417 Lake Otis Parkway
 Anchorage, Alaska

Well ID	Sample Date	EDC (mg/L)	TCE (mg/L)	PCE (mg/L)	cis-1,2-DCE (mg/L)	Methylene chloride (mg/L)	Comments
ADEC Groundwater Cleanup Levels		0.0017	0.0028	0.041	0.036	0.11	
MW-1	2/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-1	5/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-1	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-1	11/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-1	5/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-1	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-1	11/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-1	3/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-1	6/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-1	8/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-1	12/22/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-1	3/31/1995	--	--	--	--	--	
MW-1	6/20/1995	--	--	--	--	--	
MW-1	8/23/1995	--	--	--	--	--	
MW-1	11/16/1995	--	--	--	--	--	
MW-1	1/30/1996	--	--	--	--	--	
MW-1	6/2/1996	--	--	--	--	--	
MW-1	8/26/1996	--	--	--	--	--	
MW-1	10/16/1996	--	--	--	--	--	
MW-1	4/28/1997	--	--	--	--	--	
MW-1	9/10/1997	--	--	--	--	--	
MW-1	4/19/1998	--	--	--	--	--	
MW-1	9/23/1998	--	--	--	--	--	
MW-1	4/28/1999	--	--	--	--	--	
MW-1	5/5/2001	--	--	--	--	--	
MW-1	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-1	10/2/2001	--	--	--	--	--	
MW-1	5/1/2002	--	--	--	--	--	
MW-1	9/20/2002	--	--	--	--	--	
MW-1	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-1	10/2/2003	--	--	--	--	--	
MW-1	5/1/2004			DESTROYED - MAY 2004			
MW-1R	9/24/2006	--	--	--	--	--	
MW-1R	5/14/2007	--	--	--	--	--	
MW-1R	9/21/2007	--	--	--	--	--	
MW-1R	5/1/2008	0.0182	0.004	<0.005	<0.07	<0.005	
MW-1R	7/15/2008	0.021	<0.01	<0.008	<0.008	0.021	
MW-1R	5/14/2009	<0.005 / <0.005	<0.010 / <0.010	<0.008 / <0.008	<0.008 / <0.008	<0.020 / <0.020	
MW-1R	8/26/2009	<0.005 J / 0.021 J	<0.010 / <0.010	<0.008 / <0.008	<0.008 / <0.008	<0.020 / <0.020	
MW-1R	6/15/2010	0.014 J / 0.010 J	<0.010 / <0.010	<0.008 / <0.008	<0.008 / <0.008	<0.020 / <0.020	
MW-1R	9/5/2010	<0.003 / <0.003	<0.005 / <0.005	<0.004 / <0.004	<0.004 / <0.004	<0.010 / <0.010	
MW-1R	5/24/2011	0.012	0.001 J	<0.008	<0.008	<0.002	
MW-1R	5/24/2011	0.012	0.001 J	<0.008	<0.008	<0.002	
MW-1R	11/10/2011	0.004 J / 0.007 J	<0.001 / <0.001	<0.008 / <0.008	<0.008 / <0.008	<0.002 / <0.002	
MW-1R	6/20/2012	0.004 J / 0.004 J	<0.001 / <0.001	0.0009 J / <0.0008	<0.008 / <0.008	<0.002 / <0.002	
MW-1R	11/5/2012	0.0008 J / 0.0008 J	<0.001 / <0.001	<0.0008 / <0.0008	<0.008 / <0.008	<0.002 / <0.002	
MW-1R	4/30/2013	0.003 / 0.0033	0.00013 J / 0.00015 J	0.0013 / 0.0012	<0.00085 / <0.00085	<0.002 / <0.002	
MW-1R	4/30/2013	0.0028 / 0.0034	0.00011 J / 0.00012 J	0.0012 / 0.001	<0.00085 / <0.00085	<0.002 / <0.002	Sample collected via hydrasleeve
MW-1R	11/8/2013	0.0042 J / 0.0030 J	<0.00060 / <0.00060	0.0021 J / 0.0020 J	<0.0011 / <0.0011	<0.010 / <0.010	
MW-1R	4/28/2014	0.0037 / 0.0037	0.00065 / 0.00061	0.0024 / 0.0022	<0.00013 / <0.00013	<0.0020 / <0.0020	
MW-1R	4/28/2014	<0.00066 UJ / 0.0038 J	<0.00046 / 0.00066	<0.00078 UJ / 0.0017 J	<0.00066 / <0.00013	<0.010 / <0.020	Sample collected via hydrasleeve
MW-1R	11/7/2014	<0.00066 / 0.0021 J	<0.00046 / <0.00046	0.0019 J / 0.0016 J	<0.00066 / <0.00066	<0.010 / <0.010	
MW-1R	4/29/2015	0.003	<0.005	<0.005	<0.005	<0.002	
MW-1R	11/6/2015	<0.001	<0.001	<0.001	<0.001	<0.004	
MW-1R	4/21/2016	0.001	<0.005	<0.005	<0.005	<0.002	
MW-1R	11/1/2016	0.002	<0.005	<0.005	<0.005	<0.002	
MW-1R	5/1/2017	0.001	<0.005	0.0007 J	<0.005	<0.002	
MW-1R	10/17/2017	0.001	<0.005	<0.005	<0.005	<0.005	
MW-1R	4/27/2018	0.002	<0.005	<0.005	<0.005	<0.005	
MW-1R	10/18/2018	<0.002	<0.002	<0.002	<0.002	<0.002	
MW-1R	4/9/2019	0.001 [0.001]	<0.002 [<0.002]	<0.002 [0.004 J]	<0.002 [<0.002]	<0.0003 [<0.0003]	
MW-1R []	9/11/2019	0.0014	< 0.000090	< 0.00050B	< 0.00069	< 0.0014	
MW-2R	9/24/2006	--	--	--	--	--	
MW-2R	5/14/2007	--	--	--	--	--	
MW-2R	9/21/2007	--	--	--	--	--	
MW-2R	5/1/2008	0.0568 / 0.0505	<0.005 / <0.005	<0.005 / 0.00079	<0.07 / <0.07	<0.005 / <0.005	
MW-2R	7/15/2008	0.035 / 0.037	<0.005 / <0.005	<0.004 / <0.005	<0.004 / <0.07	<0.010 / <0.005	
MW-2R	5/14/2009	0.027	<0.002	<0.002	<0.002	<0.004	
MW-2R	8/26/2009	0.056	<0.005	<0.004	<0.004	<0.010	
MW-2R	6/15/2010	0.017	<0.001	<0.008	<0.008	<0.002	
MW-2R	9/5/2010	0.008	<0.001	0.001 J	<0.008	<0.002	
MW-2R	5/24/2011	0.016 / 0.015	<0.001 / <0.001	<0.008 / <0.008	<0.008 / <0.008	<0.002 / <0.002	
MW-2R	11/10/2011	0.012	<0.001	<0.008	<0.008	<0.002	
MW-2R	6/20/2012	0.011	<0.001	<0.008	<0.008	<0.002	
MW-2R	11/8/2012	0.002 J	<0.001	<0.008	<0.008	<0.002	
MW-2R	4/30/2013	0.0091	<0.00083	0.00089 J	0.00022 J	<0.002	
MW-2R	4/30/2013	0.0049	<0.00083	0.00045 J	<0.00085	<0.002	
MW-2R	11/8/2013	0.0053	<0.00012	0.00047 J	<0.00023	<0.0020	Sample collected via hydrasleeve
MW-2R	4/28/2014	0.011	<0.00091	0.00077 J	<0.00013	<0.0020	
MW-2R	4/28/2014	0.0021	<0.00091	0.00027 J	<0.00013	<0.0020	Sample collected via hydrasleeve
MW-2R	11/7/2014	<0.00066	<0.00046	<0.00078	<0.00066	<0.010	
MW-2R	4/29/2015	0.003 / 0.003	<0.005 / <0.005	<0.005 / <0.005	<0.005 / <0.005	<0.002 / <0.002	
MW-2R	11/6/2015	0.002 / <0.003	<0.001 / <0.003	<0.001 / <0.003	<0.001 / <0.003	<0.004 / <0.010	
MW-2R	4/21/2016	0.006 / 0.009 J	<0.005 / <0.005	0.0006 J / <0.005	<0.005 / <0.005	<0.002 / <0.02	
MW-2R	11/1/2016	0.011 / 0.011	<0.005 / <0.005	0.0008 J / 0.0008 J	<0.005 / <0.005	<0.002 / <0.002	
MW-2R	5/1/2017	0.007 / 0.008	<0.005 / <0.005	0.0006 J / 0.0006 J	<0.005 / <0.005	<0.002 / <0.002	
MW-2R	10/17/2017	0.009 / 0.009	<0.005 / <0.005	0.0009 J / 0.0008 J	<0.005 / <0.005	<0.0005 / <0.0005	
MW-2R	4/27/2018	0.007 / 0.007	<0.005 / <0.005	<0.005 / <0.005	<0.005 / <0.005	<0.0005 / <0.0005	
MW-2R	10/18/2018	0.003 J / 0.003 J	<0.0002 / <0.0002	<0.0002 / <0.0002	<0.0002 / <0.0002	<0.0002 / <0.0002	
MW-2R	4/9/2019	0.005	<0.002	0.0004 J	<0.0002	<0.0003	
MW-2R	9/11/2019	0.006	0.00011 J	< 0.00050B	< 0.00069	< 0.0014	
MW-3	2/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-3	5/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-3	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-3	11/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-3	5/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-3	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-3	11/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-3	3/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-3	6/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-3	8/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-3	12/22/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-3	4/10/1995	--	--	--	--	--	
MW-3	6/20/1995	--	--	--	--	--	
MW-3	6/21/1995	--	--	--	--	--	
MW-3	8/23/1995	--	--	--	--	--	

Table 5. Historical Groundwater Analytical Results - Additional VOCs
First Quarter 1992 to Current
 Former Chevron-Branded Service Station 97324
 4417 Lake Otis Parkway
 Anchorage, Alaska

Well ID	Sample Date	EDC (mg/L)	TCE (mg/L)	PCE (mg/L)	cis-1,2-DCE (mg/L)	Methylene chloride (mg/L)	Comments
ADEC Groundwater Cleanup Levels		0.0017	0.0028	0.041	0.036	0.11	
MW-3	11/16/1995	--	--	--	--	--	
MW-3	1/30/1996	--	--	--	--	--	
MW-3	6/2/1996	--	--	--	--	--	
MW-3	8/26/1996	--	--	--	--	--	
MW-3	10/16/1996	--	--	--	--	--	
MW-3	4/28/1997	--	--	--	--	--	
MW-3	9/10/1997	--	--	--	--	--	
MW-3	4/19/1998	--	--	--	--	--	
MW-3	9/23/1998	--	--	--	--	--	
MW-3	4/28/1999	--	--	--	--	--	
MW-3	10/13/1999	--	--	--	--	--	
MW-3	5/19/2000	--	--	--	--	--	
MW-3	9/27/2000	--	--	--	--	--	
MW-3	5/5/2001	--	--	--	--	--	
MW-3	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-3	10/2/2001	--	--	--	--	--	
MW-3	5/1/2002	--	--	--	--	--	
MW-3	9/20/2003	--	--	--	--	--	
MW-3	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-3	10/2/2003	--	--	--	--	--	
MW-3	5/1/2004	--	--	--	--	--	DESTROYED - MAY 2004
MW-4	2/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-4	5/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-4	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-4	11/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-4	5/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-4	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-4	11/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-4	3/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-4	6/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-4	8/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-4	12/22/1994	--	--	--	--	--	
MW-4	3/31/1995	--	--	--	--	--	
MW-4	6/20/1995	--	--	--	--	--	
MW-4	8/23/1995	--	--	--	--	--	
MW-4	11/16/1995	--	--	--	--	--	
MW-4	1/30/1996	--	--	--	--	--	
MW-4	6/2/1996	--	--	--	--	--	
MW-4	8/26/1996	--	--	--	--	--	
MW-4	4/28/1997	--	--	--	--	--	
MW-4	9/10/1997	--	--	--	--	--	
MW-4	4/19/1998	--	--	--	--	--	
MW-4	9/23/1998	--	--	--	--	--	
MW-4	5/2/1999	--	--	--	--	--	
MW-4	10/13/1999	--	--	--	--	--	
MW-4	5/19/2000	--	--	--	--	--	
MW-4	9/27/2000	--	--	--	--	--	
MW-4	5/5/2001	--	--	--	--	--	
MW-4	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-4	10/2/2001	--	--	--	--	--	
MW-4	5/1/2002	--	--	--	--	--	
MW-4	9/20/2002	--	--	--	--	--	
MW-4	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-4	10/2/2003	--	--	--	--	--	
MW-4	5/1/2004	--	--	--	--	--	DESTROYED - MAY 2004
MW-5	2/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-5	5/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-5	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-5	11/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-5	5/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-5	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-5	11/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-5	3/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-5	6/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-5	8/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-5	12/22/1994	--	--	--	--	--	
MW-5	3/31/1995	--	--	--	--	--	
MW-5	6/20/1995	--	--	--	--	--	
MW-5	8/23/1995	--	--	--	--	--	
MW-5	11/16/1995	--	--	--	--	--	
MW-5	1/30/1996	--	--	--	--	--	
MW-5	6/2/1996	--	--	--	--	--	
MW-5	8/26/1996	--	--	--	--	--	
MW-5	10/16/1996	--	--	--	--	--	
MW-5	4/28/1997	--	--	--	--	--	
MW-5	9/10/1997	--	--	--	--	--	
MW-5	4/19/1998	--	--	--	--	--	
MW-5	9/23/1998	--	--	--	--	--	
MW-5	4/28/1999	--	--	--	--	--	
MW-5	10/13/1999	--	--	--	--	--	
MW-5	5/19/2000	--	--	--	--	--	
MW-5	9/27/2000	--	--	--	--	--	
MW-5	5/5/2001	--	--	--	--	--	
MW-5	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-5	10/2/2001	--	--	--	--	--	
MW-5	5/1/2002	--	--	--	--	--	
MW-5	9/20/2002	--	--	--	--	--	
MW-5	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-5	10/2/2003	--	--	--	--	--	
MW-5	5/1/2004	--	--	--	--	--	DESTROYED - MAY 2004
MW-6	2/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-6	5/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-6	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-6	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-6	11/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-6	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-6	9/21/2001	--	--	--	--	--	
MW-6	5/1/2004	--	--	--	--	--	DESTROYED - MAY 2004
MW-7	2/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-7	5/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-7	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-7	11/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-7	5/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-7	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-7	11/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-7	3/1/1994	--	--	--	--	--	Sample date accurate to month and year only

Table 5. Historical Groundwater Analytical Results - Additional VOCs
First Quarter 1992 to Current
 Former Chevron-Branded Service Station 97324
 4417 Lake Otis Parkway
 Anchorage, Alaska

Well ID	Sample Date	EDC (mg/L)	TCE (mg/L)	PCE (mg/L)	cis-1,2-DCE (mg/L)	Methylene chloride (mg/L)	Comments
ADEC Groundwater Cleanup Levels							
		0.0017	0.0028	0.041	0.036	0.11	
MW-7	6/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-7	8/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-7	12/22/1994	--	--	--	--	--	
MW-7	3/31/1995	--	--	--	--	--	
MW-7	6/20/1995	--	--	--	--	--	
MW-7	8/23/1995	--	--	--	--	--	
MW-7	11/16/1995	--	--	--	--	--	
MW-7	1/30/1996	--	--	--	--	--	
MW-7	6/2/1996	--	--	--	--	--	
MW-7	8/26/1996	--	--	--	--	--	
MW-7	10/16/1996	--	--	--	--	--	
MW-7	4/28/1997	--	--	--	--	--	
MW-7	9/10/1997	--	--	--	--	--	
MW-7	04/19/1998	--	--	--	--	--	
MW-7	09/23/1998	--	--	--	--	--	
MW-7	04/28/1999	--	--	--	--	--	
MW-7	10/13/1999	--	--	--	--	--	
MW-7	05/19/2000	--	--	--	--	--	
MW-7	9/27/2000	--	--	--	--	--	
MW-7	5/5/2001	--	--	--	--	--	
MW-7	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-7	10/2/2001	--	--	--	--	--	
MW-7	5/1/2002	--	--	--	--	--	
MW-7	9/20/2002	--	--	--	--	--	
MW-7	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-7	10/2/2003	--	--	--	--	--	
MW-7	5/1/2004	--	--	--	--	--	DESTROYED - MAY 2004
MW-8	2/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-8	5/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-8	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-8	11/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-8	5/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-8	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-8	11/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-8	3/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-8	6/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-8	8/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-8	12/22/1994	--	--	--	--	--	
MW-8	3/31/1995	--	--	--	--	--	
MW-8	6/20/1995	--	--	--	--	--	
MW-8	8/23/1995	--	--	--	--	--	
MW-8	11/16/1995	--	--	--	--	--	
MW-8	1/30/1996	--	--	--	--	--	
MW-8	6/2/1996	--	--	--	--	--	
MW-8	8/26/1996	--	--	--	--	--	
MW-8	10/16/1996	--	--	--	--	--	
MW-8	4/28/1997	--	--	--	--	--	
MW-8	9/10/1997	--	--	--	--	--	
MW-8	4/19/1998	--	--	--	--	--	
MW-8	9/23/1998	--	--	--	--	--	
MW-8	9/21/2001	--	--	--	--	--	
MW-8R	9/24/2006	--	--	--	--	--	
MW-8R	5/14/2007	--	--	--	--	--	
MW-8R	9/21/2007	--	--	--	--	--	
MW-8R	5/1/2008	0.0174	<0.005	0.00695	<0.07	<0.005	
MW-8R	7/15/2008	0.011	<0.010	<0.008	<0.008	<0.020	
MW-8R	5/14/2009	<0.003	<0.005	0.005	<0.004	<0.010	
MW-8R	8/26/2009	<0.005	<0.010	<0.008	<0.008	0.023 J	
MW-8R	4/20/2010	0.004 J / 0.004 J	<0.005 / <0.005	0.005 J / <0.004	<0.004 / <0.004	<0.010 / <0.010	
MW-8RR	7/26/2011	0.024	<0.002	0.011	<0.002	<0.004	
MW-8RR	11/10/2011	0.005	<0.001	<0.0008	<0.0008	<0.002	
MW-8RR	6/20/2012	0.002 J	<0.001	0.0008 J	<0.0008	<0.002	
MW-8RR	11/8/2012	0.0006 J	<0.001	0.002 J	<0.0008	<0.002	
MW-8RR	4/30/2013	0.0033	<0.000083	0.0019	<0.000085	<0.002	
MW-8RR	4/30/2013	0.0025	<0.000083	0.002	0.00023 J	<0.002	Sample collected via hydrasleeve
MW-8RR	11/8/2013	0.00055 J	<0.00012	0.0032	<0.00023	<0.0020	
MW-8RR	4/28/2014	0.00065 J	<0.000091	0.0042	<0.00013	<0.0020	
MW-8RR	4/28/2014	0.00061 J	<0.000091	0.0042	<0.00013	<0.0020	Sample collected via hydrasleeve
MW-8RR	11/7/2014	0.0013	<0.000091	0.0024	<0.00013	<0.0020	
MW-8RR	4/29/2015	0.001	<0.0005	0.001	<0.0005	<0.002	
MW-8RR	11/6/2015	<0.001	<0.001	<0.001	<0.001	<0.004	
MW-8RR	4/21/2016	<0.001	<0.0005	0.002	<0.0005	<0.002	
MW-8RR	11/1/2016	0.001	<0.0005	0.004	<0.0005	<0.002	
MW-8RR	5/1/2017	0.002	<0.0005	0.004	<0.0005	<0.002	
MW-8RR	10/17/2017	0.001	<0.0005	0.003	<0.0005	<0.0005	
MW-8RR	4/27/2018	0.001	<0.0005	0.002	<0.0005	<0.0005	
MW-8RR	10/18/2018	0.003 J	<0.0002	0.003	<0.0002	<0.0002	
MW-8RR	4/9/2019	0.001	<0.0002	0.003 J	<0.0002	<0.0003	
MW-8RR	9/11/2019	0.00079 J / 0.00077	0.000057 J / 0.000070 J	0.0018 J / 0.0017	< 0.00069 / < 0.00069	< 0.0014 / < 0.0014	
MW-9	2/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-9	5/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-9	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-9	11/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-9	5/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-9	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-9	11/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-9	3/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-9	6/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-9	8/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-9	12/22/1994	--	--	--	--	--	
MW-9	3/31/1995	--	--	--	--	--	
MW-9	6/20/1995	--	--	--	--	--	
MW-9	8/23/1995	--	--	--	--	--	
MW-9	11/16/1995	--	--	--	--	--	
MW-9	1/30/1996	--	--	--	--	--	
MW-9	6/2/1996	--	--	--	--	--	
MW-9	8/26/1996	--	--	--	--	--	
MW-9	10/16/1996	--	--	--	--	--	
MW-9	4/28/1997	--	--	--	--	--	
MW-9	9/10/1997	--	--	--	--	--	
MW-9	4/19/1998	--	--	--	--	--	
MW-9	9/23/1998	--	--	--	--	--	
MW-9	4/28/1999	--	--	--	--	--	
MW-9	10/13/1999	--	--	--	--	--	
MW-9	5/19/2000	--	--	--	--	--	
MW-9	9/27/2000	--	--	--	--	--	

Table 5. Historical Groundwater Analytical Results - Additional VOCs
First Quarter 1992 to Current
 Former Chevron-Branded Service Station 97324
 4417 Lake Otis Parkway
 Anchorage, Alaska

Well ID	Sample Date	EDC (mg/L)	TCE (mg/L)	PCE (mg/L)	cis-1,2-DCE (mg/L)	Methylene chloride (mg/L)	Comments
ADEC Groundwater Cleanup Levels		0.0017	0.0028	0.041	0.036	0.11	
MW-9	5/2/2001	--	--	--	--	--	
MW-9	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-9	10/2/2001	--	--	--	--	--	
MW-9	5/1/2002	--	--	--	--	--	
MW-9	9/20/2002	--	--	--	--	--	
MW-9	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-9	10/2/2003	--	--	--	--	--	
MW-9	6/1/2004	--	--	--	--	--	
MW-9	9/21/2004	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-9	5/12/2005	--	--	--	--	--	
MW-9	9/19/2005	--	--	--	--	--	
MW-9	5/8/2006	--	--	--	--	--	
MW-9	9/24/2006	--	--	--	--	--	
MW-9	5/14/2007	--	--	--	--	--	
MW-9	9/21/2007	--	--	--	--	--	
MW-9	5/1/2008	<0.005	0.05	0.27	0.119	<0.005	
MW-9	7/15/2008	<0.0005	0.043	0.21	0.097	<0.002	
MW-9	5/14/2009	<0.0005	0.025	0.097	0.064	<0.002	
MW-9	8/26/2009	<0.0005	0.036	0.20	<0.0008	<0.002	
MW-9	4/20/2010	<0.0005	0.044	0.28 J	0.13	<0.002	
MW-9	9/5/2010	--	--	--	--	--	
MW-9	5/24/2011	<0.0005	0.011	0.055	0.032	<0.002	
MW-9	11/10/2011	<0.0005	0.005	0.034	0.013	<0.002	
MW-9	8/20/2012	<0.0005	0.006	0.013	0.014	<0.002	
MW-9	4/30/2013	<0.00037	0.0492	0.293	0.114	<0.002	
MW-9	4/30/2013	<0.00037	0.0441	0.216	0.112	<0.002	
MW-9	11/8/2013	<0.00022	0.0055	0.024	0.013	<0.0020	Sample collected via hydrasleeve
MW-9	4/28/2014	<0.00013	0.033	0.18	0.064	<0.0020	
MW-9	4/28/2014	<0.00013	<0.0041	0.018	0.0067	<0.0020	Sample collected via hydrasleeve
MW-9	11/7/2014	<0.00013	0.023	0.12	0.040	<0.0020	
MW-9	4/29/2015	<0.0005	0.003	0.008	0.005	<0.002	
MW-9	11/6/2015	<0.001	0.025	0.12	0.078	<0.004	
MW-9	4/21/2016	<0.0005	0.003	0.012	0.007	<0.002	
MW-9	11/1/2016	<0.0005	0.003	0.012	0.007	<0.002	
MW-9	5/1/2017	<0.003	0.006	0.025	0.030	<0.010	
MW-9	10/17/2017	<0.0005	0.003	0.012	0.01	<0.0005	
MW-9	4/27/2018	<0.0005	0.014	0.054	0.039	<0.0005	
MW-9	10/18/2018	<0.002	0.022	0.082	0.064	<0.0002	
MW-9	4/9/2019	<0.0003	0.023	0.085	0.067	<0.0003	
MW-9	9/11/2019	< 0.000024	0.022	0.068	0.058	< 0.0014	
MW-10	2/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-10	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-10	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-10	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-10	9/21/2001	--	--	--	--	--	
MW-10	5/1/2004	--	--	--	--	--	DESTROYED - MAY 2004
MW-11	2/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-11	5/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-11	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-11	11/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-11	5/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-11	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-11	11/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-11	3/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-11	6/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-11	8/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-11	12/22/1994	--	--	--	--	--	
MW-11	3/31/1995	--	--	--	--	--	
MW-11	8/20/1995	--	--	--	--	--	
MW-11	8/23/1995	--	--	--	--	--	
MW-11	11/16/1995	--	--	--	--	--	
MW-11	1/30/1996	--	--	--	--	--	
MW-11	6/2/1996	--	--	--	--	--	
MW-11	8/26/1996	--	--	--	--	--	
MW-11	10/16/1996	--	--	--	--	--	
MW-11	4/28/1997	--	--	--	--	--	
MW-11	9/10/1997	--	--	--	--	--	
MW-11	4/19/1998	--	--	--	--	--	
MW-11	9/23/1998	--	--	--	--	--	
MW-11	4/28/1999	--	--	--	--	--	
MW-11	10/13/1999	--	--	--	--	--	
MW-11	05/19/2000	--	--	--	--	--	
MW-11	9/27/2000	--	--	--	--	--	
MW-11	5/5/2001	--	--	--	--	--	
MW-11	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-11	10/2/2001	--	--	--	--	--	
MW-11	5/1/2002	--	--	--	--	--	
MW-11	9/20/2002	--	--	--	--	--	
MW-11	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-11	10/2/2003	--	--	--	--	--	
MW-11	5/1/2004	--	--	--	--	--	DESTROYED - MAY 2004
MW-12	2/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-12	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-12	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-12	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-12	9/21/2001	--	--	--	--	--	
MW-12	5/1/2004	--	--	--	--	--	DESTROYED - MAY 2004
MW-14A	5/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-14A	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-14A	11/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-14A	5/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-14A	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-14A	11/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-14A	6/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-14A	9/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-14A	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-14A	9/21/2001	--	--	--	--	--	
MW-14A	5/1/2004	--	--	--	--	--	DESTROYED - MAY 2004
MW-14B	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-14B	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-14B	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-14B	9/21/2001	--	--	--	--	--	
MW-14B	5/1/2004	--	--	--	--	--	DESTROYED - MAY 2004
MW-15	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only

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First Quarter 1992 to Current
 Former Chevron-Branded Service Station 97324
 4417 Lake Otis Parkway
 Anchorage, Alaska

Well ID	Sample Date	EDC (mg/L)	TCE (mg/L)	PCE (mg/L)	cis-1,2-DCE (mg/L)	Methylene chloride (mg/L)	Comments
ADEC Groundwater Cleanup Levels		0.0017	0.0028	0.041	0.036	0.11	
MW-15	11/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-15	5/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-15	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-15	11/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-15	3/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-15	6/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-15	8/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-15	12/22/1994	--	--	--	--	--	
MW-15	3/31/1995	--	--	--	--	--	
MW-15	6/20/1995	--	--	--	--	--	
MW-15	8/23/1995	--	--	--	--	--	
MW-15	11/16/1995	--	--	--	--	--	
MW-15	1/30/1996	--	--	--	--	--	
MW-15	6/2/1996	--	--	--	--	--	
MW-15	8/26/1996	--	--	--	--	--	
MW-15	10/16/1996	--	--	--	--	--	
MW-15	4/28/1997	--	--	--	--	--	
MW-15	9/10/1997	--	--	--	--	--	
MW-15	4/19/1998	--	--	--	--	--	
MW-15	9/23/1998	--	--	--	--	--	
MW-15	4/28/1999	--	--	--	--	--	
MW-15	10/13/1999	--	--	--	--	--	
MW-15	5/19/2000	--	--	--	--	--	
MW-15	9/27/2000	--	--	--	--	--	
MW-15	5/5/2001	--	--	--	--	--	
MW-15	10/20/2001	--	--	--	--	--	
MW-15	5/1/2002	--	--	--	--	--	
MW-15	9/20/2002	--	--	--	--	--	
MW-15	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-15	10/2/2003	--	--	--	--	--	
MW-15	6/1/2004	--	--	--	--	--	
MW-15	9/21/2004	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-15	5/12/2005	--	--	--	--	--	
MW-15	9/19/2005	--	--	--	--	--	
MW-15	5/8/2006	--	--	--	--	--	
MW-16	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-16	10/02/2001	--	--	--	--	--	
MW-16	5/1/2002	--	--	--	--	--	
MW-16	9/20/2002	--	--	--	--	--	
MW-16	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-16	10/02/2003	--	--	--	--	--	
MW-16	6/1/2004	--	--	--	--	--	
MW-16	9/21/2004	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-16	5/12/2005	--	--	--	--	--	
MW-16	9/19/2005	--	--	--	--	--	
MW-16	5/8/2006	--	--	--	--	--	
MW-16	9/24/2006	--	--	--	--	--	
MW-16	5/14/2007	--	--	--	--	--	
MW-16	9/12/2007	--	--	--	--	--	
MW-16	5/1/2008	<0.005	0.0346	0.197	0.102	<0.005	
MW-16	5/14/2009			FENCED, CANNOT BE ACCESSED			
MW-17	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-17	10/2/2001	--	--	--	--	--	
MW-17	5/1/2002	--	--	--	--	--	
MW-17	9/20/2002	--	--	--	--	--	
MW-17	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-17	10/2/2003	--	--	--	--	--	
MW-17	6/1/2004	--	--	--	--	--	
MW-17	9/21/2004	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-17	5/12/2005	--	--	--	--	--	
MW-17	9/19/2005	--	--	--	--	--	
MW-17	5/8/2006	--	--	--	--	--	
MW-17	9/24/2006	--	--	--	--	--	
MW-17	5/14/2007	--	--	--	--	--	
MW-17	9/21/2007	--	--	--	--	--	
MW-17	5/1/2008	<0.005	<0.005	<0.005	<0.07	<0.005	
MW-17	5/14/2009			FENCED, CANNOT BE ACCESSED			
MW-18	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-18	10/02/2001	--	--	--	--	--	
MW-18	5/1/2002	--	--	--	--	--	
MW-18	9/20/2002	--	--	--	--	--	
MW-18	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-18	10/2/2003	--	--	--	--	--	
MW-18	6/1/2004	--	--	--	--	--	
MW-18	9/21/2004	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-18	5/12/2005	--	--	--	--	--	
MW-18	9/19/2005	--	--	--	--	--	
MW-18	5/8/2006	--	--	--	--	--	
Trip Blank	1/30/1996	--	--	--	--	--	
Trip Blank	6/2/1996	--	--	--	--	--	
Trip Blank	8/26/1996	--	--	--	--	--	
Trip Blank	10/16/1996	--	--	--	--	--	
Trip Blank	4/28/1997	--	--	--	--	--	
Trip Blank	9/10/1997	--	--	--	--	--	
Trip Blank	4/19/1998	--	--	--	--	--	
Trip Blank	09/23/1998	--	--	--	--	--	
Trip Blank	4/28/1999	--	--	--	--	--	
Trip Blank	10/13/1999	--	--	--	--	--	
Trip Blank	9/27/2000	--	--	--	--	--	
Trip Blank	5/5/2001	--	--	--	--	--	
Trip Blank	10/2/2001	--	--	--	--	--	
Trip Blank	5/1/2002	--	--	--	--	--	
Trip Blank	9/20/2002	--	--	--	--	--	
Trip Blank	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
Trip Blank	10/2/2003	--	--	--	--	--	
Trip Blank	6/1/2004	--	--	--	--	--	
Trip Blank	9/21/2004	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
Trip Blank	5/12/2005	--	--	--	--	--	
Trip Blank	9/19/2005	--	--	--	--	--	
Trip Blank	5/8/2006	--	--	--	--	--	
Trip Blank	9/24/2006	--	--	--	--	--	
Trip Blank	5/14/2007	--	--	--	--	--	
Trip Blank	9/21/2007	--	--	--	--	--	
Trip Blank	5/1/2008	<0.005	<0.005	<0.005	<0.07	<0.005	
Trip Blank	7/15/2008	<0.005	<0.005	<0.005	<0.07	<0.005	
Trip Blank	4/30/2009	<0.0005	<0.001	<0.0008	<0.0008	<0.002	

Table 5. Historical Groundwater Analytical Results - Additional VOCs
First Quarter 1992 to Current
 Former Chevron-Branded Service Station 97324
 4417 Lake Otis Parkway
 Anchorage, Alaska

Well ID	Sample Date	EDC (mg/L)	TCE (mg/L)	PCE (mg/L)	cis-1,2-DCE (mg/L)	Methylene chloride (mg/L)	Comments
ADEC Groundwater Cleanup Levels		0.0017	0.0028	0.041	0.036	0.11	
Trip Blank	8/19/2009	<0.0005	<0.001	<0.0008	<0.0008	<0.0008	<0.002
Trip Blank	4/20/2010	<0.0005	<0.001	<0.0008	<0.0008	<0.0008	<0.002
Trip Blank	6/10/2010	<0.0005	<0.001	<0.0008	<0.0008	<0.0008	<0.002
Trip Blank	8/27/2010	<0.0005	<0.001	<0.0008	<0.0008	<0.0008	<0.002
Trip Blank	5/24/2011	<0.0005	<0.001	<0.0008	<0.0008	<0.0008	<0.002
Trip Blank	7/26/2011	<0.0005	<0.001	<0.0008	<0.0008	<0.0008	<0.002
Trip Blank	11/10/2011	<0.0005	<0.001	<0.0008	<0.0008	<0.0008	<0.002
Trip Blank	6/20/2012	<0.0005	<0.001	<0.0008	<0.0008	<0.0008	<0.002
Trip Blank	11/5/2012	<0.0005	<0.001	<0.0008	<0.0008	<0.0008	<0.002
Trip Blank	4/30/2013	<0.00037	<0.000683	<0.0013	<0.00085	<0.0023	<0.002
Trip Blank	11/8/2013	<0.00022	<0.00012	<0.00029	<0.00023	<0.00023	<0.0020
Trip Blank	4/28/2014	<0.00013	<0.000091	<0.00016	<0.00013	<0.00013	<0.0020
Trip Blank	11/7/2014	<0.00013	<0.000091	<0.00016	<0.00013	<0.00013	<0.0020
Trip Blank	4/21/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002
Trip Blank	11/1/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002
Trip Blank	5/1/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002
Trip Blank	4/27/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Trip Blank	10/18/2018	<0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Trip Blank	4/3/2019	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0003
Trip Blank	9/11/2019	< 0.000024	< 0.000090	0.000020 J	< 0.00069	< 0.0014	
Tudor Motel	9/21/2007	<0.005	<0.0001	<0.0001	<0.0001	<0.0005	
Tudor Motel	5/1/2008	<0.005	<0.005	<0.005	<0.07	<0.0005	
Tudor Motel	7/15/2008	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	

Notes:

ID = Identification

MW = Groundwater monitoring well

mg/L = Milligrams per liter

Bold = Value exceeds MDL

Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level

<0.0002 = Not detected at or above the method detection limit (MDL)

[] = Blind Duplicate Sample Result

QA (TB) = Quality Assurance (Trip Blank)

ADEC = Alaska Department of Environmental Conservation

Samples analyzed by USEPA SW-846 8260C

EDC = 1,2-Dichloroethane

TCE = Trichloroethylene

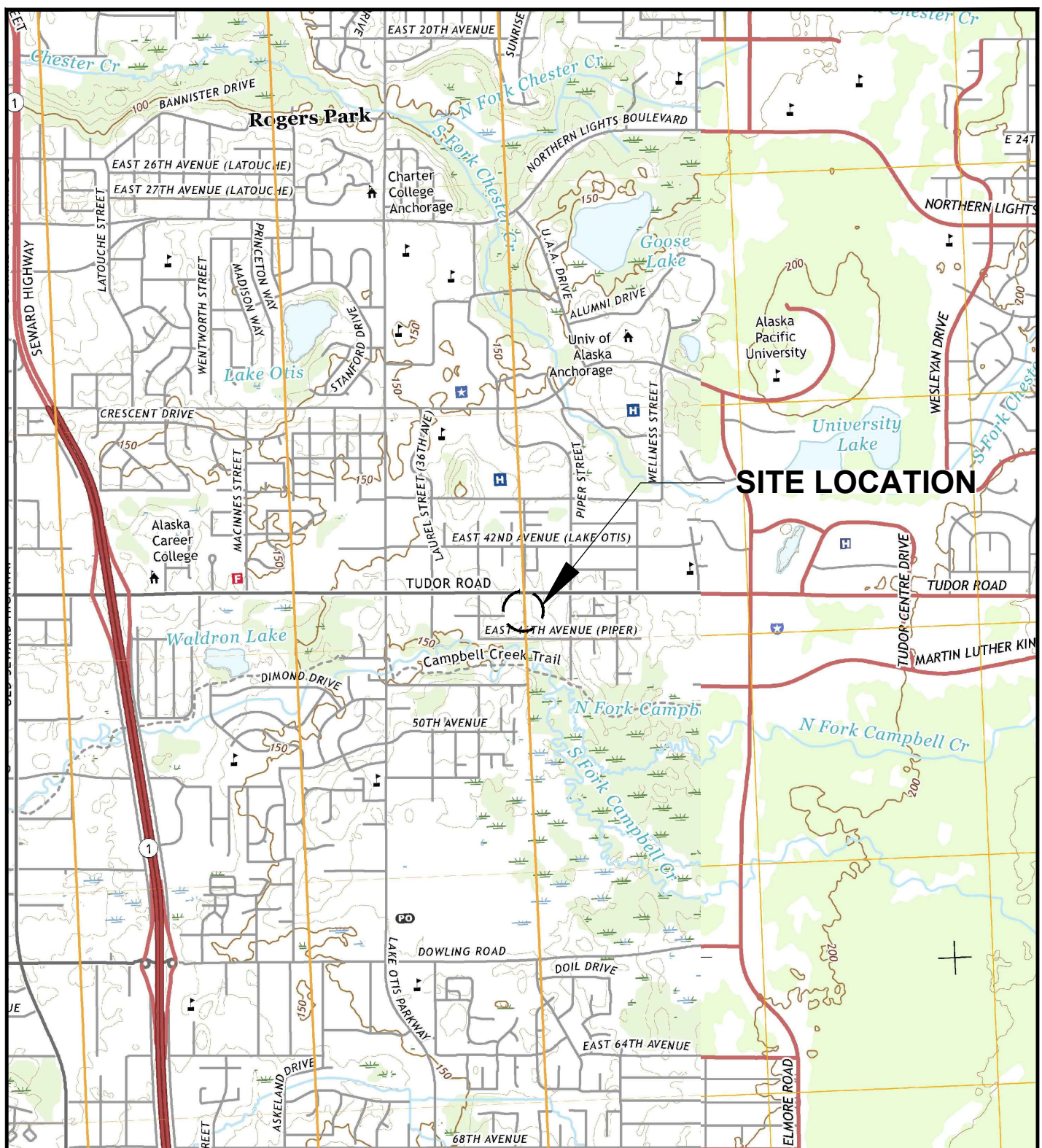
PCE = Tetrachloroethylene

Cis-1,2-DCE = Cis 1,2-Dichloroethane

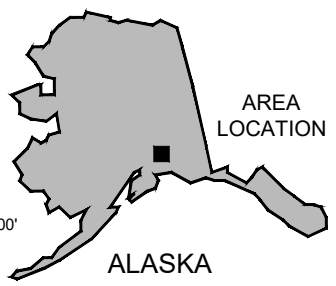
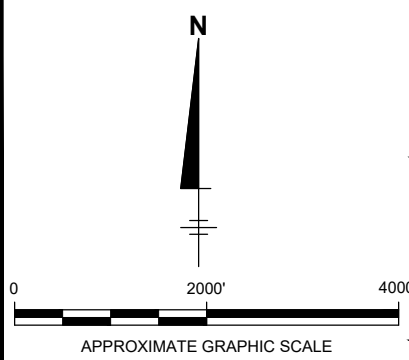
^a = Levels established in ADEC Groundwater Cleanup Levels (18 AAC 75.345)

FIGURES

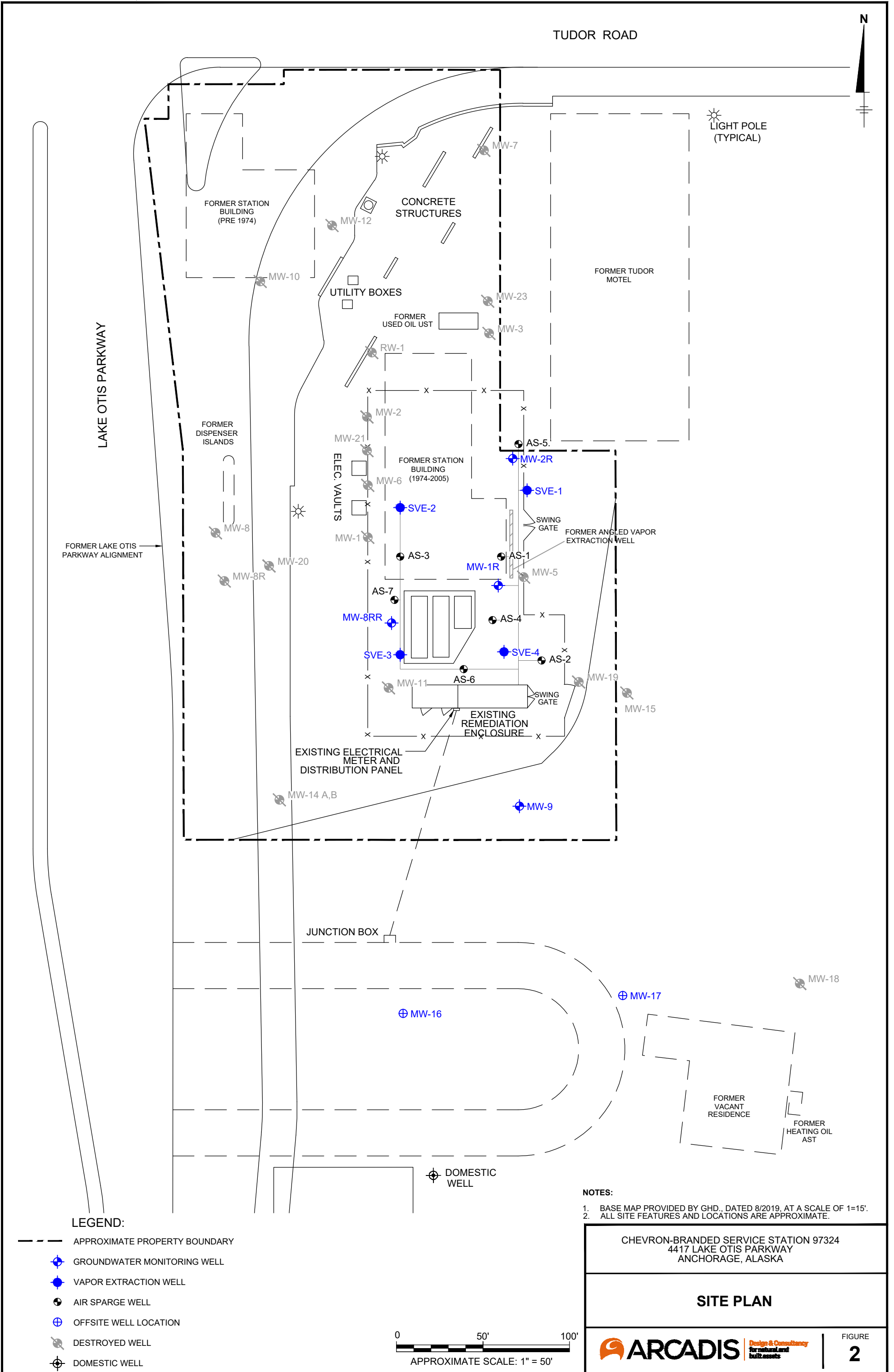




SOURCE: USGS 7.5 ANCHORAGE A-8 NW QUADRANGLE, ALASKA.

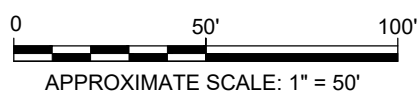


CHEVRON-BRANDED SERVICE STATION 97324 4417 LAKE OTIS PARKWAY ANCHORAGE, ALASKA	
SITE LOCATION MAP	
	Design & Consultancy for natural and built assets
FIGURE 1	



LEGEND:

- APPROXIMATE PROPERTY BOUNDARY
- ⊕ GROUNDWATER MONITORING WELL
- ⊕ VAPOR EXTRACTION WELL
- ⊕ AIR SPARGE WELL
- ⊕ OFFSITE WELL LOCATION
- ⊕ DESTROYED WELL
- ⊕ DOMESTIC WELL



NOTES:

1. BASE MAP PROVIDED BY GHD., DATED 8/2019, AT A SCALE OF 1=15'.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.

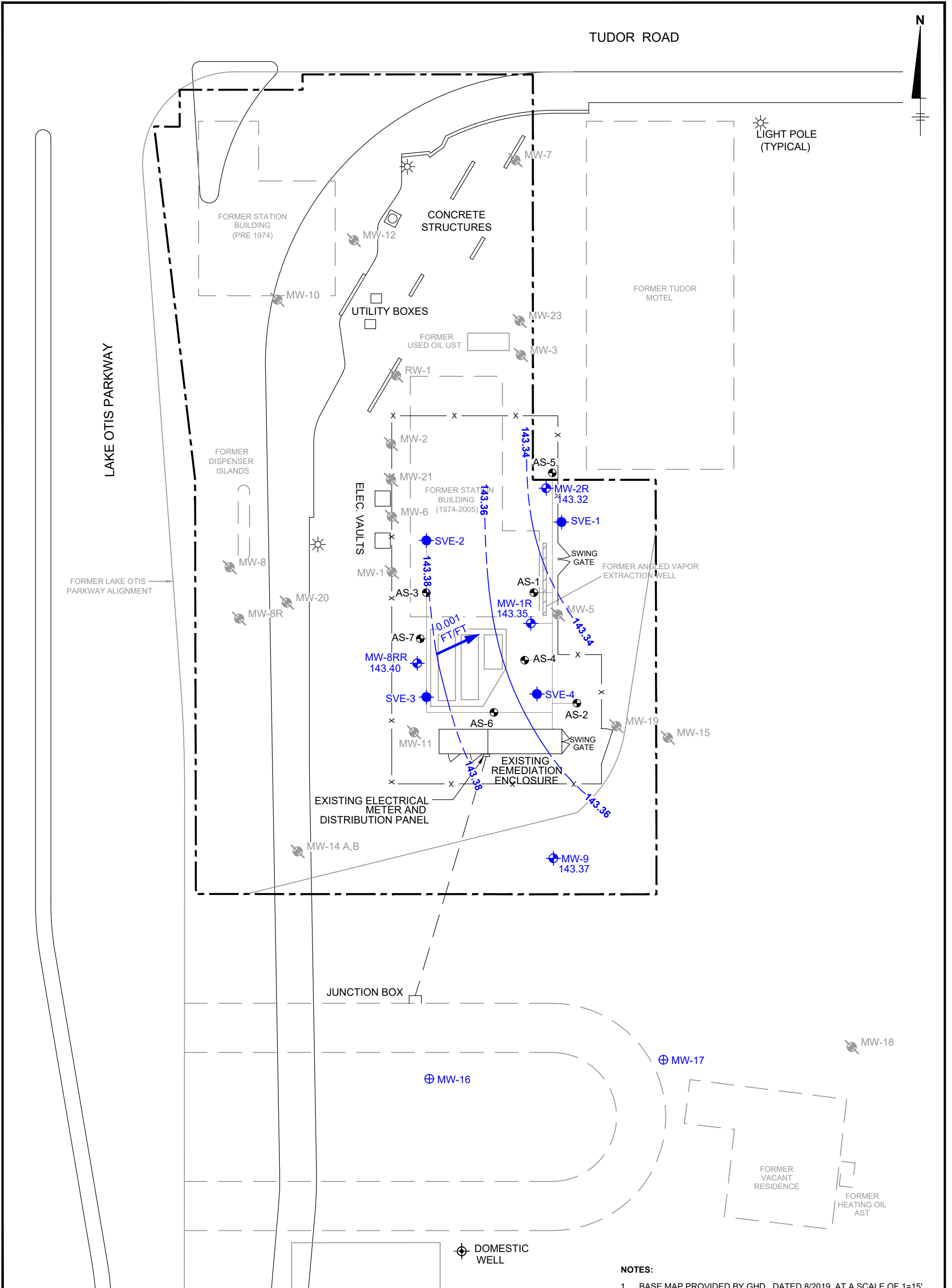
CHEVRON-BRANDED SERVICE STATION 97324
 4417 LAKE OTIS PARKWAY
 ANCHORAGE, ALASKA

SITE PLAN



FIGURE

2



LEGEND:

- APPROXIMATE PROPERTY BOUNDARY
- ⊕ GROUNDWATER MONITORING WELL
- ⊕ VAPOR EXTRACTION WELL
- ⊕ AIR SPARGE WELL
- ⊕ OFFSITE WELL LOCATION
- ⊕ DESTROYED WELL
- ⊕ DOMESTIC WELL
- (143.40) GROUNDWATER ELEVATION IN FEET
- 143.38 --- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- ← GROUNDWATER FLOW DIRECTION
- 0.001 FT/FT APPROXIMATE HYDRAULIC GRADIENT (FEET/FOOT)

NOTES:

1. BASE MAP PROVIDED BY GHD., DATED 8/2019, AT A SCALE OF 1=15'.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.

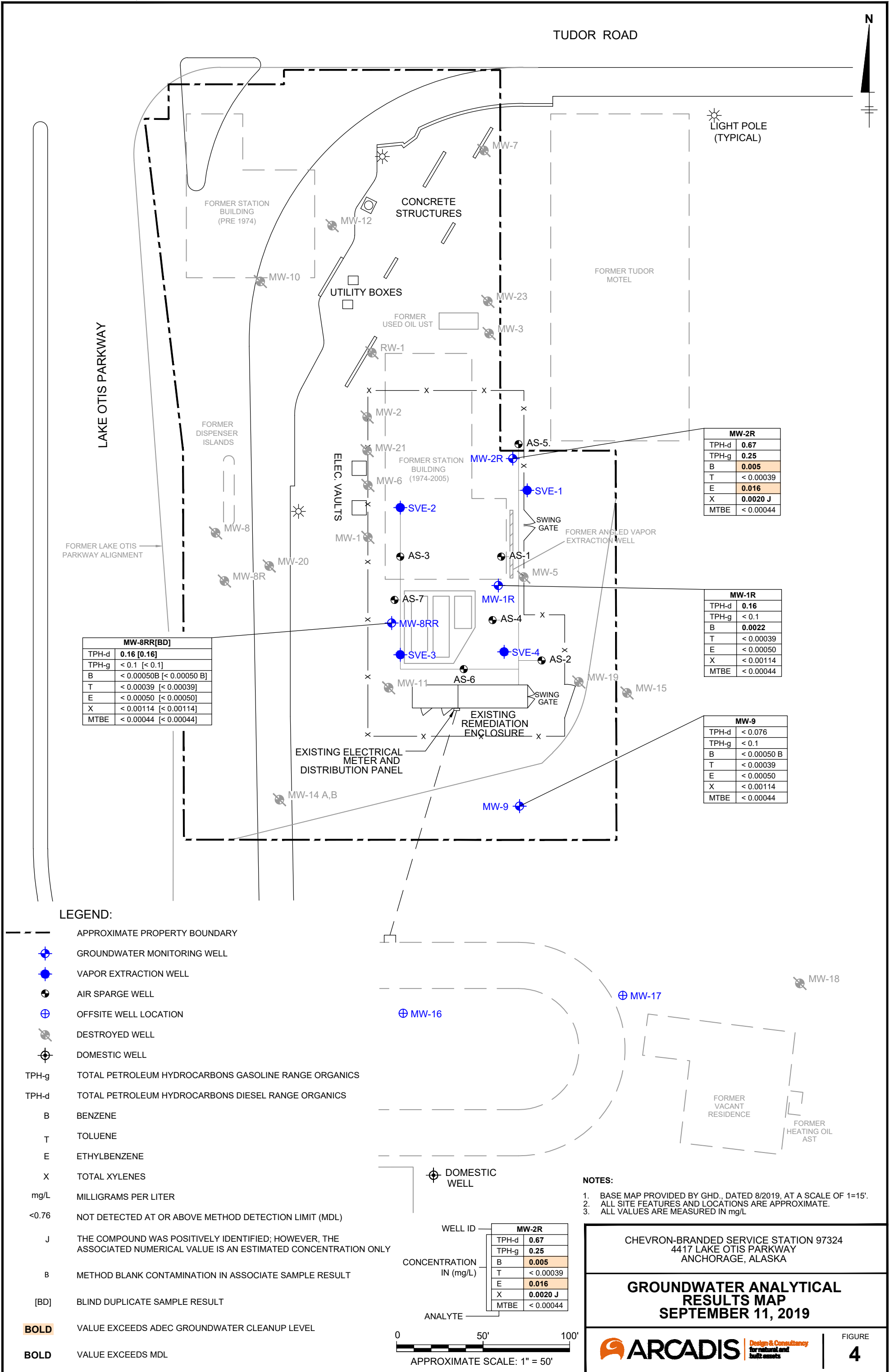
CHEVRON-BRANDED SERVICE STATION 97324
 4417 LAKE OTIS PARKWAY
 ANCHORAGE, ALASKA

**GROUNDWATER ELEVATION
 CONTOUR MAP
 SEPTEMBER 11, 2019**



FIGURE

3



MW-8RR[BD]	
TPH-d	0.16 [0.16]
TPH-g	< 0.1 [< 0.1]
B	< 0.00050B [< 0.00050 B]
T	< 0.00039 [< 0.00039]
E	< 0.00050 [< 0.00050]
X	< 0.00114 [< 0.00114]
MTBE	< 0.00044 [< 0.00044]

MW-2R	
TPH-d	0.67
TPH-g	0.25
B	0.005
T	< 0.00039
E	0.016
X	0.0020 J
MTBE	< 0.00044

MW-1R	
TPH-d	0.16
TPH-g	< 0.1
B	0.0022
T	< 0.00039
E	< 0.00050
X	< 0.00114
MTBE	< 0.00044

MW-9	
TPH-d	< 0.076
TPH-g	< 0.1
B	< 0.00050 B
T	< 0.00039
E	< 0.00050
X	< 0.00114
MTBE	< 0.00044

WELL ID	MW-2R
TPH-d	0.67
TPH-g	0.25
B	0.005
T	< 0.00039
E	0.016
X	0.0020 J
MTBE	< 0.00044

- LEGEND:**
- APPROXIMATE PROPERTY BOUNDARY
 - ⊕ GROUNDWATER MONITORING WELL
 - ⊕ VAPOR EXTRACTION WELL
 - ⊕ AIR SPARGE WELL
 - ⊕ OFFSITE WELL LOCATION
 - ⊕ DESTROYED WELL
 - ⊕ DOMESTIC WELL
 - TPH-g TOTAL PETROLEUM HYDROCARBONS GASOLINE RANGE ORGANICS
 - TPH-d TOTAL PETROLEUM HYDROCARBONS DIESEL RANGE ORGANICS
 - B BENZENE
 - T TOLUENE
 - E ETHYLBENZENE
 - X TOTAL XYLENES
 - mg/L MILLIGRAMS PER LITER
 - <0.76 NOT DETECTED AT OR ABOVE METHOD DETECTION LIMIT (MDL)
 - J THE COMPOUND WAS POSITIVELY IDENTIFIED; HOWEVER, THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY
 - B METHOD BLANK CONTAMINATION IN ASSOCIATE SAMPLE RESULT
 - [BD] BLIND DUPLICATE SAMPLE RESULT
 - BOLD** VALUE EXCEEDS ADEC GROUNDWATER CLEANUP LEVEL
 - BOLD** VALUE EXCEEDS MDL

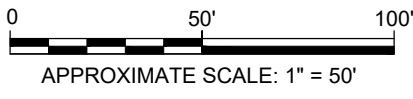
- NOTES:**
1. BASE MAP PROVIDED BY GHD, DATED 8/2019, AT A SCALE OF 1=15'.
 2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
 3. ALL VALUES ARE MEASURED IN mg/L

CHEVRON-BRANDED SERVICE STATION 97324
 4417 LAKE OTIS PARKWAY
 ANCHORAGE, ALASKA

GROUNDWATER ANALYTICAL RESULTS MAP
 SEPTEMBER 11, 2019

ARCADIS Design & Consultancy for natural and built assets

FIGURE **4**



APPENDIX A

Site Background and History



**Chevron Environmental
Management Company**

Appendix A:

Site History and Background

Former Chevron Facility 97324

4417 Lake Otis Parkway

Anchorage, Alaska

ADEC File No: 2100.26.008

HAZARD ID No: 23885

October 22, 2019

Appendix A: 97324 Site Description and Background

1 97324 SITE BACKGROUND AND HISTORY

1.1 Site Description and Vicinity

Former Chevron Facility 97324 is located at 4417 Lake Otis Parkway in Anchorage, Alaska. The site was formerly operated as a Chevron-branded service station with three underground storage tanks (UST), two dispenser islands, and a station building with an auto service bay. The surrounding properties are mixed commercial and industrial; the site is bordered to the north, west, and south by former or current ADEC contaminated sites.

1.2 Site History

In 2004, the facility building, three petroleum underground storage tanks (USTs) equipped with dispenser pumps, and product lines were removed from the property. A remediation system consisting of seven air sparge (AS) wells and four soil vapor extraction (SVE) wells was operated seasonally until 2017, when it was shut down.

2 SITE CHARACTERIZATIONS

A soil and groundwater remediation system which included seven air sparge (AS) wells and four soil vapor extraction (SVE) wells was shut down in 2017. Currently, six groundwater monitoring wells remain in place, four of which are sampled and monitored semiannually.

3 CURRENT SITE MONITORING ACTIVITIES

The site currently has a network of six monitoring wells; four wells are monitored and sampled semiannually (MW-1R, MW-2R, MW-8RR, and MW-9). Historically, concentrations of volatile organic compounds (VOCs), gasoline range organics (GRO), and diesel range organics (DRO) have exceeded their respective ADEC Method 2 groundwater cleanup levels in several monitoring wells.

4 GEOLOGY AND HYDROGEOLOGY

4.1 Site Hydrogeology

The site is in south central Alaska, south of the Knik Arm and north of the Turnagain Arm of Cook Inlet. From 1992 until present, static groundwater depths at the site have ranged between 8.58 to 24.53 feet below top of casing (ft btoc). Historic ground water flow is to the northwest.

5 REFERENCES

GHD Inc. 2018. Second Semiannual 2018 Groundwater Monitoring Report Former Chevron-Branded Service Station 97324, 4417 Lake Otis Parkway , Anchorage, AK. December 5

APPENDIX B

Field Data Sheets



Daily Log

 Project Name Cherry 97324 Project Number Site ID: 97324 Page 1 of 1

 Site Location 4417 Lake Otis Pkwy, Anchorage, AK Date 9.11.2019

 Field Personnel David Brandeis - 2019 2nd Semi-Annual GWM Event

Time	Description of Activities
0830	Begin loading Field Vehicle
0900	Complete Vehicle Pre-Trip Inspection
	- Review Job Scope & Packing list - Check on Tubing
	- Review TSDs / Review JMP
	- Contact Pine Env on tubing order status (9M Arrival)
	- Contact TTT - place order for pickup (60 ft. bundled poly tubing - for bladder pump)
0915	- Mobilize to pick up van - check storage unit for tubing (near there)
0945	Pick up Tubing - Mobilize to site
	- Complete PTH & Tailgate form
	- Contact Max Elias to open Permit
10:30	Begin Gauging Wells
	Well ID PID (ppm) DTW (ft. bsl) Total Depth (ft. bsl)
	MW-1R 0.0 24.21' 30.9'
	MW-2R 0.0 24.93' 31.3'
	MW-8RR 0.0 23.03' 32.6'
	MW-9 15.87 0.0 15.87' 19.3'

Chevron
GROUNDWATER SAMPLING FORM



Project No. 97324

Well ID MW-8RR

Date 9.11.19

Project Name/Location 4417 Lake Otis Pkwy, Anchorage, AK

Weather 50's Partly Cloudy

Measuring Pt. Description Top of casing Screen Setting (n-bmp) - Casing Diameter (n.) 2

Well Material PVC
SS

Static Water Level (n-bmp) 23.03' Total Depth (n-bmp) 32.6' Water Column (ft) 9.57 Gallons in Well 1.53

MP Elevation - Pump Intake (n-bmp) ~2' Purge Method: low flow Sample Method low flow

Pump On/Off 1245 / 1315 Volumes Purged - Centrifugal Submersible - Other Bladder Pump

Sample Time: Label 1310 - Gallons Purged 3400 m^L Replicate/Code No. BD-1-10-190a11 Sampled by DR

Purge Start 1245
Purge End 1315

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min ±	Depth to Water (ft) -0.3	Gallons Purged	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)(°F) ± 3%	Redox (mV) ± 10mV	Appearance						
											Color	Odor					
1250	5	200	23.05	1000	7.66	0.692	108	27.61	8.58	151	Clear	None					
1253	8	200	23.18	1600	7.59	0.704	44.3	14.53	7.82	153	Clear	None					
1256	11	200	23.12	2200	7.56	0.699	31.5	13.79	7.62	156	Clear	None					
1259	14	200	23.15	2800	7.53	0.700	26.9	13.67	7.63	156	Clear	None					
1302	17	200	23.14	3400	7.54	0.698	25.9	13.55	7.60	158	Clear	None					
Stabilization Calculations (±)																	
Stabilization Criteria												± 0.1 pH	± 3%	± 10% or within 1 NTU	± 10%	± 3%	± 10 mV

(9) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when < 10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs - 45 EPA 92.60	40 mL VOA	3	HCl
GR0 - AK 101	40 mL VOA	3	HCl
DRO - AK 102	250 mL Amber Bottles	2	HCl

Comments _____

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.85	

Well Information

Well Location: _____ Well Locked at Arrival: Yes / No

Condition of Well: Good Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: 3918

Charron



GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 97324

Well ID MW-1R

Date 9.11.19

Project Name/Location 4417 Lake Otis Pkwy, Anchorage, AK

Weather 50s Partly Cloudy

Measuring Pt. Description Top of casing Screen Setting (ft-bmp) - Casing Diameter (in.) 2

Well Material PVC SS

Static Water Level (ft-bmp) 24.21' Total Depth (ft-bmp) 30.9' Water Column (ft) 6.7 Gallons in Well 1.09

MP Elevation - Pump Intake (ft-bmp) -2 Purge Method: low flow Sample Method low flow

Pump On/Off 1348 / Volumes Purged - Other bladder pump

Sample Time: Label 1410 mL Purge Start 1348 Purge End 1415 Gallons Purged 3400 Replicate/Code No. BD-1-RW-190911 Sampled by DJB

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min ±	Depth to Water (ft) -0.3	Gallons Purged	pH ± 0.1	Cond. (µmhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)(°F) ± 3%	Redox (mV) ± 10mV	Appearance						
											Color	Odor					
1353	5	200	24.25'	1000	7.22	0.578	366	1.44	7.96	147	Tan	None					
1356	8	200	24.26'	1600	7.21	0.518	247	1.09	7.72	146	Clear	None					
1359	11	200	24.22'	2200	7.20	0.519	182	0.87	7.57	146	Clear	None					
1402	14	200	24.26'	2800	7.19	0.520	155	0.79	7.58	144	Clear	None					
1405	17	200	24.24'	3400	7.17	0.521	139	0.73	7.57	144	Clear	None					
Stabilization Calculations (±)																	
Stabilization Criteria												± 0.1 pH	± 3%	± 10% or within 1 NTU	± 10%	± 3%	± 10 mV

(1) Turbidity < 60 NTU and ±10% or within 1 NTU of a previous reading when < 10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs - 45 EPA 8260	40 ml VOA	3	HCl
GRO - AK 101	40 ml VOA	3	HCl
DRO - AK 102	250 ml Amber Bottle	2	HCl

Comments

Well Casing Volumes	1" = 0.04	1.5" = 0.09	2" = 0.16	2.5" = 0.26	3" = 0.37	3.5" = 0.60	4" = 0.85	5" = 1.47
Gallons/Foot	1.25" = 0.06							

Well Information

Well Location: _____ Well Locked at Arrival: Yes / No

Condition of Well: Good Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: 3910

Chevron



GROUNDWATER SAMPLING FORM

Project No. 97324 Well ID MW-2R Page 1 of 1
 Date 9.11.19
 Project Name/Location 4417 Lake Otis Hwy, Anchorage, AK Weather 50's, Partly Cloudy
 Measuring Pt. Description Top of casing Screen Setting (ft-bmp) - Casing Diameter (in.) 2 Well Material PVC SS
 Static Water Level (ft-bmp) 24.93' Total Depth (ft-bmp) 31.3' Water Column (ft) 6.4 Gallons in Well 1.02
 MP Elevation - Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Sample Method Low Flow
 Pump On/Off 1435 / 1505 Volumes Purged - Centrifugal - Submersible - Other Bladder Pump
 Sample Time: Label 1500 mL Gallons Purged 3400 Replicate/Code No. - Sampled by DR
 Purge Start 1435 Purge End 1453

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ± 0.1	Cond. (µmhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (C)(F) ± 3%	Redox (mV) ± 10mV	Appearance						
											Color	Odor					
1440	5	200	24.98'	1000	7.33	0.884	55.0	1.04	8.59	112	Clear	None					
1443	8	200	24.95'	1600	7.37	0.892	25.9	0.70	8.13	107	Clear	None					
1446	11	200	24.97'	2200	7.37	0.897	18.6	0.54	7.96	104	Clear	None					
1449	14	200	24.96'	2800	7.39	0.899	17.4	0.48	7.92	102	Clear	None					
1453	17	200	24.98'	3400	7.40	0.899	17.2	0.44	7.90	99	Clear	None					
Stabilization Calculations (±)																	
Stabilization Criteria												± 0.1 pH	± 3%	± 10% or within 1 NTU (U)	± 10%	± 3%	± 10 mV

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when < 10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs - 45 EPA 8260	40 ml VOA	3	HCl
GRO - AK 101	40 ml VOA	3	HCl
DRO - AK 102	250 ml Amber Bottle	2	HCl
PAH - 45 EPA 8270	250 ml Amber Bottle	2	None

Comments

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.85	

Well Information

Well Location: _____ Well Locked at Arrival: Yes / No
 Condition of Well: Good Well Locked at Departure: Yes / No
 Well Completion: Flush Mount / Stick Up Key Number To Well: 3910

Chevron



GROUNDWATER SAMPLING FORM

Project No. 97324 Well ID Mk-9 Page 1 of 1
 Date 9.11.19
 Project Name/Location 4417^{1/2} Perry Lake Otis Anchorage Ak Weather 50% Partly Cloudy
 Measuring Pt. Description Top of casing Screen Setting (ft-bmp) - Casing Diameter (in.) 2 Well Material PVC SS
 Static Water Level (ft-bmp) 15.87' Total Depth (ft-bmp) 19.3' Water Column (ft) 3.43 Gallons in Well 0.55
 MP Elevation - Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Sample Method low
 Pump On/Off 33¹⁵³⁶/ Volumes Purged - Centrifugal - Submersible - Other Roller Pump
 Sample Time: Label 1610 ml Gallons Purged 3400 Replicate/Code No. - Sampled by DR
 Purge Start 1536
 Purge End 1553

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ± 0.1	Cond. (µmhos)(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (C)(F) ± 3%	Redox (mV) ± 10mV	Appearance						
											Color	Odor					
1541	5	200	15.94'	1000	6.96	0.327	9.1	7.70	7.09	137	Clear	None					
1544	8	200	15.97'	1600	6.95	0.327	4.5	7.25	7.00	138	Clear	None					
1547	11	200	15.92	2200	6.90	0.328	3.2	6.59	6.89	140	Clear	None					
1550	14	200	15.96'	2800	6.88	0.328	2.5	6.17	6.86	142	Clear	None					
1553	17	200	15.93	3400	6.85	0.328	2.1	6.11	6.86	146	Clear	None					
Stabilization Calculations (±)																	
Stabilization Criteria												± 0.1 pH	± 3%	± 10% or within 1 NTU	± 10%	± 3%	± 10 mV

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs - 45 EPA 8260	40 mL VOA	3	HCl
GRO - AK 101	40 mL VOA	3	HCl
DRO - AK 102	250 mL Amber Glass	2	HCl

Comments

Well Casing Volumes	1" = 0.04	1.5" = 0.09	2" = 0.16	2.5" = 0.26	3" = 0.37	3.5" = 0.50	4" = 0.65	6" = 1.47
Gallons/Foot	1.25" = 0.06							

Well Information

Well Location: _____ Well Locked at Arrival: Yes / No
 Condition of Well: Good Well Locked at Departure: Yes / No
 Well Completion: Flush Mount Stick Up Key Number To Well: 3910

Regulatory Program: DW NPDES RCRA Other:

Client Contact
 Company Name: *Arads*
 Address: *1111 SW Columbia St Suite 670*
 City/State/Zip: *Portland OR 97201*
 Phone: *503-220-8201*
 Fax:
 Project Name: *Chorus 17324*
 Site: *4417 Lake Olesky Parkway Anchorage AK*
 PO #: *30010566*

Project Manager: *Nicole Marice*
 Tel/Fax: *503-785-7414*
 Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
 TAT if different from Below *Standard*
 2 weeks
 1 week
 2 days
 1 day

Site Contact: *David Brandon* **Date:** *9.11.19*
Lab Contact: *Andrew P. Lab* **Carrier:**

COC No: *249b76* of *1* COCs
 Sampler: *DR*
 For Lab Use Only:
 Walk-in Client:
 Lab Sampling:
 Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)		Perform MS / MSD (Y/N)		Sample Specific Notes:
						Y	N	Y	N	
<i>EQB-1-W-190911</i>	<i>9.11.19</i>	<i>1230</i>	<i>G</i>	<i>W</i>	<i>10</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>VOC 4260</i>
<i>MW-8RR-W-190911</i>	<i>9.11.19</i>	<i>1310</i>	<i>G</i>	<i>W</i>	<i>10</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>PAH 8270</i>
<i>MW-1R-W-190911</i>	<i>9.11.19</i>	<i>1410</i>	<i>G</i>	<i>W</i>	<i>10</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>EDR TCF 12.3 800</i>
<i>MW-2R-W-190911</i>	<i>9.11.19</i>	<i>1500</i>	<i>G</i>	<i>W</i>	<i>12</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>MW-9-W-190911</i>	<i>9.11.19</i>	<i>1610</i>	<i>G</i>	<i>W</i>	<i>10</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>BD-1-W-190911</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>W</i>	<i>5</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>Trip Blank</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>W</i>	<i>5</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification: Please List any EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:
Type III Dash Packaging

Custody Seal No.: _____
 Relinquished by: *[Signature]* Yes No
 Relinquished by: _____
 Relinquished by: _____

Cooler Temp. (°C): Obs'd: *9.7* Cor'd: *9.7* Them ID No.: _____
 Received by: *Arads* Date/Time: *9.12.19 0900* Company: *Arads*
 Received by: *[Signature]* Date/Time: *9.17.19 9:00* Company: *TA-AK*
 Received in Laboratory by: _____ Date/Time: _____ Company: _____

APPENDIX C

Laboratory Analytical Reports



ANALYTICAL REPORT

Job Number: 580-89096-1

Job Description: Chevron Site 97324 Anchorage, Alaska

For:
ARCADIS U.S. Inc
111 SW Columbia Street
Suite 670
Portland, OR 97201
Attention: Daniel Morel



Approved for release.
Kristine D Allen
Manager of Project Management
9/30/2019 2:41 PM

Designee for
Elaine M Walker, Project Manager II
5755 8th Street East, Tacoma, WA, 98424
(253)248-4972
elaine.walker@testamericainc.com
09/30/2019

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The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted in the case narrative.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Eurofins TestAmerica, Seattle
5755 8th Street East, Tacoma, WA 98424

Tel (253) 922-2310 Fax (253) 922-5047 www.testamericainc.com

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: ARCADIS U.S. Inc
Project: Chevron Site 97324 Anchorage, Alaska
Report Number: 580-89096-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 09/12/2019; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.7 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples EQB-1-W-190911 (580-89096-1), MW-8RR-W-190911 (580-89096-2), MW-1R-W-190911 (580-89096-3), MW-2R-W-190911 (580-89096-4), MW-9-W-190911 (580-89096-5), BD-1-W-190911 (580-89096-6) and Trip Blank (580-89096-7) were analyzed for volatile organic compounds (GC-MS) in accordance with 8260C. The samples were analyzed on 09/25/2019.

The CCV for analytical batch 580-312211 recovered outside control limits for the following analyte(s): Acetone, Chloroethane, Chloromethane, Dichlorodifluoromethane, and Trichlorofluoromethane. Acetone, Chloroethane, Chloromethane, Dichlorodifluoromethane, and Trichlorofluoromethane have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

1,3-Dichlorobenzene failed the recovery criteria low for LCSD 580-312211/4. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

1,2,4-Trichlorobenzene, 4-Chlorotoluene, Bromobenzene and N-Propylbenzene exceeded the RPD limit. The individual recoveries of both the LCS and LCSD met the acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOLATILE ORGANIC COMPOUNDS (GC-MS SIM)

Samples EQB-1-W-190911 (580-89096-1), MW-8RR-W-190911 (580-89096-2), MW-1R-W-190911 (580-89096-3), MW-2R-W-190911 (580-89096-4), MW-9-W-190911 (580-89096-5), BD-1-W-190911 (580-89096-6) and Trip Blank (580-89096-7) were analyzed for volatile organic compounds (GC-MS SIM) in accordance with 8260C SIM. The samples were analyzed on 09/22/2019, 09/23/2019 and 09/24/2019.

Sample MW-9-W-190911 (580-89096-5)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Hexachlorobutadiene and Naphthalene were detected in method blank MB 580-311960/7 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

1,1,2,2-Tetrachloroethane and Naphthalene exceeded the RPD limit for LCSD 580-311960/5. The individual recoveries of both the LCS and LCSD met the acceptance criteria.

Naphthalene was detected in method blank MB 580-312081/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

1,1,1,2-Tetrachloroethane and Bromomethane exceeded the RPD limit for LCSD 580-312081/5. The individual recoveries of both the LCS and LCSD met the acceptance criteria.

The continuing calibration verification (CCV) associated with batch 580-312081 recovered outside acceptance criteria, low biased, for Butadiene and Vinyl Chloride. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-312081 was outside criteria for the following analyte(s): Tetrachloroethene and Trichloroethene. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS - SELECTED ION MODE (SIM)

Sample MW-2R-W-190911 (580-89096-4) was analyzed for semivolatile organic compounds - Selected Ion Mode (SIM) in accordance with EPA SW-846 Method 8270D SIM. The samples were prepared on 09/18/2019 and analyzed on 09/19/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GASOLINE RANGE ORGANICS

Samples EQB-1-W-190911 (580-89096-1), MW-8RR-W-190911 (580-89096-2), MW-1R-W-190911 (580-89096-3), MW-2R-W-190911 (580-89096-4), MW-9-W-190911 (580-89096-5), BD-1-W-190911 (580-89096-6) and Trip Blank (580-89096-7) were analyzed for gasoline range organics in accordance with State of Alaska Method AK101. The samples were analyzed on 09/17/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

1,2-DIBROMOETHANE AND 1,2-DIBROMO-3-CHLOROPROPANE BY MICROEXTRACTION AND GAS CHROMATOGRAPHY

Samples EQB-1-W-190911 (580-89096-1), MW-8RR-W-190911 (580-89096-2), MW-1R-W-190911 (580-89096-3), MW-2R-W-190911 (580-89096-4), MW-9-W-190911 (580-89096-5), BD-1-W-190911 (580-89096-6) and Trip Blank (580-89096-7) were analyzed for 1,2-dibromoethane and 1,2-dibromo-3-chloropropane by microextraction and gas chromatography in accordance with EPA SW-846 Method 8011. The samples were prepared on 09/25/2019 and analyzed on 09/26/2019.

1,2-Dibromopropane failed the surrogate recovery criteria high for BD-1-W-190911 (580-89096-6). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DIESEL AND RESIDUAL RANGE ORGANICS

Samples EQB-1-W-190911 (580-89096-1), MW-8RR-W-190911 (580-89096-2), MW-1R-W-190911 (580-89096-3), MW-2R-W-190911 (580-89096-4), MW-9-W-190911 (580-89096-5) and BD-1-W-190911 (580-89096-6) were analyzed for diesel and residual range organics in accordance with State of Alaska Method AK102 and AK103. The samples were prepared on 09/24/2019 and analyzed on 09/25/2019.

The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: MW-8RR-W-190911 (580-89096-2), MW-1R-W-190911 (580-89096-3), MW-2R-W-190911 (580-89096-4) and BD-1-W-190911 (580-89096-6).

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: EQB-1-W-190911

Lab Sample ID: 580-89096-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.054	J	0.50	0.024	ug/L	1		8260C SIM	Total/NA
Benzene	0.013	J	0.50	0.0090	ug/L	1		8260C SIM	Total/NA
Chloroform	0.095	J	0.50	0.0090	ug/L	1		8260C SIM	Total/NA
Naphthalene	0.030	J * B	0.50	0.013	ug/L	1		8260C SIM	Total/NA
Toluene	1.1	J	2.0	0.39	ug/L	1		8260C	Total/NA

Client Sample ID: MW-8RR-W-190911

Lab Sample ID: 580-89096-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dibromoethane	0.014	J	0.50	0.014	ug/L	1		8260C SIM	Total/NA
1,2-Dichloroethane	0.79		0.50	0.024	ug/L	1		8260C SIM	Total/NA
Benzene	0.047	J	0.50	0.0090	ug/L	1		8260C SIM	Total/NA
Chloroform	0.0099	J	0.50	0.0090	ug/L	1		8260C SIM	Total/NA
Naphthalene	0.023	J * B	0.50	0.013	ug/L	1		8260C SIM	Total/NA
Tetrachloroethene	1.8		0.50	0.017	ug/L	1		8260C SIM	Total/NA
Trichloroethene	0.057	J	0.50	0.0090	ug/L	1		8260C SIM	Total/NA
DRO (nC10-<nC25)	0.16		0.11	0.077	mg/L	1		AK102 & 103	Total/NA

Client Sample ID: MW-1R-W-190911

Lab Sample ID: 580-89096-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.4		0.50	0.024	ug/L	1		8260C SIM	Total/NA
Benzene	2.2		0.50	0.0090	ug/L	1		8260C SIM	Total/NA
Naphthalene	0.026	J * B	0.50	0.013	ug/L	1		8260C SIM	Total/NA
Tetrachloroethene	0.13	J	0.50	0.017	ug/L	1		8260C SIM	Total/NA
DRO (nC10-<nC25)	0.16		0.11	0.076	mg/L	1		AK102 & 103	Total/NA

Client Sample ID: MW-2R-W-190911

Lab Sample ID: 580-89096-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	6.0		0.50	0.024	ug/L	1		8260C SIM	Total/NA
Benzene	5.0		0.50	0.0090	ug/L	1		8260C SIM	Total/NA
Naphthalene	6.2	* B	0.50	0.013	ug/L	1		8260C SIM	Total/NA
Tetrachloroethene	0.37	J	0.50	0.017	ug/L	1		8260C SIM	Total/NA
Trichloroethene	0.11	J	0.50	0.0090	ug/L	1		8260C SIM	Total/NA
Ethylbenzene	16		3.0	0.50	ug/L	1		8260C	Total/NA
Isopropylbenzene	10		2.0	0.51	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.0	J	3.0	0.75	ug/L	1		8260C	Total/NA
n-Butylbenzene	1.2	J	3.0	0.44	ug/L	1		8260C	Total/NA
N-Propylbenzene	15	*	3.0	0.50	ug/L	1		8260C	Total/NA
sec-Butylbenzene	4.6		3.0	0.49	ug/L	1		8260C	Total/NA
t-Butylbenzene	7.9		3.0	0.58	ug/L	1		8260C	Total/NA
1-Methylnaphthalene	0.17		0.11	0.020	ug/L	1		8270D SIM	Total/NA
2-Methylnaphthalene	0.058	J	0.21	0.041	ug/L	1		8270D SIM	Total/NA
Naphthalene	1.8		0.11	0.033	ug/L	1		8270D SIM	Total/NA
Gasoline Range Organics (GRO) -C6-C10	0.25		0.25	0.10	mg/L	1		AK101	Total/NA
DRO (nC10-<nC25)	0.67		0.11	0.078	mg/L	1		AK102 & 103	Total/NA

Client Sample ID: MW-9-W-190911

Lab Sample ID: 580-89096-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.036	J	0.50	0.014	ug/L	1		8260C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: MW-9-W-190911 (Continued)

Lab Sample ID: 580-89096-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	0.029	J	0.50	0.014	ug/L	1	1	8260C SIM	Total/NA
Benzene	0.016	J	0.50	0.0090	ug/L	1	1	8260C SIM	Total/NA
Chloroform	0.030	J	0.50	0.0090	ug/L	1	1	8260C SIM	Total/NA
Naphthalene	0.32	J * B	0.50	0.013	ug/L	1	1	8260C SIM	Total/NA
Trichloroethene	22		0.50	0.0090	ug/L	1	1	8260C SIM	Total/NA
Vinyl chloride	0.17	J	0.50	0.013	ug/L	1	1	8260C SIM	Total/NA
Tetrachloroethene - DL	68		2.5	0.085	ug/L	5	1	8260C SIM	Total/NA
cis-1,2-Dichloroethene	58		3.0	0.69	ug/L	1	1	8260C	Total/NA

Client Sample ID: BD-1-W-190911

Lab Sample ID: 580-89096-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.77		0.50	0.024	ug/L	1	1	8260C SIM	Total/NA
Benzene	0.042	J	0.50	0.0090	ug/L	1	1	8260C SIM	Total/NA
Naphthalene	0.10	J * B	0.50	0.013	ug/L	1	1	8260C SIM	Total/NA
Trichloroethene	0.070	J	0.50	0.0090	ug/L	1	1	8260C SIM	Total/NA
Tetrachloroethene - RA	1.7		0.50	0.017	ug/L	1	1	8260C SIM	Total/NA
DRO (nC10-<nC25)	0.16		0.11	0.076	mg/L	1	1	AK102 & 103	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 580-89096-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	0.014	J	0.50	0.014	ug/L	1	1	8260C SIM	Total/NA
Hexachlorobutadiene	0.032	J B	0.50	0.026	ug/L	1	1	8260C SIM	Total/NA
Naphthalene	0.095	J * B	0.50	0.013	ug/L	1	1	8260C SIM	Total/NA
Tetrachloroethene	0.020	J	0.50	0.017	ug/L	1	1	8260C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: EQB-1-W-190911

Lab Sample ID: 580-89096-1

Date Collected: 09/11/19 12:30

Matrix: Water

Date Received: 09/12/19 09:00

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.0090	ug/L			09/22/19 23:28	1
1,1,2,2-Tetrachloroethane	ND	*	0.50	0.049	ug/L			09/22/19 23:28	1
1,1,2-Trichloroethane	ND		0.50	0.017	ug/L			09/22/19 23:28	1
1,1-Dichloroethene	ND		0.50	0.014	ug/L			09/22/19 23:28	1
1,2-Dibromoethane	ND		0.50	0.014	ug/L			09/22/19 23:28	1
1,2-Dichloroethane	0.054	J	0.50	0.024	ug/L			09/22/19 23:28	1
1,4-Dichlorobenzene	ND		0.50	0.014	ug/L			09/22/19 23:28	1
Benzene	0.013	J	0.50	0.0090	ug/L			09/22/19 23:28	1
Bromodichloromethane	ND		0.50	0.0060	ug/L			09/22/19 23:28	1
Bromoform	ND		0.50	0.013	ug/L			09/22/19 23:28	1
Bromomethane	ND		0.50	0.012	ug/L			09/22/19 23:28	1
Chloroform	0.095	J	0.50	0.0090	ug/L			09/22/19 23:28	1
cis-1,3-Dichloropropene	ND		0.50	0.026	ug/L			09/22/19 23:28	1
Dibromochloromethane	ND		0.50	0.016	ug/L			09/22/19 23:28	1
Dibromomethane	ND		0.50	0.017	ug/L			09/22/19 23:28	1
Hexachlorobutadiene	ND		0.50	0.026	ug/L			09/22/19 23:28	1
Naphthalene	0.030	J * B	0.50	0.013	ug/L			09/22/19 23:28	1
Tetrachloroethene	ND		0.50	0.017	ug/L			09/22/19 23:28	1
trans-1,3-Dichloropropene	ND		0.50	0.027	ug/L			09/22/19 23:28	1
Trichloroethene	ND		0.50	0.0090	ug/L			09/22/19 23:28	1
Vinyl chloride	ND		0.50	0.013	ug/L			09/22/19 23:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		48 - 150		09/22/19 23:28	1
4-Bromofluorobenzene (Surr)	96		75 - 120		09/22/19 23:28	1
Dibromofluoromethane (Surr)	97		80 - 120		09/22/19 23:28	1
Toluene-d8 (Surr)	103		75 - 120		09/22/19 23:28	1
Trifluorotoluene (Surr)	100		80 - 120		09/22/19 23:28	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			09/25/19 03:53	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			09/25/19 03:53	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			09/25/19 03:53	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			09/25/19 03:53	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			09/25/19 03:53	1
1,2,4-Trichlorobenzene	ND	*	2.0	0.33	ug/L			09/25/19 03:53	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/25/19 03:53	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			09/25/19 03:53	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			09/25/19 03:53	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/25/19 03:53	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			09/25/19 03:53	1
1,3-Dichlorobenzene	ND	*	2.0	0.18	ug/L			09/25/19 03:53	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			09/25/19 03:53	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			09/25/19 03:53	1
2-Butanone	ND		20	4.7	ug/L			09/25/19 03:53	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			09/25/19 03:53	1
4-Chlorotoluene	ND	*	2.0	0.51	ug/L			09/25/19 03:53	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			09/25/19 03:53	1
4-Methyl-2-pentanone	ND		15	2.5	ug/L			09/25/19 03:53	1

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: EQB-1-W-190911

Lab Sample ID: 580-89096-1

Date Collected: 09/11/19 12:30

Matrix: Water

Date Received: 09/12/19 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50	7.8	ug/L			09/25/19 03:53	1
Bromobenzene	ND	*	2.0	0.43	ug/L			09/25/19 03:53	1
Bromochloromethane	ND		2.0	0.29	ug/L			09/25/19 03:53	1
Carbon disulfide	ND		3.0	0.53	ug/L			09/25/19 03:53	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			09/25/19 03:53	1
Chlorobenzene	ND		2.0	0.44	ug/L			09/25/19 03:53	1
Chloroethane	ND		5.0	1.1	ug/L			09/25/19 03:53	1
Chloromethane	ND		20	5.4	ug/L			09/25/19 03:53	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			09/25/19 03:53	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			09/25/19 03:53	1
Ethylbenzene	ND		3.0	0.50	ug/L			09/25/19 03:53	1
Isopropylbenzene	ND		2.0	0.51	ug/L			09/25/19 03:53	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			09/25/19 03:53	1
Methylene Chloride	ND		5.0	1.4	ug/L			09/25/19 03:53	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			09/25/19 03:53	1
n-Butylbenzene	ND		3.0	0.44	ug/L			09/25/19 03:53	1
N-Propylbenzene	ND	*	3.0	0.50	ug/L			09/25/19 03:53	1
o-Xylene	ND		2.0	0.39	ug/L			09/25/19 03:53	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			09/25/19 03:53	1
Styrene	ND		5.0	1.0	ug/L			09/25/19 03:53	1
t-Butylbenzene	ND		3.0	0.58	ug/L			09/25/19 03:53	1
Toluene	1.1	J	2.0	0.39	ug/L			09/25/19 03:53	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			09/25/19 03:53	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			09/25/19 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 126		09/25/19 03:53	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/25/19 03:53	1
Dibromofluoromethane (Surr)	100		80 - 120		09/25/19 03:53	1
Toluene-d8 (Surr)	103		80 - 120		09/25/19 03:53	1
Trifluorotoluene (Surr)	100		80 - 120		09/25/19 03:53	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/17/19 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	94		50 - 150		09/17/19 17:45	1
4-Bromofluorobenzene (Surr)	98		50 - 150		09/17/19 17:45	1

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.029	0.0078	ug/L		09/25/19 20:09	09/26/19 17:54	1
Ethylene Dibromide	ND		0.0097	0.0019	ug/L		09/25/19 20:09	09/26/19 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	111		60 - 140	09/25/19 20:09	09/26/19 17:54	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: EQB-1-W-190911

Lab Sample ID: 580-89096-1

Date Collected: 09/11/19 12:30

Matrix: Water

Date Received: 09/12/19 09:00

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		0.11	0.076	mg/L		09/24/19 16:14	09/25/19 15:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	72		50 - 150				09/24/19 16:14	09/25/19 15:27	1

Client Sample ID: MW-8RR-W-190911

Lab Sample ID: 580-89096-2

Date Collected: 09/11/19 13:10

Matrix: Water

Date Received: 09/12/19 09:00

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.0090	ug/L			09/22/19 23:54	1
1,1,2,2-Tetrachloroethane	ND	*	0.50	0.049	ug/L			09/22/19 23:54	1
1,1,2-Trichloroethane	ND		0.50	0.017	ug/L			09/22/19 23:54	1
1,1-Dichloroethene	ND		0.50	0.014	ug/L			09/22/19 23:54	1
1,2-Dibromoethane	0.014	J	0.50	0.014	ug/L			09/22/19 23:54	1
1,2-Dichloroethane	0.79		0.50	0.024	ug/L			09/22/19 23:54	1
1,4-Dichlorobenzene	ND		0.50	0.014	ug/L			09/22/19 23:54	1
Benzene	0.047	J	0.50	0.0090	ug/L			09/22/19 23:54	1
Bromodichloromethane	ND		0.50	0.0060	ug/L			09/22/19 23:54	1
Bromoform	ND		0.50	0.013	ug/L			09/22/19 23:54	1
Bromomethane	ND		0.50	0.012	ug/L			09/22/19 23:54	1
Chloroform	0.0099	J	0.50	0.0090	ug/L			09/22/19 23:54	1
cis-1,3-Dichloropropene	ND		0.50	0.026	ug/L			09/22/19 23:54	1
Dibromochloromethane	ND		0.50	0.016	ug/L			09/22/19 23:54	1
Dibromomethane	ND		0.50	0.017	ug/L			09/22/19 23:54	1
Hexachlorobutadiene	ND		0.50	0.026	ug/L			09/22/19 23:54	1
Naphthalene	0.023	J * B	0.50	0.013	ug/L			09/22/19 23:54	1
Tetrachloroethene	1.8		0.50	0.017	ug/L			09/22/19 23:54	1
trans-1,3-Dichloropropene	ND		0.50	0.027	ug/L			09/22/19 23:54	1
Trichloroethene	0.057	J	0.50	0.0090	ug/L			09/22/19 23:54	1
Vinyl chloride	ND		0.50	0.013	ug/L			09/22/19 23:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	103		48 - 150					09/22/19 23:54	1
<i>4-Bromofluorobenzene (Surr)</i>	102		75 - 120					09/22/19 23:54	1
<i>Dibromofluoromethane (Surr)</i>	100		80 - 120					09/22/19 23:54	1
<i>Toluene-d8 (Surr)</i>	101		75 - 120					09/22/19 23:54	1
<i>Trifluorotoluene (Surr)</i>	98		80 - 120					09/22/19 23:54	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			09/25/19 04:18	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			09/25/19 04:18	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			09/25/19 04:18	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			09/25/19 04:18	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			09/25/19 04:18	1
1,2,4-Trichlorobenzene	ND	*	2.0	0.33	ug/L			09/25/19 04:18	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/25/19 04:18	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			09/25/19 04:18	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			09/25/19 04:18	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: MW-8RR-W-190911

Lab Sample ID: 580-89096-2

Date Collected: 09/11/19 13:10

Matrix: Water

Date Received: 09/12/19 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/25/19 04:18	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			09/25/19 04:18	1
1,3-Dichlorobenzene	ND	*	2.0	0.18	ug/L			09/25/19 04:18	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			09/25/19 04:18	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			09/25/19 04:18	1
2-Butanone	ND		20	4.7	ug/L			09/25/19 04:18	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			09/25/19 04:18	1
4-Chlorotoluene	ND	*	2.0	0.51	ug/L			09/25/19 04:18	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			09/25/19 04:18	1
4-Methyl-2-pentanone	ND		15	2.5	ug/L			09/25/19 04:18	1
Acetone	ND		50	7.8	ug/L			09/25/19 04:18	1
Bromobenzene	ND	*	2.0	0.43	ug/L			09/25/19 04:18	1
Bromochloromethane	ND		2.0	0.29	ug/L			09/25/19 04:18	1
Carbon disulfide	ND		3.0	0.53	ug/L			09/25/19 04:18	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			09/25/19 04:18	1
Chlorobenzene	ND		2.0	0.44	ug/L			09/25/19 04:18	1
Chloroethane	ND		5.0	1.1	ug/L			09/25/19 04:18	1
Chloromethane	ND		20	5.4	ug/L			09/25/19 04:18	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			09/25/19 04:18	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			09/25/19 04:18	1
Ethylbenzene	ND		3.0	0.50	ug/L			09/25/19 04:18	1
Isopropylbenzene	ND		2.0	0.51	ug/L			09/25/19 04:18	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			09/25/19 04:18	1
Methylene Chloride	ND		5.0	1.4	ug/L			09/25/19 04:18	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			09/25/19 04:18	1
n-Butylbenzene	ND		3.0	0.44	ug/L			09/25/19 04:18	1
N-Propylbenzene	ND	*	3.0	0.50	ug/L			09/25/19 04:18	1
o-Xylene	ND		2.0	0.39	ug/L			09/25/19 04:18	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			09/25/19 04:18	1
Styrene	ND		5.0	1.0	ug/L			09/25/19 04:18	1
t-Butylbenzene	ND		3.0	0.58	ug/L			09/25/19 04:18	1
Toluene	ND		2.0	0.39	ug/L			09/25/19 04:18	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			09/25/19 04:18	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			09/25/19 04:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 126		09/25/19 04:18	1
4-Bromofluorobenzene (Surr)	100		80 - 120		09/25/19 04:18	1
Dibromofluoromethane (Surr)	96		80 - 120		09/25/19 04:18	1
Toluene-d8 (Surr)	103		80 - 120		09/25/19 04:18	1
Trifluorotoluene (Surr)	101		80 - 120		09/25/19 04:18	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/17/19 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	100		50 - 150		09/17/19 19:16	1
4-Bromofluorobenzene (Surr)	92		50 - 150		09/17/19 19:16	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: MW-8RR-W-190911

Lab Sample ID: 580-89096-2

Date Collected: 09/11/19 13:10

Matrix: Water

Date Received: 09/12/19 09:00

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.029	0.0077	ug/L		09/25/19 20:09	09/26/19 18:10	1
Ethylene Dibromide	ND		0.0097	0.0019	ug/L		09/25/19 20:09	09/26/19 18:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	94		60 - 140				09/25/19 20:09	09/26/19 18:10	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.16		0.11	0.077	mg/L		09/24/19 16:14	09/25/19 15:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150				09/24/19 16:14	09/25/19 15:50	1

Client Sample ID: MW-1R-W-190911

Lab Sample ID: 580-89096-3

Date Collected: 09/11/19 14:10

Matrix: Water

Date Received: 09/12/19 09:00

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.0090	ug/L			09/23/19 00:20	1
1,1,2,2-Tetrachloroethane	ND	*	0.50	0.049	ug/L			09/23/19 00:20	1
1,1,2-Trichloroethane	ND		0.50	0.017	ug/L			09/23/19 00:20	1
1,1-Dichloroethene	ND		0.50	0.014	ug/L			09/23/19 00:20	1
1,2-Dibromoethane	ND		0.50	0.014	ug/L			09/23/19 00:20	1
1,2-Dichloroethane	1.4		0.50	0.024	ug/L			09/23/19 00:20	1
1,4-Dichlorobenzene	ND		0.50	0.014	ug/L			09/23/19 00:20	1
Benzene	2.2		0.50	0.0090	ug/L			09/23/19 00:20	1
Bromodichloromethane	ND		0.50	0.0060	ug/L			09/23/19 00:20	1
Bromoform	ND		0.50	0.013	ug/L			09/23/19 00:20	1
Bromomethane	ND		0.50	0.012	ug/L			09/23/19 00:20	1
Chloroform	ND		0.50	0.0090	ug/L			09/23/19 00:20	1
cis-1,3-Dichloropropene	ND		0.50	0.026	ug/L			09/23/19 00:20	1
Dibromochloromethane	ND		0.50	0.016	ug/L			09/23/19 00:20	1
Dibromomethane	ND		0.50	0.017	ug/L			09/23/19 00:20	1
Hexachlorobutadiene	ND		0.50	0.026	ug/L			09/23/19 00:20	1
Naphthalene	0.026	J * B	0.50	0.013	ug/L			09/23/19 00:20	1
Tetrachloroethene	0.13	J	0.50	0.017	ug/L			09/23/19 00:20	1
trans-1,3-Dichloropropene	ND		0.50	0.027	ug/L			09/23/19 00:20	1
Trichloroethene	ND		0.50	0.0090	ug/L			09/23/19 00:20	1
Vinyl chloride	ND		0.50	0.013	ug/L			09/23/19 00:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		48 - 150					09/23/19 00:20	1
4-Bromofluorobenzene (Surr)	99		75 - 120					09/23/19 00:20	1
Dibromofluoromethane (Surr)	99		80 - 120					09/23/19 00:20	1
Toluene-d8 (Surr)	102		75 - 120					09/23/19 00:20	1
Trifluorotoluene (Surr)	97		80 - 120					09/23/19 00:20	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			09/25/19 04:43	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: MW-1R-W-190911

Lab Sample ID: 580-89096-3

Date Collected: 09/11/19 14:10

Matrix: Water

Date Received: 09/12/19 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		2.0	0.22	ug/L			09/25/19 04:43	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			09/25/19 04:43	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			09/25/19 04:43	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			09/25/19 04:43	1
1,2,4-Trichlorobenzene	ND	*	2.0	0.33	ug/L			09/25/19 04:43	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/25/19 04:43	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			09/25/19 04:43	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			09/25/19 04:43	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/25/19 04:43	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			09/25/19 04:43	1
1,3-Dichlorobenzene	ND	*	2.0	0.18	ug/L			09/25/19 04:43	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			09/25/19 04:43	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			09/25/19 04:43	1
2-Butanone	ND		20	4.7	ug/L			09/25/19 04:43	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			09/25/19 04:43	1
4-Chlorotoluene	ND	*	2.0	0.51	ug/L			09/25/19 04:43	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			09/25/19 04:43	1
4-Methyl-2-pentanone	ND		15	2.5	ug/L			09/25/19 04:43	1
Acetone	ND		50	7.8	ug/L			09/25/19 04:43	1
Bromobenzene	ND	*	2.0	0.43	ug/L			09/25/19 04:43	1
Bromochloromethane	ND		2.0	0.29	ug/L			09/25/19 04:43	1
Carbon disulfide	ND		3.0	0.53	ug/L			09/25/19 04:43	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			09/25/19 04:43	1
Chlorobenzene	ND		2.0	0.44	ug/L			09/25/19 04:43	1
Chloroethane	ND		5.0	1.1	ug/L			09/25/19 04:43	1
Chloromethane	ND		20	5.4	ug/L			09/25/19 04:43	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			09/25/19 04:43	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			09/25/19 04:43	1
Ethylbenzene	ND		3.0	0.50	ug/L			09/25/19 04:43	1
Isopropylbenzene	ND		2.0	0.51	ug/L			09/25/19 04:43	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			09/25/19 04:43	1
Methylene Chloride	ND		5.0	1.4	ug/L			09/25/19 04:43	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			09/25/19 04:43	1
n-Butylbenzene	ND		3.0	0.44	ug/L			09/25/19 04:43	1
N-Propylbenzene	ND	*	3.0	0.50	ug/L			09/25/19 04:43	1
o-Xylene	ND		2.0	0.39	ug/L			09/25/19 04:43	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			09/25/19 04:43	1
Styrene	ND		5.0	1.0	ug/L			09/25/19 04:43	1
t-Butylbenzene	ND		3.0	0.58	ug/L			09/25/19 04:43	1
Toluene	ND		2.0	0.39	ug/L			09/25/19 04:43	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			09/25/19 04:43	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			09/25/19 04:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 126		09/25/19 04:43	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/25/19 04:43	1
Dibromofluoromethane (Surr)	99		80 - 120		09/25/19 04:43	1
Toluene-d8 (Surr)	102		80 - 120		09/25/19 04:43	1
Trifluorotoluene (Surr)	100		80 - 120		09/25/19 04:43	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: MW-1R-W-190911

Lab Sample ID: 580-89096-3

Date Collected: 09/11/19 14:10

Matrix: Water

Date Received: 09/12/19 09:00

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/17/19 19:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	102		50 - 150					09/17/19 19:47	1
4-Bromofluorobenzene (Surr)	99		50 - 150					09/17/19 19:47	1

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.029	0.0077	ug/L		09/25/19 20:09	09/26/19 18:27	1
Ethylene Dibromide	ND		0.0096	0.0019	ug/L		09/25/19 20:09	09/26/19 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	109		60 - 140				09/25/19 20:09	09/26/19 18:27	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.16		0.11	0.076	mg/L		09/24/19 16:14	09/25/19 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	66		50 - 150				09/24/19 16:14	09/25/19 16:35	1

Client Sample ID: MW-2R-W-190911

Lab Sample ID: 580-89096-4

Date Collected: 09/11/19 15:00

Matrix: Water

Date Received: 09/12/19 09:00

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.0090	ug/L			09/23/19 00:46	1
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.049	ug/L			09/23/19 00:46	1
1,1,2-Trichloroethane	ND		0.50	0.017	ug/L			09/23/19 00:46	1
1,1-Dichloroethene	ND		0.50	0.014	ug/L			09/23/19 00:46	1
1,2-Dibromoethane	ND		0.50	0.014	ug/L			09/23/19 00:46	1
1,2-Dichloroethane	6.0		0.50	0.024	ug/L			09/23/19 00:46	1
1,4-Dichlorobenzene	ND		0.50	0.014	ug/L			09/23/19 00:46	1
Benzene	5.0		0.50	0.0090	ug/L			09/23/19 00:46	1
Bromodichloromethane	ND		0.50	0.0060	ug/L			09/23/19 00:46	1
Bromoform	ND		0.50	0.013	ug/L			09/23/19 00:46	1
Bromomethane	ND		0.50	0.012	ug/L			09/23/19 00:46	1
Chloroform	ND		0.50	0.0090	ug/L			09/23/19 00:46	1
cis-1,3-Dichloropropene	ND		0.50	0.026	ug/L			09/23/19 00:46	1
Dibromochloromethane	ND		0.50	0.016	ug/L			09/23/19 00:46	1
Dibromomethane	ND		0.50	0.017	ug/L			09/23/19 00:46	1
Hexachlorobutadiene	ND		0.50	0.026	ug/L			09/23/19 00:46	1
Naphthalene	6.2 * B		0.50	0.013	ug/L			09/23/19 00:46	1
Tetrachloroethene	0.37 J		0.50	0.017	ug/L			09/23/19 00:46	1
trans-1,3-Dichloropropene	ND		0.50	0.027	ug/L			09/23/19 00:46	1
Trichloroethene	0.11 J		0.50	0.0090	ug/L			09/23/19 00:46	1
Vinyl chloride	ND		0.50	0.013	ug/L			09/23/19 00:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		48 - 150					09/23/19 00:46	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: MW-2R-W-190911

Lab Sample ID: 580-89096-4

Date Collected: 09/11/19 15:00

Matrix: Water

Date Received: 09/12/19 09:00

Method: 8260C SIM - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		75 - 120		09/23/19 00:46	1
Dibromofluoromethane (Surr)	98		80 - 120		09/23/19 00:46	1
Toluene-d8 (Surr)	103		75 - 120		09/23/19 00:46	1
Trifluorotoluene (Surr)	98		80 - 120		09/23/19 00:46	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			09/25/19 05:08	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			09/25/19 05:08	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			09/25/19 05:08	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			09/25/19 05:08	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			09/25/19 05:08	1
1,2,4-Trichlorobenzene	ND	*	2.0	0.33	ug/L			09/25/19 05:08	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/25/19 05:08	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			09/25/19 05:08	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			09/25/19 05:08	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/25/19 05:08	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			09/25/19 05:08	1
1,3-Dichlorobenzene	ND	*	2.0	0.18	ug/L			09/25/19 05:08	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			09/25/19 05:08	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			09/25/19 05:08	1
2-Butanone	ND		20	4.7	ug/L			09/25/19 05:08	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			09/25/19 05:08	1
4-Chlorotoluene	ND	*	2.0	0.51	ug/L			09/25/19 05:08	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			09/25/19 05:08	1
4-Methyl-2-pentanone	ND		15	2.5	ug/L			09/25/19 05:08	1
Acetone	ND		50	7.8	ug/L			09/25/19 05:08	1
Bromobenzene	ND	*	2.0	0.43	ug/L			09/25/19 05:08	1
Bromochloromethane	ND		2.0	0.29	ug/L			09/25/19 05:08	1
Carbon disulfide	ND		3.0	0.53	ug/L			09/25/19 05:08	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			09/25/19 05:08	1
Chlorobenzene	ND		2.0	0.44	ug/L			09/25/19 05:08	1
Chloroethane	ND		5.0	1.1	ug/L			09/25/19 05:08	1
Chloromethane	ND		20	5.4	ug/L			09/25/19 05:08	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			09/25/19 05:08	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			09/25/19 05:08	1
Ethylbenzene	16		3.0	0.50	ug/L			09/25/19 05:08	1
Isopropylbenzene	10		2.0	0.51	ug/L			09/25/19 05:08	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			09/25/19 05:08	1
Methylene Chloride	ND		5.0	1.4	ug/L			09/25/19 05:08	1
m-Xylene & p-Xylene	2.0	J	3.0	0.75	ug/L			09/25/19 05:08	1
n-Butylbenzene	1.2	J	3.0	0.44	ug/L			09/25/19 05:08	1
N-Propylbenzene	15	*	3.0	0.50	ug/L			09/25/19 05:08	1
o-Xylene	ND		2.0	0.39	ug/L			09/25/19 05:08	1
sec-Butylbenzene	4.6		3.0	0.49	ug/L			09/25/19 05:08	1
Styrene	ND		5.0	1.0	ug/L			09/25/19 05:08	1
t-Butylbenzene	7.9		3.0	0.58	ug/L			09/25/19 05:08	1
Toluene	ND		2.0	0.39	ug/L			09/25/19 05:08	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			09/25/19 05:08	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: MW-2R-W-190911

Lab Sample ID: 580-89096-4

Date Collected: 09/11/19 15:00

Matrix: Water

Date Received: 09/12/19 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		3.0	0.63	ug/L			09/25/19 05:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 126		09/25/19 05:08	1
4-Bromofluorobenzene (Surr)	104		80 - 120		09/25/19 05:08	1
Dibromofluoromethane (Surr)	99		80 - 120		09/25/19 05:08	1
Toluene-d8 (Surr)	103		80 - 120		09/25/19 05:08	1
Trifluorotoluene (Surr)	102		80 - 120		09/25/19 05:08	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.17		0.11	0.020	ug/L		09/18/19 10:16	09/19/19 12:24	1
2-Methylnaphthalene	0.058	J	0.21	0.041	ug/L		09/18/19 10:16	09/19/19 12:24	1
Acenaphthene	ND		0.11	0.015	ug/L		09/18/19 10:16	09/19/19 12:24	1
Acenaphthylene	ND		0.053	0.0095	ug/L		09/18/19 10:16	09/19/19 12:24	1
Anthracene	ND		0.11	0.023	ug/L		09/18/19 10:16	09/19/19 12:24	1
Benzo[a]anthracene	ND		0.053	0.015	ug/L		09/18/19 10:16	09/19/19 12:24	1
Benzo[a]pyrene	ND		0.11	0.012	ug/L		09/18/19 10:16	09/19/19 12:24	1
Benzo[b]fluoranthene	ND		0.053	0.012	ug/L		09/18/19 10:16	09/19/19 12:24	1
Benzo[g,h,i]perylene	ND		0.053	0.013	ug/L		09/18/19 10:16	09/19/19 12:24	1
Benzo[k]fluoranthene	ND		0.053	0.013	ug/L		09/18/19 10:16	09/19/19 12:24	1
Chrysene	ND		0.11	0.017	ug/L		09/18/19 10:16	09/19/19 12:24	1
Dibenz(a,h)anthracene	ND		0.11	0.027	ug/L		09/18/19 10:16	09/19/19 12:24	1
Fluoranthene	ND		0.21	0.053	ug/L		09/18/19 10:16	09/19/19 12:24	1
Fluorene	ND		0.11	0.018	ug/L		09/18/19 10:16	09/19/19 12:24	1
Indeno[1,2,3-cd]pyrene	ND		0.053	0.015	ug/L		09/18/19 10:16	09/19/19 12:24	1
Naphthalene	1.8		0.11	0.033	ug/L		09/18/19 10:16	09/19/19 12:24	1
Phenanthrene	ND		0.11	0.033	ug/L		09/18/19 10:16	09/19/19 12:24	1
Pyrene	ND		0.11	0.035	ug/L		09/18/19 10:16	09/19/19 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	54		53 - 120	09/18/19 10:16	09/19/19 12:24	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	0.25		0.25	0.10	mg/L			09/17/19 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	114		50 - 150		09/17/19 20:48	1
4-Bromofluorobenzene (Surr)	126		50 - 150		09/17/19 20:48	1

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.029	0.0077	ug/L		09/25/19 20:09	09/26/19 18:43	1
Ethylene Dibromide	ND		0.0096	0.0019	ug/L		09/25/19 20:09	09/26/19 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	106		60 - 140	09/25/19 20:09	09/26/19 18:43	1

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: MW-2R-W-190911

Lab Sample ID: 580-89096-4

Date Collected: 09/11/19 15:00

Matrix: Water

Date Received: 09/12/19 09:00

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.67		0.11	0.078	mg/L		09/24/19 16:14	09/25/19 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		50 - 150				09/24/19 16:14	09/25/19 16:57	1

Client Sample ID: MW-9-W-190911

Lab Sample ID: 580-89096-5

Date Collected: 09/11/19 16:10

Matrix: Water

Date Received: 09/12/19 09:00

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.0090	ug/L			09/23/19 01:12	1
1,1,2,2-Tetrachloroethane	ND	*	0.50	0.049	ug/L			09/23/19 01:12	1
1,1,2-Trichloroethane	ND		0.50	0.017	ug/L			09/23/19 01:12	1
1,1-Dichloroethene	0.036	J	0.50	0.014	ug/L			09/23/19 01:12	1
1,2-Dibromoethane	ND		0.50	0.014	ug/L			09/23/19 01:12	1
1,2-Dichloroethane	ND		0.50	0.024	ug/L			09/23/19 01:12	1
1,4-Dichlorobenzene	0.029	J	0.50	0.014	ug/L			09/23/19 01:12	1
Benzene	0.016	J	0.50	0.0090	ug/L			09/23/19 01:12	1
Bromodichloromethane	ND		0.50	0.0060	ug/L			09/23/19 01:12	1
Bromoform	ND		0.50	0.013	ug/L			09/23/19 01:12	1
Bromomethane	ND		0.50	0.012	ug/L			09/23/19 01:12	1
Chloroform	0.030	J	0.50	0.0090	ug/L			09/23/19 01:12	1
cis-1,3-Dichloropropene	ND		0.50	0.026	ug/L			09/23/19 01:12	1
Dibromochloromethane	ND		0.50	0.016	ug/L			09/23/19 01:12	1
Dibromomethane	ND		0.50	0.017	ug/L			09/23/19 01:12	1
Hexachlorobutadiene	ND		0.50	0.026	ug/L			09/23/19 01:12	1
Naphthalene	0.32	J * B	0.50	0.013	ug/L			09/23/19 01:12	1
trans-1,3-Dichloropropene	ND		0.50	0.027	ug/L			09/23/19 01:12	1
Trichloroethene	22		0.50	0.0090	ug/L			09/23/19 01:12	1
Vinyl chloride	0.17	J	0.50	0.013	ug/L			09/23/19 01:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	102		48 - 150					09/23/19 01:12	1
<i>4-Bromofluorobenzene (Surr)</i>	102		75 - 120					09/23/19 01:12	1
<i>Dibromofluoromethane (Surr)</i>	99		80 - 120					09/23/19 01:12	1
<i>Toluene-d8 (Surr)</i>	101		75 - 120					09/23/19 01:12	1
<i>Trifluorotoluene (Surr)</i>	98		80 - 120					09/23/19 01:12	1

Method: 8260C SIM - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	68		2.5	0.085	ug/L			09/24/19 10:11	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	103		48 - 150					09/24/19 10:11	5
<i>4-Bromofluorobenzene (Surr)</i>	96		75 - 120					09/24/19 10:11	5
<i>Dibromofluoromethane (Surr)</i>	98		80 - 120					09/24/19 10:11	5
<i>Toluene-d8 (Surr)</i>	103		75 - 120					09/24/19 10:11	5
<i>Trifluorotoluene (Surr)</i>	98		80 - 120					09/24/19 10:11	5

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: MW-9-W-190911

Lab Sample ID: 580-89096-5

Date Collected: 09/11/19 16:10

Matrix: Water

Date Received: 09/12/19 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			09/25/19 05:32	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			09/25/19 05:32	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			09/25/19 05:32	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			09/25/19 05:32	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			09/25/19 05:32	1
1,2,4-Trichlorobenzene	ND	*	2.0	0.33	ug/L			09/25/19 05:32	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/25/19 05:32	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			09/25/19 05:32	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			09/25/19 05:32	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/25/19 05:32	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			09/25/19 05:32	1
1,3-Dichlorobenzene	ND	*	2.0	0.18	ug/L			09/25/19 05:32	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			09/25/19 05:32	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			09/25/19 05:32	1
2-Butanone	ND		20	4.7	ug/L			09/25/19 05:32	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			09/25/19 05:32	1
4-Chlorotoluene	ND	*	2.0	0.51	ug/L			09/25/19 05:32	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			09/25/19 05:32	1
4-Methyl-2-pentanone	ND		15	2.5	ug/L			09/25/19 05:32	1
Acetone	ND		50	7.8	ug/L			09/25/19 05:32	1
Bromobenzene	ND	*	2.0	0.43	ug/L			09/25/19 05:32	1
Bromochloromethane	ND		2.0	0.29	ug/L			09/25/19 05:32	1
Carbon disulfide	ND		3.0	0.53	ug/L			09/25/19 05:32	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			09/25/19 05:32	1
Chlorobenzene	ND		2.0	0.44	ug/L			09/25/19 05:32	1
Chloroethane	ND		5.0	1.1	ug/L			09/25/19 05:32	1
Chloromethane	ND		20	5.4	ug/L			09/25/19 05:32	1
cis-1,2-Dichloroethene	58		3.0	0.69	ug/L			09/25/19 05:32	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			09/25/19 05:32	1
Ethylbenzene	ND		3.0	0.50	ug/L			09/25/19 05:32	1
Isopropylbenzene	ND		2.0	0.51	ug/L			09/25/19 05:32	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			09/25/19 05:32	1
Methylene Chloride	ND		5.0	1.4	ug/L			09/25/19 05:32	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			09/25/19 05:32	1
n-Butylbenzene	ND		3.0	0.44	ug/L			09/25/19 05:32	1
N-Propylbenzene	ND	*	3.0	0.50	ug/L			09/25/19 05:32	1
o-Xylene	ND		2.0	0.39	ug/L			09/25/19 05:32	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			09/25/19 05:32	1
Styrene	ND		5.0	1.0	ug/L			09/25/19 05:32	1
t-Butylbenzene	ND		3.0	0.58	ug/L			09/25/19 05:32	1
Toluene	ND		2.0	0.39	ug/L			09/25/19 05:32	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			09/25/19 05:32	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			09/25/19 05:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 126		09/25/19 05:32	1
4-Bromofluorobenzene (Surr)	101		80 - 120		09/25/19 05:32	1
Dibromofluoromethane (Surr)	98		80 - 120		09/25/19 05:32	1
Toluene-d8 (Surr)	102		80 - 120		09/25/19 05:32	1
Trifluorotoluene (Surr)	102		80 - 120		09/25/19 05:32	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: MW-9-W-190911

Lab Sample ID: 580-89096-5

Date Collected: 09/11/19 16:10

Matrix: Water

Date Received: 09/12/19 09:00

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/17/19 21:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	110		50 - 150					09/17/19 21:18	1
4-Bromofluorobenzene (Surr)	98		50 - 150					09/17/19 21:18	1

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.029	0.0077	ug/L		09/25/19 20:09	09/26/19 18:59	1
Ethylene Dibromide	ND		0.0096	0.0019	ug/L		09/25/19 20:09	09/26/19 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	107		60 - 140				09/25/19 20:09	09/26/19 18:59	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		0.11	0.076	mg/L		09/24/19 16:14	09/25/19 17:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	63		50 - 150				09/24/19 16:14	09/25/19 17:20	1

Client Sample ID: BD-1-W-190911

Lab Sample ID: 580-89096-6

Date Collected: 09/11/19 00:00

Matrix: Water

Date Received: 09/12/19 09:00

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.0090	ug/L			09/23/19 01:38	1
1,1,2,2-Tetrachloroethane	ND	*	0.50	0.049	ug/L			09/23/19 01:38	1
1,1,2-Trichloroethane	ND		0.50	0.017	ug/L			09/23/19 01:38	1
1,1-Dichloroethene	ND		0.50	0.014	ug/L			09/23/19 01:38	1
1,2-Dibromoethane	ND		0.50	0.014	ug/L			09/23/19 01:38	1
1,2-Dichloroethane	0.77		0.50	0.024	ug/L			09/23/19 01:38	1
1,4-Dichlorobenzene	ND		0.50	0.014	ug/L			09/23/19 01:38	1
Benzene	0.042	J	0.50	0.0090	ug/L			09/23/19 01:38	1
Bromodichloromethane	ND		0.50	0.0060	ug/L			09/23/19 01:38	1
Bromoform	ND		0.50	0.013	ug/L			09/23/19 01:38	1
Bromomethane	ND		0.50	0.012	ug/L			09/23/19 01:38	1
Chloroform	ND		0.50	0.0090	ug/L			09/23/19 01:38	1
cis-1,3-Dichloropropene	ND		0.50	0.026	ug/L			09/23/19 01:38	1
Dibromochloromethane	ND		0.50	0.016	ug/L			09/23/19 01:38	1
Dibromomethane	ND		0.50	0.017	ug/L			09/23/19 01:38	1
Hexachlorobutadiene	ND		0.50	0.026	ug/L			09/23/19 01:38	1
Naphthalene	0.10	J * B	0.50	0.013	ug/L			09/23/19 01:38	1
trans-1,3-Dichloropropene	ND		0.50	0.027	ug/L			09/23/19 01:38	1
Trichloroethene	0.070	J	0.50	0.0090	ug/L			09/23/19 01:38	1
Vinyl chloride	ND		0.50	0.013	ug/L			09/23/19 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		48 - 150					09/23/19 01:38	1
4-Bromofluorobenzene (Surr)	100		75 - 120					09/23/19 01:38	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: BD-1-W-190911

Lab Sample ID: 580-89096-6

Date Collected: 09/11/19 00:00

Matrix: Water

Date Received: 09/12/19 09:00

Method: 8260C SIM - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		80 - 120		09/23/19 01:38	1
Toluene-d8 (Surr)	102		75 - 120		09/23/19 01:38	1
Trifluorotoluene (Surr)	97		80 - 120		09/23/19 01:38	1

Method: 8260C SIM - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.7		0.50	0.017	ug/L			09/24/19 09:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		48 - 150		09/24/19 09:44	1
4-Bromofluorobenzene (Surr)	100		75 - 120		09/24/19 09:44	1
Dibromofluoromethane (Surr)	100		80 - 120		09/24/19 09:44	1
Toluene-d8 (Surr)	103		75 - 120		09/24/19 09:44	1
Trifluorotoluene (Surr)	99		80 - 120		09/24/19 09:44	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			09/25/19 05:57	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			09/25/19 05:57	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			09/25/19 05:57	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			09/25/19 05:57	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			09/25/19 05:57	1
1,2,4-Trichlorobenzene	ND *		2.0	0.33	ug/L			09/25/19 05:57	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/25/19 05:57	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			09/25/19 05:57	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			09/25/19 05:57	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/25/19 05:57	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			09/25/19 05:57	1
1,3-Dichlorobenzene	ND *		2.0	0.18	ug/L			09/25/19 05:57	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			09/25/19 05:57	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			09/25/19 05:57	1
2-Butanone	ND		20	4.7	ug/L			09/25/19 05:57	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			09/25/19 05:57	1
4-Chlorotoluene	ND *		2.0	0.51	ug/L			09/25/19 05:57	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			09/25/19 05:57	1
4-Methyl-2-pentanone	ND		15	2.5	ug/L			09/25/19 05:57	1
Acetone	ND		50	7.8	ug/L			09/25/19 05:57	1
Bromobenzene	ND *		2.0	0.43	ug/L			09/25/19 05:57	1
Bromochloromethane	ND		2.0	0.29	ug/L			09/25/19 05:57	1
Carbon disulfide	ND		3.0	0.53	ug/L			09/25/19 05:57	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			09/25/19 05:57	1
Chlorobenzene	ND		2.0	0.44	ug/L			09/25/19 05:57	1
Chloroethane	ND		5.0	1.1	ug/L			09/25/19 05:57	1
Chloromethane	ND		20	5.4	ug/L			09/25/19 05:57	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			09/25/19 05:57	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			09/25/19 05:57	1
Ethylbenzene	ND		3.0	0.50	ug/L			09/25/19 05:57	1
Isopropylbenzene	ND		2.0	0.51	ug/L			09/25/19 05:57	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			09/25/19 05:57	1
Methylene Chloride	ND		5.0	1.4	ug/L			09/25/19 05:57	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: BD-1-W-190911

Lab Sample ID: 580-89096-6

Date Collected: 09/11/19 00:00

Matrix: Water

Date Received: 09/12/19 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			09/25/19 05:57	1
n-Butylbenzene	ND		3.0	0.44	ug/L			09/25/19 05:57	1
N-Propylbenzene	ND	*	3.0	0.50	ug/L			09/25/19 05:57	1
o-Xylene	ND		2.0	0.39	ug/L			09/25/19 05:57	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			09/25/19 05:57	1
Styrene	ND		5.0	1.0	ug/L			09/25/19 05:57	1
t-Butylbenzene	ND		3.0	0.58	ug/L			09/25/19 05:57	1
Toluene	ND		2.0	0.39	ug/L			09/25/19 05:57	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			09/25/19 05:57	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			09/25/19 05:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 126		09/25/19 05:57	1
4-Bromofluorobenzene (Surr)	98		80 - 120		09/25/19 05:57	1
Dibromofluoromethane (Surr)	98		80 - 120		09/25/19 05:57	1
Toluene-d8 (Surr)	101		80 - 120		09/25/19 05:57	1
Trifluorotoluene (Surr)	104		80 - 120		09/25/19 05:57	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/17/19 21:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	113		50 - 150		09/17/19 21:49	1
4-Bromofluorobenzene (Surr)	97		50 - 150		09/17/19 21:49	1

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.029	0.0077	ug/L		09/25/19 20:09	09/26/19 19:15	1
Ethylene Dibromide	ND		0.0097	0.0019	ug/L		09/25/19 20:09	09/26/19 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	163	X	60 - 140	09/25/19 20:09	09/26/19 19:15	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.16		0.11	0.076	mg/L		09/24/19 16:14	09/25/19 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	71		50 - 150	09/24/19 16:14	09/25/19 17:42	1

Client Sample ID: Trip Blank

Lab Sample ID: 580-89096-7

Date Collected: 09/11/19 00:00

Matrix: Water

Date Received: 09/12/19 09:00

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.0090	ug/L			09/22/19 18:42	1
1,1,1,2-Tetrachloroethane	ND	*	0.50	0.049	ug/L			09/22/19 18:42	1
1,1,2-Trichloroethane	ND		0.50	0.017	ug/L			09/22/19 18:42	1
1,1-Dichloroethene	ND		0.50	0.014	ug/L			09/22/19 18:42	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: Trip Blank

Lab Sample ID: 580-89096-7

Date Collected: 09/11/19 00:00

Matrix: Water

Date Received: 09/12/19 09:00

Method: 8260C SIM - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.50	0.014	ug/L			09/22/19 18:42	1
1,2-Dichloroethane	ND		0.50	0.024	ug/L			09/22/19 18:42	1
1,4-Dichlorobenzene	0.014	J	0.50	0.014	ug/L			09/22/19 18:42	1
Benzene	ND		0.50	0.0090	ug/L			09/22/19 18:42	1
Bromodichloromethane	ND		0.50	0.0060	ug/L			09/22/19 18:42	1
Bromoform	ND		0.50	0.013	ug/L			09/22/19 18:42	1
Bromomethane	ND		0.50	0.012	ug/L			09/22/19 18:42	1
Chloroform	ND		0.50	0.0090	ug/L			09/22/19 18:42	1
cis-1,3-Dichloropropene	ND		0.50	0.026	ug/L			09/22/19 18:42	1
Dibromochloromethane	ND		0.50	0.016	ug/L			09/22/19 18:42	1
Dibromomethane	ND		0.50	0.017	ug/L			09/22/19 18:42	1
Hexachlorobutadiene	0.032	J B	0.50	0.026	ug/L			09/22/19 18:42	1
Naphthalene	0.095	J * B	0.50	0.013	ug/L			09/22/19 18:42	1
Tetrachloroethene	0.020	J	0.50	0.017	ug/L			09/22/19 18:42	1
trans-1,3-Dichloropropene	ND		0.50	0.027	ug/L			09/22/19 18:42	1
Trichloroethene	ND		0.50	0.0090	ug/L			09/22/19 18:42	1
Vinyl chloride	ND		0.50	0.013	ug/L			09/22/19 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		48 - 150		09/22/19 18:42	1
4-Bromofluorobenzene (Surr)	100		75 - 120		09/22/19 18:42	1
Dibromofluoromethane (Surr)	100		80 - 120		09/22/19 18:42	1
Toluene-d8 (Surr)	101		75 - 120		09/22/19 18:42	1
Trifluorotoluene (Surr)	96		80 - 120		09/22/19 18:42	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			09/25/19 02:14	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			09/25/19 02:14	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			09/25/19 02:14	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			09/25/19 02:14	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			09/25/19 02:14	1
1,2,4-Trichlorobenzene	ND	*	2.0	0.33	ug/L			09/25/19 02:14	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/25/19 02:14	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			09/25/19 02:14	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			09/25/19 02:14	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/25/19 02:14	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			09/25/19 02:14	1
1,3-Dichlorobenzene	ND	*	2.0	0.18	ug/L			09/25/19 02:14	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			09/25/19 02:14	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			09/25/19 02:14	1
2-Butanone	ND		20	4.7	ug/L			09/25/19 02:14	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			09/25/19 02:14	1
4-Chlorotoluene	ND	*	2.0	0.51	ug/L			09/25/19 02:14	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			09/25/19 02:14	1
4-Methyl-2-pentanone	ND		15	2.5	ug/L			09/25/19 02:14	1
Acetone	ND		50	7.8	ug/L			09/25/19 02:14	1
Bromobenzene	ND	*	2.0	0.43	ug/L			09/25/19 02:14	1
Bromochloromethane	ND		2.0	0.29	ug/L			09/25/19 02:14	1
Carbon disulfide	ND		3.0	0.53	ug/L			09/25/19 02:14	1

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: Trip Blank

Lab Sample ID: 580-89096-7

Date Collected: 09/11/19 00:00

Matrix: Water

Date Received: 09/12/19 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		3.0	0.30	ug/L			09/25/19 02:14	1
Chlorobenzene	ND		2.0	0.44	ug/L			09/25/19 02:14	1
Chloroethane	ND		5.0	1.1	ug/L			09/25/19 02:14	1
Chloromethane	ND		20	5.4	ug/L			09/25/19 02:14	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			09/25/19 02:14	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			09/25/19 02:14	1
Ethylbenzene	ND		3.0	0.50	ug/L			09/25/19 02:14	1
Isopropylbenzene	ND		2.0	0.51	ug/L			09/25/19 02:14	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			09/25/19 02:14	1
Methylene Chloride	ND		5.0	1.4	ug/L			09/25/19 02:14	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			09/25/19 02:14	1
n-Butylbenzene	ND		3.0	0.44	ug/L			09/25/19 02:14	1
N-Propylbenzene	ND *		3.0	0.50	ug/L			09/25/19 02:14	1
o-Xylene	ND		2.0	0.39	ug/L			09/25/19 02:14	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			09/25/19 02:14	1
Styrene	ND		5.0	1.0	ug/L			09/25/19 02:14	1
t-Butylbenzene	ND		3.0	0.58	ug/L			09/25/19 02:14	1
Toluene	ND		2.0	0.39	ug/L			09/25/19 02:14	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			09/25/19 02:14	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			09/25/19 02:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 126		09/25/19 02:14	1
4-Bromofluorobenzene (Surr)	101		80 - 120		09/25/19 02:14	1
Dibromofluoromethane (Surr)	101		80 - 120		09/25/19 02:14	1
Toluene-d8 (Surr)	104		80 - 120		09/25/19 02:14	1
Trifluorotoluene (Surr)	102		80 - 120		09/25/19 02:14	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/17/19 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	98		50 - 150		09/17/19 18:16	1
4-Bromofluorobenzene (Surr)	97		50 - 150		09/17/19 18:16	1

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.029	0.0077	ug/L		09/25/19 20:09	09/26/19 19:48	1
Ethylene Dibromide	ND		0.0096	0.0019	ug/L		09/25/19 20:09	09/26/19 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	109		60 - 140	09/25/19 20:09	09/26/19 19:48	1

Default Detection Limits

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units
1,1,1,2-Tetrachloroethane	0.50	0.0090	ug/L
1,1,1,2,2-Tetrachloroethane	0.50	0.049	ug/L
1,1,1,2-Trichloroethane	0.50	0.017	ug/L
1,1-Dichloroethene	0.50	0.014	ug/L
1,2-Dibromoethane	0.50	0.014	ug/L
1,2-Dichloroethane	0.50	0.024	ug/L
1,4-Dichlorobenzene	0.50	0.014	ug/L
Benzene	0.50	0.0090	ug/L
Bromodichloromethane	0.50	0.0060	ug/L
Bromoform	0.50	0.013	ug/L
Bromomethane	0.50	0.012	ug/L
Chloroform	0.50	0.0090	ug/L
cis-1,3-Dichloropropene	0.50	0.026	ug/L
Dibromochloromethane	0.50	0.016	ug/L
Dibromomethane	0.50	0.017	ug/L
Hexachlorobutadiene	0.50	0.026	ug/L
Naphthalene	0.50	0.013	ug/L
Tetrachloroethene	0.50	0.017	ug/L
trans-1,3-Dichloropropene	0.50	0.027	ug/L
Trichloroethene	0.50	0.0090	ug/L
Vinyl chloride	0.50	0.013	ug/L

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	RL	MDL	Units
1,1,1-Trichloroethane	3.0	0.39	ug/L
1,1-Dichloroethane	2.0	0.22	ug/L
1,1-Dichloropropene	3.0	0.29	ug/L
1,2,3-Trichlorobenzene	5.0	1.1	ug/L
1,2,3-Trichloropropane	2.0	0.41	ug/L
1,2,4-Trichlorobenzene	2.0	0.33	ug/L
1,2,4-Trimethylbenzene	3.0	0.61	ug/L
1,2-Dibromo-3-Chloropropane	10	1.8	ug/L
1,2-Dichlorobenzene	2.0	0.46	ug/L
1,2-Dichloropropane	1.0	0.18	ug/L
1,3,5-Trimethylbenzene	3.0	0.55	ug/L
1,3-Dichlorobenzene	2.0	0.18	ug/L
1,3-Dichloropropane	2.0	0.35	ug/L
2,2-Dichloropropane	3.0	0.32	ug/L
2-Butanone	20	4.7	ug/L
2-Chlorotoluene	3.0	0.51	ug/L
4-Chlorotoluene	2.0	0.51	ug/L
4-Isopropyltoluene	3.0	0.28	ug/L
4-Methyl-2-pentanone	15	2.5	ug/L
Acetone	50	7.8	ug/L
Bromobenzene	2.0	0.43	ug/L
Bromochloromethane	2.0	0.29	ug/L
Carbon disulfide	3.0	0.53	ug/L
Carbon tetrachloride	3.0	0.30	ug/L
Chlorobenzene	2.0	0.44	ug/L
Chloroethane	5.0	1.1	ug/L
Chloromethane	20	5.4	ug/L
cis-1,2-Dichloroethene	3.0	0.69	ug/L

Default Detection Limits

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	RL	MDL	Units
Dichlorodifluoromethane	10	2.3	ug/L
Ethylbenzene	3.0	0.50	ug/L
Isopropylbenzene	2.0	0.51	ug/L
Methyl tert-butyl ether	2.0	0.44	ug/L
Methylene Chloride	5.0	1.4	ug/L
m-Xylene & p-Xylene	3.0	0.75	ug/L
n-Butylbenzene	3.0	0.44	ug/L
N-Propylbenzene	3.0	0.50	ug/L
o-Xylene	2.0	0.39	ug/L
sec-Butylbenzene	3.0	0.49	ug/L
Styrene	5.0	1.0	ug/L
t-Butylbenzene	3.0	0.58	ug/L
Toluene	2.0	0.39	ug/L
trans-1,2-Dichloroethene	3.0	0.39	ug/L
Trichlorofluoromethane	3.0	0.63	ug/L

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Prep: 3510C

Analyte	RL	MDL	Units
1-Methylnaphthalene	0.10	0.019	ug/L
2-Methylnaphthalene	0.20	0.039	ug/L
Acenaphthene	0.10	0.014	ug/L
Acenaphthylene	0.050	0.0090	ug/L
Anthracene	0.10	0.022	ug/L
Benzo[a]anthracene	0.050	0.014	ug/L
Benzo[a]pyrene	0.10	0.011	ug/L
Benzo[b]fluoranthene	0.050	0.011	ug/L
Benzo[g,h,i]perylene	0.050	0.012	ug/L
Benzo[k]fluoranthene	0.050	0.012	ug/L
Chrysene	0.10	0.016	ug/L
Dibenz(a,h)anthracene	0.10	0.026	ug/L
Fluoranthene	0.20	0.050	ug/L
Fluorene	0.10	0.017	ug/L
Indeno[1,2,3-cd]pyrene	0.050	0.014	ug/L
Naphthalene	0.10	0.031	ug/L
Phenanthrene	0.10	0.031	ug/L
Pyrene	0.10	0.033	ug/L

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	RL	MDL	Units
Gasoline Range Organics (GRO)-C6-C10	0.25	0.10	mg/L

Method: 8011 - EDB and DBCP in Water by Microextraction

Prep: 8011

Analyte	RL	MDL	Units
1,2,3-Trichloropropane	0.030	0.0080	ug/L
Ethylene Dibromide	0.010	0.0020	ug/L

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Prep: 3510C

Analyte	RL	MDL	Units
DRO (nC10-<nC25)	0.11	0.075	mg/L

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)				
		DCA (80-126)	BFB (80-120)	DBFM (80-120)	TOL (80-120)	TFT (80-120)
580-89096-1	EQB-1-W-190911	102	102	100	103	100
580-89096-2	MW-8RR-W-190911	103	100	96	103	101
580-89096-3	MW-1R-W-190911	103	102	99	102	100
580-89096-4	MW-2R-W-190911	101	104	99	103	102
580-89096-5	MW-9-W-190911	100	101	98	102	102
580-89096-6	BD-1-W-190911	102	98	98	101	104
580-89096-7	Trip Blank	101	101	101	104	102
LCS 580-312211/3	Lab Control Sample	102	102	100	102	101
LCSD 580-312211/4	Lab Control Sample Dup	99	100	101	102	103
MB 580-312211/6	Method Blank	103	102	98	103	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

TFT = Trifluorotoluene (Surr)

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)				
		DCA (48-150)	BFB (75-120)	DBFM (80-120)	TOL (75-120)	TFT (80-120)
580-89096-1	EQB-1-W-190911	100	96	97	103	100
580-89096-2	MW-8RR-W-190911	103	102	100	101	98
580-89096-3	MW-1R-W-190911	103	99	99	102	97
580-89096-4	MW-2R-W-190911	102	104	98	103	98
580-89096-5	MW-9-W-190911	102	102	99	101	98
580-89096-5 - DL	MW-9-W-190911	103	96	98	103	98
580-89096-6	BD-1-W-190911	103	100	100	102	97
580-89096-6 - RA	BD-1-W-190911	103	100	100	103	99
580-89096-7	Trip Blank	104	100	100	101	96
LCS 580-311960/4	Lab Control Sample	97	96	98	102	101
LCS 580-312081/4	Lab Control Sample	99	95	100	92	101
LCSD 580-311960/5	Lab Control Sample Dup	101	101	101	101	99
LCSD 580-312081/5	Lab Control Sample Dup	97	94	99	92	104
MB 580-311960/7	Method Blank	101	98	98	101	98
MB 580-312081/7	Method Blank	103	99	100	100	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

TFT = Trifluorotoluene (Surr)

Surrogate Summary

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TPHL (53-120)
580-89096-4	MW-2R-W-190911	54
LCS 580-311540/2-A	Lab Control Sample	59
LCSD 580-311540/3-A	Lab Control Sample Dup	59
MB 580-311540/1-A	Method Blank	59

Surrogate Legend

TPHL = Terphenyl-d14

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFT1 (50-150)	BFB1 (50-150)
580-89096-1	EQB-1-W-190911	94	98
580-89096-2	MW-8RR-W-190911	100	92
580-89096-3	MW-1R-W-190911	102	99
580-89096-4	MW-2R-W-190911	114	126
580-89096-5	MW-9-W-190911	110	98
580-89096-6	BD-1-W-190911	113	97
580-89096-7	Trip Blank	98	97
LCS 580-311446/10	Lab Control Sample	103	103
LCSD 580-311446/11	Lab Control Sample Dup	103	101
MB 580-311446/9	Method Blank	123	98

Surrogate Legend

TFT = Trifluorotoluene (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DBP1 (60-140)
580-89096-1	EQB-1-W-190911	111
580-89096-2	MW-8RR-W-190911	94
580-89096-3	MW-1R-W-190911	109
580-89096-4	MW-2R-W-190911	106
580-89096-5	MW-9-W-190911	107
580-89096-6	BD-1-W-190911	163 X
580-89096-7	Trip Blank	109
LCS 580-312350/3-A	Lab Control Sample	113
LCSD 580-312350/4-A	Lab Control Sample Dup	117
LLCS 580-312350/5-A	Lab Control Sample	115
MB 580-312350/2-A	Method Blank	109

Surrogate Legend

12DBP = 1,2-Dibromopropane

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH (50-150)
580-89096-1	EQB-1-W-190911	72
580-89096-2	MW-8RR-W-190911	65
580-89096-3	MW-1R-W-190911	66
580-89096-4	MW-2R-W-190911	70
580-89096-5	MW-9-W-190911	63
580-89096-6	BD-1-W-190911	71
LCS 580-312207/2-A	Lab Control Sample	86
LCSD 580-312207/3-A	Lab Control Sample Dup	93
MB 580-312207/1-A	Method Blank	72

Surrogate Legend

OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-312211/6

Matrix: Water

Analysis Batch: 312211

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			09/25/19 01:24	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			09/25/19 01:24	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			09/25/19 01:24	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			09/25/19 01:24	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			09/25/19 01:24	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			09/25/19 01:24	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/25/19 01:24	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			09/25/19 01:24	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			09/25/19 01:24	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/25/19 01:24	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			09/25/19 01:24	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			09/25/19 01:24	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			09/25/19 01:24	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			09/25/19 01:24	1
2-Butanone	ND		20	4.7	ug/L			09/25/19 01:24	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			09/25/19 01:24	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			09/25/19 01:24	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			09/25/19 01:24	1
4-Methyl-2-pentanone	ND		15	2.5	ug/L			09/25/19 01:24	1
Acetone	ND		50	7.8	ug/L			09/25/19 01:24	1
Bromobenzene	ND		2.0	0.43	ug/L			09/25/19 01:24	1
Bromochloromethane	ND		2.0	0.29	ug/L			09/25/19 01:24	1
Carbon disulfide	ND		3.0	0.53	ug/L			09/25/19 01:24	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			09/25/19 01:24	1
Chlorobenzene	ND		2.0	0.44	ug/L			09/25/19 01:24	1
Chloroethane	ND		5.0	1.1	ug/L			09/25/19 01:24	1
Chloromethane	ND		20	5.4	ug/L			09/25/19 01:24	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			09/25/19 01:24	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			09/25/19 01:24	1
Ethylbenzene	ND		3.0	0.50	ug/L			09/25/19 01:24	1
Isopropylbenzene	ND		2.0	0.51	ug/L			09/25/19 01:24	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			09/25/19 01:24	1
Methylene Chloride	ND		5.0	1.4	ug/L			09/25/19 01:24	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			09/25/19 01:24	1
n-Butylbenzene	ND		3.0	0.44	ug/L			09/25/19 01:24	1
N-Propylbenzene	ND		3.0	0.50	ug/L			09/25/19 01:24	1
o-Xylene	ND		2.0	0.39	ug/L			09/25/19 01:24	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			09/25/19 01:24	1
Styrene	ND		5.0	1.0	ug/L			09/25/19 01:24	1
t-Butylbenzene	ND		3.0	0.58	ug/L			09/25/19 01:24	1
Toluene	ND		2.0	0.39	ug/L			09/25/19 01:24	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			09/25/19 01:24	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			09/25/19 01:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 126		09/25/19 01:24	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/25/19 01:24	1
Dibromofluoromethane (Surr)	98		80 - 120		09/25/19 01:24	1

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-312211/6

Matrix: Water

Analysis Batch: 312211

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		09/25/19 01:24	1
Trifluorotoluene (Surr)	101		80 - 120		09/25/19 01:24	1

Lab Sample ID: LCS 580-312211/3

Matrix: Water

Analysis Batch: 312211

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	8.75		ug/L		87	74 - 130
1,1-Dichloroethane	10.0	9.03		ug/L		90	70 - 129
1,1-Dichloropropene	10.0	8.43		ug/L		84	80 - 120
1,2,3-Trichlorobenzene	10.0	7.19		ug/L		72	23 - 150
1,2,3-Trichloropropane	10.0	8.53		ug/L		85	76 - 124
1,2,4-Trichlorobenzene	10.0	9.49		ug/L		95	57 - 140
1,2,4-Trimethylbenzene	10.0	8.75		ug/L		87	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.34	J	ug/L		93	65 - 125
1,2-Dichlorobenzene	10.0	9.02		ug/L		90	80 - 120
1,2-Dichloropropane	10.0	8.70		ug/L		87	72 - 126
1,3,5-Trimethylbenzene	10.0	8.66		ug/L		87	80 - 120
1,3-Dichlorobenzene	10.0	9.04		ug/L		90	80 - 120
1,3-Dichloropropane	10.0	8.95		ug/L		90	79 - 120
2,2-Dichloropropane	10.0	7.74		ug/L		77	62 - 140
2-Butanone	50.0	41.8		ug/L		84	65 - 127
2-Chlorotoluene	10.0	8.96		ug/L		90	80 - 120
4-Chlorotoluene	10.0	8.62		ug/L		86	80 - 120
4-Isopropyltoluene	10.0	8.40		ug/L		84	77 - 120
4-Methyl-2-pentanone	50.0	45.5		ug/L		91	69 - 124
Acetone	50.0	34.8	J	ug/L		70	43 - 150
Bromobenzene	10.0	8.98		ug/L		90	80 - 120
Bromochloromethane	10.0	8.78		ug/L		88	78 - 120
Carbon disulfide	10.0	8.02		ug/L		80	69 - 122
Carbon tetrachloride	10.0	9.79		ug/L		98	72 - 129
Chlorobenzene	10.0	9.05		ug/L		91	80 - 120
Chloroethane	10.0	7.10		ug/L		71	65 - 132
Chloromethane	10.0	7.65	J	ug/L		76	52 - 135
cis-1,2-Dichloroethene	10.0	9.35		ug/L		94	76 - 129
Dichlorodifluoromethane	10.0	6.21	J	ug/L		62	20 - 150
Ethylbenzene	10.0	8.93		ug/L		89	80 - 120
Isopropylbenzene	10.0	9.06		ug/L		91	75 - 120
Methyl tert-butyl ether	10.0	9.03		ug/L		90	72 - 130
Methylene Chloride	10.0	9.75		ug/L		97	77 - 125
m-Xylene & p-Xylene	10.0	8.94		ug/L		89	80 - 120
n-Butylbenzene	10.0	8.46		ug/L		85	78 - 120
N-Propylbenzene	10.0	8.64		ug/L		86	80 - 120
o-Xylene	10.0	9.65		ug/L		97	80 - 120
sec-Butylbenzene	10.0	8.51		ug/L		85	78 - 120
Styrene	10.0	9.83		ug/L		98	76 - 121
t-Butylbenzene	10.0	8.58		ug/L		86	80 - 121

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-312211/3

Matrix: Water

Analysis Batch: 312211

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	10.0	8.80		ug/L		88	80 - 120
trans-1,2-Dichloroethene	10.0	8.30		ug/L		83	77 - 124
Trichlorofluoromethane	10.0	6.89		ug/L		69	64 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		80 - 126
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	102		80 - 120
Trifluorotoluene (Surr)	101		80 - 120

Lab Sample ID: LCSD 580-312211/4

Matrix: Water

Analysis Batch: 312211

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	10.0	8.42		ug/L		84	74 - 130	4	18
1,1-Dichloroethane	10.0	8.97		ug/L		90	70 - 129	1	26
1,1-Dichloropropene	10.0	8.36		ug/L		84	80 - 120	1	14
1,2,3-Trichlorobenzene	10.0	7.16		ug/L		72	23 - 150	0	35
1,2,3-Trichloropropane	10.0	10.3		ug/L		103	76 - 124	19	30
1,2,4-Trichlorobenzene	10.0	6.83	*	ug/L		68	57 - 140	33	27
1,2,4-Trimethylbenzene	10.0	9.26		ug/L		93	80 - 120	6	16
1,2-Dibromo-3-Chloropropane	10.0	9.00	J	ug/L		90	65 - 125	4	27
1,2-Dichlorobenzene	10.0	8.87		ug/L		89	80 - 120	2	15
1,2-Dichloropropane	10.0	8.54		ug/L		85	72 - 126	2	26
1,3,5-Trimethylbenzene	10.0	9.89		ug/L		99	80 - 120	13	14
1,3-Dichlorobenzene	10.0	7.86	*	ug/L		79	80 - 120	14	14
1,3-Dichloropropane	10.0	8.94		ug/L		89	79 - 120	0	26
2,2-Dichloropropane	10.0	8.35		ug/L		84	62 - 140	8	23
2-Butanone	50.0	40.5		ug/L		81	65 - 127	3	29
2-Chlorotoluene	10.0	10.5		ug/L		105	80 - 120	15	15
4-Chlorotoluene	10.0	10.2	*	ug/L		102	80 - 120	16	14
4-Isopropyltoluene	10.0	9.02		ug/L		90	77 - 120	7	13
4-Methyl-2-pentanone	50.0	43.9		ug/L		88	69 - 124	4	22
Acetone	50.0	29.7	J	ug/L		59	43 - 150	16	35
Bromobenzene	10.0	10.5	*	ug/L		105	80 - 120	16	13
Bromochloromethane	10.0	8.74		ug/L		87	78 - 120	1	20
Carbon disulfide	10.0	7.89		ug/L		79	69 - 122	2	20
Carbon tetrachloride	10.0	9.67		ug/L		97	72 - 129	1	19
Chlorobenzene	10.0	8.86		ug/L		89	80 - 120	2	15
Chloroethane	10.0	6.61		ug/L		66	65 - 132	7	35
Chloromethane	10.0	6.68	J	ug/L		67	52 - 135	14	23
cis-1,2-Dichloroethene	10.0	9.01		ug/L		90	76 - 129	4	15
Dichlorodifluoromethane	10.0	5.93	J	ug/L		59	20 - 150	5	35
Ethylbenzene	10.0	8.83		ug/L		88	80 - 120	1	14
Isopropylbenzene	10.0	8.83		ug/L		88	75 - 120	3	20
Methyl tert-butyl ether	10.0	8.63		ug/L		86	72 - 130	4	18

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-312211/4

Matrix: Water

Analysis Batch: 312211

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	10.0	9.56		ug/L		96	77 - 125	2	18
m-Xylene & p-Xylene	10.0	8.88		ug/L		89	80 - 120	1	14
n-Butylbenzene	10.0	9.30		ug/L		93	78 - 120	9	14
N-Propylbenzene	10.0	10.0	*	ug/L		100	80 - 120	15	13
o-Xylene	10.0	9.50		ug/L		95	80 - 120	2	16
sec-Butylbenzene	10.0	9.23		ug/L		92	78 - 120	8	15
Styrene	10.0	9.60		ug/L		96	76 - 121	2	16
t-Butylbenzene	10.0	9.16		ug/L		92	80 - 121	7	14
Toluene	10.0	8.82		ug/L		88	80 - 120	0	19
trans-1,2-Dichloroethene	10.0	8.33		ug/L		83	77 - 124	0	21
Trichlorofluoromethane	10.0	6.64		ug/L		66	64 - 136	4	27

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	99		80 - 126
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	102		80 - 120
Trifluorotoluene (Surr)	103		80 - 120

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-311960/7

Matrix: Water

Analysis Batch: 311960

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.0090	ug/L			09/22/19 17:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.049	ug/L			09/22/19 17:50	1
1,1,2-Trichloroethane	ND		0.50	0.017	ug/L			09/22/19 17:50	1
1,1-Dichloroethene	ND		0.50	0.014	ug/L			09/22/19 17:50	1
1,2-Dibromoethane	ND		0.50	0.014	ug/L			09/22/19 17:50	1
1,2-Dichloroethane	ND		0.50	0.024	ug/L			09/22/19 17:50	1
1,4-Dichlorobenzene	ND		0.50	0.014	ug/L			09/22/19 17:50	1
Benzene	ND		0.50	0.0090	ug/L			09/22/19 17:50	1
Bromodichloromethane	ND		0.50	0.0060	ug/L			09/22/19 17:50	1
Bromoform	ND		0.50	0.013	ug/L			09/22/19 17:50	1
Bromomethane	ND		0.50	0.012	ug/L			09/22/19 17:50	1
Chloroform	ND		0.50	0.0090	ug/L			09/22/19 17:50	1
cis-1,3-Dichloropropene	ND		0.50	0.026	ug/L			09/22/19 17:50	1
Dibromochloromethane	ND		0.50	0.016	ug/L			09/22/19 17:50	1
Dibromomethane	ND		0.50	0.017	ug/L			09/22/19 17:50	1
Hexachlorobutadiene	0.126	J	0.50	0.026	ug/L			09/22/19 17:50	1
Naphthalene	0.412	J	0.50	0.013	ug/L			09/22/19 17:50	1
Tetrachloroethene	ND		0.50	0.017	ug/L			09/22/19 17:50	1
trans-1,3-Dichloropropene	ND		0.50	0.027	ug/L			09/22/19 17:50	1
Trichloroethene	ND		0.50	0.0090	ug/L			09/22/19 17:50	1
Vinyl chloride	ND		0.50	0.013	ug/L			09/22/19 17:50	1

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Method: 8260C SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-311960/7
Matrix: Water
Analysis Batch: 311960

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	101		48 - 150		09/22/19 17:50	1
4-Bromofluorobenzene (Surr)	98		75 - 120		09/22/19 17:50	1
Dibromofluoromethane (Surr)	98		80 - 120		09/22/19 17:50	1
Toluene-d8 (Surr)	101		75 - 120		09/22/19 17:50	1
Trifluorotoluene (Surr)	98		80 - 120		09/22/19 17:50	1

Lab Sample ID: LCS 580-311960/4
Matrix: Water
Analysis Batch: 311960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,1,1,2-Tetrachloroethane	10.0	10.1		ug/L		101	64 - 124
1,1,2,2-Tetrachloroethane	10.0	10.9		ug/L		109	65 - 144
1,1,2-Trichloroethane	10.0	10.0		ug/L		100	69 - 135
1,1-Dichloroethene	10.0	9.53		ug/L		95	64 - 139
1,2-Dibromoethane	10.0	10.2		ug/L		102	75 - 120
1,2-Dichloroethane	10.0	10.0		ug/L		100	58 - 155
1,4-Dichlorobenzene	10.0	11.5		ug/L		115	75 - 130
Benzene	10.0	10.1		ug/L		101	71 - 137
Bromodichloromethane	10.0	10.1		ug/L		101	61 - 150
Bromoform	10.0	10.2		ug/L		102	55 - 130
Bromomethane	10.0	8.73		ug/L		87	69 - 137
Chloroform	10.0	9.77		ug/L		98	65 - 150
cis-1,3-Dichloropropene	10.0	10.8		ug/L		108	61 - 140
Dibromochloromethane	10.0	10.4		ug/L		104	71 - 120
Dibromomethane	10.0	9.57		ug/L		96	67 - 126
Hexachlorobutadiene	10.0	11.5		ug/L		115	73 - 139
Naphthalene	10.0	12.3		ug/L		123	69 - 134
Tetrachloroethene	10.0	10.2		ug/L		102	63 - 134
trans-1,3-Dichloropropene	10.0	10.8		ug/L		108	62 - 133
Trichloroethene	10.0	9.88		ug/L		99	70 - 140
Vinyl chloride	10.0	9.56		ug/L		96	56 - 150

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		48 - 150
4-Bromofluorobenzene (Surr)	96		75 - 120
Dibromofluoromethane (Surr)	98		80 - 120
Toluene-d8 (Surr)	102		75 - 120
Trifluorotoluene (Surr)	101		80 - 120

Lab Sample ID: LCSD 580-311960/5
Matrix: Water
Analysis Batch: 311960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	
							Limits	RPD	Limit
1,1,1,2-Tetrachloroethane	10.0	10.1		ug/L		101	64 - 124	0	10
1,1,2,2-Tetrachloroethane	10.0	9.05	*	ug/L		91	65 - 144	19	18
1,1,2-Trichloroethane	10.0	9.34		ug/L		93	69 - 135	7	15

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Method: 8260C SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-311960/5
Matrix: Water
Analysis Batch: 311960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
1,1-Dichloroethene	10.0	8.96		ug/L		90	64 - 139	6	11	
1,2-Dibromoethane	10.0	9.55		ug/L		95	75 - 120	6	17	
1,2-Dichloroethane	10.0	9.85		ug/L		98	58 - 155	2	11	
1,4-Dichlorobenzene	10.0	9.84		ug/L		98	75 - 130	16	35	
Benzene	10.0	9.77		ug/L		98	71 - 137	3	10	
Bromodichloromethane	10.0	9.80		ug/L		98	61 - 150	3	10	
Bromoform	10.0	9.85		ug/L		99	55 - 130	4	14	
Bromomethane	10.0	9.75		ug/L		97	69 - 137	11	16	
Chloroform	10.0	9.70		ug/L		97	65 - 150	1	10	
cis-1,3-Dichloropropene	10.0	10.4		ug/L		104	61 - 140	4	30	
Dibromochloromethane	10.0	9.96		ug/L		100	71 - 120	5	21	
Dibromomethane	10.0	9.41		ug/L		94	67 - 126	2	15	
Hexachlorobutadiene	10.0	9.46		ug/L		95	73 - 139	19	19	
Naphthalene	10.0	9.96	*	ug/L		100	69 - 134	21	13	
Tetrachloroethene	10.0	9.41		ug/L		94	63 - 134	8	20	
trans-1,3-Dichloropropene	10.0	10.2		ug/L		102	62 - 133	6	30	
Trichloroethene	10.0	9.79		ug/L		98	70 - 140	1	10	
Vinyl chloride	10.0	8.68		ug/L		87	56 - 150	10	16	

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		48 - 150
4-Bromofluorobenzene (Surr)	101		75 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	101		75 - 120
Trifluorotoluene (Surr)	99		80 - 120

Lab Sample ID: MB 580-312081/7
Matrix: Water
Analysis Batch: 312081

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		0.50	0.0090	ug/L		09/24/19 05:49	09/24/19 05:49	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.049	ug/L		09/24/19 05:49	09/24/19 05:49	1
1,1,2-Trichloroethane	ND		0.50	0.017	ug/L		09/24/19 05:49	09/24/19 05:49	1
1,1-Dichloroethene	ND		0.50	0.014	ug/L		09/24/19 05:49	09/24/19 05:49	1
1,2-Dibromoethane	ND		0.50	0.014	ug/L		09/24/19 05:49	09/24/19 05:49	1
1,2-Dichloroethane	ND		0.50	0.024	ug/L		09/24/19 05:49	09/24/19 05:49	1
1,4-Dichlorobenzene	ND		0.50	0.014	ug/L		09/24/19 05:49	09/24/19 05:49	1
Benzene	ND		0.50	0.0090	ug/L		09/24/19 05:49	09/24/19 05:49	1
Bromodichloromethane	ND		0.50	0.0060	ug/L		09/24/19 05:49	09/24/19 05:49	1
Bromoform	ND		0.50	0.013	ug/L		09/24/19 05:49	09/24/19 05:49	1
Bromomethane	ND		0.50	0.012	ug/L		09/24/19 05:49	09/24/19 05:49	1
Chloroform	ND		0.50	0.0090	ug/L		09/24/19 05:49	09/24/19 05:49	1
cis-1,3-Dichloropropene	ND		0.50	0.026	ug/L		09/24/19 05:49	09/24/19 05:49	1
Dibromochloromethane	ND		0.50	0.016	ug/L		09/24/19 05:49	09/24/19 05:49	1
Dibromomethane	ND		0.50	0.017	ug/L		09/24/19 05:49	09/24/19 05:49	1
Hexachlorobutadiene	ND		0.50	0.026	ug/L		09/24/19 05:49	09/24/19 05:49	1
Naphthalene	0.149	J	0.50	0.013	ug/L		09/24/19 05:49	09/24/19 05:49	1

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Method: 8260C SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-312081/7
Matrix: Water
Analysis Batch: 312081

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.50	0.017	ug/L			09/24/19 05:49	1
trans-1,3-Dichloropropene	ND		0.50	0.027	ug/L			09/24/19 05:49	1
Trichloroethene	ND		0.50	0.0090	ug/L			09/24/19 05:49	1
Vinyl chloride	ND		0.50	0.013	ug/L			09/24/19 05:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		48 - 150		09/24/19 05:49	1
4-Bromofluorobenzene (Surr)	99		75 - 120		09/24/19 05:49	1
Dibromofluoromethane (Surr)	100		80 - 120		09/24/19 05:49	1
Toluene-d8 (Surr)	100		75 - 120		09/24/19 05:49	1
Trifluorotoluene (Surr)	98		80 - 120		09/24/19 05:49	1

Lab Sample ID: LCS 580-312081/4
Matrix: Water
Analysis Batch: 312081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.00	4.54		ug/L		91	64 - 124
1,1,2,2-Tetrachloroethane	5.00	4.28		ug/L		86	65 - 144
1,1,2-Trichloroethane	5.00	4.19		ug/L		84	69 - 135
1,1-Dichloroethene	5.00	4.29		ug/L		86	64 - 139
1,2-Dibromoethane	5.00	4.28		ug/L		86	75 - 120
1,2-Dichloroethane	5.00	4.78		ug/L		96	58 - 155
1,4-Dichlorobenzene	5.00	4.80		ug/L		96	75 - 130
Benzene	5.00	4.71		ug/L		94	71 - 137
Bromodichloromethane	5.00	4.71		ug/L		94	61 - 150
Bromoform	5.00	4.40		ug/L		88	55 - 130
Bromomethane	5.00	4.89		ug/L		98	69 - 137
Chloroform	5.00	4.75		ug/L		95	65 - 150
cis-1,3-Dichloropropene	5.00	4.44		ug/L		89	61 - 140
Dibromochloromethane	5.00	4.37		ug/L		87	71 - 120
Dibromomethane	5.00	4.65		ug/L		93	67 - 126
Hexachlorobutadiene	5.00	4.42		ug/L		88	73 - 139
Naphthalene	5.00	4.30		ug/L		86	69 - 134
Tetrachloroethene	5.00	4.15		ug/L		83	63 - 134
trans-1,3-Dichloropropene	5.00	4.35		ug/L		87	62 - 133
Trichloroethene	5.00	4.82		ug/L		96	70 - 140
Vinyl chloride	5.00	4.15		ug/L		83	56 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		48 - 150
4-Bromofluorobenzene (Surr)	95		75 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	92		75 - 120
Trifluorotoluene (Surr)	101		80 - 120

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Method: 8260C SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-312081/5
Matrix: Water
Analysis Batch: 312081

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	RPD Limit
							Limits	RPD		
1,1,1,2-Tetrachloroethane	5.00	3.95	*	ug/L		79	64 - 124	14	10	
1,1,2,2-Tetrachloroethane	5.00	4.39		ug/L		88	65 - 144	2	18	
1,1,2-Trichloroethane	5.00	4.10		ug/L		82	69 - 135	2	15	
1,1-Dichloroethene	5.00	4.21		ug/L		84	64 - 139	2	11	
1,2-Dibromoethane	5.00	4.15		ug/L		83	75 - 120	3	17	
1,2-Dichloroethane	5.00	4.44		ug/L		89	58 - 155	7	11	
1,4-Dichlorobenzene	5.00	4.51		ug/L		90	75 - 130	6	35	
Benzene	5.00	4.42		ug/L		88	71 - 137	6	10	
Bromodichloromethane	5.00	4.44		ug/L		89	61 - 150	6	10	
Bromoform	5.00	4.00		ug/L		80	55 - 130	10	14	
Bromomethane	5.00	3.98	*	ug/L		80	69 - 137	20	16	
Chloroform	5.00	4.34		ug/L		87	65 - 150	9	10	
cis-1,3-Dichloropropene	5.00	4.01		ug/L		80	61 - 140	10	30	
Dibromochloromethane	5.00	4.07		ug/L		81	71 - 120	7	21	
Dibromomethane	5.00	4.41		ug/L		88	67 - 126	5	15	
Hexachlorobutadiene	5.00	4.20		ug/L		84	73 - 139	5	19	
Naphthalene	5.00	4.35		ug/L		87	69 - 134	1	13	
Tetrachloroethene	5.00	3.89		ug/L		78	63 - 134	7	20	
trans-1,3-Dichloropropene	5.00	4.04		ug/L		81	62 - 133	7	30	
Trichloroethene	5.00	4.36		ug/L		87	70 - 140	10	10	
Vinyl chloride	5.00	3.90		ug/L		78	56 - 150	6	16	

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	97		48 - 150
4-Bromofluorobenzene (Surr)	94		75 - 120
Dibromofluoromethane (Surr)	99		80 - 120
Toluene-d8 (Surr)	92		75 - 120
Trifluorotoluene (Surr)	104		80 - 120

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-311540/1-A
Matrix: Water
Analysis Batch: 311676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311540

Analyte	MB MB		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
1-Methylnaphthalene	ND		0.10	0.019	ug/L		09/18/19 10:16	09/19/19 10:13	10:13	1	
2-Methylnaphthalene	ND		0.20	0.039	ug/L		09/18/19 10:16	09/19/19 10:13	10:13	1	
Acenaphthene	ND		0.10	0.014	ug/L		09/18/19 10:16	09/19/19 10:13	10:13	1	
Acenaphthylene	ND		0.050	0.0090	ug/L		09/18/19 10:16	09/19/19 10:13	10:13	1	
Anthracene	ND		0.10	0.022	ug/L		09/18/19 10:16	09/19/19 10:13	10:13	1	
Benzo[a]anthracene	ND		0.050	0.014	ug/L		09/18/19 10:16	09/19/19 10:13	10:13	1	
Benzo[a]pyrene	ND		0.10	0.011	ug/L		09/18/19 10:16	09/19/19 10:13	10:13	1	
Benzo[b]fluoranthene	ND		0.050	0.011	ug/L		09/18/19 10:16	09/19/19 10:13	10:13	1	
Benzo[g,h,i]perylene	ND		0.050	0.012	ug/L		09/18/19 10:16	09/19/19 10:13	10:13	1	
Benzo[k]fluoranthene	ND		0.050	0.012	ug/L		09/18/19 10:16	09/19/19 10:13	10:13	1	
Chrysene	ND		0.10	0.016	ug/L		09/18/19 10:16	09/19/19 10:13	10:13	1	
Dibenz(a,h)anthracene	ND		0.10	0.026	ug/L		09/18/19 10:16	09/19/19 10:13	10:13	1	

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 580-311540/1-A
Matrix: Water
Analysis Batch: 311676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311540

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.20	0.050	ug/L		09/18/19 10:16	09/19/19 10:13	1
Fluorene	ND		0.10	0.017	ug/L		09/18/19 10:16	09/19/19 10:13	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.014	ug/L		09/18/19 10:16	09/19/19 10:13	1
Naphthalene	ND		0.10	0.031	ug/L		09/18/19 10:16	09/19/19 10:13	1
Phenanthrene	ND		0.10	0.031	ug/L		09/18/19 10:16	09/19/19 10:13	1
Pyrene	ND		0.10	0.033	ug/L		09/18/19 10:16	09/19/19 10:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	59		53 - 120	09/18/19 10:16	09/19/19 10:13	1

Lab Sample ID: LCS 580-311540/2-A
Matrix: Water
Analysis Batch: 311676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311540

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	4.00	2.03		ug/L		51	35 - 120
2-Methylnaphthalene	4.00	2.10		ug/L		52	33 - 120
Acenaphthene	4.00	2.25		ug/L		56	42 - 120
Acenaphthylene	4.00	2.48		ug/L		62	42 - 120
Anthracene	4.00	2.87		ug/L		72	56 - 120
Benzo[a]anthracene	4.00	3.49		ug/L		87	61 - 129
Benzo[a]pyrene	4.00	3.24		ug/L		81	56 - 130
Benzo[b]fluoranthene	4.00	3.18		ug/L		80	53 - 133
Benzo[g,h,i]perylene	4.00	3.19		ug/L		80	55 - 127
Benzo[k]fluoranthene	4.00	3.13		ug/L		78	51 - 132
Chrysene	4.00	2.90		ug/L		72	47 - 126
Dibenz(a,h)anthracene	4.00	3.29		ug/L		82	60 - 133
Fluoranthene	4.00	2.92		ug/L		73	52 - 129
Fluorene	4.00	2.56		ug/L		64	49 - 120
Indeno[1,2,3-cd]pyrene	4.00	3.60		ug/L		90	56 - 135
Naphthalene	4.00	1.92		ug/L		48	36 - 120
Phenanthrene	4.00	2.53		ug/L		63	54 - 120
Pyrene	4.00	2.78		ug/L		70	50 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	59		53 - 120

Lab Sample ID: LCSD 580-311540/3-A
Matrix: Water
Analysis Batch: 311676

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 311540

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
1-Methylnaphthalene	4.00	2.05		ug/L		51	35 - 120	1	34
2-Methylnaphthalene	4.00	2.11		ug/L		53	33 - 120	1	30
Acenaphthene	4.00	2.25		ug/L		56	42 - 120	0	24
Acenaphthylene	4.00	2.46		ug/L		62	42 - 120	1	26
Anthracene	4.00	2.92		ug/L		73	56 - 120	2	29
Benzo[a]anthracene	4.00	3.55		ug/L		89	61 - 129	2	31

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 580-311540/3-A
Matrix: Water
Analysis Batch: 311676

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 311540

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]pyrene	4.00	3.26		ug/L		81	56 - 130	1	27
Benzo[b]fluoranthene	4.00	3.21		ug/L		80	53 - 133	1	25
Benzo[g,h,i]perylene	4.00	3.18		ug/L		80	55 - 127	0	27
Benzo[k]fluoranthene	4.00	3.05		ug/L		76	51 - 132	3	25
Chrysene	4.00	2.84		ug/L		71	47 - 126	2	23
Dibenz(a,h)anthracene	4.00	3.27		ug/L		82	60 - 133	0	25
Fluoranthene	4.00	2.95		ug/L		74	52 - 129	1	32
Fluorene	4.00	2.53		ug/L		63	49 - 120	1	21
Indeno[1,2,3-cd]pyrene	4.00	3.73		ug/L		93	56 - 135	4	24
Naphthalene	4.00	1.95		ug/L		49	36 - 120	2	27
Phenanthrene	4.00	2.58		ug/L		64	54 - 120	2	21
Pyrene	4.00	2.83		ug/L		71	50 - 127	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Terphenyl-d14	59		53 - 120

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Lab Sample ID: MB 580-311446/9
Matrix: Water
Analysis Batch: 311446

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/17/19 15:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	123		50 - 150		09/17/19 15:13	1
4-Bromofluorobenzene (Surr)	98		50 - 150		09/17/19 15:13	1

Lab Sample ID: LCS 580-311446/10
Matrix: Water
Analysis Batch: 311446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	1.00	0.942		mg/L		94	77 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Trifluorotoluene (Surr)	103		50 - 150
4-Bromofluorobenzene (Surr)	103		50 - 150

Lab Sample ID: LCSD 580-311446/11
Matrix: Water
Analysis Batch: 311446

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	1.00	0.972		mg/L		97	77 - 123	3	20

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Method: AK101 - Alaska - Gasoline Range Organics (GC) (Continued)

Surrogate	LCS D %Recovery	LCS D Qualifier	Limits
Trifluorotoluene (Surr)	103		50 - 150
4-Bromofluorobenzene (Surr)	101		50 - 150

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 580-312350/2-A
 Matrix: Water
 Analysis Batch: 312456

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 312350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.030	0.0080	ug/L		09/25/19 20:09	09/26/19 16:47	1
Ethylene Dibromide	ND		0.010	0.0020	ug/L		09/25/19 20:09	09/26/19 16:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	109		60 - 140	09/25/19 20:09	09/26/19 16:47	1

Lab Sample ID: LCS 580-312350/3-A
 Matrix: Water
 Analysis Batch: 312456

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 312350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,3-Trichloropropane	0.0571	0.0479		ug/L		84	60 - 140
Ethylene Dibromide	0.0571	0.0645		ug/L		113	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dibromopropane	113		60 - 140

Lab Sample ID: LCSD 580-312350/4-A
 Matrix: Water
 Analysis Batch: 312456

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 312350

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
1,2,3-Trichloropropane	0.0571	0.0475		ug/L		83	60 - 140	1	20
Ethylene Dibromide	0.0571	0.0637		ug/L		111	60 - 140	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dibromopropane	117		60 - 140

Lab Sample ID: LLCS 580-312350/5-A
 Matrix: Water
 Analysis Batch: 312456

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 312350

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
1,2,3-Trichloropropane	0.0114	0.00985	J	ug/L		86	60 - 140
Ethylene Dibromide	0.0114	0.0108		ug/L		94	60 - 140

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
1,2-Dibromopropane	115		60 - 140

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Lab Sample ID: MB 580-312207/1-A
Matrix: Water
Analysis Batch: 312267

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		0.11	0.075	mg/L		09/24/19 16:14	09/25/19 12:26	1
Surrogate	%Recovery	MB Qualifier	MB	Limits			Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	72			50 - 150			09/24/19 16:14	09/25/19 12:26	1

Lab Sample ID: LCS 580-312207/2-A
Matrix: Water
Analysis Batch: 312267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 312207

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (nC10-<nC25)	2.00	1.66		mg/L		83	75 - 125
Surrogate	%Recovery	LCS Qualifier	LCS	Limits			
<i>o</i> -Terphenyl	86			50 - 150			

Lab Sample ID: LCSD 580-312207/3-A
Matrix: Water
Analysis Batch: 312267

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 312207

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DRO (nC10-<nC25)	2.00	1.71		mg/L		85	75 - 125	3	20
Surrogate	%Recovery	LCSD Qualifier	LCSD	Limits					
<i>o</i> -Terphenyl	93			50 - 150					

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

GC/MS VOA

Analysis Batch: 311960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89096-1	EQB-1-W-190911	Total/NA	Water	8260C SIM	
580-89096-2	MW-8RR-W-190911	Total/NA	Water	8260C SIM	
580-89096-3	MW-1R-W-190911	Total/NA	Water	8260C SIM	
580-89096-4	MW-2R-W-190911	Total/NA	Water	8260C SIM	
580-89096-5	MW-9-W-190911	Total/NA	Water	8260C SIM	
580-89096-6	BD-1-W-190911	Total/NA	Water	8260C SIM	
580-89096-7	Trip Blank	Total/NA	Water	8260C SIM	
MB 580-311960/7	Method Blank	Total/NA	Water	8260C SIM	
LCS 580-311960/4	Lab Control Sample	Total/NA	Water	8260C SIM	
LCSD 580-311960/5	Lab Control Sample Dup	Total/NA	Water	8260C SIM	

Analysis Batch: 312081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89096-5 - DL	MW-9-W-190911	Total/NA	Water	8260C SIM	
580-89096-6 - RA	BD-1-W-190911	Total/NA	Water	8260C SIM	
MB 580-312081/7	Method Blank	Total/NA	Water	8260C SIM	
LCS 580-312081/4	Lab Control Sample	Total/NA	Water	8260C SIM	
LCSD 580-312081/5	Lab Control Sample Dup	Total/NA	Water	8260C SIM	

Analysis Batch: 312211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89096-1	EQB-1-W-190911	Total/NA	Water	8260C	
580-89096-2	MW-8RR-W-190911	Total/NA	Water	8260C	
580-89096-3	MW-1R-W-190911	Total/NA	Water	8260C	
580-89096-4	MW-2R-W-190911	Total/NA	Water	8260C	
580-89096-5	MW-9-W-190911	Total/NA	Water	8260C	
580-89096-6	BD-1-W-190911	Total/NA	Water	8260C	
580-89096-7	Trip Blank	Total/NA	Water	8260C	
MB 580-312211/6	Method Blank	Total/NA	Water	8260C	
LCS 580-312211/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 580-312211/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 311540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89096-4	MW-2R-W-190911	Total/NA	Water	3510C	
MB 580-311540/1-A	Method Blank	Total/NA	Water	3510C	
LCS 580-311540/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-311540/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 311676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89096-4	MW-2R-W-190911	Total/NA	Water	8270D SIM	311540
MB 580-311540/1-A	Method Blank	Total/NA	Water	8270D SIM	311540
LCS 580-311540/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	311540
LCSD 580-311540/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	311540

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

GC VOA

Analysis Batch: 311446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89096-1	EQB-1-W-190911	Total/NA	Water	AK101	
580-89096-2	MW-8RR-W-190911	Total/NA	Water	AK101	
580-89096-3	MW-1R-W-190911	Total/NA	Water	AK101	
580-89096-4	MW-2R-W-190911	Total/NA	Water	AK101	
580-89096-5	MW-9-W-190911	Total/NA	Water	AK101	
580-89096-6	BD-1-W-190911	Total/NA	Water	AK101	
580-89096-7	Trip Blank	Total/NA	Water	AK101	
MB 580-311446/9	Method Blank	Total/NA	Water	AK101	
LCS 580-311446/10	Lab Control Sample	Total/NA	Water	AK101	
LCSD 580-311446/11	Lab Control Sample Dup	Total/NA	Water	AK101	

GC Semi VOA

Prep Batch: 312207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89096-1	EQB-1-W-190911	Total/NA	Water	3510C	
580-89096-2	MW-8RR-W-190911	Total/NA	Water	3510C	
580-89096-3	MW-1R-W-190911	Total/NA	Water	3510C	
580-89096-4	MW-2R-W-190911	Total/NA	Water	3510C	
580-89096-5	MW-9-W-190911	Total/NA	Water	3510C	
580-89096-6	BD-1-W-190911	Total/NA	Water	3510C	
MB 580-312207/1-A	Method Blank	Total/NA	Water	3510C	
LCS 580-312207/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-312207/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 312267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89096-1	EQB-1-W-190911	Total/NA	Water	AK102 & 103	312207
580-89096-2	MW-8RR-W-190911	Total/NA	Water	AK102 & 103	312207
580-89096-3	MW-1R-W-190911	Total/NA	Water	AK102 & 103	312207
580-89096-4	MW-2R-W-190911	Total/NA	Water	AK102 & 103	312207
580-89096-5	MW-9-W-190911	Total/NA	Water	AK102 & 103	312207
580-89096-6	BD-1-W-190911	Total/NA	Water	AK102 & 103	312207
MB 580-312207/1-A	Method Blank	Total/NA	Water	AK102 & 103	312207
LCS 580-312207/2-A	Lab Control Sample	Total/NA	Water	AK102 & 103	312207
LCSD 580-312207/3-A	Lab Control Sample Dup	Total/NA	Water	AK102 & 103	312207

Prep Batch: 312350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89096-1	EQB-1-W-190911	Total/NA	Water	8011	
580-89096-2	MW-8RR-W-190911	Total/NA	Water	8011	
580-89096-3	MW-1R-W-190911	Total/NA	Water	8011	
580-89096-4	MW-2R-W-190911	Total/NA	Water	8011	
580-89096-5	MW-9-W-190911	Total/NA	Water	8011	
580-89096-6	BD-1-W-190911	Total/NA	Water	8011	
580-89096-7	Trip Blank	Total/NA	Water	8011	
MB 580-312350/2-A	Method Blank	Total/NA	Water	8011	
LCS 580-312350/3-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 580-312350/4-A	Lab Control Sample Dup	Total/NA	Water	8011	
LLCS 580-312350/5-A	Lab Control Sample	Total/NA	Water	8011	

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

GC Semi VOA

Analysis Batch: 312456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89096-1	EQB-1-W-190911	Total/NA	Water	8011	312350
580-89096-2	MW-8RR-W-190911	Total/NA	Water	8011	312350
580-89096-3	MW-1R-W-190911	Total/NA	Water	8011	312350
580-89096-4	MW-2R-W-190911	Total/NA	Water	8011	312350
580-89096-5	MW-9-W-190911	Total/NA	Water	8011	312350
580-89096-6	BD-1-W-190911	Total/NA	Water	8011	312350
580-89096-7	Trip Blank	Total/NA	Water	8011	312350
MB 580-312350/2-A	Method Blank	Total/NA	Water	8011	312350
LCS 580-312350/3-A	Lab Control Sample	Total/NA	Water	8011	312350
LCSD 580-312350/4-A	Lab Control Sample Dup	Total/NA	Water	8011	312350
LLCS 580-312350/5-A	Lab Control Sample	Total/NA	Water	8011	312350

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: EQB-1-W-190911

Lab Sample ID: 580-89096-1

Date Collected: 09/11/19 12:30

Matrix: Water

Date Received: 09/12/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312211	09/25/19 03:53	APR	TAL SEA
Total/NA	Analysis	8260C SIM		1	311960	09/22/19 23:28	APR	TAL SEA
Total/NA	Analysis	AK101		1	311446	09/17/19 17:45	TL1	TAL SEA
Total/NA	Prep	8011			312350	09/25/19 20:09	FCG	TAL SEA
Total/NA	Analysis	8011		1	312456	09/26/19 17:54	CJ	TAL SEA
Total/NA	Prep	3510C			312207	09/24/19 16:14	T1L	TAL SEA
Total/NA	Analysis	AK102 & 103		1	312267	09/25/19 15:27	TL1	TAL SEA

Client Sample ID: MW-8RR-W-190911

Lab Sample ID: 580-89096-2

Date Collected: 09/11/19 13:10

Matrix: Water

Date Received: 09/12/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312211	09/25/19 04:18	APR	TAL SEA
Total/NA	Analysis	8260C SIM		1	311960	09/22/19 23:54	APR	TAL SEA
Total/NA	Analysis	AK101		1	311446	09/17/19 19:16	TL1	TAL SEA
Total/NA	Prep	8011			312350	09/25/19 20:09	FCG	TAL SEA
Total/NA	Analysis	8011		1	312456	09/26/19 18:10	CJ	TAL SEA
Total/NA	Prep	3510C			312207	09/24/19 16:14	T1L	TAL SEA
Total/NA	Analysis	AK102 & 103		1	312267	09/25/19 15:50	TL1	TAL SEA

Client Sample ID: MW-1R-W-190911

Lab Sample ID: 580-89096-3

Date Collected: 09/11/19 14:10

Matrix: Water

Date Received: 09/12/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312211	09/25/19 04:43	APR	TAL SEA
Total/NA	Analysis	8260C SIM		1	311960	09/23/19 00:20	APR	TAL SEA
Total/NA	Analysis	AK101		1	311446	09/17/19 19:47	TL1	TAL SEA
Total/NA	Prep	8011			312350	09/25/19 20:09	FCG	TAL SEA
Total/NA	Analysis	8011		1	312456	09/26/19 18:27	CJ	TAL SEA
Total/NA	Prep	3510C			312207	09/24/19 16:14	T1L	TAL SEA
Total/NA	Analysis	AK102 & 103		1	312267	09/25/19 16:35	TL1	TAL SEA

Client Sample ID: MW-2R-W-190911

Lab Sample ID: 580-89096-4

Date Collected: 09/11/19 15:00

Matrix: Water

Date Received: 09/12/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312211	09/25/19 05:08	APR	TAL SEA
Total/NA	Analysis	8260C SIM		1	311960	09/23/19 00:46	APR	TAL SEA
Total/NA	Prep	3510C			311540	09/18/19 10:16	N1C	TAL SEA
Total/NA	Analysis	8270D SIM		1	311676	09/19/19 12:24	W1T	TAL SEA
Total/NA	Analysis	AK101		1	311446	09/17/19 20:48	TL1	TAL SEA

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Client Sample ID: MW-2R-W-190911

Lab Sample ID: 580-89096-4

Date Collected: 09/11/19 15:00

Matrix: Water

Date Received: 09/12/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			312350	09/25/19 20:09	FCG	TAL SEA
Total/NA	Analysis	8011		1	312456	09/26/19 18:43	CJ	TAL SEA
Total/NA	Prep	3510C			312207	09/24/19 16:14	T1L	TAL SEA
Total/NA	Analysis	AK102 & 103		1	312267	09/25/19 16:57	TL1	TAL SEA

Client Sample ID: MW-9-W-190911

Lab Sample ID: 580-89096-5

Date Collected: 09/11/19 16:10

Matrix: Water

Date Received: 09/12/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312211	09/25/19 05:32	APR	TAL SEA
Total/NA	Analysis	8260C SIM		1	311960	09/23/19 01:12	APR	TAL SEA
Total/NA	Analysis	8260C SIM	DL	5	312081	09/24/19 10:11	APR	TAL SEA
Total/NA	Analysis	AK101		1	311446	09/17/19 21:18	TL1	TAL SEA
Total/NA	Prep	8011			312350	09/25/19 20:09	FCG	TAL SEA
Total/NA	Analysis	8011		1	312456	09/26/19 18:59	CJ	TAL SEA
Total/NA	Prep	3510C			312207	09/24/19 16:14	T1L	TAL SEA
Total/NA	Analysis	AK102 & 103		1	312267	09/25/19 17:20	TL1	TAL SEA

Client Sample ID: BD-1-W-190911

Lab Sample ID: 580-89096-6

Date Collected: 09/11/19 00:00

Matrix: Water

Date Received: 09/12/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312211	09/25/19 05:57	APR	TAL SEA
Total/NA	Analysis	8260C SIM		1	311960	09/23/19 01:38	APR	TAL SEA
Total/NA	Analysis	8260C SIM	RA	1	312081	09/24/19 09:44	APR	TAL SEA
Total/NA	Analysis	AK101		1	311446	09/17/19 21:49	TL1	TAL SEA
Total/NA	Prep	8011			312350	09/25/19 20:09	FCG	TAL SEA
Total/NA	Analysis	8011		1	312456	09/26/19 19:15	CJ	TAL SEA
Total/NA	Prep	3510C			312207	09/24/19 16:14	T1L	TAL SEA
Total/NA	Analysis	AK102 & 103		1	312267	09/25/19 17:42	TL1	TAL SEA

Client Sample ID: Trip Blank

Lab Sample ID: 580-89096-7

Date Collected: 09/11/19 00:00

Matrix: Water

Date Received: 09/12/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312211	09/25/19 02:14	APR	TAL SEA
Total/NA	Analysis	8260C SIM		1	311960	09/22/19 18:42	APR	TAL SEA
Total/NA	Analysis	AK101		1	311446	09/17/19 18:16	TL1	TAL SEA
Total/NA	Prep	8011			312350	09/25/19 20:09	FCG	TAL SEA
Total/NA	Analysis	8011		1	312456	09/26/19 19:48	CJ	TAL SEA

Lab Chronicle

Client: ARCADIS U.S. Inc

Job ID: 580-89096-1

Project/Site: Chevron Site 97324 Anchorage, Alaska

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	01-19-22
Alaska (UST)	State Program	17-024	01-19-20
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	DoD	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-19
California	State Program	2901	11-05-19
Montana (UST)	State	NA	04-13-21
Montana (UST)	State Program	N/A	04-30-20
Oregon	NELAP	WA100007	11-05-19
Oregon	NELAP	WA100007	11-05-19
US Fish & Wildlife	Federal	LE058448-0	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P330-14-00126	02-10-20
USDA	US Federal Programs	P330-17-00039	02-10-20
Washington	State	C553	02-17-20
Washington	State Program	C553	02-17-20

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SEA
8260C SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL SEA
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SEA
AK101	Alaska - Gasoline Range Organics (GC)	ADEC	TAL SEA
8011	EDB and DBCP in Water by Microextraction	EPA	TAL SEA
AK102 & 103	Alaska - Diesel Range Organics & Residual Range Organics (GC)	ADEC	TAL SEA
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL SEA
5030B	Purge and Trap	SW846	TAL SEA
8011	Microextraction	SW846	TAL SEA

Protocol References:

ADEC = Alaska Department of Environmental Conservation

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site 97324 Anchorage, Alaska

Job ID: 580-89096-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-89096-1	EQB-1-W-190911	Water	09/11/19 12:30	09/12/19 09:00	
580-89096-2	MW-8RR-W-190911	Water	09/11/19 13:10	09/12/19 09:00	
580-89096-3	MW-1R-W-190911	Water	09/11/19 14:10	09/12/19 09:00	
580-89096-4	MW-2R-W-190911	Water	09/11/19 15:00	09/12/19 09:00	
580-89096-5	MW-9-W-190911	Water	09/11/19 16:10	09/12/19 09:00	
580-89096-6	BD-1-W-190911	Water	09/11/19 00:00	09/12/19 09:00	
580-89096-7	Trip Blank	Water	09/11/19 00:00	09/12/19 09:00	

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA102 Analysis Batch Number: 311491Lab Sample ID: IC 580-311491/2 Client Sample ID: _____Date Analyzed: 09/18/19 11:32 Lab File ID: 091819_0007.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.45	Assign Peak	ruslander a	09/18/19 12:35
Vinyl chloride	4.69	Assign Peak	ruslander a	09/18/19 12:35
Butadiene	4.78	Assign Peak	ruslander a	09/18/19 12:35
Bromomethane	5.19	Assign Peak	ruslander a	09/18/19 12:35
Acrolein	5.99	Assign Peak	ruslander a	09/18/19 12:35
Isopropyl alcohol	6.11	Other	ruslander a	09/18/19 17:59
Isobutanol	8.36	Assign Peak	limwirojt	09/19/19 10:08
Ethyl acrylate	9.63	Peak assignment corrected	ruslander a	09/18/19 14:25
Methyl methacrylate	9.89	Assign Peak	ruslander a	09/18/19 12:37
Styrene	13.05	Peak assignment corrected	ruslander a	09/18/19 12:42
1,2,3-Trichloropropane	13.25	Assign Peak	ruslander a	09/18/19 12:38

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA102 Analysis Batch Number: 311491Lab Sample ID: IC 580-311491/3 Client Sample ID: _____Date Analyzed: 09/18/19 11:57 Lab File ID: 091819_0008.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	4.14	Assign Peak	ruslander a	09/18/19 12:38
Chloromethane	4.45	Assign Peak	ruslander a	09/18/19 12:39
Vinyl chloride	4.70	Assign Peak	ruslander a	09/18/19 12:39
Butadiene	4.79	Assign Peak	ruslander a	09/18/19 12:39
Isopropyl alcohol	6.07	Baseline	ruslander a	09/18/19 18:00
Acetone	6.13	Baseline	ruslander a	09/18/19 18:05
2-Chloro-1,3-butadiene	7.91	Assign Peak	ruslander a	09/18/19 12:40
Ethyl acetate	8.21	Assign Peak	ruslander a	09/18/19 12:40
Isobutanol	8.33	Peak assignment corrected	limwirojt	09/19/19 09:48
Ethyl acrylate	9.63	Assign Peak	ruslander a	09/18/19 12:41
n-Heptane	9.64	Assign Peak	ruslander a	09/18/19 12:41
2-Nitropropane	9.76	Assign Peak	ruslander a	09/18/19 12:41
Methyl methacrylate	9.89	Assign Peak	ruslander a	09/18/19 12:41
Styrene	13.05	Assign Peak	ruslander a	09/18/19 12:42
1,2,3-Trichloropropane	13.26	Peak assignment corrected	limwirojt	09/19/19 10:14

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA102 Analysis Batch Number: 311491Lab Sample ID: IC 580-311491/4 Client Sample ID: _____Date Analyzed: 09/18/19 12:21 Lab File ID: 091819_0009.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl alcohol	6.06	Baseline	ruslander a	09/18/19 18:00
Acetone	6.12	Baseline	ruslander a	09/18/19 18:05
2-Chloro-1,3-butadiene	7.90	Peak assignment corrected	ruslander a	09/18/19 12:44
Methacrylonitrile	8.03	Peak assignment corrected	ruslander a	09/18/19 12:44
Ethyl acetate	8.21	Peak assignment corrected	ruslander a	09/18/19 12:44
Isobutanol	8.32	Peak assignment corrected	ruslander a	09/18/19 12:44
Ethyl acrylate	9.63	Peak assignment corrected	ruslander a	09/18/19 14:24
n-Heptane	9.64	Peak assignment corrected	ruslander a	09/18/19 12:44
2-Nitropropane	9.76	Peak assignment corrected	ruslander a	09/18/19 12:44
Methyl methacrylate	9.88	Peak assignment corrected	ruslander a	09/18/19 12:44
1,2,3-Trichloropropane	13.25	Peak assignment corrected	ruslander a	09/18/19 12:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA102 Analysis Batch Number: 311491Lab Sample ID: IC 580-311491/5 Client Sample ID: _____Date Analyzed: 09/18/19 12:47 Lab File ID: 091819_0010.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl alcohol	6.06	Baseline	ruslander a	09/18/19 18:00
Acetone	6.13	Baseline	ruslander a	09/18/19 18:06
t-Butyl alcohol	6.59	Baseline	ruslander a	09/19/19 09:57
Ethyl acrylate	9.64	Peak assignment corrected	ruslander a	09/18/19 14:24

Lab Sample ID: IC 580-311491/6 Client Sample ID: _____Date Analyzed: 09/18/19 13:11 Lab File ID: 091819_0011.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl alcohol	6.05	Peak assignment corrected	ruslander a	09/18/19 18:01
Acetone	6.12	Baseline	ruslander a	09/18/19 18:06
Ethyl acrylate	9.63	Peak assignment corrected	ruslander a	09/18/19 14:24
Chlorobenzene-d5	12.37	Baseline	ruslander a	09/18/19 14:22
1,3-Dichlorobenzene	14.63	Baseline	ruslander a	09/18/19 14:23

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA102 Analysis Batch Number: 311491Lab Sample ID: ICIS 580-311491/7 Client Sample ID: _____Date Analyzed: 09/18/19 13:36 Lab File ID: 091819_0012.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl alcohol	6.07	Peak assignment corrected	ruslander a	09/18/19 17:59
Ethyl acrylate	9.63	Peak assignment corrected	ruslander a	09/18/19 14:24

Lab Sample ID: IC 580-311491/8 Client Sample ID: _____Date Analyzed: 09/18/19 14:01 Lab File ID: 091819_0013.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl alcohol	6.07	Other	ruslander a	09/18/19 18:03
Acetone	6.12	Baseline	ruslander a	09/18/19 18:04
Isobutanol	8.32	Peak assignment corrected	ruslander a	09/18/19 14:25
Fluorobenzene (IS)	9.41	Other	ruslander a	09/18/19 18:03
Ethyl acrylate	9.63	Peak assignment corrected	ruslander a	09/18/19 14:25
n-Heptane	9.64	Peak assignment corrected	ruslander a	09/18/19 14:25
2-Nitropropane	9.76	Peak assignment corrected	ruslander a	09/18/19 14:25
Methyl methacrylate	9.89	Peak assignment corrected	ruslander a	09/18/19 14:25

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA102 Analysis Batch Number: 311491Lab Sample ID: IC 580-311491/9 Client Sample ID: _____Date Analyzed: 09/18/19 14:26 Lab File ID: 091819_0014.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl alcohol	6.06	Peak assignment corrected	ruslander a	09/18/19 18:01
Chlorobenzene-d5	12.37	Split Peak	ruslander a	09/18/19 15:12

Lab Sample ID: IC 580-311491/11 Client Sample ID: _____Date Analyzed: 09/18/19 16:24 Lab File ID: 091819_0016.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl alcohol	6.05	Peak assignment corrected	ruslander a	09/18/19 18:02
Ethyl methacrylate	11.06	Peak assignment corrected	limwirojt	09/19/19 11:15
n-Butyl acetate	11.47	Peak assignment corrected	limwirojt	09/19/19 11:15
Chlorobenzene-d5	12.37	Peak assignment corrected	ruslander a	09/18/19 17:02

Lab Sample ID: IC 580-311491/10 Client Sample ID: _____Date Analyzed: 09/18/19 17:14 Lab File ID: 091819_0018.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl alcohol	6.05	Peak assignment corrected	ruslander a	09/18/19 18:02
Ethyl methacrylate	11.06	Peak assignment corrected	limwirojt	09/19/19 11:13
n-Butyl acetate	11.47	Peak assignment corrected	limwirojt	09/19/19 11:14
Chlorobenzene-d5	12.37	Peak assignment corrected	ruslander a	09/18/19 17:44

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA102 Analysis Batch Number: 311491

Lab Sample ID: ICV 580-311491/13 Client Sample ID: _____

Date Analyzed: 09/18/19 18:03 Lab File ID: 091819_0020.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol	6.58	Other	ruslander a	09/19/19 10:02

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA102 Analysis Batch Number: 312211Lab Sample ID: LCS 580-312211/3 Client Sample ID: _____Date Analyzed: 09/25/19 00:10 Lab File ID: 092419_0031.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorobenzene-d5	12.37	Split Peak	ruslander a	09/25/19 11:41

Lab Sample ID: LCSD 580-312211/4 Client Sample ID: _____Date Analyzed: 09/25/19 00:34 Lab File ID: 092419_0032.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorobenzene-d5	12.37	Split Peak	ruslander a	09/25/19 11:45

Lab Sample ID: MB 580-312211/6 Client Sample ID: _____Date Analyzed: 09/25/19 01:24 Lab File ID: 092419_0034.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichlorobenzene		Invalid Compound ID	wongsakul t	09/25/19 15:48
1,2,4-Trimethylbenzene		Invalid Compound ID	wongsakul t	09/25/19 15:48
Acetone		Invalid Compound ID	wongsakul t	09/25/19 15:47
m-Xylene & p-Xylene		Invalid Compound ID	wongsakul t	09/25/19 15:48

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA102 Analysis Batch Number: 312211Lab Sample ID: 580-89096-7 Client Sample ID: Trip BlankDate Analyzed: 09/25/19 02:14 Lab File ID: 092419_0036.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	6.95	Peak assignment corrected	ruslander a	09/25/19 11:23
Ethylbenzene	12.56	Assign Peak	ruslander a	09/25/19 11:23
m-Xylene & p-Xylene	12.73	Assign Peak	ruslander a	09/25/19 11:23

Lab Sample ID: 580-89096-1 Client Sample ID: EQB-1-W-190911Date Analyzed: 09/25/19 03:53 Lab File ID: 092419_0040.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	6.96	Peak assignment corrected	ruslander a	09/25/19 11:24

Lab Sample ID: 580-89096-2 Client Sample ID: MW-8RR-W-190911Date Analyzed: 09/25/19 04:18 Lab File ID: 092419_0041.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	6.97	Peak assignment corrected	ruslander a	09/25/19 11:25
Chloromethane		Invalid Compound ID	ruslander a	09/25/19 11:25
sec-Butylbenzene	14.54	Peak assignment corrected	ruslander a	09/25/19 11:25

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA102 Analysis Batch Number: 312211Lab Sample ID: 580-89096-3 Client Sample ID: MW-1R-W-190911Date Analyzed: 09/25/19 04:43 Lab File ID: 092419_0042.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	6.96	Peak assignment corrected	ruslander a	09/25/19 11:26
1,2,4-Trimethylbenzene	14.43	Peak assignment corrected	ruslander a	09/25/19 11:26
sec-Butylbenzene	14.53	Peak assignment corrected	ruslander a	09/25/19 11:26

Lab Sample ID: 580-89096-4 Client Sample ID: MW-2R-W-190911Date Analyzed: 09/25/19 05:08 Lab File ID: 092419_0043.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	6.96	Peak assignment corrected	ruslander a	09/25/19 11:26

Lab Sample ID: 580-89096-5 Client Sample ID: MW-9-W-190911Date Analyzed: 09/25/19 05:32 Lab File ID: 092419_0044.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	6.96	Peak assignment corrected	ruslander a	09/25/19 11:27
trans-1,2-Dichloroethene	7.35	Peak Tail	ruslander a	09/25/19 11:27
Chlorobenzene	12.40	Peak Tail	ruslander a	09/25/19 11:27
1,3-Dichlorobenzene	14.63	Peak Tail	ruslander a	09/25/19 11:28
1,2-Dichlorobenzene	15.03	Peak Tail	ruslander a	09/25/19 11:28

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA102 Analysis Batch Number: 312211

Lab Sample ID: 580-89096-6 Client Sample ID: BD-1-W-190911

Date Analyzed: 09/25/19 05:57 Lab File ID: 092419_0045.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	6.13	Peak assignment corrected	ruslander a	09/25/19 11:28
Carbon disulfide	6.97	Peak assignment corrected	ruslander a	09/25/19 11:28
1,2,4-Trimethylbenzene		Invalid Compound ID	ruslander a	09/25/19 11:28
t-Butylbenzene	14.34	Peak assignment corrected	ruslander a	09/25/19 11:28
sec-Butylbenzene	14.53	Peak assignment corrected	ruslander a	09/25/19 11:28

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC036 Analysis Batch Number: 311785Lab Sample ID: IC 580-311785/3 Client Sample ID: _____Date Analyzed: 09/20/19 00:29 Lab File ID: 091919_0033.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	5.03	Assign Peak	ruslander a	09/20/19 10:59
1,1-Dichloroethene	6.42	Assign Peak	ruslander a	09/20/19 10:59
Isopropyl alcohol	7.79	Assign Peak	ruslander a	09/20/19 10:59
cis-1,2-Dichloroethene	7.94	Assign Peak	ruslander a	09/20/19 11:00
Chloroform	8.11	Assign Peak	ruslander a	09/20/19 11:00
1,2-Dichloroethane	8.67	Assign Peak	ruslander a	09/20/19 11:00
Dibromomethane	9.57	Assign Peak	ruslander a	09/20/19 11:00
Trichloroethene	9.62	Assign Peak	ruslander a	09/20/19 11:00
Bromodichloromethane	9.66	Assign Peak	ruslander a	09/20/19 11:00
cis-1,3-Dichloropropene	10.19	Assign Peak	ruslander a	09/20/19 11:00
trans-1,3-Dichloropropene	10.56	Assign Peak	ruslander a	09/20/19 11:00
1,1,2-Trichloroethane	10.73	Assign Peak	ruslander a	09/20/19 11:00
2-Hexanone	11.06	Assign Peak	ruslander a	09/20/19 11:01
Dibromochloromethane	11.22	Assign Peak	ruslander a	09/20/19 11:01
Ethylene Dibromide	11.45	Assign Peak	ruslander a	09/20/19 11:01
Tetrachloroethene	11.59	Assign Peak	ruslander a	09/20/19 11:01
1,1,1,2-Tetrachloroethane	12.15	Assign Peak	ruslander a	09/20/19 11:01

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC036 Analysis Batch Number: 311785

Lab Sample ID: IC 580-311785/3 Client Sample ID: _____

Date Analyzed: 09/20/19 00:29 Lab File ID: 091919_0033.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromoform	12.74	Assign Peak	ruslander a	09/20/19 11:01
1,1,2,2-Tetrachloroethane	12.95	Assign Peak	ruslander a	09/20/19 11:01
1,4-Dichlorobenzene	14.52	Assign Peak	ruslander a	09/20/19 11:01
Naphthalene	16.92	Assign Peak	ruslander a	09/20/19 11:02
Hexachlorobutadiene	16.95	Assign Peak	ruslander a	09/20/19 11:02

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC036 Analysis Batch Number: 311785Lab Sample ID: IC 580-311785/4 Client Sample ID: _____Date Analyzed: 09/20/19 00:56 Lab File ID: 091919_0034.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	4.54	Assign Peak	ruslander a	09/20/19 11:02
Bromomethane	5.05	Assign Peak	ruslander a	09/20/19 11:03
1,1-Dichloroethene	6.42	Assign Peak	ruslander a	09/20/19 11:03
cis-1,2-Dichloroethene	7.94	Assign Peak	ruslander a	09/20/19 11:03
Dibromomethane	9.57	Assign Peak	ruslander a	09/20/19 11:03
Bromodichloromethane	9.66	Assign Peak	ruslander a	09/20/19 11:03
2-Hexanone	11.05	Assign Peak	ruslander a	09/20/19 11:03
Dibromochloromethane	11.23	Assign Peak	ruslander a	09/20/19 11:03
Ethylene Dibromide	11.45	Assign Peak	ruslander a	09/20/19 11:04
1,1,1,2-Tetrachloroethane	12.15	Assign Peak	ruslander a	09/20/19 11:04
1,1,2,2-Tetrachloroethane	12.96	Assign Peak	ruslander a	09/20/19 11:04
1,4-Dichlorobenzene	14.52	Assign Peak	ruslander a	09/20/19 11:04
Hexachlorobutadiene	16.95	Assign Peak	ruslander a	09/20/19 11:04

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC036 Analysis Batch Number: 311785Lab Sample ID: IC 580-311785/5 Client Sample ID: _____Date Analyzed: 09/20/19 01:21 Lab File ID: 091919_0035.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	4.55	Assign Peak	ruslander a	09/20/19 11:05
Bromomethane	5.04	Assign Peak	ruslander a	09/20/19 11:05
1,1-Dichloroethene	6.41	Assign Peak	ruslander a	09/20/19 11:05
1,2-Dichloroethane	8.67	Assign Peak	ruslander a	09/20/19 11:06
Dibromomethane	9.57	Assign Peak	ruslander a	09/20/19 11:06
cis-1,3-Dichloropropene	10.19	Assign Peak	ruslander a	09/20/19 11:06
2-Hexanone	11.05	Assign Peak	ruslander a	09/20/19 11:06
Ethylene Dibromide	11.46	Assign Peak	ruslander a	09/20/19 11:06
1,1,1,2-Tetrachloroethane	12.15	Assign Peak	ruslander a	09/20/19 11:06
1,1,2,2-Tetrachloroethane	12.95	Assign Peak	ruslander a	09/20/19 11:07
1,4-Dichlorobenzene	14.53	Assign Peak	ruslander a	09/20/19 11:07
Naphthalene	16.92	Assign Peak	ruslander a	09/20/19 11:07
Hexachlorobutadiene	16.95	Assign Peak	ruslander a	09/20/19 11:07

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC036 Analysis Batch Number: 311785Lab Sample ID: IC 580-311785/6 Client Sample ID: _____Date Analyzed: 09/20/19 01:47 Lab File ID: 091919_0036.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	4.54	Assign Peak	ruslander a	09/20/19 11:08
Dibromomethane	9.57	Assign Peak	ruslander a	09/20/19 11:08
cis-1,3-Dichloropropene	10.19	Assign Peak	ruslander a	09/20/19 11:08
2-Hexanone	11.04	Assign Peak	ruslander a	09/20/19 11:08
Ethylene Dibromide	11.46	Assign Peak	ruslander a	09/20/19 11:09
1,1,1,2-Tetrachloroethane	12.15	Assign Peak	ruslander a	09/20/19 11:09
Chlorobenzene-d5	12.19	Split Peak	ruslander a	09/20/19 11:07
1,1,2,2-Tetrachloroethane	12.95	Assign Peak	ruslander a	09/20/19 11:09
1,4-Dichlorobenzene	14.53	Assign Peak	ruslander a	09/20/19 11:09
Hexachlorobutadiene	16.95	Assign Peak	ruslander a	09/20/19 11:09

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC036 Analysis Batch Number: 311785Lab Sample ID: IC 580-311785/7 Client Sample ID: _____Date Analyzed: 09/20/19 02:13 Lab File ID: 091919_0037.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	4.54	Assign Peak	ruslander a	09/20/19 11:17
Bromomethane	5.05	Assign Peak	ruslander a	09/20/19 11:10
Dibromomethane	9.57	Assign Peak	ruslander a	09/20/19 11:10
cis-1,3-Dichloropropene	10.19	Assign Peak	ruslander a	09/20/19 11:11
2-Hexanone	11.04	Assign Peak	ruslander a	09/20/19 11:11
Ethylene Dibromide	11.45	Assign Peak	ruslander a	09/20/19 11:11
1,1,1,2-Tetrachloroethane	12.15	Assign Peak	ruslander a	09/20/19 11:11
Chlorobenzene-d5	12.19	Split Peak	ruslander a	09/20/19 11:10
1,1,2,2-Tetrachloroethane	12.95	Assign Peak	ruslander a	09/20/19 11:11
1,4-Dichlorobenzene	14.52	Assign Peak	ruslander a	09/20/19 11:11

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC036 Analysis Batch Number: 311785Lab Sample ID: ICIS 580-311785/8 Client Sample ID: _____Date Analyzed: 09/20/19 02:39 Lab File ID: 091919_0038.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	4.55	Split Peak	ruslander a	09/20/19 11:12
Butadiene	4.64	Split Peak	ruslander a	09/20/19 11:12
2-Hexanone	11.03	Split Peak	ruslander a	09/20/19 11:12
1,1,1,2-Tetrachloroethane	12.15	Split Peak	ruslander a	09/20/19 11:12
Chlorobenzene-d5	12.19	Split Peak	ruslander a	09/20/19 11:12
1,4-Dichlorobenzene	14.52	Split Peak	ruslander a	09/20/19 11:13
Hexachlorobutadiene	16.95	Split Peak	ruslander a	09/20/19 11:13

Lab Sample ID: IC 580-311785/9 Client Sample ID: _____Date Analyzed: 09/20/19 03:05 Lab File ID: 091919_0039.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Butadiene	4.64	Split Peak	ruslander a	09/20/19 11:14
2-Hexanone	11.03	Split Peak	ruslander a	09/20/19 11:14
1,1,1,2-Tetrachloroethane	12.15	Split Peak	ruslander a	09/20/19 11:14
Chlorobenzene-d5	12.19	Split Peak	ruslander a	09/20/19 11:13
1,4-Dichlorobenzene	14.52	Split Peak	ruslander a	09/20/19 11:14

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC036 Analysis Batch Number: 311785Lab Sample ID: IC 580-311785/10 Client Sample ID: _____Date Analyzed: 09/20/19 03:31 Lab File ID: 091919_0040.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone	11.03	Peak assignment corrected	ruslander a	09/20/19 11:15
1,1,1,2-Tetrachloroethane	12.15	Peak assignment corrected	ruslander a	09/20/19 11:15
1,4-Dichlorobenzene	14.52	Split Peak	ruslander a	09/20/19 11:15

Lab Sample ID: IC 580-311785/11 Client Sample ID: _____Date Analyzed: 09/20/19 03:57 Lab File ID: 091919_0041.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	4.54	Baseline	ruslander a	09/20/19 11:16
Butadiene	4.64	Baseline	ruslander a	09/20/19 11:16
2-Hexanone	11.03	Baseline	ruslander a	09/20/19 11:16
Chlorobenzene-d5	12.19	Assign Peak	ruslander a	09/20/19 11:16
1,4-Dichlorobenzene-d4	14.50	Assign Peak	ruslander a	09/20/19 11:16
1,4-Dichlorobenzene	14.52	Baseline	ruslander a	09/20/19 11:16

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC036 Analysis Batch Number: 311785Lab Sample ID: ICV 580-311785/13 Client Sample ID: _____Date Analyzed: 09/20/19 04:49 Lab File ID: 091919_0043.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	4.55	Split Peak	ruslander a	09/20/19 11:26
Butadiene	4.64	Split Peak	ruslander a	09/20/19 11:26
2-Hexanone	11.03	Split Peak	ruslander a	09/20/19 11:26
1,1,1,2-Tetrachloroethane	12.15	Peak assignment corrected	ruslander a	09/20/19 11:26
1,1,2,2-Tetrachloroethane	12.95	Split Peak	ruslander a	09/20/19 11:27
1,4-Dichlorobenzene	14.52	Split Peak	ruslander a	09/20/19 11:26
Hexachlorobutadiene	16.95	Split Peak	ruslander a	09/20/19 11:27

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC036 Analysis Batch Number: 311960Lab Sample ID: CCVIS 580-311960/3 Client Sample ID: _____Date Analyzed: 09/22/19 16:06 Lab File ID: 092219_0003.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1,2-Tetrachloroethane	12.15	Peak assignment corrected	wongsakul t	09/23/19 16:43

Lab Sample ID: LCS 580-311960/4 Client Sample ID: _____Date Analyzed: 09/22/19 16:32 Lab File ID: 092219_0004.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1,2-Tetrachloroethane	12.15	Peak assignment corrected	wongsakul t	09/23/19 16:44

Lab Sample ID: LCSD 580-311960/5 Client Sample ID: _____Date Analyzed: 09/22/19 16:58 Lab File ID: 092219_0005.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1,2-Tetrachloroethane	12.15	Peak assignment corrected	wongsakul t	09/23/19 16:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC036 Analysis Batch Number: 311960Lab Sample ID: MB 580-311960/7 Client Sample ID: _____Date Analyzed: 09/22/19 17:50 Lab File ID: 092219_0007.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane	8.67	Peak assignment corrected	wongsakul t	09/23/19 16:47
Benzene		Invalid Compound ID	wongsakul t	09/23/19 16:47
cis-1,3-Dichloropropene		Invalid Compound ID	wongsakul t	09/23/19 16:47
Dibromochloromethane		Invalid Compound ID	wongsakul t	09/23/19 16:48
trans-1,3-Dichloropropene		Invalid Compound ID	wongsakul t	09/23/19 16:47

Lab Sample ID: 580-89096-7 Client Sample ID: Trip BlankDate Analyzed: 09/22/19 18:42 Lab File ID: 092219_0009.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	8.11	Peak assignment corrected	ruslander a	09/23/19 11:49
1,2-Dichloroethane	8.67	Peak assignment corrected	ruslander a	09/23/19 11:49
Tetrachloroethene	11.59	Assign Peak	ruslander a	09/23/19 11:50
1,4-Dichlorobenzene	14.52	Assign Peak	ruslander a	09/23/19 11:50
Hexachlorobutadiene	16.94	Assign Peak	ruslander a	09/23/19 11:50

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC036 Analysis Batch Number: 311960Lab Sample ID: 580-89096-1 Client Sample ID: EQB-1-W-190911Date Analyzed: 09/22/19 23:28 Lab File ID: 092219_0020.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane	8.67	Peak assignment corrected	ruslander a	09/23/19 11:59
Naphthalene	16.92	Peak assignment corrected	ruslander a	09/23/19 12:08

Lab Sample ID: 580-89096-2 Client Sample ID: MW-8RR-W-190911Date Analyzed: 09/22/19 23:54 Lab File ID: 092219_0021.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	8.11	Peak assignment corrected	ruslander a	09/23/19 12:09
Ethylene Dibromide	11.45	Assign Peak	ruslander a	09/23/19 12:09
Naphthalene	16.92	Assign Peak	ruslander a	09/23/19 12:09

Lab Sample ID: 580-89096-3 Client Sample ID: MW-1R-W-190911Date Analyzed: 09/23/19 00:20 Lab File ID: 092219_0022.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	16.92	Peak assignment corrected	ruslander a	09/23/19 12:10

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC036 Analysis Batch Number: 311960Lab Sample ID: 580-89096-5 Client Sample ID: MW-9-W-190911Date Analyzed: 09/23/19 01:12 Lab File ID: 092219_0024.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	6.40	Peak Tail	ruslander a	09/23/19 12:10
Chloroform	8.11	Peak Tail	ruslander a	09/23/19 12:10
1,2-Dichloroethane	8.67	Peak Tail	ruslander a	09/23/19 12:10
Benzene	9.10	Peak Tail	ruslander a	09/23/19 12:11
Bromodichloromethane		Invalid Compound ID	ruslander a	09/23/19 12:11
1,4-Dichlorobenzene	14.52	Peak Tail	ruslander a	09/23/19 12:11

Lab Sample ID: 580-89096-6 Client Sample ID: BD-1-W-190911Date Analyzed: 09/23/19 01:38 Lab File ID: 092219_0025.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	8.11	Assign Peak	ruslander a	09/23/19 12:11
Ethylene Dibromide	11.46	Assign Peak	ruslander a	09/23/19 12:11

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC036 Analysis Batch Number: 312081Lab Sample ID: CCVIS 580-312081/3 Client Sample ID: _____Date Analyzed: 09/24/19 04:05 Lab File ID: 092319_0074.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1,2-Tetrachloroethane	12.15	Peak assignment corrected	ruslander a	09/24/19 13:52

Lab Sample ID: LCS 580-312081/4 Client Sample ID: _____Date Analyzed: 09/24/19 04:30 Lab File ID: 092319_0075.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1,2-Tetrachloroethane	12.15	Peak assignment corrected	ruslander a	09/24/19 13:52

Lab Sample ID: LCSD 580-312081/5 Client Sample ID: _____Date Analyzed: 09/24/19 04:57 Lab File ID: 092319_0076.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1,2-Tetrachloroethane	12.15	Peak assignment corrected	ruslander a	09/24/19 13:52

Lab Sample ID: CCVL 580-312081/6 Client Sample ID: _____Date Analyzed: 09/24/19 05:23 Lab File ID: 092319_0077.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1,2-Tetrachloroethane	12.15	Peak assignment corrected	ruslander a	09/24/19 13:53

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC023 Analysis Batch Number: 293966Lab Sample ID: STD13 580-293966/4 IC Client Sample ID: _____Date Analyzed: 01/30/19 18:23 Lab File ID: 013019b005.D GC Column: ZB-SV ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	11.77	Incomplete Integration	zboralski e	02/01/19 15:04
Chrysene	11.81	Incomplete Integration	zboralski e	02/01/19 15:04
Benzo[b]fluoranthene	12.71	Incomplete Integration	zboralski e	02/01/19 15:04
Dibenz(a,h)anthracene	14.15	Incomplete Integration	zboralski e	02/01/19 15:04

Lab Sample ID: STD12 580-293966/5 IC Client Sample ID: _____Date Analyzed: 01/30/19 18:49 Lab File ID: 013019b006.D GC Column: ZB-SV ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	12.67	Split Peak	zboralski e	02/01/19 15:05
Benzo[k]fluoranthene	12.69	Split Peak	zboralski e	02/01/19 15:05
Dibenz(a,h)anthracene	14.15	Incomplete Integration	zboralski e	02/01/19 15:05

Lab Sample ID: STD6 580-293966/11 IC Client Sample ID: _____Date Analyzed: 01/30/19 21:24 Lab File ID: 013019b012.D GC Column: ZB-SV ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.10	Split Peak	zboralski e	02/01/19 15:08
Dibenz(a,h)anthracene	14.15	Peak assignment corrected	zboralski e	02/01/19 15:08

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC023 Analysis Batch Number: 293966Lab Sample ID: STD5 580-293966/12 IC Client Sample ID: _____Date Analyzed: 01/30/19 21:50 Lab File ID: 013019b013.D GC Column: ZB-SV ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.10	Split Peak	zboralski e	02/01/19 15:09
Dibenz(a,h)anthracene	14.15	Split Peak	zboralski e	02/01/19 15:09

Lab Sample ID: STD4 580-293966/13 IC Client Sample ID: _____Date Analyzed: 01/30/19 22:16 Lab File ID: 013019b014.D GC Column: ZB-SV ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	8.49	Baseline	zboralski e	02/01/19 15:10
Fluorene	8.91	Baseline	zboralski e	02/01/19 15:10
Pentachlorophenol	9.53	Split Peak	zboralski e	02/01/19 15:10
Benzo[a]anthracene	11.78	Split Peak	zboralski e	02/01/19 15:10
Chrysene	11.81	Split Peak	zboralski e	02/01/19 15:10
Benzo[k]fluoranthene	12.69	Split Peak	zboralski e	02/01/19 15:09
Indeno[1,2,3-cd]pyrene	14.10	Split Peak	zboralski e	02/01/19 15:09
Dibenz(a,h)anthracene	14.15	Peak assignment corrected	zboralski e	02/01/19 15:09

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC023 Analysis Batch Number: 293966Lab Sample ID: STD3 580-293966/14 IC Client Sample ID: _____Date Analyzed: 01/30/19 22:42 Lab File ID: 013019b015.D GC Column: ZB-SV ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	8.49	Baseline	zboralski e	02/01/19 15:11
Fluorene	8.91	Baseline	zboralski e	02/01/19 15:11
Pentachlorophenol	9.53	Missed Peak	zboralski e	02/01/19 15:11
Phenanthrene	9.67	Baseline	zboralski e	02/01/19 15:11
Anthracene	9.72	Baseline	zboralski e	02/01/19 15:11
Benzo[a]anthracene	11.78	Baseline	zboralski e	02/01/19 15:11
Chrysene-d12	11.78	Baseline	zboralski e	02/01/19 15:11
Chrysene	11.81	Baseline	zboralski e	02/01/19 15:11
Benzo[a]pyrene	12.96	Baseline	zboralski e	02/01/19 15:11
Indeno[1,2,3-cd]pyrene	14.10	Baseline	zboralski e	02/01/19 15:12
Dibenz(a,h)anthracene	14.15	Baseline	zboralski e	02/01/19 15:12
Benzo[g,h,i]perylene	14.38	Baseline	zboralski e	02/01/19 15:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC023 Analysis Batch Number: 293966Lab Sample ID: STD2 580-293966/15 IC Client Sample ID: _____Date Analyzed: 01/30/19 23:08 Lab File ID: 013019b016.D GC Column: ZB-SV ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	6.99	Baseline	zboralski e	02/01/19 15:17
Acenaphthene	8.49	Baseline	zboralski e	02/01/19 15:17
2,4,6-Tribromophenol	9.11	Baseline	zboralski e	02/01/19 15:13
Phenanthrene	9.67	Baseline	zboralski e	02/01/19 15:13
Anthracene	9.72	Baseline	zboralski e	02/01/19 15:13
Chrysene	11.81	Baseline	zboralski e	02/01/19 15:13
Benzo[k]fluoranthene	12.69	Baseline	zboralski e	02/01/19 15:12
Benzo[a]pyrene	12.96	Baseline	zboralski e	02/01/19 15:12
Indeno[1,2,3-cd]pyrene	14.11	Baseline	zboralski e	02/01/19 15:12
Dibenz(a,h)anthracene	14.15	Baseline	zboralski e	02/01/19 15:12
Benzo[g,h,i]perylene	14.38	Baseline	zboralski e	02/01/19 15:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC023 Analysis Batch Number: 293966Lab Sample ID: STD1 580-293966/16 IC Client Sample ID: _____Date Analyzed: 01/30/19 23:34 Lab File ID: 013019b017.D GC Column: ZB-SV ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	6.99	Peak assignment corrected	zboralski e	02/01/19 15:17
Acenaphthene	8.49	Baseline	zboralski e	02/01/19 15:17
Fluorene	8.91	Baseline	zboralski e	02/01/19 15:17
2,4,6-Tribromophenol	9.11	Baseline	zboralski e	02/01/19 15:18
Phenanthrene	9.67	Peak assignment corrected	zboralski e	02/01/19 15:18
Anthracene	9.72	Peak assignment corrected	zboralski e	02/01/19 15:18
Pentachlorophenol		Invalid Compound ID	zboralski e	02/01/19 15:18
Chrysene	11.81	Peak assignment corrected	zboralski e	02/01/19 15:18
Benzo[k]fluoranthene	12.69	Peak assignment corrected	zboralski e	02/01/19 15:18
Benzo[a]pyrene	12.96	Peak assignment corrected	zboralski e	02/01/19 15:18
Indeno[1,2,3-cd]pyrene	14.11	Split Peak	zboralski e	02/01/19 15:18
Dibenz(a,h)anthracene	14.15	Baseline	zboralski e	02/01/19 15:18
Benzo[g,h,i]perylene	14.38	Baseline	zboralski e	02/01/19 15:19

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC023 Analysis Batch Number: 311676Lab Sample ID: CCVIS 580-311676/3 Client Sample ID: _____Date Analyzed: 09/19/19 09:02 Lab File ID: 091919a003.D GC Column: ZB-SV ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	12.57	Peak assignment corrected	limmere	09/19/19 09:47
Benzo[k]fluoranthene	12.59	Peak assignment corrected	limmere	09/19/19 09:47
Indeno[1,2,3-cd]pyrene	13.85	Peak Tail	limmere	09/19/19 09:48
Dibenz(a,h)anthracene	13.89	Peak Tail	limmere	09/19/19 09:48

Lab Sample ID: MB 580-311540/1-A Client Sample ID: _____Date Analyzed: 09/19/19 10:13 Lab File ID: 091919a004.D GC Column: ZB-SV ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	6.96	Incomplete Integration	thaneerat w	09/20/19 08:54
2-Methylnaphthalene	7.59	Incomplete Integration	thaneerat w	09/20/19 08:54
Fluorene	8.90	Incomplete Integration	thaneerat w	09/20/19 08:55
Phenanthrene	9.66	Incomplete Integration	thaneerat w	09/20/19 08:56
Anthracene	9.70	Incomplete Integration	thaneerat w	09/20/19 08:56
Acenaphthylene		Invalid Compound ID	thaneerat w	09/20/19 08:54
Benzo[a]pyrene		Invalid Compound ID	thaneerat w	09/20/19 08:58
Fluoranthene		Invalid Compound ID	thaneerat w	09/20/19 08:56
Pyrene	10.78	Incomplete Integration	thaneerat w	09/20/19 08:57
Benzo[a]anthracene	11.75	Incomplete Integration	thaneerat w	09/20/19 08:57
Chrysene	11.78	Incomplete Integration	thaneerat w	09/20/19 08:58

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC023 Analysis Batch Number: 311676Lab Sample ID: LCS 580-311540/2-A Client Sample ID: _____Date Analyzed: 09/19/19 10:39 Lab File ID: 091919a005.D GC Column: ZB-SV ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	13.85	Incomplete Integration	thaneerat w	09/20/19 08:59
Dibenz(a,h)anthracene	13.88	Peak assignment corrected	thaneerat w	09/20/19 08:59

Lab Sample ID: LCSD 580-311540/3-A Client Sample ID: _____Date Analyzed: 09/19/19 11:05 Lab File ID: 091919a006.D GC Column: ZB-SV ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	13.85	Incomplete Integration	thaneerat w	09/20/19 09:00
Dibenz(a,h)anthracene	13.88	Peak assignment corrected	thaneerat w	09/20/19 09:00

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC023 Analysis Batch Number: 311676Lab Sample ID: 580-89096-4 Client Sample ID: _____Date Analyzed: 09/19/19 12:24 Lab File ID: 091919a009.D GC Column: ZB-SV ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene-d8	6.93	Incomplete Integration	thaneerat w	09/20/19 09:08
Acenaphthene-d10	8.45	Incomplete Integration	thaneerat w	09/20/19 09:08
Acenaphthene		Invalid Compound ID	thaneerat w	09/20/19 09:35
Acenaphthylene		Invalid Compound ID	thaneerat w	09/20/19 09:35
Benzo[a]pyrene		Invalid Compound ID	thaneerat w	09/20/19 09:35
Benzo[b]fluoranthene		Invalid Compound ID	thaneerat w	09/20/19 09:35
Benzo[k]fluoranthene		Invalid Compound ID	thaneerat w	09/20/19 09:35
Fluoranthene		Invalid Compound ID	thaneerat w	09/20/19 09:35
Fluorene		Invalid Compound ID	thaneerat w	09/20/19 09:35
Phenanthrene		Invalid Compound ID	thaneerat w	09/20/19 09:35
Pyrene		Invalid Compound ID	thaneerat w	09/20/19 09:35
Chrysene-d12	11.75	Incomplete Integration	thaneerat w	09/20/19 09:08

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC046 Analysis Batch Number: 311558Lab Sample ID: IC 580-311558/3 Client Sample ID: _____Date Analyzed: 09/18/19 13:10 Lab File ID: 46I091819a005.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane	4.79	Baseline Smoothing	bohnc	09/18/19 16:27
1,2,3-Trichloropropane	5.48	Baseline Smoothing	bohnc	09/18/19 17:01

Lab Sample ID: IC 580-311558/4 Client Sample ID: _____Date Analyzed: 09/18/19 13:30 Lab File ID: 46I091819a006.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.48	Split Peak	bohnc	09/18/19 17:02

Lab Sample ID: IC 580-311558/4 Client Sample ID: _____Date Analyzed: 09/18/19 13:30 Lab File ID: 46I091819a006.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromo-3-Chloropropane	6.44	Incomplete Integration	bohnc	09/18/19 16:15

Lab Sample ID: IC 580-311558/5 Client Sample ID: _____Date Analyzed: 09/18/19 13:46 Lab File ID: 46I091819a007.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromopropane	5.06	Baseline Smoothing	bohnc	09/19/19 10:29
1,2,3-Trichloropropane	5.49	Split Peak	bohnc	09/18/19 17:03

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC046 Analysis Batch Number: 311558Lab Sample ID: IC 580-311558/5 Client Sample ID: _____Date Analyzed: 09/18/19 13:46 Lab File ID: 46I091819a007.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane	4.75	Baseline Smoothing	bohnc	09/19/19 10:23
1,2,3-Trichloropropane	5.36	Baseline Smoothing	bohnc	09/18/19 16:13
1,2-Dibromo-3-Chloropropane	6.44	Incomplete Integration	bohnc	09/18/19 16:16

Lab Sample ID: IC 580-311558/6 Client Sample ID: _____Date Analyzed: 09/18/19 14:03 Lab File ID: 46I091819a008.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromopropane	5.06	Baseline Smoothing	bohnc	09/19/19 10:27
1,2,3-Trichloropropane	5.49	Split Peak	bohnc	09/19/19 10:23

Lab Sample ID: IC 580-311558/6 Client Sample ID: _____Date Analyzed: 09/18/19 14:03 Lab File ID: 46I091819a008.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.36	Baseline Smoothing	bohnc	09/18/19 16:13

Lab Sample ID: IC 580-311558/7 Client Sample ID: _____Date Analyzed: 09/18/19 14:19 Lab File ID: 46I091819a009.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.49	Baseline Smoothing	bohnc	09/19/19 10:24

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC046 Analysis Batch Number: 311558

Lab Sample ID: ICIS 580-311558/8 Client Sample ID: _____

Date Analyzed: 09/18/19 14:35 Lab File ID: 46I091819a010.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.49	Baseline Smoothing	bohnc	09/19/19 10:25

Lab Sample ID: ICIS 580-311558/8 Client Sample ID: _____

Date Analyzed: 09/18/19 14:35 Lab File ID: 46I091819a010.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromopropane	5.06	Baseline Smoothing	bohnc	09/18/19 17:09

Lab Sample ID: ICV 580-311558/12 Client Sample ID: _____

Date Analyzed: 09/18/19 15:39 Lab File ID: 46I091819a014.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromopropane	5.06	Baseline Smoothing	bohnc	09/18/19 17:13
1,2,3-Trichloropropane	5.36	Baseline Smoothing	bohnc	09/18/19 17:12

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC046 Analysis Batch Number: 312456

Lab Sample ID: CCV 580-312350/1-A Client Sample ID: _____

Date Analyzed: 09/26/19 16:32 Lab File ID: 46I092619a016.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.49	Incomplete Integration	jantanuc	09/27/19 10:39

Lab Sample ID: MB 580-312350/2-A Client Sample ID: _____

Date Analyzed: 09/26/19 16:47 Lab File ID: 46I092619a017.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane		Invalid Compound ID	jantanuc	09/27/19 08:32

Lab Sample ID: MB 580-312350/2-A Client Sample ID: _____

Date Analyzed: 09/26/19 16:47 Lab File ID: 46I092619a017.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane		Invalid Compound ID	jantanuc	09/27/19 08:32

Lab Sample ID: LCS 580-312350/3-A Client Sample ID: _____

Date Analyzed: 09/26/19 17:04 Lab File ID: 46I092619a018.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.49	Incomplete Integration	jantanuc	09/27/19 10:40

Lab Sample ID: LCSD 580-312350/4-A Client Sample ID: _____

Date Analyzed: 09/26/19 17:22 Lab File ID: 46I092619a019.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.49	Incomplete Integration	jantanuc	09/27/19 10:41

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC046 Analysis Batch Number: 312456Lab Sample ID: LLCS 580-312350/5-A Client Sample ID: _____Date Analyzed: 09/26/19 17:38 Lab File ID: 46I092619a020.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.49	Incomplete Integration	jantanuc	09/27/19 10:41

Lab Sample ID: 580-89096-1 Client Sample ID: EQB-1-W-190911Date Analyzed: 09/26/19 17:54 Lab File ID: 46I092619a021.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane		Invalid Compound ID	jantanuc	09/27/19 08:40
1,2-Dibromoethane		Invalid Compound ID	jantanuc	09/27/19 08:40

Lab Sample ID: 580-89096-1 Client Sample ID: EQB-1-W-190911Date Analyzed: 09/26/19 17:54 Lab File ID: 46I092619a021.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane		Invalid Compound ID	jantanuc	09/27/19 08:40
1,2-Dibromoethane		Invalid Compound ID	jantanuc	09/27/19 08:40

Lab Sample ID: 580-89096-2 Client Sample ID: MW-8RR-W-190911Date Analyzed: 09/26/19 18:10 Lab File ID: 46I092619a022.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane		Invalid Compound ID	jantanuc	09/27/19 08:43

Lab Sample ID: 580-89096-2 Client Sample ID: MW-8RR-W-190911Date Analyzed: 09/26/19 18:10 Lab File ID: 46I092619a022.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane		Invalid Compound ID	jantanuc	09/27/19 08:43

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC046 Analysis Batch Number: 312456Lab Sample ID: 580-89096-3 Client Sample ID: MW-1R-W-190911Date Analyzed: 09/26/19 18:27 Lab File ID: 46I092619a023.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane		Invalid Compound ID	jantanuc	09/27/19 08:43
1,2-Dibromoethane		Invalid Compound ID	jantanuc	09/27/19 08:43

Lab Sample ID: 580-89096-3 Client Sample ID: MW-1R-W-190911Date Analyzed: 09/26/19 18:27 Lab File ID: 46I092619a023.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane		Invalid Compound ID	jantanuc	09/27/19 08:43
1,2-Dibromoethane		Invalid Compound ID	jantanuc	09/27/19 08:43

Lab Sample ID: 580-89096-4 Client Sample ID: MW-2R-W-190911Date Analyzed: 09/26/19 18:43 Lab File ID: 46I092619a024.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane		Invalid Compound ID	jantanuc	09/27/19 10:27

Lab Sample ID: 580-89096-4 Client Sample ID: MW-2R-W-190911Date Analyzed: 09/26/19 18:43 Lab File ID: 46I092619a024.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane		Invalid Compound ID	jantanuc	09/27/19 10:27

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC046 Analysis Batch Number: 312456

Lab Sample ID: 580-89096-5 Client Sample ID: MW-9-W-190911

Date Analyzed: 09/26/19 18:59 Lab File ID: 46I092619a025.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane		Invalid Compound ID	jantanuc	09/27/19 10:27
1,2-Dibromoethane		Invalid Compound ID	jantanuc	09/27/19 10:27

Lab Sample ID: 580-89096-5 Client Sample ID: MW-9-W-190911

Date Analyzed: 09/26/19 18:59 Lab File ID: 46I092619a025.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane		Invalid Compound ID	jantanuc	09/27/19 10:27
1,2-Dibromoethane		Invalid Compound ID	jantanuc	09/27/19 10:27

Lab Sample ID: CCV 580-312350/1-A Client Sample ID: _____

Date Analyzed: 09/26/19 19:32 Lab File ID: 46I092619a027.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.49	Incomplete Integration	jantanuc	09/27/19 10:43

Lab Sample ID: CCV 580-312350/1-A Client Sample ID: _____

Date Analyzed: 09/26/19 19:32 Lab File ID: 46I092619a027.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromo-3-Chloropropane	6.44	Incomplete Integration	jantanuc	09/27/19 10:28

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC046 Analysis Batch Number: 312456

Lab Sample ID: 580-89096-7 Client Sample ID: Trip Blank

Date Analyzed: 09/26/19 19:48 Lab File ID: 46I092619a028.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane		Invalid Compound ID	jantanuc	09/27/19 10:28
1,2-Dibromoethane		Invalid Compound ID	jantanuc	09/27/19 10:28

Lab Sample ID: 580-89096-7 Client Sample ID: Trip Blank

Date Analyzed: 09/26/19 19:48 Lab File ID: 46I092619a028.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane		Invalid Compound ID	jantanuc	09/27/19 10:28
1,2-Dibromoethane		Invalid Compound ID	jantanuc	09/27/19 10:28

Lab Sample ID: CCV 580-312350/1-A Client Sample ID: _____

Date Analyzed: 09/26/19 20:04 Lab File ID: 46I092619a029.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.49	Incomplete Integration	jantanuc	09/27/19 10:43

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA012 Analysis Batch Number: 296035

Lab Sample ID: IC 580-296035/3 Client Sample ID: _____

Date Analyzed: 03/11/19 18:59 Lab File ID: 003F0301.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.60	Incomplete Integration	johala	03/12/19 10:00

Lab Sample ID: IC 580-296035/4 Client Sample ID: _____

Date Analyzed: 03/11/19 19:21 Lab File ID: 004F0401.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.12	Peak assignment corrected	mohammedj c	03/12/19 09:44
n-Triacontane-d62	7.57	Incomplete Integration	johala	03/12/19 10:04

Lab Sample ID: IC 580-296035/5 Client Sample ID: _____

Date Analyzed: 03/11/19 19:43 Lab File ID: 005F0501.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.10	Peak assignment corrected	mohammedj c	03/12/19 09:44
n-Triacontane-d62	7.51	Incomplete Integration	johala	03/12/19 10:05

Lab Sample ID: IC 580-296035/6 Client Sample ID: _____

Date Analyzed: 03/11/19 20:05 Lab File ID: 006F0601.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.09	Peak assignment corrected	mohammedj c	03/12/19 09:43
n-Triacontane-d62	7.51	Incomplete Integration	johala	03/12/19 10:06

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA012 Analysis Batch Number: 296035

Lab Sample ID: ICRT 580-296035/7 Client Sample ID: _____

Date Analyzed: 03/11/19 20:27 Lab File ID: 007F0701.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.09	Peak assignment corrected	mohammedj c	03/12/19 09:43
n-Triacontane-d62	7.49	Incomplete Integration	johala	03/12/19 10:06

Lab Sample ID: IC 580-296035/8 Client Sample ID: _____

Date Analyzed: 03/11/19 20:49 Lab File ID: 008F0801.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.08	Peak assignment corrected	mohammedj c	03/12/19 09:43
n-Triacontane-d62	7.50	Peak assignment corrected	johala	03/12/19 10:07

Lab Sample ID: IC 580-296035/9 Client Sample ID: _____

Date Analyzed: 03/11/19 21:10 Lab File ID: 009F0901.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.08	Peak assignment corrected	mohammedj c	03/12/19 09:43
n-Triacontane-d62	7.50	Incomplete Integration	johala	03/12/19 10:07

Lab Sample ID: IC 580-296035/10 Client Sample ID: _____

Date Analyzed: 03/11/19 21:32 Lab File ID: 010F1001.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.08	Peak assignment corrected	mohammedj c	03/12/19 09:43
n-Triacontane-d62	7.48	Incomplete Integration	johala	03/12/19 10:08

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA012 Analysis Batch Number: 296035

Lab Sample ID: IC 580-296035/11 Client Sample ID: _____

Date Analyzed: 03/11/19 21:54 Lab File ID: 011F1101.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.08	Peak assignment corrected	mohammedj c	03/12/19 09:43
n-Triacontane-d62	7.47	Peak assignment corrected	johala	03/12/19 10:08

Lab Sample ID: IC 580-296035/12 Client Sample ID: _____

Date Analyzed: 03/11/19 22:15 Lab File ID: 012F1201.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.08	Peak assignment corrected	mohammedj c	03/12/19 09:43
n-Triacontane-d62	7.48	Incomplete Integration	johala	03/12/19 10:09

Lab Sample ID: ICV 580-296035/13 Client Sample ID: _____

Date Analyzed: 03/11/19 22:37 Lab File ID: 013F1301.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.08	Peak assignment corrected	johala	03/12/19 10:09
n-Triacontane-d62	7.50	Incomplete Integration	johala	03/12/19 10:09

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
504/8011_IC_00105	10/10/19	09/10/19	methanol, Lot 196628	10 mL	12DBP_Inter_P_00085	20 uL	1,2-Dibromopropane	400 ug/L
					504.1_00010	10 uL	1,2,3-Trichloropropane	199 ug/L
							1,2-Dibromo-3-Chloropropane	201.5 ug/L
							1,2-Dibromoethane	201.5 ug/L
.12DBP_Inter_P_00085	10/10/19	09/10/19	methanol, Lot 196628	10 mL	8011_12DBP_PS_00018	200 uL	1,2-Dibromopropane	200 ug/mL
..8011_12DBP_PS_00018	07/31/22		Agilent, Lot CS-3364		(Purchased Reagent)		1,2-Dibromopropane	10000 ug/mL
.504.1_00010	02/28/23		Restek, Lot A0135090		(Purchased Reagent)		1,2,3-Trichloropropane	199 ug/mL
							1,2-Dibromo-3-Chloropropane	201.5 ug/mL
							1,2-Dibromoethane	201.5 ug/mL
504/8011_ICL_00034	10/10/19	09/10/19	methanol, Lot 196626	10 mL	504/8011_IC_00105	1 mL	1,2-Dibromopropane	40 ug/L
							1,2,3-Trichloropropane	19.9 ug/L
							1,2-Dibromo-3-Chloropropane	20.15 ug/L
							1,2-Dibromoethane	20.15 ug/L
.504/8011_IC_00105	10/10/19	09/10/19	methanol, Lot 196628	10 mL	12DBP_Inter_P_00085	20 uL	1,2-Dibromopropane	400 ug/L
					504.1_00010	10 uL	1,2,3-Trichloropropane	199 ug/L
							1,2-Dibromo-3-Chloropropane	201.5 ug/L
							1,2-Dibromoethane	201.5 ug/L
..12DBP_Inter_P_00085	10/10/19	09/10/19	methanol, Lot 196628	10 mL	8011_12DBP_PS_00018	200 uL	1,2-Dibromopropane	200 ug/mL
...8011_12DBP_PS_00018	07/31/22		Agilent, Lot CS-3364		(Purchased Reagent)		1,2-Dibromopropane	10000 ug/mL
..504.1_00010	02/28/23		Restek, Lot A0135090		(Purchased Reagent)		1,2,3-Trichloropropane	199 ug/mL
							1,2-Dibromo-3-Chloropropane	201.5 ug/mL
							1,2-Dibromoethane	201.5 ug/mL
504/8011_Sspk_00092	10/10/19	09/10/19	methanol, Lot 196628	10 mL	504.1_00011	10 uL	1,2,3-Trichloropropane	200 ug/L
							1,2-Dibromo-3-Chloropropane	200 ug/L
							1,2-Dibromoethane	200 ug/L
							(Purchased Reagent)	
.504.1_00011	03/31/22		Agilent, Lot CR-0558		(Purchased Reagent)		1,2,3-Trichloropropane	200 ug/mL
							1,2-Dibromo-3-Chloropropane	200 ug/mL
							1,2-Dibromoethane	200 ug/mL
504/8011_Ssur_00092	10/10/19	09/10/19	methanol, Lot 196628	10 mL	12DBP_Inter_P_00085	20 uL	1,2-Dibromopropane	400 ug/L
.12DBP_Inter_P_00085	10/10/19	09/10/19	methanol, Lot 196628	10 mL	8011_12DBP_PS_00018	200 uL	1,2-Dibromopropane	200 ug/mL
..8011_12DBP_PS_00018	07/31/22		Agilent, Lot CS-3364		(Purchased Reagent)		1,2-Dibromopropane	10000 ug/mL
5X SUR/IS/TFT_00011					SURR/IS/TFT_00107	20 mL	1,3-Dichloropropene, Total	
							TAH	
							Tentatively Identified Compound	
							Xylenes, Total	
							Trifluorotoluene (Surr)	49.98 ppm
							1,2-Dichloroethane-d4 (Surr)	48.75 ppm
							1,4-Dichlorobenzene-d4	48.75 ppm
							4-Bromofluorobenzene (Surr)	48.75 ppm
							BFB	48.75 ppm
							Chlorobenzene-d5	48.75 ppm
							Dibromofluoromethane (Surr)	48.75 ppm
							Fluorobenzene (IS)	48.75 ppm
							TBA-d9 (IS)	975 ppm
Toluene-d8 (Surr)	48.75 ppm							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
.SURR/IS/TFT_00107	03/12/20	09/11/19	MeOH, Lot voarsurr/is_00048	25 mL	V-TFTStk_00037	625 uL	Trifluorotoluene (Surr)	249.9 ppm	
					VOARSURR/IS_00048	24.375 mL	1,2-Dichloroethane-d4 (Surr)	243.75 ppm	
							1,4-Dichlorobenzene-d4	243.75 ppm	
							4-Bromofluorobenzene (Surr)	243.75 ppm	
							BFB	243.75 ppm	
							Chlorobenzene-d5	243.75 ppm	
							Dibromofluoromethane (Surr)	243.75 ppm	
							Fluorobenzene (IS)	243.75 ppm	
TBA-d9 (IS)	4875 ppm								
Toluene-d8 (Surr)	243.75 ppm								
..V-TFTStk_00037	03/12/20	03/12/19	methanol, Lot 196628	50 mL	TFTneat_00014	420 uL	Trifluorotoluene (Surr)	9996 mg/L	
..TFTneat_00014	03/31/21		Sigma-Aldrich, Lot STBG2214V		(Purchased Reagent)		Trifluorotoluene (Surr)	1190000 mg/L	
..VOARSURR/IS_00048	10/31/22		Restek, Lot A0131478				(Purchased Reagent)	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							1,4-Dichlorobenzene-d4	250 ug/mL	
							4-Bromofluorobenzene (Surr)	250 ug/mL	
							BFB	250 ug/mL	
							Chlorobenzene-d5	250 ug/mL	
							Dibromofluoromethane (Surr)	250 ug/mL	
							Fluorobenzene (IS)	250 ug/mL	
							TBA-d9 (IS)	5000 ug/mL	
Toluene-d8 (Surr)	250 ug/mL								
8270f1spk_00253	05/31/20	07/29/19	Acetone/DCM, Lot 225409/DCMct161	50 mL	8270Mega_1stk_00011	1 mL	1,1'-Biphenyl	20 ug/mL	
							1,2,4,5-Tetrachlorobenzene	20 ug/mL	
							1,2,4-Trichlorobenzene	20 ug/mL	
							1,2-Dichlorobenzene	20 ug/mL	
							1,3-Dichlorobenzene	20 ug/mL	
							1,3-Dinitrobenzene	20 ug/mL	
							1,4-Dichlorobenzene	20 ug/mL	
							1,4-Dioxane	20 ug/mL	
							1-Methylnaphthalene	20 ug/mL	
							2,2'-oxybis[1-chloropropane]	20 ug/mL	
							2,3,4,6-Tetrachlorophenol	20 ug/mL	
							2,4,5-Trichlorophenol	20 ug/mL	
							2,4,6-Trichlorophenol	20 ug/mL	
							2,4-Dichlorophenol	20 ug/mL	
							2,4-Dimethylphenol	20 ug/mL	
							2,4-Dinitrophenol	40 ug/mL	
							2,4-Dinitrotoluene	20 ug/mL	
							2,6-Dichlorophenol	20 ug/mL	
							2,6-Dinitrotoluene	20 ug/mL	
							2-Chloronaphthalene	20 ug/mL	
							2-Chlorophenol	20 ug/mL	
							2-Methylnaphthalene	20 ug/mL	
							2-Methylphenol	20 ug/mL	
2-Nitroaniline	20 ug/mL								

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzofluoranthene	40 ug/mL
							Benzyl alcohol	20 ug/mL
							Bis (2-chloroethoxy)methane	20 ug/mL
							Bis (2-chloroethyl) ether	20 ug/mL
							Bis (2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz (a,h) anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Diphenylamine	17 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Hexadecane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							n-Decane	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
							N-Nitrosodiphenylamine	20 ug/mL		
							n-Octadecane	20 ug/mL		
							Naphthalene	20 ug/mL		
							Nitrobenzene	20 ug/mL		
							Pentachlorophenol	40 ug/mL		
							Phenanthrene	20 ug/mL		
							Phenol	20 ug/mL		
							Pyrene	20 ug/mL		
							Pyridine	40 ug/mL		
							8270S#10_1stk_00011	1 mL	Benzoic acid	40 ug/mL
									Indene	40 ug/mL
							8270S#11_1stk_00005	1 mL	Atrazine	40 ug/mL
									Benzaldehyde	40 ug/mL
		Caprolactam	40 ug/mL							
		8270S#9_1stk_00010	1 mL	3,3'-Dichlorobenzidine	40 ug/mL					
				Benzidine	40 ug/mL					
.8270Mega_1stk_00011	09/30/20		Restek, Lot A0147571		(Purchased Reagent)	1,1'-Biphenyl	1000 ug/mL			
						1,2,4,5-Tetrachlorobenzene	1000 ug/mL			
						1,2,4-Trichlorobenzene	1000 ug/mL			
						1,2-Dichlorobenzene	1000 ug/mL			
						1,3-Dichlorobenzene	1000 ug/mL			
						1,3-Dinitrobenzene	1000 ug/mL			
						1,4-Dichlorobenzene	1000 ug/mL			
						1,4-Dioxane	1000 ug/mL			
						1-Methylnaphthalene	1000 ug/mL			
						2,2'-oxybis[1-chloropropane]	1000 ug/mL			
						2,3,4,6-Tetrachlorophenol	1000 ug/mL			
						2,4,5-Trichlorophenol	1000 ug/mL			
						2,4,6-Trichlorophenol	1000 ug/mL			
						2,4-Dichlorophenol	1000 ug/mL			
						2,4-Dimethylphenol	1000 ug/mL			
						2,4-Dinitrophenol	2000 ug/mL			
						2,4-Dinitrotoluene	1000 ug/mL			
						2,6-Dichlorophenol	1000 ug/mL			
						2,6-Dinitrotoluene	1000 ug/mL			
						2-Chloronaphthalene	1000 ug/mL			
						2-Chlorophenol	1000 ug/mL			
						2-Methylnaphthalene	1000 ug/mL			
						2-Methylphenol	1000 ug/mL			
						2-Nitroaniline	1000 ug/mL			
						2-Nitrophenol	1000 ug/mL			
						3 & 4 Methylphenol	1000 ug/mL			
						3-Nitroaniline	1000 ug/mL			
						4,6-Dinitro-2-methylphenol	2000 ug/mL			
						4-Bromophenyl phenyl ether	1000 ug/mL			
						4-Chloro-3-methylphenol	1000 ug/mL			
						4-Chloroaniline	1000 ug/mL			
						4-Chlorophenyl phenyl ether	1000 ug/mL			

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzofluoranthene	2000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis (2-chloroethoxy)methane	1000 ug/mL
							Bis (2-chloroethyl) ether	1000 ug/mL
							Bis (2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz (a,h) anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8270S#10_1stk_00011	08/31/20		Restek, Lot A0145854		(Purchased Reagent)		Pyridine	2000 ug/mL
							Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
.8270S#11_1stk_00005	05/31/20		Restek, Lot A0143627		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.8270S#9_1stk_00010	05/31/20		Restek, Lot A0143498		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
8270SIM_IS_00061	08/09/20	08/09/19	DCM, Lot CT#162	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
.8270ISstk_00006	08/31/22		Restek, Lot A0129635		(Purchased Reagent)		Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
8270waterSurr_00083	03/12/20	09/12/19	MeOH, Lot 0000198123	50 mL	8270Surr_Phen_00011	10 mL	1,4-Dioxane-d8	100 ug/mL
							2,4,6-Tribromophenol	20 ug/mL
							2-Fluorobiphenyl	20 ug/mL
							2-Fluorophenol	20 ug/mL
							2-methylnaphthalene-d10	20 ug/mL
							Fluoranthene-d10 (Surr)	20 ug/mL
							Nitrobenzene-d5	20 ug/mL
							Phenol-d5	20 ug/mL
							Terphenyl-d14	20 ug/mL
.8270Surr_Phen_00011	08/31/23		Phenova, Lot CL13005		(Purchased Reagent)		1,4-Dioxane-d8	500 ug/mL
							2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol	100 ug/mL
							2-methylnaphthalene-d10	100 ug/mL
							Fluoranthene-d10 (Surr)	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Phenol-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
BFBGRO ARCHON 00034	06/08/20	07/20/19	fisher MeOH, Lot 198123	25 mL	BFBsurr_00033	1.25 mL	4-Bromofluorobenzene (Surr)	500 ug/mL
.BFBsurr_00033	08/31/24		Restek, Lot A0149194		(Purchased Reagent)		4-Bromofluorobenzene (Surr)	10000 ug/mL
ccv_8270_1000_00034	05/31/19	01/10/19	DCM, Lot MeCl2_CT_00141	20 mL	8270_ic_stk_00043	200 uL	1-Methylnaphthalene	1000 ug/L
							2-Methylnaphthalene	1000 ug/L
							Acenaphthene	1000 ug/L
							Acenaphthylene	1000 ug/L
							Anthracene	1000 ug/L
							Benzo[a]anthracene	1000 ug/L
							Benzo[a]pyrene	1000 ug/L
							Benzo[b]fluoranthene	1000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	1000 ug/L
							Benzo[k]fluoranthene	1000 ug/L
							Chrysene	1000 ug/L
							Dibenz(a,h)anthracene	1000 ug/L
							Fluoranthene	1000 ug/L
							Fluorene	1000 ug/L
							Indeno[1,2,3-cd]pyrene	1000 ug/L
							Naphthalene	1000 ug/L
							Pentachlorophenol	2000 ug/L
							Phenanthrene	1000 ug/L
							Pyrene	1000 ug/L
							2,4,6-Tribromophenol	1000 ug/L
							2-methylnaphthalene-d10	1000 ug/L
							Fluoranthene-d10 (Surr)	1000 ug/L
							Terphenyl-d14	1000 ug/L
					8270SIM_IS_00059	200 uL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
.8270_ic_stk_00043	05/31/19	10/05/18	DCM, Lot DCM CT#141	10 mL	8270Mega_1stk_00010	1 mL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					8270SSstkPhen_00004	0.2 mL	2,4,6-Tribromophenol	100 ug/mL
							2-methylnaphthalene-d10	100 ug/mL
							Fluoranthene-d10 (Surr)	100 ug/mL
							Terphenyl-d14	100 ug/mL
..8270Mega_1stk_00010	09/30/19		Restek, Lot A0136052			(Purchased Reagent)	1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..8270SSstkPhen_00004	08/31/23		Phenova, Lot CL12771			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL
							2-methylnaphthalene-d10	5000 ug/mL
							Fluoranthene-d10 (Surr)	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
.8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
..8270ISstk_00006	08/31/22		Restek, Lot A0129635			(Purchased Reagent)	Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
ccv_SIM_500_00074	01/04/20	08/26/19	DCM, Lot MeC12_CT_00163	10 mL	8270SIM_IS_00060	100 uL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
.8270SIM_IS_00060	01/04/20	05/02/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
..8270ISstk_00006	08/31/22		Restek, Lot A0129635			(Purchased Reagent)	Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
ccv_SIM_500_00074	01/04/20	08/26/19	DCM, Lot MeC12_CT_00163	10 mL	8270_ic_stk_00048	50 uL	1-Methylnaphthalene	500 ug/L
							2-Methylnaphthalene	500 ug/L
							Acenaphthene	500 ug/L
							Acenaphthylene	500 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Anthracene	500 ug/L
							Benzo[a]anthracene	500 ug/L
							Benzo[a]pyrene	500 ug/L
							Benzo[b]fluoranthene	500 ug/L
							Benzo[g,h,i]perylene	500 ug/L
							Benzo[k]fluoranthene	500 ug/L
							Chrysene	500 ug/L
							Dibenz(a,h)anthracene	500 ug/L
							Fluoranthene	500 ug/L
							Fluorene	500 ug/L
							Indeno[1,2,3-cd]pyrene	500 ug/L
							Naphthalene	500 ug/L
							Phenanthrene	500 ug/L
							Pyrene	500 ug/L
							Terphenyl-d14	500 ug/L
.8270_ic_stk_00048	05/31/20	06/03/19	DCM, Lot DCM CT#158	10 mL	8270Mega_1stk_00011	1 mL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					8270SSstkPhen_00004	0.2 mL	Terphenyl-d14	100 ug/mL
..8270Mega_1stk_00011	09/30/20		Restek, Lot A0147571			(Purchased Reagent)	1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
..8270SSstkPhen_00004	08/31/23		Phenova, Lot CL12771			(Purchased Reagent)	Indeno[1,2,3-cd]pyrene	1000 ug/mL		
							Naphthalene	1000 ug/mL		
							Phenanthrene	1000 ug/mL		
							Pyrene	1000 ug/mL		
							Terphenyl-d14	5000 ug/mL		
DFTPPx2_00022							4,4'-DDD			
							4,4'-DDE			
							Tentatively Identified Compound			
							TPAH			
							DFTPPSTK_00011	250 uL	4,4'-DDT	12.5 ug/mL
									Benzidine_T	12.5 ug/mL
									DFTPP	12.5 ug/mL
.DFTPPSTK_00011	09/30/21		Restek, Lot A0141339			(Purchased Reagent)	Pentachlorophenol_T	12.5 ug/mL		
							4,4'-DDT	1000 ug/mL		
							Benzidine_T	1000 ug/mL		
							DFTPP	1000 ug/mL		
							Pentachlorophenol_T	1000 ug/mL		
DFTPPx2_00037							4,4'-DDD			
							4,4'-DDE			
							Tentatively Identified Compound			
							TPAH			
							DFTPPSTK_00013	125 uL	4,4'-DDT	12.5 ug/mL
									Benzidine_T	12.5 ug/mL
									DFTPP	12.5 ug/mL
.DFTPPSTK_00013	03/31/22		Restek, Lot A0147424			(Purchased Reagent)	Pentachlorophenol_T	12.5 ug/mL		
							4,4'-DDT	1000 ug/mL		
							Benzidine_T	1000 ug/mL		
							DFTPP	1000 ug/mL		
							Pentachlorophenol_T	1000 ug/mL		
GRO BTEXblend_00010	04/01/20	04/02/19	methanol, Lot 196628	5 mL	BTEX in Gas_00006	2 mL	Gasoline Range Organics (GRO)-C6-C10	2000 ug/mL		
	.BTEX in Gas_00006	03/02/26	AccuStandard, Lot 216021275		(Purchased Reagent)		Gasoline Range Organics (GRO)-C6-C10	5000 ug/mL		
GRO LCS_00054	06/08/20	07/26/19	MeOH, Lot 198123	25 mL	GROLCStk_00025	1 mL	Gasoline Range Organics (GRO)-C6-C10	2000 ug/mL		
	.GROLCStk_00025	07/18/27	AccuStandard, Lot 217071177		(Purchased Reagent)		Gasoline Range Organics (GRO)-C6-C10	50000 ug/mL		
GRO LCS_00055	06/08/20	08/15/19	MeOH, Lot 198123	25 mL	GROLCStk_00025	1 mL	Gasoline Range Organics (GRO)-C6-C10	2000 ug/mL		
	.GROLCStk_00025	07/18/27	AccuStandard, Lot 217071177		(Purchased Reagent)		Gasoline Range Organics (GRO)-C6-C10	50000 ug/mL		
IC_8270IS_1_00004	05/31/19	01/10/19	DCM, Lot MeCl2 CT#147	10 mL	8270_icb100is_00018	9.99 mL	Acenaphthene-d10	100 ug/L		
							Chrysene-d12	100 ug/L		
							Naphthalene-d8	100 ug/L		
							Perylene-d12	100 ug/L		

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					ccv_8270_1000_00034	10 uL	Phenanthrene-d10	100 ug/L
							1-Methylnaphthalene	1 ug/L
							2-Methylnaphthalene	1 ug/L
							Acenaphthene	1 ug/L
							Acenaphthylene	1 ug/L
							Anthracene	1 ug/L
							Benzo[a]anthracene	1 ug/L
							Benzo[a]pyrene	1 ug/L
							Benzo[b]fluoranthene	1 ug/L
							Benzo[g,h,i]perylene	1 ug/L
							Benzo[k]fluoranthene	1 ug/L
							Chrysene	1 ug/L
							Dibenz(a,h)anthracene	1 ug/L
							Fluoranthene	1 ug/L
							Fluorene	1 ug/L
							Indeno[1,2,3-cd]pyrene	1 ug/L
							Naphthalene	1 ug/L
							Pentachlorophenol	2 ug/L
							Phenanthrene	1 ug/L
							Pyrene	1 ug/L
							2,4,6-Tribromophenol	1 ug/L
							2-methylnaphthalene-d10	1 ug/L
							Fluoranthene-d10 (Surr)	1 ug/L
Terphenyl-d14	1 ug/L							
Acenaphthene-d10	100 ug/L							
Chrysene-d12	100 ug/L							
Naphthalene-d8	100 ug/L							
Perylene-d12	100 ug/L							
Phenanthrene-d10	100 ug/L							
.8270_icb100is_00018	01/04/20	01/10/19	DCM, Lot MeCl2_CT_00147	100 mL	8270SIM_IS_00059	1 mL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
..8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
...8270ISstk_00006	08/31/22		Restek, Lot A0129635			(Purchased Reagent)	Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.ccv_8270_1000_00034	05/31/19	01/10/19	DCM, Lot MeCl2_CT_00141	20 mL	8270_ic_stk_00043	200 uL	1-Methylnaphthalene	1000 ug/L
							2-Methylnaphthalene	1000 ug/L
							Acenaphthene	1000 ug/L
							Acenaphthylene	1000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Anthracene	1000 ug/L
							Benzo[a]anthracene	1000 ug/L
							Benzo[a]pyrene	1000 ug/L
							Benzo[b]fluoranthene	1000 ug/L
							Benzo[g,h,i]perylene	1000 ug/L
							Benzo[k]fluoranthene	1000 ug/L
							Chrysene	1000 ug/L
							Dibenz(a,h)anthracene	1000 ug/L
							Fluoranthene	1000 ug/L
							Fluorene	1000 ug/L
							Indeno[1,2,3-cd]pyrene	1000 ug/L
							Naphthalene	1000 ug/L
							Pentachlorophenol	2000 ug/L
							Phenanthrene	1000 ug/L
							Pyrene	1000 ug/L
							2,4,6-Tribromophenol	1000 ug/L
							2-methylnaphthalene-d10	1000 ug/L
							Fluoranthene-d10 (Surr)	1000 ug/L
							Terphenyl-d14	1000 ug/L
					8270SIM_IS_00059	200 uL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
..8270_ic_stk_00043	05/31/19	10/05/18	DCM, Lot DCM CT#141	10 mL	8270Mega_1stk_00010	1 mL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					8270SSstkPhen_00004	0.2 mL	2,4,6-Tribromophenol	100 ug/mL
							2-methylnaphthalene-d10	100 ug/mL
							Fluoranthene-d10 (Surr)	100 ug/mL
							Terphenyl-d14	100 ug/mL
...8270Mega_1stk_00010	09/30/19		Restek, Lot A0136052			(Purchased Reagent)	1-Methylnaphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...8270SSstkPhen_00004	08/31/23		Phenova, Lot CL12771			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL
							2-methylnaphthalene-d10	5000 ug/mL
							Fluoranthene-d10 (Surr)	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
..8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
...8270ISstk_00006	08/31/22		Restek, Lot A0129635			(Purchased Reagent)	Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
IC_8270IS_10_00020	05/31/19	01/10/19	DCM, Lot MeC12_CT_00147	10 mL	8270_icb100is_00018	9.9 mL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
					ccv_8270_1000_00034	100 uL	1-Methylnaphthalene	10 ug/L
							2-Methylnaphthalene	10 ug/L
							Acenaphthene	10 ug/L
							Acenaphthylene	10 ug/L
							Anthracene	10 ug/L
							Benzo[a]anthracene	10 ug/L
							Benzo[a]pyrene	10 ug/L
							Benzo[b]fluoranthene	10 ug/L
							Benzo[g,h,i]perylene	10 ug/L
							Benzo[k]fluoranthene	10 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	10 ug/L
							Dibenz (a,h)anthracene	10 ug/L
							Fluoranthene	10 ug/L
							Fluorene	10 ug/L
							Indeno[1,2,3-cd]pyrene	10 ug/L
							Naphthalene	10 ug/L
							Pentachlorophenol	20 ug/L
							Phenanthrene	10 ug/L
							Pyrene	10 ug/L
							2,4,6-Tribromophenol	10 ug/L
							2-methylnaphthalene-d10	10 ug/L
							Fluoranthene-d10 (Surr)	10 ug/L
							Terphenyl-d14	10 ug/L
							Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
.8270_icb100is_00018	01/04/20	01/10/19	DCM, Lot MeCl2_CT_00147	100 mL	8270SIM_IS_00059	1 mL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
..8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
...8270ISstk_00006	08/31/22		Restek, Lot A0129635		(Purchased Reagent)		Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.ccv_8270_1000_00034	05/31/19	01/10/19	DCM, Lot MeCl2_CT_00141	20 mL	8270_ic_stk_00043	200 uL	1-Methylnaphthalene	1000 ug/L
							2-Methylnaphthalene	1000 ug/L
							Acenaphthene	1000 ug/L
							Acenaphthylene	1000 ug/L
							Anthracene	1000 ug/L
							Benzo[a]anthracene	1000 ug/L
							Benzo[a]pyrene	1000 ug/L
							Benzo[b]fluoranthene	1000 ug/L
							Benzo[g,h,i]perylene	1000 ug/L
							Benzo[k]fluoranthene	1000 ug/L
							Chrysene	1000 ug/L
							Dibenz (a,h)anthracene	1000 ug/L
							Fluoranthene	1000 ug/L
							Fluorene	1000 ug/L
							Indeno[1,2,3-cd]pyrene	1000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	1000 ug/L
							Pentachlorophenol	2000 ug/L
							Phenanthrene	1000 ug/L
							Pyrene	1000 ug/L
							2,4,6-Tribromophenol	1000 ug/L
							2-methylnaphthalene-d10	1000 ug/L
							Fluoranthene-d10 (Surr)	1000 ug/L
							Terphenyl-d14	1000 ug/L
					8270SIM_IS_00059	200 uL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
..8270_ic_stk_00043	05/31/19	10/05/18	DCM, Lot DCM CT#141	10 mL	8270Mega_1stk_00010	1 mL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					8270SSstkPhen_00004	0.2 mL	2,4,6-Tribromophenol	100 ug/mL
							2-methylnaphthalene-d10	100 ug/mL
							Fluoranthene-d10 (Surr)	100 ug/mL
							Terphenyl-d14	100 ug/mL
...8270Mega_1stk_00010	09/30/19		Restek, Lot A0136052			(Purchased Reagent)	1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...8270SSstkPhen_00004	08/31/23		Phenova, Lot CL12771			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL
							2-methylnaphthalene-d10	5000 ug/mL
							Fluoranthene-d10 (Surr)	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
..8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
...8270ISstk_00006	08/31/22		Restek, Lot A0129635			(Purchased Reagent)	Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
IC_8270IS_100_00033	05/31/19	01/10/19	DCM, Lot MeCl2_CT_00147	10 mL	8270_icb100is_00018	9 mL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
					ccv_8270_1000_00034	1 mL	1-Methylnaphthalene	100 ug/L
							2-Methylnaphthalene	100 ug/L
							Acenaphthene	100 ug/L
							Acenaphthylene	100 ug/L
							Anthracene	100 ug/L
							Benzo[a]anthracene	100 ug/L
							Benzo[a]pyrene	100 ug/L
							Benzo[b]fluoranthene	100 ug/L
							Benzo[g,h,i]perylene	100 ug/L
							Benzo[k]fluoranthene	100 ug/L
							Chrysene	100 ug/L
							Dibenz(a,h)anthracene	100 ug/L
							Fluoranthene	100 ug/L
							Fluorene	100 ug/L
							Indeno[1,2,3-cd]pyrene	100 ug/L
							Naphthalene	100 ug/L
							Pentachlorophenol	200 ug/L
							Phenanthrene	100 ug/L
							Pyrene	100 ug/L
							2,4,6-Tribromophenol	100 ug/L
							2-methylnaphthalene-d10	100 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene-d10 (Surr)	100 ug/L
							Terphenyl-d14	100 ug/L
							Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
.8270_icb100is_00018	01/04/20	01/10/19	DCM, Lot MeC12_CT_00147	100 mL	8270SIM_IS_00059	1 mL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
..8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
...8270ISstk_00006	08/31/22		Restek, Lot A0129635			(Purchased Reagent)	Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.ccv_8270_1000_00034	05/31/19	01/10/19	DCM, Lot MeC12_CT_00141	20 mL	8270_ic_stk_00043	200 uL	1-Methylnaphthalene	1000 ug/L
							2-Methylnaphthalene	1000 ug/L
							Acenaphthene	1000 ug/L
							Acenaphthylene	1000 ug/L
							Anthracene	1000 ug/L
							Benzo[a]anthracene	1000 ug/L
							Benzo[a]pyrene	1000 ug/L
							Benzo[b]fluoranthene	1000 ug/L
							Benzo[g,h,i]perylene	1000 ug/L
							Benzo[k]fluoranthene	1000 ug/L
							Chrysene	1000 ug/L
							Dibenz(a,h)anthracene	1000 ug/L
							Fluoranthene	1000 ug/L
							Fluorene	1000 ug/L
							Indeno[1,2,3-cd]pyrene	1000 ug/L
							Naphthalene	1000 ug/L
							Pentachlorophenol	2000 ug/L
							Phenanthrene	1000 ug/L
							Pyrene	1000 ug/L
							2,4,6-Tribromophenol	1000 ug/L
							2-methylnaphthalene-d10	1000 ug/L
							Fluoranthene-d10 (Surr)	1000 ug/L
							Terphenyl-d14	1000 ug/L
					8270SIM_IS_00059	200 uL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..8270_ic_stk_00043	05/31/19	10/05/18	DCM, Lot DCM CT#141	10 mL	8270Mega_1stk_00010	1 mL	Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
							1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
					Benzo[g,h,i]perylene	100 ug/mL		
					Benzo[k]fluoranthene	100 ug/mL		
					Chrysene	100 ug/mL		
					Dibenz(a,h)anthracene	100 ug/mL		
					Fluoranthene	100 ug/mL		
					Fluorene	100 ug/mL		
					Indeno[1,2,3-cd]pyrene	100 ug/mL		
					Naphthalene	100 ug/mL		
					Pentachlorophenol	200 ug/mL		
					Phenanthrene	100 ug/mL		
Pyrene	100 ug/mL							
...8270Mega_1stk_00010	09/30/19		Restek, Lot A0136052		(Purchased Reagent)		2,4,6-Tribromophenol	100 ug/mL
							2-methylnaphthalene-d10	100 ug/mL
							Fluoranthene-d10 (Surr)	100 ug/mL
							Terphenyl-d14	100 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
Benzo[a]pyrene	1000 ug/mL							
Benzo[b]fluoranthene	1000 ug/mL							
Benzo[g,h,i]perylene	1000 ug/mL							
Benzo[k]fluoranthene	1000 ug/mL							
Chrysene	1000 ug/mL							
Dibenz(a,h)anthracene	1000 ug/mL							
Fluoranthene	1000 ug/mL							
Fluorene	1000 ug/mL							
Indeno[1,2,3-cd]pyrene	1000 ug/mL							
Naphthalene	1000 ug/mL							
Pentachlorophenol	2000 ug/mL							
Phenanthrene	1000 ug/mL							
Pyrene	1000 ug/mL							
...8270SSstkPhen_00004	08/31/23		Phenova, Lot CL12771		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-methylnaphthalene-d10	5000 ug/mL
							Fluoranthene-d10 (Surr)	5000 ug/mL
							Terphenyl-d14	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration					
					Reagent ID	Volume Added							
..8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL					
							Chrysene-d12	10 ug/mL					
							Naphthalene-d8	10 ug/mL					
							Perylene-d12	10 ug/mL					
							Phenanthrene-d10	10 ug/mL					
...8270ISstk_00006	08/31/22		Restek, Lot A0129635		(Purchased Reagent)		Acenaphthene-d10	2000 ug/mL					
							Chrysene-d12	2000 ug/mL					
							Naphthalene-d8	2000 ug/mL					
							Perylene-d12	2000 ug/mL					
							Phenanthrene-d10	2000 ug/mL					
IC_8270IS_10k_00021	05/31/19	01/10/19	DCM, Lot MeCl2_CT_00143	10 mL	8270_ic_stk_00043	1 mL	1-Methylnaphthalene	10000 ug/L					
							2-Methylnaphthalene	10000 ug/L					
							Acenaphthene	10000 ug/L					
							Acenaphthylene	10000 ug/L					
							Anthracene	10000 ug/L					
							Benzo[a]anthracene	10000 ug/L					
							Benzo[a]pyrene	10000 ug/L					
							Benzo[b]fluoranthene	10000 ug/L					
							Benzo[g,h,i]perylene	10000 ug/L					
							Benzo[k]fluoranthene	10000 ug/L					
							Chrysene	10000 ug/L					
							Dibenz(a,h)anthracene	10000 ug/L					
							Fluoranthene	10000 ug/L					
							Fluorene	10000 ug/L					
							Indeno[1,2,3-cd]pyrene	10000 ug/L					
					Naphthalene	10000 ug/L							
					Pentachlorophenol	20000 ug/L							
					Phenanthrene	10000 ug/L							
					Pyrene	10000 ug/L							
					2,4,6-Tribromophenol	10000 ug/L							
					2-methylnaphthalene-d10	10000 ug/L							
					Fluoranthene-d10 (Surr)	10000 ug/L							
					Terphenyl-d14	10000 ug/L							
					8270SIM_IS_00059						100 uL	Acenaphthene-d10	100 ug/L
												Chrysene-d12	100 ug/L
Naphthalene-d8	100 ug/L												
Perylene-d12	100 ug/L												
Phenanthrene-d10	100 ug/L												
.8270_ic_stk_00043	05/31/19	10/05/18	DCM, Lot DCM CT#141	10 mL	8270Mega_1stk_00010	1 mL	1-Methylnaphthalene	100 ug/mL					
							2-Methylnaphthalene	100 ug/mL					
							Acenaphthene	100 ug/mL					
							Acenaphthylene	100 ug/mL					
							Anthracene	100 ug/mL					
							Benzo[a]anthracene	100 ug/mL					
							Benzo[a]pyrene	100 ug/mL					
							Benzo[b]fluoranthene	100 ug/mL					
Benzo[g,h,i]perylene	100 ug/mL												

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					8270SSstkPhen_00004	0.2 mL	2,4,6-Tribromophenol	100 ug/mL
							2-methylnaphthalene-d10	100 ug/mL
							Fluoranthene-d10 (Surr)	100 ug/mL
							Terphenyl-d14	100 ug/mL
..8270Mega_1stk_00010	09/30/19		Restek, Lot A0136052		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..8270SSstkPhen_00004	08/31/23		Phenova, Lot CL12771		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-methylnaphthalene-d10	5000 ug/mL
							Fluoranthene-d10 (Surr)	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
.8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
..8270ISstk_00006	08/31/22		Restek, Lot A0129635		(Purchased Reagent)		Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
IC_8270IS_2_00003	05/31/19	01/10/19	DCM, Lot MeCl2 CT#147	10 mL	8270_icb100is_00018	9.98 mL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
							1-Methylnaphthalene	2 ug/L
					ccv_8270_1000_00034	20 uL	2-Methylnaphthalene	2 ug/L
							Acenaphthene	2 ug/L
							Acenaphthylene	2 ug/L
							Anthracene	2 ug/L
							Benzo[a]anthracene	2 ug/L
							Benzo[a]pyrene	2 ug/L
							Benzo[b]fluoranthene	2 ug/L
							Benzo[g,h,i]perylene	2 ug/L
							Benzo[k]fluoranthene	2 ug/L
							Chrysene	2 ug/L
							Dibenz(a,h)anthracene	2 ug/L
							Fluoranthene	2 ug/L
							Fluorene	2 ug/L
							Indeno[1,2,3-cd]pyrene	2 ug/L
							Naphthalene	2 ug/L
							Pentachlorophenol	4 ug/L
							Phenanthrene	2 ug/L
							Pyrene	2 ug/L
							2,4,6-Tribromophenol	2 ug/L
							2-methylnaphthalene-d10	2 ug/L
Fluoranthene-d10 (Surr)	2 ug/L							
Terphenyl-d14	2 ug/L							
Acenaphthene-d10	100 ug/L							
Chrysene-d12	100 ug/L							
Naphthalene-d8	100 ug/L							
Perylene-d12	100 ug/L							
Phenanthrene-d10	100 ug/L							
.8270_icb100is_00018	01/04/20	01/10/19	DCM, Lot MeCl2_CT_00147	100 mL	8270SIM_IS_00059	1 mL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
..8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
...8270ISstk_00006	08/31/22		Restek, Lot A0129635			(Purchased Reagent)	Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.ccv_8270_1000_00034	05/31/19	01/10/19	DCM, Lot MeCl2_CT_00141	20 mL	8270_ic_stk_00043	200 uL	1-Methylnaphthalene	1000 ug/L
							2-Methylnaphthalene	1000 ug/L
							Acenaphthene	1000 ug/L
							Acenaphthylene	1000 ug/L
							Anthracene	1000 ug/L
							Benzo[a]anthracene	1000 ug/L
							Benzo[a]pyrene	1000 ug/L
							Benzo[b]fluoranthene	1000 ug/L
							Benzo[g,h,i]perylene	1000 ug/L
							Benzo[k]fluoranthene	1000 ug/L
							Chrysene	1000 ug/L
							Dibenz(a,h)anthracene	1000 ug/L
							Fluoranthene	1000 ug/L
							Fluorene	1000 ug/L
							Indeno[1,2,3-cd]pyrene	1000 ug/L
							Naphthalene	1000 ug/L
							Pentachlorophenol	2000 ug/L
					Phenanthrene	1000 ug/L		
					Pyrene	1000 ug/L		
					2,4,6-Tribromophenol	1000 ug/L		
					2-methylnaphthalene-d10	1000 ug/L		
					Fluoranthene-d10 (Surr)	1000 ug/L		
					Terphenyl-d14	1000 ug/L		
8270SIM_IS_00059	200 uL	Acenaphthene-d10	100 ug/L					
		Chrysene-d12	100 ug/L					
		Naphthalene-d8	100 ug/L					
		Perylene-d12	100 ug/L					
..8270_ic_stk_00043	05/31/19	10/05/18	DCM, Lot DCM CT#141	10 mL	8270Mega_1stk_00010	1 mL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Pentachlorophenol	200 ug/mL
Phenanthrene	100 ug/mL							
Pyrene	100 ug/mL							
8270SSstkPhen_00004	0.2 mL	2,4,6-Tribromophenol	100 ug/mL					

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-methylnaphthalene-d10	100 ug/mL
							Fluoranthene-d10 (Surr)	100 ug/mL
							Terphenyl-d14	100 ug/mL
...8270Mega_1stk_00010	09/30/19		Restek, Lot A0136052		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...8270SSstkPhen_00004	08/31/23		Phenova, Lot CL12771		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-methylnaphthalene-d10	5000 ug/mL
							Fluoranthene-d10 (Surr)	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
..8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
...8270ISstk_00006	08/31/22		Restek, Lot A0129635		(Purchased Reagent)		Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
IC_8270IS_20_00032	05/31/19	01/10/19	DCM, Lot MeC12_CT_00147	10 mL	8270_icb100is_00018	9.8 mL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
					ccv_8270_1000_00034	200 uL	1-Methylnaphthalene	20 ug/L
							2-Methylnaphthalene	20 ug/L
							Acenaphthene	20 ug/L
							Acenaphthylene	20 ug/L
							Anthracene	20 ug/L
							Benzo[a]anthracene	20 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]pyrene	20 ug/L
							Benzo[b]fluoranthene	20 ug/L
							Benzo[g,h,i]perylene	20 ug/L
							Benzo[k]fluoranthene	20 ug/L
							Chrysene	20 ug/L
							Dibenz(a,h)anthracene	20 ug/L
							Fluoranthene	20 ug/L
							Fluorene	20 ug/L
							Indeno[1,2,3-cd]pyrene	20 ug/L
							Naphthalene	20 ug/L
							Pentachlorophenol	40 ug/L
							Phenanthrene	20 ug/L
							Pyrene	20 ug/L
							2,4,6-Tribromophenol	20 ug/L
							2-methylnaphthalene-d10	20 ug/L
							Fluoranthene-d10 (Surr)	20 ug/L
							Terphenyl-d14	20 ug/L
							Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
.8270_icb100is_00018	01/04/20	01/10/19	DCM, Lot MeCl2_CT_00147	100 mL	8270SIM_IS_00059	1 mL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
..8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
...8270ISstk_00006	08/31/22		Restek, Lot A0129635			(Purchased Reagent)	Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.ccv_8270_1000_00034	05/31/19	01/10/19	DCM, Lot MeCl2_CT_00141	20 mL	8270_ic_stk_00043	200 uL	1-Methylnaphthalene	1000 ug/L
							2-Methylnaphthalene	1000 ug/L
							Acenaphthene	1000 ug/L
							Acenaphthylene	1000 ug/L
							Anthracene	1000 ug/L
							Benzo[a]anthracene	1000 ug/L
							Benzo[a]pyrene	1000 ug/L
							Benzo[b]fluoranthene	1000 ug/L
							Benzo[g,h,i]perylene	1000 ug/L
							Benzo[k]fluoranthene	1000 ug/L
							Chrysene	1000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz (a,h)anthracene	1000 ug/L
							Fluoranthene	1000 ug/L
							Fluorene	1000 ug/L
							Indeno[1,2,3-cd]pyrene	1000 ug/L
							Naphthalene	1000 ug/L
							Pentachlorophenol	2000 ug/L
							Phenanthrene	1000 ug/L
							Pyrene	1000 ug/L
							2,4,6-Tribromophenol	1000 ug/L
							2-methylnaphthalene-d10	1000 ug/L
							Fluoranthene-d10 (Surr)	1000 ug/L
							Terphenyl-d14	1000 ug/L
					8270SIM_IS_00059	200 uL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
..8270_ic_stk_00043	05/31/19	10/05/18	DCM, Lot DCM CT#141	10 mL	8270Mega_1stk_00010	1 mL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz (a,h)anthracene	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					8270SSstkPhen_00004	0.2 mL	2,4,6-Tribromophenol	100 ug/mL
							2-methylnaphthalene-d10	100 ug/mL
							Fluoranthene-d10 (Surr)	100 ug/mL
							Terphenyl-d14	100 ug/mL
...8270Mega_1stk_00010	09/30/19		Restek, Lot A0136052			(Purchased Reagent)	1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...8270SSstkPhen_00004	08/31/23		Phenova, Lot CL12771			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL
							2-methylnaphthalene-d10	5000 ug/mL
							Fluoranthene-d10 (Surr)	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
..8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
...8270ISstk_00006	08/31/22		Restek, Lot A0129635			(Purchased Reagent)	Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
IC_8270IS_200_00031	05/31/19	01/10/19	DCM, Lot MeCl2_CT_00147	10 mL	8270_icb100is_00018	8 mL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
					ccv_8270_1000_00034	2 mL	1-Methylnaphthalene	200 ug/L
							2-Methylnaphthalene	200 ug/L
							Acenaphthene	200 ug/L
							Acenaphthylene	200 ug/L
							Anthracene	200 ug/L
							Benzo[a]anthracene	200 ug/L
							Benzo[a]pyrene	200 ug/L
							Benzo[b]fluoranthene	200 ug/L
							Benzo[g,h,i]perylene	200 ug/L
							Benzo[k]fluoranthene	200 ug/L
							Chrysene	200 ug/L
							Dibenz(a,h)anthracene	200 ug/L
							Fluoranthene	200 ug/L
							Fluorene	200 ug/L
							Indeno[1,2,3-cd]pyrene	200 ug/L
							Naphthalene	200 ug/L
							Pentachlorophenol	400 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	200 ug/L
							Pyrene	200 ug/L
							2,4,6-Tribromophenol	200 ug/L
							2-methylnaphthalene-d10	200 ug/L
							Fluoranthene-d10 (Surr)	200 ug/L
							Terphenyl-d14	200 ug/L
							Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
.8270_icb100is_00018	01/04/20	01/10/19	DCM, Lot MeCl2_CT_00147	100 mL	8270SIM_IS_00059	1 mL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
..8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
...8270ISstk_00006	08/31/22		Restek, Lot A0129635			(Purchased Reagent)	Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.ccv_8270_1000_00034	05/31/19	01/10/19	DCM, Lot MeCl2_CT_00141	20 mL	8270_ic_stk_00043	200 uL	1-Methylnaphthalene	1000 ug/L
							2-Methylnaphthalene	1000 ug/L
							Acenaphthene	1000 ug/L
							Acenaphthylene	1000 ug/L
							Anthracene	1000 ug/L
							Benzo[a]anthracene	1000 ug/L
							Benzo[a]pyrene	1000 ug/L
							Benzo[b]fluoranthene	1000 ug/L
							Benzo[g,h,i]perylene	1000 ug/L
							Benzo[k]fluoranthene	1000 ug/L
							Chrysene	1000 ug/L
							Dibenz(a,h)anthracene	1000 ug/L
							Fluoranthene	1000 ug/L
							Fluorene	1000 ug/L
							Indeno[1,2,3-cd]pyrene	1000 ug/L
							Naphthalene	1000 ug/L
							Pentachlorophenol	2000 ug/L
							Phenanthrene	1000 ug/L
							Pyrene	1000 ug/L
							2,4,6-Tribromophenol	1000 ug/L
							2-methylnaphthalene-d10	1000 ug/L
							Fluoranthene-d10 (Surr)	1000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Terphenyl-d14	1000 ug/L
					8270SIM_IS_00059	200 uL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
..8270_ic_stk_00043	05/31/19	10/05/18	DCM, Lot DCM CT#141	10 mL	8270Mega_1stk_00010	1 mL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					8270SSstkPhen_00004	0.2 mL	2,4,6-Tribromophenol	100 ug/mL
							2-methylnaphthalene-d10	100 ug/mL
							Fluoranthene-d10 (Surr)	100 ug/mL
							Terphenyl-d14	100 ug/mL
...8270Mega_1stk_00010	09/30/19		Restek, Lot A0136052		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration					
					Reagent ID	Volume Added							
...8270SSstkPhen_00004	08/31/23		Phenova, Lot CL12771			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL					
							2-methylnaphthalene-d10	5000 ug/mL					
							Fluoranthene-d10 (Surr)	5000 ug/mL					
							Terphenyl-d14	5000 ug/mL					
..8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL					
							Chrysene-d12	10 ug/mL					
							Naphthalene-d8	10 ug/mL					
							Perylene-d12	10 ug/mL					
							Phenanthrene-d10	10 ug/mL					
...8270ISstk_00006	08/31/22		Restek, Lot A0129635			(Purchased Reagent)	Acenaphthene-d10	2000 ug/mL					
							Chrysene-d12	2000 ug/mL					
							Naphthalene-d8	2000 ug/mL					
							Perylene-d12	2000 ug/mL					
							Phenanthrene-d10	2000 ug/mL					
IC_8270IS_2k_00031	05/31/19	01/10/19	DCM, Lot MeCl2_CT_00147	10 mL	8270_ic_stk_00043	0.2 mL	1-Methylnaphthalene	2000 ug/L					
							2-Methylnaphthalene	2000 ug/L					
							Acenaphthene	2000 ug/L					
							Acenaphthylene	2000 ug/L					
							Anthracene	2000 ug/L					
							Benzo[a]anthracene	2000 ug/L					
							Benzo[a]pyrene	2000 ug/L					
							Benzo[b]fluoranthene	2000 ug/L					
							Benzo[g,h,i]perylene	2000 ug/L					
							Benzo[k]fluoranthene	2000 ug/L					
							Chrysene	2000 ug/L					
							Dibenz(a,h)anthracene	2000 ug/L					
							Fluoranthene	2000 ug/L					
							Fluorene	2000 ug/L					
							Indeno[1,2,3-cd]pyrene	2000 ug/L					
					Naphthalene	2000 ug/L							
					Pentachlorophenol	4000 ug/L							
					Phenanthrene	2000 ug/L							
					Pyrene	2000 ug/L							
					2,4,6-Tribromophenol	2000 ug/L							
					2-methylnaphthalene-d10	2000 ug/L							
					Fluoranthene-d10 (Surr)	2000 ug/L							
					Terphenyl-d14	2000 ug/L							
					8270SIM_IS_00059						100 uL	Acenaphthene-d10	100 ug/L
												Chrysene-d12	100 ug/L
Naphthalene-d8	100 ug/L												
Perylene-d12	100 ug/L												
Phenanthrene-d10	100 ug/L												
.8270_ic_stk_00043	05/31/19	10/05/18	DCM, Lot DCM CT#141	10 mL	8270Mega_1stk_00010	1 mL	1-Methylnaphthalene	100 ug/mL					
							2-Methylnaphthalene	100 ug/mL					
							Acenaphthene	100 ug/mL					
							Acenaphthylene	100 ug/mL					
							Anthracene	100 ug/mL					

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					8270SSstkPhen_00004	0.2 mL	2,4,6-Tribromophenol	100 ug/mL
							2-methylnaphthalene-d10	100 ug/mL
							Fluoranthene-d10 (Surr)	100 ug/mL
							Terphenyl-d14	100 ug/mL
..8270Mega_1stk_00010	09/30/19		Restek, Lot A0136052			(Purchased Reagent)	1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..8270SSstkPhen_00004	08/31/23		Phenova, Lot CL12771			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL
							2-methylnaphthalene-d10	5000 ug/mL
							Fluoranthene-d10 (Surr)	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
.8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
..8270ISstk_00006	08/31/22		Restek, Lot A0129635			(Purchased Reagent)	Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
IC_8270IS_5_00003	05/31/19	01/10/19	DCM, Lot MeCl2 CT#147	10 mL	8270_icb100is_00018	9.95 mL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
					ccv_8270_1000_00034	50 uL	1-Methylnaphthalene	5 ug/L
							2-Methylnaphthalene	5 ug/L
							Acenaphthene	5 ug/L
							Acenaphthylene	5 ug/L
							Anthracene	5 ug/L
							Benzo[a]anthracene	5 ug/L
							Benzo[a]pyrene	5 ug/L
							Benzo[b]fluoranthene	5 ug/L
							Benzo[g,h,i]perylene	5 ug/L
							Benzo[k]fluoranthene	5 ug/L
							Chrysene	5 ug/L
							Dibenz(a,h)anthracene	5 ug/L
							Fluoranthene	5 ug/L
							Fluorene	5 ug/L
							Indeno[1,2,3-cd]pyrene	5 ug/L
							Naphthalene	5 ug/L
							Pentachlorophenol	10 ug/L
							Phenanthrene	5 ug/L
							Pyrene	5 ug/L
							2,4,6-Tribromophenol	5 ug/L
							2-methylnaphthalene-d10	5 ug/L
							Fluoranthene-d10 (Surr)	5 ug/L
Terphenyl-d14	5 ug/L							
Acenaphthene-d10	100 ug/L							
Chrysene-d12	100 ug/L							
Naphthalene-d8	100 ug/L							
Perylene-d12	100 ug/L							
Phenanthrene-d10	100 ug/L							
.8270_icb100is_00018	01/04/20	01/10/19	DCM, Lot MeCl2_CT_00147	100 mL	8270SIM_IS_00059	1 mL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
..8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
...8270ISstk_00006	08/31/22		Restek, Lot A0129635			(Purchased Reagent)	Acenaphthene-d10	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.ccv_8270_1000_00034	05/31/19	01/10/19	DCM, Lot MeC12_CT_00141	20 mL	8270_ic_stk_00043	200 uL	1-Methylnaphthalene	1000 ug/L
							2-Methylnaphthalene	1000 ug/L
							Acenaphthene	1000 ug/L
							Acenaphthylene	1000 ug/L
							Anthracene	1000 ug/L
							Benzo[a]anthracene	1000 ug/L
							Benzo[a]pyrene	1000 ug/L
							Benzo[b]fluoranthene	1000 ug/L
							Benzo[g,h,i]perylene	1000 ug/L
							Benzo[k]fluoranthene	1000 ug/L
							Chrysene	1000 ug/L
							Dibenz(a,h)anthracene	1000 ug/L
							Fluoranthene	1000 ug/L
							Fluorene	1000 ug/L
							Indeno[1,2,3-cd]pyrene	1000 ug/L
							Naphthalene	1000 ug/L
							Pentachlorophenol	2000 ug/L
							Phenanthrene	1000 ug/L
							Pyrene	1000 ug/L
							2,4,6-Tribromophenol	1000 ug/L
							2-methylnaphthalene-d10	1000 ug/L
							Fluoranthene-d10 (Surr)	1000 ug/L
							Terphenyl-d14	1000 ug/L
					8270SIM_IS_00059	200 uL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
..8270_ic_stk_00043	05/31/19	10/05/18	DCM, Lot DCM CT#141	10 mL	8270Mega_1stk_00010	1 mL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					8270SSstkPhen_00004	0.2 mL	2,4,6-Tribromophenol	100 ug/mL
							2-methylnaphthalene-d10	100 ug/mL
							Fluoranthene-d10 (Surr)	100 ug/mL
							Terphenyl-d14	100 ug/mL
...8270Mega_1stk_00010	09/30/19		Restek, Lot A0136052			(Purchased Reagent)	1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...8270SSstkPhen_00004	08/31/23		Phenova, Lot CL12771			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL
							2-methylnaphthalene-d10	5000 ug/mL
							Fluoranthene-d10 (Surr)	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
..8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
...8270ISstk_00006	08/31/22		Restek, Lot A0129635			(Purchased Reagent)	Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
IC_8270IS_50_00032	05/31/19	01/10/19	DCM, Lot MeC12_CT_00147	10 mL	8270_icb100is_00018	9.5 mL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
					ccv_8270_1000_00034	500 uL	1-Methylnaphthalene	50 ug/L
							2-Methylnaphthalene	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene	50 ug/L
							Acenaphthylene	50 ug/L
							Anthracene	50 ug/L
							Benzo[a]anthracene	50 ug/L
							Benzo[a]pyrene	50 ug/L
							Benzo[b]fluoranthene	50 ug/L
							Benzo[g,h,i]perylene	50 ug/L
							Benzo[k]fluoranthene	50 ug/L
							Chrysene	50 ug/L
							Dibenz(a,h)anthracene	50 ug/L
							Fluoranthene	50 ug/L
							Fluorene	50 ug/L
							Indeno[1,2,3-cd]pyrene	50 ug/L
							Naphthalene	50 ug/L
							Pentachlorophenol	100 ug/L
							Phenanthrene	50 ug/L
							Pyrene	50 ug/L
							2,4,6-Tribromophenol	50 ug/L
							2-methylnaphthalene-d10	50 ug/L
							Fluoranthene-d10 (Surr)	50 ug/L
							Terphenyl-d14	50 ug/L
							Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
.8270_icb100is_00018	01/04/20	01/10/19	DCM, Lot MeCl2_CT_00147	100 mL	8270SIM_IS_00059	1 mL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
..8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
...8270ISstk_00006	08/31/22		Restek, Lot A0129635			(Purchased Reagent)	Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.ccv_8270_1000_00034	05/31/19	01/10/19	DCM, Lot MeCl2_CT_00141	20 mL	8270_ic_stk_00043	200 uL	1-Methylnaphthalene	1000 ug/L
							2-Methylnaphthalene	1000 ug/L
							Acenaphthene	1000 ug/L
							Acenaphthylene	1000 ug/L
							Anthracene	1000 ug/L
							Benzo[a]anthracene	1000 ug/L
							Benzo[a]pyrene	1000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	1000 ug/L
							Benzo[g,h,i]perylene	1000 ug/L
							Benzo[k]fluoranthene	1000 ug/L
							Chrysene	1000 ug/L
							Dibenz(a,h)anthracene	1000 ug/L
							Fluoranthene	1000 ug/L
							Fluorene	1000 ug/L
							Indeno[1,2,3-cd]pyrene	1000 ug/L
							Naphthalene	1000 ug/L
							Pentachlorophenol	2000 ug/L
							Phenanthrene	1000 ug/L
							Pyrene	1000 ug/L
							2,4,6-Tribromophenol	1000 ug/L
							2-methylnaphthalene-d10	1000 ug/L
							Fluoranthene-d10 (Surr)	1000 ug/L
					Terphenyl-d14	1000 ug/L		
					8270SIM_IS_00059	200 uL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
		Phenanthrene-d10	100 ug/L					
..8270_ic_stk_00043	05/31/19	10/05/18	DCM, Lot DCM CT#141	10 mL	8270Mega_1stk_00010	1 mL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
					Naphthalene	100 ug/mL		
					Pentachlorophenol	200 ug/mL		
					Phenanthrene	100 ug/mL		
					Pyrene	100 ug/mL		
					8270SSstkPhen_00004	0.2 mL	2,4,6-Tribromophenol	100 ug/mL
		2-methylnaphthalene-d10	100 ug/mL					
		Fluoranthene-d10 (Surr)	100 ug/mL					
		Terphenyl-d14	100 ug/mL					
...8270Mega_1stk_00010	09/30/19		Restek, Lot A0136052		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...8270SSstkPhen_00004	08/31/23		Phenova, Lot CL12771			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL
							2-methylnaphthalene-d10	5000 ug/mL
							Fluoranthene-d10 (Surr)	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
..8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
...8270ISstk_00006	08/31/22		Restek, Lot A0129635			(Purchased Reagent)	Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
IC_8270IS_500_00034	05/31/19	01/10/19	DCM, Lot MeCl2_CT_00147	10 mL	8270_icb100is_00018	5 mL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
					ccv_8270_1000_00034	5 mL	1-Methylnaphthalene	500 ug/L
							2-Methylnaphthalene	500 ug/L
							Acenaphthene	500 ug/L
							Acenaphthylene	500 ug/L
							Anthracene	500 ug/L
							Benzo[a]anthracene	500 ug/L
							Benzo[a]pyrene	500 ug/L
							Benzo[b]fluoranthene	500 ug/L
							Benzo[g,h,i]perylene	500 ug/L
							Benzo[k]fluoranthene	500 ug/L
							Chrysene	500 ug/L
							Dibenz(a,h)anthracene	500 ug/L
							Fluoranthene	500 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	500 ug/L
							Indeno[1,2,3-cd]pyrene	500 ug/L
							Naphthalene	500 ug/L
							Pentachlorophenol	1000 ug/L
							Phenanthrene	500 ug/L
							Pyrene	500 ug/L
							2,4,6-Tribromophenol	500 ug/L
							2-methylnaphthalene-d10	500 ug/L
							Fluoranthene-d10 (Surr)	500 ug/L
							Terphenyl-d14	500 ug/L
							Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
.8270_icb100is_00018	01/04/20	01/10/19	DCM, Lot MeC12_CT_00147	100 mL	8270SIM_IS_00059	1 mL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
..8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
...8270ISstk_00006	08/31/22		Restek, Lot A0129635			(Purchased Reagent)	Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.ccv_8270_1000_00034	05/31/19	01/10/19	DCM, Lot MeC12_CT_00141	20 mL	8270_ic_stk_00043	200 uL	1-Methylnaphthalene	1000 ug/L
							2-Methylnaphthalene	1000 ug/L
							Acenaphthene	1000 ug/L
							Acenaphthylene	1000 ug/L
							Anthracene	1000 ug/L
							Benzo[a]anthracene	1000 ug/L
							Benzo[a]pyrene	1000 ug/L
							Benzo[b]fluoranthene	1000 ug/L
							Benzo[g,h,i]perylene	1000 ug/L
							Benzo[k]fluoranthene	1000 ug/L
							Chrysene	1000 ug/L
							Dibenz(a,h)anthracene	1000 ug/L
							Fluoranthene	1000 ug/L
							Fluorene	1000 ug/L
							Indeno[1,2,3-cd]pyrene	1000 ug/L
							Naphthalene	1000 ug/L
							Pentachlorophenol	2000 ug/L
							Phenanthrene	1000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	1000 ug/L
							2,4,6-Tribromophenol	1000 ug/L
							2-methylnaphthalene-d10	1000 ug/L
							Fluoranthene-d10 (Surr)	1000 ug/L
							Terphenyl-d14	1000 ug/L
					8270SIM_IS_00059	200 uL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
..8270_ic_stk_00043	05/31/19	10/05/18	DCM, Lot DCM CT#141	10 mL	8270Mega_1stk_00010	1 mL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					8270SSstkPhen_00004	0.2 mL	2,4,6-Tribromophenol	100 ug/mL
							2-methylnaphthalene-d10	100 ug/mL
							Fluoranthene-d10 (Surr)	100 ug/mL
							Terphenyl-d14	100 ug/mL
...8270Mega_1stk_00010	09/30/19		Restek, Lot A0136052			(Purchased Reagent)	1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...8270SSstkPhen_00004	08/31/23		Phenova, Lot CL12771			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL
							2-methylnaphthalene-d10	5000 ug/mL
							Fluoranthene-d10 (Surr)	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
..8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
...8270ISstk_00006	08/31/22		Restek, Lot A0129635			(Purchased Reagent)	Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
IC_8270IS_5k_00031	05/31/19	01/10/19	DCM, Lot MeCl2_CT_00147	10 mL	8270_ic_stk_00043	0.5 mL	1-Methylnaphthalene	5000 ug/L
							2-Methylnaphthalene	5000 ug/L
							Acenaphthene	5000 ug/L
							Acenaphthylene	5000 ug/L
							Anthracene	5000 ug/L
							Benzo[a]anthracene	5000 ug/L
							Benzo[a]pyrene	5000 ug/L
							Benzo[b]fluoranthene	5000 ug/L
							Benzo[g,h,i]perylene	5000 ug/L
							Benzo[k]fluoranthene	5000 ug/L
							Chrysene	5000 ug/L
							Dibenz(a,h)anthracene	5000 ug/L
							Fluoranthene	5000 ug/L
							Fluorene	5000 ug/L
							Indeno[1,2,3-cd]pyrene	5000 ug/L
							Naphthalene	5000 ug/L
							Pentachlorophenol	10000 ug/L
							Phenanthrene	5000 ug/L
							Pyrene	5000 ug/L
							2,4,6-Tribromophenol	5000 ug/L
							2-methylnaphthalene-d10	5000 ug/L
							Fluoranthene-d10 (Surr)	5000 ug/L
							Terphenyl-d14	5000 ug/L
					8270SIM_IS_00059	100 uL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
.8270_ic_stk_00043	05/31/19	10/05/18	DCM, Lot DCM CT#141	10 mL	8270Mega_1stk_00010	1 mL	1-Methylnaphthalene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					8270SSstkPhen_00004	0.2 mL	2,4,6-Tribromophenol	100 ug/mL
							2-methylnaphthalene-d10	100 ug/mL
							Fluoranthene-d10 (Surr)	100 ug/mL
							Terphenyl-d14	100 ug/mL
..8270Mega_1stk_00010	09/30/19		Restek, Lot A0136052			(Purchased Reagent)	1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..8270SSstkPhen_00004	08/31/23		Phenova, Lot CL12771			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL
							2-methylnaphthalene-d10	5000 ug/mL
							Fluoranthene-d10 (Surr)	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
.8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
..8270ISstk_00006	08/31/22		Restek, Lot A0129635		(Purchased Reagent)		Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
icv_8270_1000_00003	03/31/19	01/11/19	DCM, Lot CT_147	10 mL	8270SIM_IS_00059	100 uL	Acenaphthene-d10	100 ug/L
							Chrysene-d12	100 ug/L
							Naphthalene-d8	100 ug/L
							Perylene-d12	100 ug/L
							Phenanthrene-d10	100 ug/L
.8270SIM_IS_00059	01/04/20	01/04/19	DCM, Lot CT#147	50 mL	8270ISstk_00006	250 uL	Acenaphthene-d10	10 ug/mL
							Chrysene-d12	10 ug/mL
							Naphthalene-d8	10 ug/mL
							Perylene-d12	10 ug/mL
							Phenanthrene-d10	10 ug/mL
..8270ISstk_00006	08/31/22		Restek, Lot A0129635		(Purchased Reagent)		Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
icv_8270_1000_00003	03/31/19	01/11/19	DCM, Lot CT_147	10 mL	8270_IC_STK_00042	100 uL	1-Methylnaphthalene	1000 ug/L
							2-Methylnaphthalene	1000 ug/L
							Acenaphthene	1000 ug/L
							Acenaphthylene	1000 ug/L
							Anthracene	1000 ug/L
							Benzo[a]anthracene	1000 ug/L
							Benzo[a]pyrene	1000 ug/L
							Benzo[b]fluoranthene	1000 ug/L
							Benzo[g,h,i]perylene	1000 ug/L
							Benzo[k]fluoranthene	1000 ug/L
							Chrysene	1000 ug/L
							Dibenz(a,h)anthracene	1000 ug/L
							Fluoranthene	1000 ug/L
							Fluorene	1000 ug/L
							Indeno[1,2,3-cd]pyrene	1000 ug/L
							Naphthalene	1000 ug/L
							Phenanthrene	1000 ug/L
							Pyrene	1000 ug/L
							2,4,6-Tribromophenol	1000 ug/L
							2-methylnaphthalene-d10	1000 ug/L
							Fluoranthene-d10 (Surr)	1000 ug/L
							Terphenyl-d14	1000 ug/L
.8270_IC_STK_00042	03/31/19	10/05/18	DCM, Lot CT#141	10 mL	8270L1S1-S_00003	1 mL	1-Methylnaphthalene	100000 ug/L
							2-Methylnaphthalene	100000 ug/L
							Acenaphthene	100000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	100000 ug/L
							Anthracene	100000 ug/L
							Benzo[a]anthracene	100000 ug/L
							Benzo[a]pyrene	100000 ug/L
							Benzo[b]fluoranthene	100000 ug/L
							Benzo[g,h,i]perylene	100000 ug/L
							Benzo[k]fluoranthene	100000 ug/L
							Chrysene	100000 ug/L
							Dibenz(a,h)anthracene	100000 ug/L
							Fluoranthene	100000 ug/L
							Fluorene	100000 ug/L
							Indeno[1,2,3-cd]pyrene	100000 ug/L
							Naphthalene	100000 ug/L
							Phenanthrene	100000 ug/L
							Pyrene	100000 ug/L
					8270SSstkPhen_00004	0.2 mL	2,4,6-Tribromophenol	100000 ug/L
							2-methylnaphthalene-d10	100000 ug/L
							Fluoranthene-d10 (Surr)	100000 ug/L
							Terphenyl-d14	100000 ug/L
..8270L1S1-S_00003	03/31/19		Restek, Lot A0131190			(Purchased Reagent)	1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..8270SSstkPhen_00004	08/31/23		Phenova, Lot CL12771			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL
							2-methylnaphthalene-d10	5000 ug/mL
							Fluoranthene-d10 (Surr)	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
TFT Spike_00036	03/12/20	04/01/19	MeOH, Lot 177891	100 mL	V-TFTStk_00037	4 mL	Trifluorotoluene (Surr)	399.84 mg/L
.V-TFTStk_00037	03/12/20	03/12/19	methanol, Lot 196628	50 mL	TFTneat_00014	420 uL	Trifluorotoluene (Surr)	9996 mg/L
..TFTneat_00014	03/31/21		Sigma-Aldrich, Lot STBG2214V			(Purchased Reagent)	Trifluorotoluene (Surr)	1190000 mg/L
TPH-IC*_100_00001	03/31/19	03/11/19	DCM, Lot CT#160	10 mL	TPH-IC*_500_00001	2 mL	C25-C36	100 mg/L
							DRO (nC10-<nC25)	100 mg/L
							n-Triacontane-d62	4.016 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.TPH-IC*_500_00001	03/31/19	03/11/19	DCM, Lot CT#160	10 mL	TPH-IC*_10000_00001	500 uL	o-Terphenyl	3.984 mg/L
							C25-C36	500 mg/L
							DRO (nC10-<nC25)	500 mg/L
							n-Triacontane-d62	20.08 mg/L
							o-Terphenyl	19.92 mg/L
..TPH-IC*_10000_00001	03/31/19	03/11/19	DCM, Lot CT#160	10 mL	TPH Spike_RZ_00102	2 mL	C25-C36	10000 mg/L
							DRO (nC10-<nC25)	10000 mg/L
					TPH_SURR_00042	4 mL	n-Triacontane-d62	401.6 mg/L
							o-Terphenyl	398.4 mg/L
...TPH Spike_RZ_00102	11/30/23		Restek, Lot A0122303		(Purchased Reagent)		C25-C36	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
...TPH_SURR_00042	03/31/19	10/10/18	Acetone/DCM, Lot 179319/CT#141	500 mL	nC30d62_00016	0.502 g	n-Triacontane-d62	1004 mg/L
					oterphenyl 00011	0.498 g	o-Terphenyl	996 mg/L
...nC30d62_00016	06/04/23		Aldrich, Lot MBBC4347		(Purchased Reagent)		n-Triacontane-d62	100 %
...oterphenyl_00011	03/02/23		Aldrich, Lot MKBV3687V		(Purchased Reagent)		o-Terphenyl	100 %
TPH-IC*_10000_00001	03/31/19	03/11/19	DCM, Lot CT#160	10 mL	TPH Spike_RZ_00102	2 mL	C25-C36	10000 mg/L
							DRO (nC10-<nC25)	10000 mg/L
					TPH_SURR_00042	4 mL	n-Triacontane-d62	401.6 mg/L
							o-Terphenyl	398.4 mg/L
.TPH Spike_RZ_00102	11/30/23		Restek, Lot A0122303		(Purchased Reagent)		C25-C36	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
.TPH_SURR_00042	03/31/19	10/10/18	Acetone/DCM, Lot 179319/CT#141	500 mL	nC30d62_00016	0.502 g	n-Triacontane-d62	1004 mg/L
					oterphenyl 00011	0.498 g	o-Terphenyl	996 mg/L
..nC30d62_00016	06/04/23		Aldrich, Lot MBBC4347		(Purchased Reagent)		n-Triacontane-d62	100 %
..oterphenyl_00011	03/02/23		Aldrich, Lot MKBV3687V		(Purchased Reagent)		o-Terphenyl	100 %
TPH-IC*_500_00001	03/31/19	03/11/19	DCM, Lot CT#160	10 mL	TPH-IC*_10000_00001	500 uL	C25-C36	500 mg/L
							DRO (nC10-<nC25)	500 mg/L
							n-Triacontane-d62	20.08 mg/L
							o-Terphenyl	19.92 mg/L
.TPH-IC*_10000_00001	03/31/19	03/11/19	DCM, Lot CT#160	10 mL	TPH Spike_RZ_00102	2 mL	C25-C36	10000 mg/L
							DRO (nC10-<nC25)	10000 mg/L
					TPH_SURR_00042	4 mL	n-Triacontane-d62	401.6 mg/L
							o-Terphenyl	398.4 mg/L
..TPH Spike_RZ_00102	11/30/23		Restek, Lot A0122303		(Purchased Reagent)		C25-C36	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
..TPH_SURR_00042	03/31/19	10/10/18	Acetone/DCM, Lot 179319/CT#141	500 mL	nC30d62_00016	0.502 g	n-Triacontane-d62	1004 mg/L
					oterphenyl 00011	0.498 g	o-Terphenyl	996 mg/L
...nC30d62_00016	06/04/23		Aldrich, Lot MBBC4347		(Purchased Reagent)		n-Triacontane-d62	100 %
...oterphenyl_00011	03/02/23		Aldrich, Lot MKBV3687V		(Purchased Reagent)		o-Terphenyl	100 %
TPH-IC*_500_00006	10/01/19	07/07/19	DCM, Lot CT#161	100 mL	TPH-IC*_10000_00004	5000 uL	o-Terphenyl	9.96 mg/L
.TPH-IC*_10000_00004	10/01/19	07/07/19	DCM, Lot CT#161	10 mL	TPH_SURR_00044	2 mL	o-Terphenyl	199.2 mg/L
..TPH_SURR_00044	10/01/19	04/01/19	Acetone/DCM, Lot 179319/CT#141	500 mL	oterphenyl_00011	0.498 g	o-Terphenyl	996 mg/L
...oterphenyl_00011	03/02/23		Aldrich, Lot MKBV3687V		(Purchased Reagent)		o-Terphenyl	100 %

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
TPH-IC* 500 00006	10/01/19	07/07/19	DCM, Lot CT#161	100 mL	TPH-IC* 10000 00004	5000 uL	DRO (nC10-<nC25)	500 mg/L
.TPH-IC* 10000 00004	10/01/19	07/07/19	DCM, Lot CT#161	10 mL	TPH Spike_RZ_00102	2 mL	DRO (nC10-<nC25)	10000 mg/L
..TPH Spike_RZ_00102	11/30/23		Restek, Lot A0122303		(Purchased Reagent)		DRO (nC10-<nC25)	50000 ug/mL
TPH-ICV_500_00050	03/31/19	05/23/18	DCM, Lot CT#124	10 mL	C30-d62 ultra 00001	100 uL	n-Triacontane-d62	20 mg/L
.C30-d62 ultra 00001	05/31/22		Ultra, Lot CS-1828		TPH SURR_00039	200 uL	o-Terphenyl	20.4 mg/L
.TPH_SURR_00039	03/31/19	05/05/18	Acetone/DCM, Lot 133024/CT#123	100 mL	oterphenyl_00011	0.102 g	n-Triacontane-d62	2000 ug/mL
..oterphenyl 00011	03/02/23		Aldrich, Lot MKBV3687V		(Purchased Reagent)		o-Terphenyl	1020 mg/L
TPH-ICV 500 00050	03/31/19	05/23/18	DCM, Lot CT#124	10 mL	TPH Spike_RZ_00102	100 uL	DRO (nC10-<nC25)	500 mg/L
.TPH Spike_RZ_00102	11/30/23		Restek, Lot A0122303		(Purchased Reagent)		DRO (nC10-<nC25)	50000 ug/mL
TPH-RTC 00051	10/01/19	08/27/19	DCM, Lot CT#146	25 mL	TPH_SURR_00045	1 mL	o-Terphenyl	39.984 ug/mL
.TPH_SURR_00045	10/01/19	07/28/19	DCM, Lot CT #161	250 mL	oterphenyl 00011	0.2499 g	o-Terphenyl	999.6 mg/L
..oterphenyl 00011	03/02/23		Aldrich, Lot MKBV3687V		(Purchased Reagent)		o-Terphenyl	100 %
TPH_Water_Spk_00022	11/30/23	03/07/19	Acetone/DCM, Lot 179319/CT#160	100 mL	TPH Spike_RZ_00102	10 mL	#2 Diesel Fuel	5000 mg/L
							C10-C15	5000 mg/L
							C10-C24	5000 mg/L
							C10-C28	5000 mg/L
							C10-C36	5000 mg/L
							C12-C24	5000 mg/L
							C15-C24	5000 mg/L
							C16-C36	5000 mg/L
							C18-C36	5000 mg/L
							C24-C32	5000 mg/L
							C24-C36	5000 mg/L
							C24-C40	5000 mg/L
							C25-C36	5000 mg/L
							C28-C40	5000 mg/L
							DRO (nC10-<nC25)	5000 mg/L
							Motor Oil	5000 mg/L
.TPH Spike_RZ_00102	11/30/23		Restek, Lot A0122303		(Purchased Reagent)		#2 Diesel Fuel	50000 ug/mL
							C10-C15	50000 ug/mL
							C10-C24	50000 ug/mL
							C10-C28	50000 ug/mL
							C10-C36	50000 ug/mL
							C12-C24	50000 ug/mL
							C15-C24	50000 ug/mL
							C16-C36	50000 ug/mL
							C18-C36	50000 ug/mL
							C24-C32	50000 ug/mL
							C24-C36	50000 ug/mL
							C24-C40	50000 ug/mL
							C25-C36	50000 ug/mL
							C28-C40	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
							Motor Oil	50000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
TPH_WaterSurr_00049	10/01/19	08/18/19	DCM, Lot CT#163	100 mL	TPH_SURR_00045	10 mL	4-Bromofluorobenzene (Surr)	102.2 mg/L
							n-Triacontane-d62	102.56 mg/L
							o-Terphenyl	99.96 mg/L
.TPH_SURR_00045	10/01/19	07/28/19	DCM, Lot CT #161	250 mL	BFBNeat_00009	0.2555 g	4-Bromofluorobenzene (Surr)	1022 mg/L
					nC30d62_00016	0.2564 g	n-Triacontane-d62	1025.6 mg/L
					oterphenyl_00011	0.2499 g	o-Terphenyl	999.6 mg/L
..BFBNeat_00009	10/01/19		Aldrich, Lot 20401KOV		(Purchased Reagent)		4-Bromofluorobenzene (Surr)	1000000 ug/mL
..nC30d62_00016	06/04/23		Aldrich, Lot MBBC4347		(Purchased Reagent)		n-Triacontane-d62	100 %
..oterphenyl_00011	03/02/23		Aldrich, Lot MKBV3687V		(Purchased Reagent)		o-Terphenyl	100 %
V2.4TFT-EX_00037	03/12/20	07/08/19	MeOH, Lot 198123	1 L	V-TFTStk_00037	240 uL	Trifluorotoluene (Surr)	2.39904 mg/L
.V-TFTStk_00037	03/12/20	03/12/19	methanol, Lot 196628	50 mL	TFTneat_00014	420 uL	Trifluorotoluene (Surr)	9996 mg/L
..TFTneat_00014	03/31/21		Sigma-Aldrich, Lot STBG2214V		(Purchased Reagent)		Trifluorotoluene (Surr)	1190000 mg/L
V2.4TFT-EX_00039	03/12/20	08/22/19	MeOH, Lot 198123	1 L	V-TFTStk_00037	240 uL	Trifluorotoluene (Surr)	2.39904 mg/L
.V-TFTStk_00037	03/12/20	03/12/19	methanol, Lot 196628	50 mL	TFTneat_00014	420 uL	Trifluorotoluene (Surr)	9996 mg/L
..TFTneat_00014	03/31/21		Sigma-Aldrich, Lot STBG2214V		(Purchased Reagent)		Trifluorotoluene (Surr)	1190000 mg/L
VOAMasterMix_00043	10/31/19	09/13/19	MeOH, Lot 198123	50 mL	8260 L2/S7_00015	1000 uL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VOAR2CEVE_00019	1000 uL	2-Chloroethyl vinyl ether	50 ug/mL
					VOARAcrolein_00055	750 uL	Acrolein	300 ug/mL
					VOARADDCOM_00023	1000 uL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VOARGAS_00021	1000 uL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
					VOARKETON_00023	1000 uL	2-Butanone	250 ug/mL
							2-Hexanone	250 ug/mL
							4-Methyl-2-pentanone	250 ug/mL
							Acetone	250 ug/mL
					VOARMegMix_00032	1000 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							t-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VOARPOLARAD__00017	1250 uL	Acetonitrile	625 ug/mL
							Isopropyl ether	62.5 ug/mL
							Propionitrile	625 ug/mL
							Tert-amyl methyl ether	62.5 ug/mL
							Tert-butyl ethyl ether	62.5 ug/mL
					VOARVA 00045	1250 uL	Vinyl acetate	125 ug/mL
.8260 L2/S7_00015	05/31/20		Restek, Lot A0143198			(Purchased Reagent)	Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.VOAR2CEVE_00019	10/31/21		Restek, Lot A0142584			(Purchased Reagent)	2-Chloroethyl vinyl ether	2500 ug/mL
.VOARAcrolein_00055	10/31/19		Restek, Lot A0147676			(Purchased Reagent)	Acrolein	20000 ug/mL
.VOARADDCOM__00023	07/31/20		Restek, Lot A0145375			(Purchased Reagent)	1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.VOARGAS__00021	11/30/21		Restek, Lot A0143158			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOARKETON__00023	12/31/21		Restek, Lot A0143988			(Purchased Reagent)	2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VOARMegMix__00032	06/30/21		Restek, Lot A0143774			(Purchased Reagent)	Acetone	12500 ug/mL
							1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropane	2500 ug/mL
Cyclohexane	2500 ug/mL							
Dibromochloromethane	2500 ug/mL							
Dibromomethane	2500 ug/mL							
Ethyl ether	2500 ug/mL							
Ethyl methacrylate	2500 ug/mL							
Ethylbenzene	2500 ug/mL							
Hexachlorobutadiene	2500 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							t-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.VOARPOLARAD__00017	01/31/21		Restek, Lot A0144915			(Purchased Reagent)	Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.VOARVA__00045	01/31/20		Restek, Lot A0150515			(Purchased Reagent)	Vinyl acetate	5000 ug/mL
VOAMasterSEC__00035	09/30/19	08/15/19	MeOH, Lot 198123	25 mL	VOASGAS2__00024	500 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
					VOASKETON2__00020	500 uL	2-Butanone	250 ug/mL
							4-Methyl-2-pentanone	250 ug/mL
							Acetone	250 ug/mL
					VOASMegMix2__00022	500 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							t-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
.VOASGAS2__00024	03/31/22		Restek, Lot A0147004			(Purchased Reagent)	Bromomethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOASKETON2__00020	08/31/21		Restek, Lot A0140519			(Purchased Reagent)	2-Butanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
.VOASMegMix2__00022	06/30/21		Restek, Lot A0144202			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							t-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL

8260C_SIM_AK

Volatile Organic Compounds (GC/MS)

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): DB-VRX ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TFT #	TOL #	BFB #
EQB-1-W-190911	580-89096-1	97	100	100	103	96
MW-8RR-W-190911	580-89096-2	100	103	98	101	102
MW-1R-W-190911	580-89096-3	99	103	97	102	99
MW-2R-W-190911	580-89096-4	98	102	98	103	104
MW-9-W-190911	580-89096-5	99	102	98	101	102
MW-9-W-190911 DL	580-89096-5 DL	98	103	98	103	96
BD-1-W-190911	580-89096-6	100	103	97	102	100
BD-1-W-190911 RA	580-89096-6 RA	100	103	99	103	100
Trip Blank	580-89096-7	100	104	96	101	100
	MB 580-311960/7	98	101	98	101	98
	MB 580-312081/7	100	103	98	100	99
	LCS 580-311960/4	98	97	101	102	96
	LCS 580-312081/4	100	99	101	92	95
	LCSD 580-311960/5	101	101	99	101	101
	LCSD 580-312081/5	99	97	104	92	94

DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TFT = Trifluorotoluene (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS

80-120
48-150
80-120
75-120
75-120

Column to be used to flag recovery values

FORM II 8260C SIM

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 092219_0004.D

Lab ID: LCS 580-311960/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	10.0	10.1	101	64-124	
1,1,2,2-Tetrachloroethane	10.0	10.9	109	65-144	
1,1,2-Trichloroethane	10.0	10.0	100	69-135	
1,1-Dichloroethene	10.0	9.53	95	64-139	
1,2-Dibromoethane	10.0	10.2	102	75-120	
1,2-Dichloroethane	10.0	10.0	100	58-155	
1,4-Dichlorobenzene	10.0	11.5	115	75-130	
Benzene	10.0	10.1	101	71-137	
Bromodichloromethane	10.0	10.1	101	61-150	
Bromoform	10.0	10.2	102	55-130	
Bromomethane	10.0	8.73	87	69-137	
Chloroform	10.0	9.77	98	65-150	
cis-1,3-Dichloropropene	10.0	10.8	108	61-140	
Dibromochloromethane	10.0	10.4	104	71-120	
Dibromomethane	10.0	9.57	96	67-126	
Hexachlorobutadiene	10.0	11.5	115	73-139	
Naphthalene	10.0	12.3	123	69-134	
Tetrachloroethene	10.0	10.2	102	63-134	
trans-1,3-Dichloropropene	10.0	10.8	108	62-133	
Trichloroethene	10.0	9.88	99	70-140	
Vinyl chloride	10.0	9.56	96	56-150	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 092319_0075.D

Lab ID: LCS 580-312081/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.54	91	64-124	
1,1,2,2-Tetrachloroethane	5.00	4.28	86	65-144	
1,1,2-Trichloroethane	5.00	4.19	84	69-135	
1,1-Dichloroethene	5.00	4.29	86	64-139	
1,2-Dibromoethane	5.00	4.28	86	75-120	
1,2-Dichloroethane	5.00	4.78	96	58-155	
1,4-Dichlorobenzene	5.00	4.80	96	75-130	
Benzene	5.00	4.71	94	71-137	
Bromodichloromethane	5.00	4.71	94	61-150	
Bromoform	5.00	4.40	88	55-130	
Bromomethane	5.00	4.89	98	69-137	
Chloroform	5.00	4.75	95	65-150	
cis-1,3-Dichloropropene	5.00	4.44	89	61-140	
Dibromochloromethane	5.00	4.37	87	71-120	
Dibromomethane	5.00	4.65	93	67-126	
Hexachlorobutadiene	5.00	4.42	88	73-139	
Naphthalene	5.00	4.30	86	69-134	
Tetrachloroethene	5.00	4.15	83	63-134	
trans-1,3-Dichloropropene	5.00	4.35	87	62-133	
Trichloroethene	5.00	4.82	96	70-140	
Vinyl chloride	5.00	4.15	83	56-150	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: 092219_0005.D

Lab ID: LCSD 580-311960/5

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	10.0	10.1	101	0	10	64-124	
1,1,2,2-Tetrachloroethane	10.0	9.05	91	19	18	65-144	*
1,1,2-Trichloroethane	10.0	9.34	93	7	15	69-135	
1,1-Dichloroethene	10.0	8.96	90	6	11	64-139	
1,2-Dibromoethane	10.0	9.55	95	6	17	75-120	
1,2-Dichloroethane	10.0	9.85	98	2	11	58-155	
1,4-Dichlorobenzene	10.0	9.84	98	16	35	75-130	
Benzene	10.0	9.77	98	3	10	71-137	
Bromodichloromethane	10.0	9.80	98	3	10	61-150	
Bromoform	10.0	9.85	99	4	14	55-130	
Bromomethane	10.0	9.75	97	11	16	69-137	
Chloroform	10.0	9.70	97	1	10	65-150	
cis-1,3-Dichloropropene	10.0	10.4	104	4	30	61-140	
Dibromochloromethane	10.0	9.96	100	5	21	71-120	
Dibromomethane	10.0	9.41	94	2	15	67-126	
Hexachlorobutadiene	10.0	9.46	95	19	19	73-139	
Naphthalene	10.0	9.96	100	21	13	69-134	*
Tetrachloroethene	10.0	9.41	94	8	20	63-134	
trans-1,3-Dichloropropene	10.0	10.2	102	6	30	62-133	
Trichloroethene	10.0	9.79	98	1	10	70-140	
Vinyl chloride	10.0	8.68	87	10	16	56-150	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 092319_0076.D
 Lab ID: LCSD 580-312081/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	5.00	3.95	79	14	10	64-124	*
1,1,2,2-Tetrachloroethane	5.00	4.39	88	2	18	65-144	
1,1,2-Trichloroethane	5.00	4.10	82	2	15	69-135	
1,1-Dichloroethene	5.00	4.21	84	2	11	64-139	
1,2-Dibromoethane	5.00	4.15	83	3	17	75-120	
1,2-Dichloroethane	5.00	4.44	89	7	11	58-155	
1,4-Dichlorobenzene	5.00	4.51	90	6	35	75-130	
Benzene	5.00	4.42	88	6	10	71-137	
Bromodichloromethane	5.00	4.44	89	6	10	61-150	
Bromoform	5.00	4.00	80	10	14	55-130	
Bromomethane	5.00	3.98	80	20	16	69-137	*
Chloroform	5.00	4.34	87	9	10	65-150	
cis-1,3-Dichloropropene	5.00	4.01	80	10	30	61-140	
Dibromochloromethane	5.00	4.07	81	7	21	71-120	
Dibromomethane	5.00	4.41	88	5	15	67-126	
Hexachlorobutadiene	5.00	4.20	84	5	19	73-139	
Naphthalene	5.00	4.35	87	1	13	69-134	
Tetrachloroethene	5.00	3.89	78	7	20	63-134	
trans-1,3-Dichloropropene	5.00	4.04	81	7	30	62-133	
Trichloroethene	5.00	4.36	87	10	10	70-140	
Vinyl chloride	5.00	3.90	78	6	16	56-150	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab File ID: 092219_0007.D Lab Sample ID: MB 580-311960/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: TAC036 Date Analyzed: 09/22/2019 17:50
 GC Column: DB-VRX ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-311960/4	092219_0004 .D	09/22/2019 16:32
	LCSD 580-311960/5	092219_0005 .D	09/22/2019 16:58
Trip Blank	580-89096-7	092219_0009 .D	09/22/2019 18:42
EQB-1-W-190911	580-89096-1	092219_0020 .D	09/22/2019 23:28
MW-8RR-W-190911	580-89096-2	092219_0021 .D	09/22/2019 23:54
MW-1R-W-190911	580-89096-3	092219_0022 .D	09/23/2019 00:20
MW-2R-W-190911	580-89096-4	092219_0023 .D	09/23/2019 00:46
MW-9-W-190911	580-89096-5	092219_0024 .D	09/23/2019 01:12
BD-1-W-190911	580-89096-6	092219_0025 .D	09/23/2019 01:38

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab File ID: 092319_0078.D Lab Sample ID: MB 580-312081/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: TAC036 Date Analyzed: 09/24/2019 05:49
 GC Column: DB-VRX ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-312081/4	092319_0075 .D	09/24/2019 04:30
	LCSD 580-312081/5	092319_0076 .D	09/24/2019 04:57
BD-1-W-190911 RA	580-89096-6 RA	092319_0087 .D	09/24/2019 09:44
MW-9-W-190911 DL	580-89096-5 DL	092319_0088 .D	09/24/2019 10:11

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab File ID: 091919_0032.D BFB Injection Date: 09/20/2019
 Instrument ID: TAC036 BFB Injection Time: 00:03
 Analysis Batch No.: 311785

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	26.5	
75	30.0 - 60.0 % of mass 95	45.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	91.0	
175	5.0 - 9.0 % of mass 174	6.8	(7.5) 1
176	95.0 - 101.0 % of mass 174	87.1	(95.7) 1
177	5.0 - 9.0 % of mass 176	5.9	(6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 580-311785/3	091919_0033.D	09/20/2019	00:29
	IC 580-311785/4	091919_0034.D	09/20/2019	00:56
	IC 580-311785/5	091919_0035.D	09/20/2019	01:21
	IC 580-311785/6	091919_0036.D	09/20/2019	01:47
	IC 580-311785/7	091919_0037.D	09/20/2019	02:13
	ICIS 580-311785/8	091919_0038.D	09/20/2019	02:39
	IC 580-311785/9	091919_0039.D	09/20/2019	03:05
	IC 580-311785/10	091919_0040.D	09/20/2019	03:31
	IC 580-311785/11	091919_0041.D	09/20/2019	03:57
	ICV 580-311785/13	091919_0043.D	09/20/2019	04:49

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab File ID: 092219_0002.D BFB Injection Date: 09/22/2019
 Instrument ID: TAC036 BFB Injection Time: 15:39
 Analysis Batch No.: 311960

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	26.1	
75	30.0 - 60.0 % of mass 95	46.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	89.7	
175	5.0 - 9.0 % of mass 174	6.8	(7.5) 1
176	95.0 - 101.0 % of mass 174	87.7	(97.7) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.0) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 580-311960/3	092219_0003. D	09/22/2019	16:06
	LCS 580-311960/4	092219_0004. D	09/22/2019	16:32
	LCSD 580-311960/5	092219_0005. D	09/22/2019	16:58
	MB 580-311960/7	092219_0007. D	09/22/2019	17:50
Trip Blank	580-89096-7	092219_0009. D	09/22/2019	18:42
EQB-1-W-190911	580-89096-1	092219_0020. D	09/22/2019	23:28
MW-8RR-W-190911	580-89096-2	092219_0021. D	09/22/2019	23:54
MW-1R-W-190911	580-89096-3	092219_0022. D	09/23/2019	00:20
MW-2R-W-190911	580-89096-4	092219_0023. D	09/23/2019	00:46
MW-9-W-190911	580-89096-5	092219_0024. D	09/23/2019	01:12
BD-1-W-190911	580-89096-6	092219_0025. D	09/23/2019	01:38

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab File ID: 092319_0073.D BFB Injection Date: 09/24/2019
 Instrument ID: TAC036 BFB Injection Time: 03:39
 Analysis Batch No.: 312081

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	26.9
75	30.0 - 60.0 % of mass 95	45.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.8
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	91.1
175	5.0 - 9.0 % of mass 174	7.2 (7.9) 1
176	95.0 - 101.0 % of mass 174	87.1 (95.6) 1
177	5.0 - 9.0 % of mass 176	6.1 (7.0) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 580-312081/3	092319_0074. D	09/24/2019	04:05
	LCS 580-312081/4	092319_0075. D	09/24/2019	04:30
	LCSD 580-312081/5	092319_0076. D	09/24/2019	04:57
	CCVL 580-312081/6	092319_0077. D	09/24/2019	05:23
	MB 580-312081/7	092319_0078. D	09/24/2019	05:49
BD-1-W-190911 RA	580-89096-6 RA	092319_0087. D	09/24/2019	09:44
MW-9-W-190911 DL	580-89096-5 DL	092319_0088. D	09/24/2019	10:11

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Sample No.: ICIS 580-311785/8 Date Analyzed: 09/20/2019 02:39
 Instrument ID: TAC036 GC Column: DB-VRX ID: 0.25 (mm)
 Lab File ID (Standard): 091919_0038.D Heated Purge: (Y/N) N
 Calibration ID: 28249

	TBA-d9		FB		CBN-d5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	85272	6.33	117686	9.26	82231	12.19
UPPER LIMIT	170544	6.50	235372	9.43	164462	12.36
LOWER LIMIT	42636	6.16	58843	9.09	41116	12.03
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 580-311785/13	80331	6.33	114849	9.26	89733	12.19

TBA-d9 = TBA-d9 (IS)

FB = Fluorobenzene (IS)

CBN-d5 = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.1666 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Sample No.: ICIS 580-311785/8 Date Analyzed: 09/20/2019 02:39
 Instrument ID: TAC036 GC Column: DB-VRX ID: 0.25 (mm)
 Lab File ID (Standard): 091919_0038.D Heated Purge: (Y/N) N
 Calibration ID: 28249

	DCBd4		AREA #	RT #	AREA #	RT #
	AREA #	RT #				
INITIAL CALIBRATION MID-POINT	45526	14.50				
UPPER LIMIT	91052	14.67				
LOWER LIMIT	22763	14.34				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 580-311785/13		46812	14.50			

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.1666 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Sample No.: CCVIS 580-311960/3 Date Analyzed: 09/22/2019 16:06
 Instrument ID: TAC036 GC Column: DB-VRX ID: 0.25 (mm)
 Lab File ID (Standard): 092219_0003.D Heated Purge: (Y/N) N
 Calibration ID: 28249

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	117969	9.26	86004	12.19	49288	14.50	
UPPER LIMIT	235938	9.43	172008	12.36	98576	14.67	
LOWER LIMIT	58985	9.09	43002	12.03	24644	14.34	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 580-311960/4	121805	9.26	86632	12.19	44121	14.50	
LCSD 580-311960/5	120157	9.26	83950	12.19	48434	14.50	
MB 580-311960/7	114173	9.26	81957	12.19	42238	14.50	
580-89096-7	Trip Blank	104780	9.26	72346	12.19	39857	14.50
580-89096-1	EQB-1-W-190911	114703	9.26	82329	12.19	39593	14.50
580-89096-2	MW-8RR-W-190911	107130	9.26	74674	12.19	41786	14.50
580-89096-3	MW-1R-W-190911	110959	9.26	77841	12.19	41495	14.50
580-89096-4	MW-2R-W-190911	112068	9.26	77324	12.19	45151	14.50
580-89096-5	MW-9-W-190911	112646	9.26	78562	12.19	42832	14.50
580-89096-6	BD-1-W-190911	109623	9.26	75625	12.19	40918	14.50

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.1666 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Sample No.: CCVIS 580-312081/3 Date Analyzed: 09/24/2019 04:05
 Instrument ID: TAC036 GC Column: DB-VRX ID: 0.25 (mm)
 Lab File ID (Standard): 092319_0074.D Heated Purge: (Y/N) N
 Calibration ID: 28249

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	132466	9.26	97615	12.19	56213	14.50	
UPPER LIMIT	264932	9.43	195230	12.36	112426	14.67	
LOWER LIMIT	66233	9.09	48808	12.03	28107	14.34	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 580-312081/4	130829	9.26	99236	12.19	52908	14.50	
LCSD 580-312081/5	132659	9.26	107521	12.19	53695	14.50	
CCVL 580-312081/6	124763	9.26	89611	12.19	46729	14.50	
MB 580-312081/7	119439	9.26	82513	12.19	42746	14.50	
580-89096-6 RA	BD-1-W-190911 RA	110549	9.26	74713	12.19	39016	14.50
580-89096-5 DL	MW-9-W-190911 DL	109843	9.26	77636	12.19	37963	14.50

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.1666 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: EQB-1-W-190911 Lab Sample ID: 580-89096-1
 Matrix: Water Lab File ID: 092219_0020.D
 Analysis Method: 8260C SIM Date Collected: 09/11/2019 12:30
 Sample wt/vol: 5 (mL) Date Analyzed: 09/22/2019 23:28
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311960 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.0090
79-34-5	1,1,2,2-Tetrachloroethane	ND	*	0.50	0.049
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.017
75-35-4	1,1-Dichloroethene	ND		0.50	0.014
106-93-4	1,2-Dibromoethane	ND		0.50	0.014
107-06-2	1,2-Dichloroethane	0.054	J	0.50	0.024
106-46-7	1,4-Dichlorobenzene	ND		0.50	0.014
71-43-2	Benzene	0.013	J	0.50	0.0090
75-27-4	Bromodichloromethane	ND		0.50	0.0060
75-25-2	Bromoform	ND		0.50	0.013
74-83-9	Bromomethane	ND		0.50	0.012
67-66-3	Chloroform	0.095	J	0.50	0.0090
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.026
124-48-1	Dibromochloromethane	ND		0.50	0.016
74-95-3	Dibromomethane	ND		0.50	0.017
87-68-3	Hexachlorobutadiene	ND		0.50	0.026
91-20-3	Naphthalene	0.030	J * B	0.50	0.013
127-18-4	Tetrachloroethene	ND		0.50	0.017
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.027
79-01-6	Trichloroethene	ND		0.50	0.0090
75-01-4	Vinyl chloride	ND		0.50	0.013

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		48-150
460-00-4	4-Bromofluorobenzene (Surr)	96		75-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	103		75-120
98-08-8	Trifluorotoluene (Surr)	100		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-8RR-W-190911 Lab Sample ID: 580-89096-2
 Matrix: Water Lab File ID: 092219_0021.D
 Analysis Method: 8260C SIM Date Collected: 09/11/2019 13:10
 Sample wt/vol: 5 (mL) Date Analyzed: 09/22/2019 23:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311960 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.0090
79-34-5	1,1,2,2-Tetrachloroethane	ND	*	0.50	0.049
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.017
75-35-4	1,1-Dichloroethene	ND		0.50	0.014
106-93-4	1,2-Dibromoethane	0.014	J	0.50	0.014
107-06-2	1,2-Dichloroethane	0.79		0.50	0.024
106-46-7	1,4-Dichlorobenzene	ND		0.50	0.014
71-43-2	Benzene	0.047	J	0.50	0.0090
75-27-4	Bromodichloromethane	ND		0.50	0.0060
75-25-2	Bromoform	ND		0.50	0.013
74-83-9	Bromomethane	ND		0.50	0.012
67-66-3	Chloroform	0.0099	J	0.50	0.0090
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.026
124-48-1	Dibromochloromethane	ND		0.50	0.016
74-95-3	Dibromomethane	ND		0.50	0.017
87-68-3	Hexachlorobutadiene	ND		0.50	0.026
91-20-3	Naphthalene	0.023	J * B	0.50	0.013
127-18-4	Tetrachloroethene	1.8		0.50	0.017
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.027
79-01-6	Trichloroethene	0.057	J	0.50	0.0090
75-01-4	Vinyl chloride	ND		0.50	0.013

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		48-150
460-00-4	4-Bromofluorobenzene (Surr)	102		75-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	101		75-120
98-08-8	Trifluorotoluene (Surr)	98		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-1R-W-190911 Lab Sample ID: 580-89096-3
 Matrix: Water Lab File ID: 092219_0022.D
 Analysis Method: 8260C SIM Date Collected: 09/11/2019 14:10
 Sample wt/vol: 5 (mL) Date Analyzed: 09/23/2019 00:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311960 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.0090
79-34-5	1,1,2,2-Tetrachloroethane	ND	*	0.50	0.049
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.017
75-35-4	1,1-Dichloroethene	ND		0.50	0.014
106-93-4	1,2-Dibromoethane	ND		0.50	0.014
107-06-2	1,2-Dichloroethane	1.4		0.50	0.024
106-46-7	1,4-Dichlorobenzene	ND		0.50	0.014
71-43-2	Benzene	2.2		0.50	0.0090
75-27-4	Bromodichloromethane	ND		0.50	0.0060
75-25-2	Bromoform	ND		0.50	0.013
74-83-9	Bromomethane	ND		0.50	0.012
67-66-3	Chloroform	ND		0.50	0.0090
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.026
124-48-1	Dibromochloromethane	ND		0.50	0.016
74-95-3	Dibromomethane	ND		0.50	0.017
87-68-3	Hexachlorobutadiene	ND		0.50	0.026
91-20-3	Naphthalene	0.026	J * B	0.50	0.013
127-18-4	Tetrachloroethene	0.13	J	0.50	0.017
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.027
79-01-6	Trichloroethene	ND		0.50	0.0090
75-01-4	Vinyl chloride	ND		0.50	0.013

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		48-150
460-00-4	4-Bromofluorobenzene (Surr)	99		75-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	102		75-120
98-08-8	Trifluorotoluene (Surr)	97		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-2R-W-190911 Lab Sample ID: 580-89096-4
 Matrix: Water Lab File ID: 092219_0023.D
 Analysis Method: 8260C SIM Date Collected: 09/11/2019 15:00
 Sample wt/vol: 5 (mL) Date Analyzed: 09/23/2019 00:46
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311960 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.0090
79-34-5	1,1,2,2-Tetrachloroethane	ND	*	0.50	0.049
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.017
75-35-4	1,1-Dichloroethene	ND		0.50	0.014
106-93-4	1,2-Dibromoethane	ND		0.50	0.014
107-06-2	1,2-Dichloroethane	6.0		0.50	0.024
106-46-7	1,4-Dichlorobenzene	ND		0.50	0.014
71-43-2	Benzene	5.0		0.50	0.0090
75-27-4	Bromodichloromethane	ND		0.50	0.0060
75-25-2	Bromoform	ND		0.50	0.013
74-83-9	Bromomethane	ND		0.50	0.012
67-66-3	Chloroform	ND		0.50	0.0090
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.026
124-48-1	Dibromochloromethane	ND		0.50	0.016
74-95-3	Dibromomethane	ND		0.50	0.017
87-68-3	Hexachlorobutadiene	ND		0.50	0.026
91-20-3	Naphthalene	6.2	* B	0.50	0.013
127-18-4	Tetrachloroethene	0.37	J	0.50	0.017
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.027
79-01-6	Trichloroethene	0.11	J	0.50	0.0090
75-01-4	Vinyl chloride	ND		0.50	0.013

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		48-150
460-00-4	4-Bromofluorobenzene (Surr)	104		75-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	103		75-120
98-08-8	Trifluorotoluene (Surr)	98		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-9-W-190911 Lab Sample ID: 580-89096-5
 Matrix: Water Lab File ID: 092219_0024.D
 Analysis Method: 8260C SIM Date Collected: 09/11/2019 16:10
 Sample wt/vol: 5 (mL) Date Analyzed: 09/23/2019 01:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311960 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.0090
79-34-5	1,1,2,2-Tetrachloroethane	ND	*	0.50	0.049
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.017
75-35-4	1,1-Dichloroethene	0.036	J	0.50	0.014
106-93-4	1,2-Dibromoethane	ND		0.50	0.014
107-06-2	1,2-Dichloroethane	ND		0.50	0.024
106-46-7	1,4-Dichlorobenzene	0.029	J	0.50	0.014
71-43-2	Benzene	0.016	J	0.50	0.0090
75-27-4	Bromodichloromethane	ND		0.50	0.0060
75-25-2	Bromoform	ND		0.50	0.013
74-83-9	Bromomethane	ND		0.50	0.012
67-66-3	Chloroform	0.030	J	0.50	0.0090
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.026
124-48-1	Dibromochloromethane	ND		0.50	0.016
74-95-3	Dibromomethane	ND		0.50	0.017
87-68-3	Hexachlorobutadiene	ND		0.50	0.026
91-20-3	Naphthalene	0.32	J * B	0.50	0.013
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.027
79-01-6	Trichloroethene	22		0.50	0.0090
75-01-4	Vinyl chloride	0.17	J	0.50	0.013

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		48-150
460-00-4	4-Bromofluorobenzene (Surr)	102		75-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	101		75-120
98-08-8	Trifluorotoluene (Surr)	98		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-9-W-190911 DL Lab Sample ID: 580-89096-5 DL
 Matrix: Water Lab File ID: 092319_0088.D
 Analysis Method: 8260C SIM Date Collected: 09/11/2019 16:10
 Sample wt/vol: 5 (mL) Date Analyzed: 09/24/2019 10:11
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312081 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	68		2.5	0.085

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		48-150
460-00-4	4-Bromofluorobenzene (Surr)	96		75-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	103		75-120
98-08-8	Trifluorotoluene (Surr)	98		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: BD-1-W-190911 Lab Sample ID: 580-89096-6
 Matrix: Water Lab File ID: 092219_0025.D
 Analysis Method: 8260C SIM Date Collected: 09/11/2019 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 09/23/2019 01:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311960 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.0090
79-34-5	1,1,2,2-Tetrachloroethane	ND	*	0.50	0.049
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.017
75-35-4	1,1-Dichloroethene	ND		0.50	0.014
106-93-4	1,2-Dibromoethane	ND		0.50	0.014
107-06-2	1,2-Dichloroethane	0.77		0.50	0.024
106-46-7	1,4-Dichlorobenzene	ND		0.50	0.014
71-43-2	Benzene	0.042	J	0.50	0.0090
75-27-4	Bromodichloromethane	ND		0.50	0.0060
75-25-2	Bromoform	ND		0.50	0.013
74-83-9	Bromomethane	ND		0.50	0.012
67-66-3	Chloroform	ND		0.50	0.0090
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.026
124-48-1	Dibromochloromethane	ND		0.50	0.016
74-95-3	Dibromomethane	ND		0.50	0.017
87-68-3	Hexachlorobutadiene	ND		0.50	0.026
91-20-3	Naphthalene	0.10	J * B	0.50	0.013
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.027
79-01-6	Trichloroethene	0.070	J	0.50	0.0090
75-01-4	Vinyl chloride	ND		0.50	0.013

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		48-150
460-00-4	4-Bromofluorobenzene (Surr)	100		75-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	102		75-120
98-08-8	Trifluorotoluene (Surr)	97		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: BD-1-W-190911 RA Lab Sample ID: 580-89096-6 RA
 Matrix: Water Lab File ID: 092319_0087.D
 Analysis Method: 8260C SIM Date Collected: 09/11/2019 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 09/24/2019 09:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312081 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	1.7		0.50	0.017

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		48-150
460-00-4	4-Bromofluorobenzene (Surr)	100		75-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	103		75-120
98-08-8	Trifluorotoluene (Surr)	99		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: Trip Blank Lab Sample ID: 580-89096-7
 Matrix: Water Lab File ID: 092219_0009.D
 Analysis Method: 8260C SIM Date Collected: 09/11/2019 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 09/22/2019 18:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311960 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.0090
79-34-5	1,1,2,2-Tetrachloroethane	ND	*	0.50	0.049
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.017
75-35-4	1,1-Dichloroethene	ND		0.50	0.014
106-93-4	1,2-Dibromoethane	ND		0.50	0.014
107-06-2	1,2-Dichloroethane	ND		0.50	0.024
106-46-7	1,4-Dichlorobenzene	0.014	J	0.50	0.014
71-43-2	Benzene	ND		0.50	0.0090
75-27-4	Bromodichloromethane	ND		0.50	0.0060
75-25-2	Bromoform	ND		0.50	0.013
74-83-9	Bromomethane	ND		0.50	0.012
67-66-3	Chloroform	ND		0.50	0.0090
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.026
124-48-1	Dibromochloromethane	ND		0.50	0.016
74-95-3	Dibromomethane	ND		0.50	0.017
87-68-3	Hexachlorobutadiene	0.032	J B	0.50	0.026
91-20-3	Naphthalene	0.095	J * B	0.50	0.013
127-18-4	Tetrachloroethene	0.020	J	0.50	0.017
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.027
79-01-6	Trichloroethene	ND		0.50	0.0090
75-01-4	Vinyl chloride	ND		0.50	0.013

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		48-150
460-00-4	4-Bromofluorobenzene (Surr)	100		75-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	101		75-120
98-08-8	Trifluorotoluene (Surr)	96		80-120

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311785

SDG No.: _____

Instrument ID: TAC036 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2019 00:29 Calibration End Date: 09/20/2019 03:57 Calibration ID: 28249

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-311785/3	091919_0033.D
Level 2	IC 580-311785/4	091919_0034.D
Level 3	IC 580-311785/5	091919_0035.D
Level 4	IC 580-311785/6	091919_0036.D
Level 5	IC 580-311785/7	091919_0037.D
Level 6	ICIS 580-311785/8	091919_0038.D
Level 7	IC 580-311785/9	091919_0039.D
Level 8	IC 580-311785/10	091919_0040.D
Level 9	IC 580-311785/11	091919_0041.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Vinyl chloride	++++ 0.3081	++++ 0.3334	++++ 0.3276	0.4002 0.3561	0.4862	Ave		0.3686		0.1000	17.8		20.0				
Butadiene	++++ 0.2701	0.2972 0.2881	0.3155 0.2920	0.3674 0.3243	0.4078	Ave		0.3203			14.4		20.0				
Bromomethane	0.2220 0.2219	0.2216 0.2080	0.2689 0.2060	0.2585 0.2336	0.2257	Ave		0.2296		0.1000	9.3		20.0				
1,1-Dichloroethene	++++ 0.1613	0.2040 0.1703	0.2071 0.1670	0.1992 0.1844	0.2102	Ave		0.1879		0.1000	10.5		20.0				
Isopropyl alcohol	0.1142 0.0939	0.0988 0.1008	0.1007 0.0956	0.0996 0.0993	0.1022	Ave		0.1006			5.7		20.0				
cis-1,2-Dichloroethene	++++ 0.2263	0.3078 0.2356	0.2402 0.2189	0.2400 0.2358	0.2481	Lin2	0.0033	0.2301		0.1000	5.9		20.0	0.9960		0.9900	
Chloroform	++++ 0.3838	0.4326 0.4012	0.4213 0.3728	0.4103 0.4003	0.4212	Ave		0.4054		0.2000	5.0		20.0				
1,2-Dichloroethane	1.0512 0.3214	0.6067 0.3338	0.4984 0.3146	0.3795 0.3246	0.3610	Lin2	0.0144	0.3326		0.1000	4.8		20.0	0.9980		0.9900	
Benzene	++++ 0.8108	1.1009 0.8645	0.9931 0.8132	0.9083 0.8684	0.9316	Lin2	0.0126	0.8590		0.5000	4.5		20.0	0.9980		0.9900	
Dibromomethane	0.1903 0.1425	0.1583 0.1494	0.1560 0.1424	0.1493 0.1548	0.1508	Ave		0.1549			9.3		20.0				
Trichloroethene	0.2537 0.1904	0.2058 0.1995	0.2151 0.1941	0.2135 0.2217	0.2190	Lin2	0.0009	0.2044		0.2000	6.3		20.0	0.9960		0.9900	
Bromodichloromethane	++++ 0.2780	0.2972 0.3018	0.3056 0.2854	0.2916 0.3018	0.2964	Ave		0.2947		0.2000	3.2		20.0				
cis-1,3-Dichloropropene	0.5325 0.4608	0.4275 0.5024	0.4612 0.4657	0.4666 0.4612	0.4509	Ave		0.4699		0.2000	6.5		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311785

SDG No.: _____

Instrument ID: TAC036 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2019 00:29 Calibration End Date: 09/20/2019 03:57 Calibration ID: 28249

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
trans-1,3-Dichloropropene	0.4881 0.4221	0.3968 0.4556	0.4575 0.4307	0.4306 0.4237	0.4261	Ave		0.4368			0.1000	6.1	20.0				
1,1,2-Trichloroethane	0.3043 0.2586	0.2952 0.2755	0.2795 0.2525	0.2761 0.2461	0.2832	Ave		0.2746			0.1000	7.0	20.0				
2-Hexanone	++++ 0.1271	0.1082 0.1321	0.1138 0.1240	0.1174 0.1119	0.1479	Lin2	-0.005	0.1270			0.0600	9.2	20.0	0.9910		0.9900	
Dibromochloromethane	++++ 0.2917	0.3047 0.3165	0.3083 0.3012	0.2890 0.3044	0.2944	Ave		0.3013			0.1000	3.1	20.0				
1,2-Dibromoethane	++++ 0.2889	0.3236 0.3035	0.3208 0.2816	0.3021 0.2735	0.3132	Ave		0.3009			0.1000	6.1	20.0				
Tetrachloroethene	++++ 0.1915	0.2031 0.2039	0.2231 0.1966	0.2181 0.2133	0.2291	Ave		0.2098			0.2000	6.3	20.0				
1,1,1,2-Tetrachloroethane	++++ 0.2800	0.2811 0.3037	0.2970 0.2831	0.2941 0.2929	0.2784	Ave		0.2888				3.2	20.0				
Bromoform	++++ 0.2067	0.2149 0.2262	0.2193 0.2173	0.2096 0.2215	0.2104	Ave		0.2157			0.1000	3.1	20.0				
1,1,2,2-Tetrachloroethane	0.8610 0.7818	0.8953 0.8502	0.7902 0.7285	0.8081 0.6803	0.8166	Ave		0.8013			0.3000	8.3	20.0				
1,4-Dichlorobenzene	++++ 1.2199	1.7139 1.3757	1.3846 1.1809	1.3132 1.2444	1.3182	Lin2	0.0210	1.2562			0.5000	5.8	20.0	0.9970		0.9900	
Naphthalene	++++ 1.5186	++++ 1.8799	1.7242 1.7173	1.4187 1.7215	1.5477	Ave		1.6468				9.6	20.0				
Hexachlorobutadiene	++++ 0.2441	0.3274 0.2779	0.2808 0.2356	0.2624 0.2486	0.2826	Lin2	0.0034	0.2557				6.7	20.0	0.9950		0.9900	
Dibromofluoromethane (Surr)	0.2682 0.2691	0.2641 0.2658	0.2657 0.2650	0.2697 0.2652	0.2632	Ave		0.2662				0.8	20.0				
1,2-Dichloroethane-d4 (Surr)	0.3406 0.3389	0.3338 0.3245	0.3418 0.3301	0.3467 0.3237	0.3371	Ave		0.3352				2.3	20.0				
Trifluorotoluene (Surr)	0.4412 0.4350	0.4517 0.4383	0.4366 0.4472	0.4297 0.4539	0.4376	Ave		0.4413				1.8	20.0				
Toluene-d8 (Surr)	1.2201 1.2271	1.2235 1.2377	1.2095 1.2190	1.2265 1.1411	1.2076	Ave		1.2125				2.3	20.0				
4-Bromofluorobenzene (Surr)	0.4155 0.4153	0.3934 0.4086	0.4272 0.4132	0.4145 0.4019	0.4158	Ave		0.4117				2.3	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311785

SDG No.: _____

Instrument ID: TAC036 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2019 00:29 Calibration End Date: 09/20/2019 03:57 Calibration ID: 28249

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-311785/3	091919_0033.D
Level 2	IC 580-311785/4	091919_0034.D
Level 3	IC 580-311785/5	091919_0035.D
Level 4	IC 580-311785/6	091919_0036.D
Level 5	IC 580-311785/7	091919_0037.D
Level 6	ICIS 580-311785/8	091919_0038.D
Level 7	IC 580-311785/9	091919_0039.D
Level 8	IC 580-311785/10	091919_0040.D
Level 9	IC 580-311785/11	091919_0041.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Vinyl chloride	FB	Ave	+++++ 18592	+++++ 40382	+++++ 100801	2180 229281	5536	+++++ 5.00	+++++ 10.0	+++++ 25.0	0.500 50.0	1.00
Butadiene	FB	Ave	+++++ 16301	169 34889	352 89855	2001 208820	4644	+++++ 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
Bromomethane	FB	Ave	49 13392	126 25192	300 63380	1408 150404	2570	0.0200 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
1,1-Dichloroethene	FB	Ave	+++++ 9736	116 20630	231 51398	1085 118764	2394	+++++ 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
Isopropyl alcohol	FB	Ave	252 56658	562 122036	1123 294166	5424 639688	11638	0.200 50.0	0.500 100	1.00 250	5.00 500	10.0
cis-1,2-Dichloroethene	FB	Lin2	+++++ 13657	175 28540	268 67355	1307 151865	2825	+++++ 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
Chloroform	FB	Ave	+++++ 23164	246 48592	470 114741	2235 257726	4796	+++++ 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
1,2-Dichloroethane	FB	Lin2	232 19397	345 40434	556 96807	2067 208995	4111	0.0200 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
Benzene	FB	Lin2	+++++ 48934	626 104706	1108 250263	4947 559185	10608	+++++ 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
Dibromomethane	FB	Ave	42 8602	90 18096	174 43811	813 99657	1717	0.0200 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
Trichloroethene	FB	Lin2	56 11489	117 24169	240 59747	1163 142751	2494	0.0200 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
Bromodichloromethane	FB	Ave	+++++ 16775	169 36554	341 87842	1588 194361	3375	+++++ 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
cis-1,3-Dichloropropene	CBNZ d5	Ave	84 19431	181 42050	368 104072	1739 231872	3728	0.0200 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
trans-1,3-Dichloropropene	CBNZ d5	Ave	77 17800	168 38139	365 96252	1605 213048	3523	0.0200 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311785

SDG No.: _____

Instrument ID: TAC036 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2019 00:29 Calibration End Date: 09/20/2019 03:57 Calibration ID: 28249

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
1,1,2-Trichloroethane	CBNZ d5	Ave	48 10903	125 23059	223 56426	1029 123730	2342	0.0200 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
2-Hexanone	CBNZ d5	Lin2	++++ 26794	229 55285	454 138594	2187 281374	6116	++++ 25.0	0.250 50.0	0.500 125	2.50 250	5.00
Dibromochloromethane	CBNZ d5	Ave	++++ 12302	129 26495	246 67305	1077 153061	2434	++++ 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
1,2-Dibromoethane	CBNZ d5	Ave	++++ 12183	137 25406	256 62926	1126 137530	2590	++++ 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
Tetrachloroethene	CBNZ d5	Ave	++++ 8076	86 17071	178 43933	813 107242	1894	++++ 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	++++ 11807	119 25420	237 63268	1096 147261	2302	++++ 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
Bromoform	CBNZ d5	Ave	++++ 8715	91 18934	175 48559	781 111386	1740	++++ 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	72 18252	175 39169	363 93774	1632 194468	3647	0.0200 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
1,4-Dichlorobenzene	DCBd 4	Lin2	++++ 28481	335 63376	636 152017	2652 355722	5887	++++ 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
Naphthalene	DCBd 4	Ave	++++ 35455	++++ 86603	792 221075	2865 492108	6912	++++ 5.00	++++ 10.0	0.100 25.0	0.500 50.0	1.00
Hexachlorobutadiene	DCBd 4	Lin2	++++ 5698	64 12803	129 30329	530 71053	1262	++++ 5.00	0.0500 10.0	0.100 25.0	0.500 50.0	1.00
Dibromofluoromethane (Surr)	FB	Ave	28856 31669	29287 31384	28897 31810	28650 33299	29226	9.75 9.75	9.75 9.75	9.75 9.75	9.75 9.75	9.75
1,2-Dichloroethane-d4 (Surr)	FB	Ave	36640 39883	37008 38325	37184 39619	36821 40642	37427	9.75 9.75	9.75 9.75	9.75 9.75	9.75 9.75	9.75
Trifluorotoluene (Surr)	FB	Ave	48667 52484	51350 53070	48695 55029	46794 58431	49813	10.00 10.00	10.00 10.00	10.00 10.00	10.00 10.00	10.00
Toluene-d8 (Surr)	CBNZ d5	Ave	93833 100905	101018 101007	94095 106238	89135 111877	97350	9.75 9.75	9.75 9.75	9.75 9.75	9.75 9.75	9.75
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	31953 34151	32483 33347	33234 36011	30128 39398	33523	9.75 9.75	9.75 9.75	9.75 9.75	9.75 9.75	9.75

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311785

SDG No.: _____

Instrument ID: TAC036 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2019 00:29 Calibration End Date: 09/20/2019 03:57 Calibration ID: 28249

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-311785/3	091919_0033.D
Level 2	IC 580-311785/4	091919_0034.D
Level 3	IC 580-311785/5	091919_0035.D
Level 4	IC 580-311785/6	091919_0036.D
Level 5	IC 580-311785/7	091919_0037.D
Level 6	ICIS 580-311785/8	091919_0038.D
Level 7	IC 580-311785/9	091919_0039.D
Level 8	IC 580-311785/10	091919_0040.D
Level 9	IC 580-311785/11	091919_0041.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #				LVL 7	LVL 8	LVL 9			
Vinyl chloride	+++++	+++++	+++++	8.6	31.9	-16.4	50	50	50	50	50	50
Butadiene	+++++	-7.2	-1.5	14.7	27.3	-15.7	50	50	50	50	50	50
Bromomethane	-3.3	-3.5	17.1	12.6	-1.7	-3.3	50	50	50	50	50	50
1,1-Dichloroethene	+++++	8.5	10.2	6.0	11.9	-14.2	50	50	50	50	50	50
Isopropyl alcohol	13.6	-1.7	0.1	-1.0	1.6	-6.6	50	50	50	50	50	50
cis-1,2-Dichloroethene	+++++	4.6	-10.2	1.4	6.4	-2.0	30	50	30	30	30	30
Chloroform	+++++	6.7	3.9	1.2	3.9	-5.3	50	50	50	50	50	50
1,2-Dichloroethane	0.0	-4.0	6.6	5.5	4.2	-4.2	50	30	30	30	30	30
Benzene	+++++	-1.1	1.0	2.8	7.0	-5.9	30	50	30	30	30	30
Dibromomethane	22.9	2.2	0.7	-3.6	-2.6	-8.0	50	50	50	50	50	50
Trichloroethene	2.7	-7.9	0.9	3.6	6.7	-7.0	50	30	30	30	30	30
Bromodichloromethane	+++++	0.8	3.7	-1.1	0.6	-5.7	50	50	50	50	50	50
cis-1,3-Dichloropropene	13.3	-9.0	-1.8	-0.7	-4.0	-1.9	50	50	50	50	50	50
trans-1,3-Dichloropropene	11.7	-9.2	4.7	-1.4	-2.5	-3.4	50	50	50	50	50	50

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311785

SDG No.: _____

Instrument ID: TAC036 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2019 00:29 Calibration End Date: 09/20/2019 03:57 Calibration ID: 28249

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT						
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	
	LVL 7 #	LVL 8 #	LVL 9 #				LVL 7	LVL 8	LVL 9				
1,1,2-Trichloroethane	10.8 0.3	7.5 -8.0	1.8 -10.4	0.6	3.2	-5.8	50 50	50 50	50 50	50	50	50	50
2-Hexanone	++++ 4.1	1.0 -2.3	-2.5 -11.8	-6.0	17.3	0.2	50 30	50 30	30 30	30	30	30	30
Dibromochloromethane	++++ 5.1	1.1 0.0	2.3 1.0	-4.1	-2.3	-3.2	50	50 50	50 50	50	50	50	50
1,2-Dibromoethane	++++ 0.9	7.5 -6.4	6.6 -9.1	0.4	4.1	-4.0	50	50 50	50 50	50	50	50	50
Tetrachloroethene	++++ -2.8	-3.2 -6.3	6.3 1.6	4.0	9.2	-8.7	50	50 50	50 50	50	50	50	50
1,1,1,2-Tetrachloroethane	++++ 5.2	-2.7 -2.0	2.9 1.4	1.8	-3.6	-3.0	50	50 50	50 50	50	50	50	50
Bromoform	++++ 4.8	-0.4 0.7	1.7 2.7	-2.9	-2.5	-4.2	50	50 50	50 50	50	50	50	50
1,1,2,2-Tetrachloroethane	7.4 6.1	11.7 -9.1	-1.4 -15.1	0.8	1.9	-2.4	50 50	50 50	50 50	50	50	50	50
1,4-Dichlorobenzene	++++ 9.3	3.0 -6.1	-6.5 -1.0	1.2	3.3	-3.2	30	50 30	30 30	30	30	30	30
Naphthalene	++++ 14.1	++++ 4.3	4.7 4.5	-13.9	-6.0	-7.8	50	50 50	50 50	50	50	50	50
Hexachlorobutadiene	++++ 8.6	1.3 -7.9	-3.5 -2.8	0.0	9.2	-4.8	30	50 30	30 30	30	30	30	30
Dibromofluoromethane (Surr)	0.7 -0.2	-0.8 -0.4	-0.2 -0.4	1.3	-1.1	1.1	50 50	50 50	50 50	50	50	50	50
1,2-Dichloroethane-d4 (Surr)	1.6 -3.2	-0.4 -1.5	2.0 -3.4	3.4	0.6	1.1	50 50	50 50	50 50	50	50	50	50
Trifluorotoluene (Surr)	0.0 -0.7	2.4 1.4	-1.0 2.9	-2.6	-0.8	-1.4	50 50	50 50	50 50	50	50	50	50
Toluene-d8 (Surr)	0.6 2.1	0.9 0.5	-0.2 -5.9	1.2	-0.4	1.2	50 50	50 50	50 50	50	50	50	50
4-Bromofluorobenzene (Surr)	0.9 -0.8	-4.4 0.4	3.8 -2.4	0.7	1.0	0.9	50 50	50 50	50 50	50	50	50	50

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: ICV 580-311785/13 Calibration Date: 09/20/2019 04:49
 Instrument ID: TAC036 Calib Start Date: 09/20/2019 00:29
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/20/2019 03:57
 Lab File ID: 091919_0043.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Vinyl chloride	Ave	0.3686	0.3290	0.1000	4.46	5.00	-10.7	30.0
Butadiene	Ave	0.3203	0.2874		4.49	5.00	-10.3	30.0
Bromomethane	Ave	0.2296	0.1975	0.1000	4.30	5.00	-14.0	30.0
1,1-Dichloroethene	Ave	0.1879	0.1690	0.1000	4.50	5.00	-10.1	30.0
Isopropyl alcohol	Ave	0.1006	0.1007		50.1	50.0	0.1	30.0
cis-1,2-Dichloroethene	Lin2		0.2330	0.1000	5.05	5.00	1.0	30.0
Chloroform	Ave	0.4054	0.3956	0.2000	4.88	5.00	-2.4	30.0
1,2-Dichloroethane	Lin2		0.3387	0.1000	5.05	5.00	1.0	30.0
Benzene	Lin2		0.8400	0.5000	4.87	5.00	-2.5	30.0
Dibromomethane	Ave	0.1549	0.1515		4.89	5.00	-2.2	30.0
Trichloroethene	Lin2		0.1914*	0.2000	4.68	5.00	-6.5	30.0
Bromodichloromethane	Ave	0.2947	0.2911	0.2000	4.94	5.00	-1.2	30.0
cis-1,3-Dichloropropene	Ave	0.4699	0.4337	0.2000	4.62	5.00	-7.7	30.0
trans-1,3-Dichloropropene	Ave	0.4368	0.3999	0.1000	4.58	5.00	-8.5	30.0
1,1,2-Trichloroethane	Ave	0.2746	0.2581	0.1000	4.70	5.00	-6.0	30.0
2-Hexanone	Lin2		0.1410	0.0600	27.8	25.0	11.2	30.0
Dibromochloromethane	Ave	0.3013	0.2836	0.1000	4.71	5.00	-5.9	30.0
1,2-Dibromoethane	Ave	0.3009	0.2924	0.1000	4.86	5.00	-2.8	30.0
Tetrachloroethene	Ave	0.2098	0.1786*	0.2000	4.26	5.00	-14.9	30.0
1,1,1,2-Tetrachloroethane	Ave	0.2888	0.2605		4.51	5.00	-9.8	30.0
Bromoform	Ave	0.2157	0.2020	0.1000	4.68	5.00	-6.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8013	0.7878	0.3000	4.92	5.00	-1.7	30.0
1,4-Dichlorobenzene	Lin2		1.224	0.5000	4.86	5.00	-2.9	30.0
Naphthalene	Ave	1.647	1.774		5.39	5.00	7.7	30.0
Hexachlorobutadiene	Lin2		0.2582		5.04	5.00	0.7	30.0
Dibromofluoromethane (Surr)	Ave	0.2662	0.2657		9.73	9.75	-0.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3352	0.3358		9.77	9.75	0.2	30.0
Trifluorotoluene (Surr)	Ave	0.4413	0.4430		10.0	10.0	0.4	30.0
Toluene-d8 (Surr)	Ave	1.212	1.150		9.25	9.75	-5.1	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4117	0.3966		9.39	9.75	-3.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCVIS 580-311960/3 Calibration Date: 09/22/2019 16:06
 Instrument ID: TAC036 Calib Start Date: 09/20/2019 00:29
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/20/2019 03:57
 Lab File ID: 092219_0003.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Vinyl chloride	Ave	0.3686	0.3487	0.1000	18.9	20.0	-5.4	20.0
Butadiene	Ave	0.3203	0.3223		20.1	20.0	0.6	20.0
Bromomethane	Ave	0.2296	0.2019	0.1000	17.6	20.0	-12.0	20.0
1,1-Dichloroethene	Ave	0.1879	0.1782	0.1000	19.0	20.0	-5.2	20.0
Isopropyl alcohol	Ave	0.1006	0.1019		203	200	1.3	20.0
cis-1,2-Dichloroethene	Lin2		0.2287	0.1000	19.9	20.0	-0.7	20.0
Chloroform	Ave	0.4054	0.3933	0.2000	19.4	20.0	-3.0	20.0
1,2-Dichloroethane	Lin2		0.3246	0.1000	19.5	20.0	-2.6	20.0
Benzene	Lin2		0.8589	0.5000	20.0	20.0	-0.0	20.0
Dibromomethane	Ave	0.1549	0.1418		18.3	20.0	-8.4	20.0
Trichloroethene	Lin2		0.2004	0.2000	19.6	20.0	-2.0	20.0
Bromodichloromethane	Ave	0.2947	0.2933	0.2000	19.9	20.0	-0.5	20.0
cis-1,3-Dichloropropene	Ave	0.4699	0.4915	0.2000	20.9	20.0	4.6	20.0
trans-1,3-Dichloropropene	Ave	0.4368	0.4550	0.1000	20.8	20.0	4.2	20.0
1,1,2-Trichloroethane	Ave	0.2746	0.2621	0.1000	19.1	20.0	-4.5	20.0
2-Hexanone	Lin2		0.1293	0.0600	102	100	1.9	20.0
Dibromochloromethane	Ave	0.3013	0.3028	0.1000	20.1	20.0	0.5	20.0
1,2-Dibromoethane	Ave	0.3009	0.2901	0.1000	19.3	20.0	-3.6	20.0
Tetrachloroethene	Ave	0.2098	0.2090	0.2000	19.9	20.0	-0.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2888	0.2841		19.7	20.0	-1.6	20.0
Bromoform	Ave	0.2157	0.2122	0.1000	19.7	20.0	-1.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8013	0.7455	0.3000	18.6	20.0	-7.0	20.0
1,4-Dichlorobenzene	Lin2		1.269	0.5000	20.2	20.0	0.9	20.0
Naphthalene	Ave	1.647	1.600		19.4	20.0	-2.9	20.0
Hexachlorobutadiene	Lin2		0.2470		19.3	20.0	-3.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2662	0.2663		9.75	9.75	0.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3352	0.3341		9.72	9.75	-0.4	20.0
Trifluorotoluene (Surr)	Ave	0.4413	0.4360		9.88	10.0	-1.2	20.0
Toluene-d8 (Surr)	Ave	1.212	1.218		9.80	9.75	0.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4117	0.4125		9.77	9.75	0.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCVIS 580-312081/3 Calibration Date: 09/24/2019 04:05
 Instrument ID: TAC036 Calib Start Date: 09/20/2019 00:29
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/20/2019 03:57
 Lab File ID: 092319_0074.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Vinyl chloride	Ave	0.3686	0.2789	0.1000	3.78	5.00	-24.3*	20.0
Butadiene	Ave	0.3203	0.2496		3.90	5.00	-22.1*	20.0
Bromomethane	Ave	0.2296	0.2248	0.1000	4.90	5.00	-2.1	20.0
1,1-Dichloroethene	Ave	0.1879	0.1530	0.1000	4.07	5.00	-18.6	20.0
Isopropyl alcohol	Ave	0.1006	0.0926		46.1	50.0	-7.9	20.0
cis-1,2-Dichloroethene	Lin2		0.2212	0.1000	4.79	5.00	-4.2	20.0
Chloroform	Ave	0.4054	0.3735	0.2000	4.61	5.00	-7.9	20.0
1,2-Dichloroethane	Lin2		0.3163	0.1000	4.71	5.00	-5.8	20.0
Benzene	Lin2		0.8031	0.5000	4.66	5.00	-6.8	20.0
Dibromomethane	Ave	0.1549	0.1456		4.70	5.00	-6.0	20.0
Trichloroethene	Lin2		0.1910*	0.2000	4.67	5.00	-6.6	20.0
Bromodichloromethane	Ave	0.2947	0.2736	0.2000	4.64	5.00	-7.2	20.0
cis-1,3-Dichloropropene	Ave	0.4699	0.4271	0.2000	4.55	5.00	-9.1	20.0
trans-1,3-Dichloropropene	Ave	0.4368	0.3882	0.1000	4.44	5.00	-11.1	20.0
1,1,2-Trichloroethane	Ave	0.2746	0.2378	0.1000	4.33	5.00	-13.4	20.0
2-Hexanone	Lin2		0.1159	0.0600	22.9	25.0	-8.6	20.0
Dibromochloromethane	Ave	0.3013	0.2723	0.1000	4.52	5.00	-9.6	20.0
1,2-Dibromoethane	Ave	0.3009	0.2662	0.1000	4.42	5.00	-11.5	20.0
Tetrachloroethene	Ave	0.2098	0.1728*	0.2000	4.12	5.00	-17.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2888	0.2656		4.60	5.00	-8.0	20.0
Bromoform	Ave	0.2157	0.1967	0.1000	4.56	5.00	-8.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8013	0.6573	0.3000	4.10	5.00	-18.0	20.0
1,4-Dichlorobenzene	Lin2		1.126	0.5000	4.47	5.00	-10.7	20.0
Naphthalene	Ave	1.647	1.320		4.01	5.00	-19.8	20.0
Hexachlorobutadiene	Lin2		0.2083		4.06	5.00	-18.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2662	0.2681		9.82	9.75	0.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3352	0.3340		9.71	9.75	-0.4	20.0
Trifluorotoluene (Surr)	Ave	0.4413	0.4454		10.1	10.0	0.9	20.0
Toluene-d8 (Surr)	Ave	1.212	1.152		9.27	9.75	-5.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4117	0.4161		9.85	9.75	1.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCVL 580-312081/6 Calibration Date: 09/24/2019 05:23
 Instrument ID: TAC036 Calib Start Date: 09/20/2019 00:29
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/20/2019 03:57
 Lab File ID: 092319_0077.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Vinyl chloride	Ave	0.3686	0.3412	0.1000	0.463	0.500	-7.4	
Butadiene	Ave	0.3203	0.2960		0.462	0.500	-7.6	
Bromomethane	Ave	0.2296	0.2273	0.1000	0.495	0.500	-1.0	
1,1-Dichloroethene	Ave	0.1879	0.1757	0.1000	0.467	0.500	-6.5	
Isopropyl alcohol	Ave	0.1006	0.0871		4.33	5.00	-13.4	
cis-1,2-Dichloroethene	Lin2		0.2021	0.1000	0.425	0.500	-15.1	
Chloroform	Ave	0.4054	0.3518	0.2000	0.434	0.500	-13.2	
1,2-Dichloroethane	Lin2		0.3292	0.1000	0.452	0.500	-9.7	
Benzene	Lin2		0.7912	0.5000	0.446	0.500	-10.8	
Dibromomethane	Ave	0.1549	0.1483		0.479	0.500	-4.2	
Trichloroethene	Lin2		0.1844*	0.2000	0.447	0.500	-10.6	
Bromodichloromethane	Ave	0.2947	0.2573	0.2000	0.436	0.500	-12.7	
cis-1,3-Dichloropropene	Ave	0.4699	0.4563	0.2000	0.486	0.500	-2.9	
trans-1,3-Dichloropropene	Ave	0.4368	0.3987	0.1000	0.456	0.500	-8.7	
1,1,2-Trichloroethane	Ave	0.2746	0.2500	0.1000	0.455	0.500	-8.9	
2-Hexanone	Lin2		0.1555	0.0600	3.10	2.50	24.0	
Dibromochloromethane	Ave	0.3013	0.2598	0.1000	0.431	0.500	-13.8	
1,2-Dibromoethane	Ave	0.3009	0.3020	0.1000	0.502	0.500	0.4	
Tetrachloroethene	Ave	0.2098	0.1954*	0.2000	0.466	0.500	-6.9	
1,1,1,2-Tetrachloroethane	Ave	0.2888	0.2468		0.427	0.500	-14.5	
Bromoform	Ave	0.2157	0.1874	0.1000	0.434	0.500	-13.2	
1,1,2,2-Tetrachloroethane	Ave	0.8013	0.9268	0.3000	0.578	0.500	15.7	
Naphthalene	Ave	1.647	2.757		0.837	0.500	67.4	
Hexachlorobutadiene	Lin2		0.2984		0.570	0.500	14.0	
1,4-Dichlorobenzene	Lin2					0.500	-100.0	
Dibromofluoromethane (Surr)	Ave	0.2662	0.2568		9.40	9.75	-3.5	
1,2-Dichloroethane-d4 (Surr)	Ave	0.3352	0.3329		9.68	9.75	-0.7	
Trifluorotoluene (Surr)	Ave	0.4413	0.4424		10.0	10.0	0.3	
Toluene-d8 (Surr)	Ave	1.212	1.231		9.90	9.75	1.5	
4-Bromofluorobenzene (Surr)	Ave	0.4117	0.4042		9.57	9.75	-1.8	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-311960/7
 Matrix: Water Lab File ID: 092219_0007.D
 Analysis Method: 8260C SIM Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 09/22/2019 17:50
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311960 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.0090
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.049
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.017
75-35-4	1,1-Dichloroethene	ND		0.50	0.014
106-93-4	1,2-Dibromoethane	ND		0.50	0.014
107-06-2	1,2-Dichloroethane	ND		0.50	0.024
106-46-7	1,4-Dichlorobenzene	ND		0.50	0.014
71-43-2	Benzene	ND		0.50	0.0090
75-27-4	Bromodichloromethane	ND		0.50	0.0060
75-25-2	Bromoform	ND		0.50	0.013
74-83-9	Bromomethane	ND		0.50	0.012
67-66-3	Chloroform	ND		0.50	0.0090
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.026
124-48-1	Dibromochloromethane	ND		0.50	0.016
74-95-3	Dibromomethane	ND		0.50	0.017
87-68-3	Hexachlorobutadiene	0.126	J	0.50	0.026
91-20-3	Naphthalene	0.412	J	0.50	0.013
127-18-4	Tetrachloroethene	ND		0.50	0.017
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.027
79-01-6	Trichloroethene	ND		0.50	0.0090
75-01-4	Vinyl chloride	ND		0.50	0.013

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		48-150
460-00-4	4-Bromofluorobenzene (Surr)	98		75-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	101		75-120
98-08-8	Trifluorotoluene (Surr)	98		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-312081/7
 Matrix: Water Lab File ID: 092319_0078.D
 Analysis Method: 8260C SIM Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 09/24/2019 05:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312081 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.0090
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.049
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.017
75-35-4	1,1-Dichloroethene	ND		0.50	0.014
106-93-4	1,2-Dibromoethane	ND		0.50	0.014
107-06-2	1,2-Dichloroethane	ND		0.50	0.024
106-46-7	1,4-Dichlorobenzene	ND		0.50	0.014
71-43-2	Benzene	ND		0.50	0.0090
75-27-4	Bromodichloromethane	ND		0.50	0.0060
75-25-2	Bromoform	ND		0.50	0.013
74-83-9	Bromomethane	ND		0.50	0.012
67-66-3	Chloroform	ND		0.50	0.0090
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.026
124-48-1	Dibromochloromethane	ND		0.50	0.016
74-95-3	Dibromomethane	ND		0.50	0.017
87-68-3	Hexachlorobutadiene	ND		0.50	0.026
91-20-3	Naphthalene	0.149	J	0.50	0.013
127-18-4	Tetrachloroethene	ND		0.50	0.017
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.027
79-01-6	Trichloroethene	ND		0.50	0.0090
75-01-4	Vinyl chloride	ND		0.50	0.013

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		48-150
460-00-4	4-Bromofluorobenzene (Surr)	99		75-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	100		75-120
98-08-8	Trifluorotoluene (Surr)	98		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-311960/4
 Matrix: Water Lab File ID: 092219_0004.D
 Analysis Method: 8260C SIM Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 09/22/2019 16:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311960 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	10.1		0.50	0.0090
79-34-5	1,1,2,2-Tetrachloroethane	10.9		0.50	0.049
79-00-5	1,1,2-Trichloroethane	10.0		0.50	0.017
75-35-4	1,1-Dichloroethene	9.53		0.50	0.014
106-93-4	1,2-Dibromoethane	10.2		0.50	0.014
107-06-2	1,2-Dichloroethane	10.0		0.50	0.024
106-46-7	1,4-Dichlorobenzene	11.5		0.50	0.014
71-43-2	Benzene	10.1		0.50	0.0090
75-27-4	Bromodichloromethane	10.1		0.50	0.0060
75-25-2	Bromoform	10.2		0.50	0.013
74-83-9	Bromomethane	8.73		0.50	0.012
67-66-3	Chloroform	9.77		0.50	0.0090
10061-01-5	cis-1,3-Dichloropropene	10.8		0.50	0.026
124-48-1	Dibromochloromethane	10.4		0.50	0.016
74-95-3	Dibromomethane	9.57		0.50	0.017
87-68-3	Hexachlorobutadiene	11.5		0.50	0.026
91-20-3	Naphthalene	12.3		0.50	0.013
127-18-4	Tetrachloroethene	10.2		0.50	0.017
10061-02-6	trans-1,3-Dichloropropene	10.8		0.50	0.027
79-01-6	Trichloroethene	9.88		0.50	0.0090
75-01-4	Vinyl chloride	9.56		0.50	0.013

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		48-150
460-00-4	4-Bromofluorobenzene (Surr)	96		75-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	102		75-120
98-08-8	Trifluorotoluene (Surr)	101		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-312081/4
 Matrix: Water Lab File ID: 092319_0075.D
 Analysis Method: 8260C SIM Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 09/24/2019 04:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312081 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.54		0.50	0.0090
79-34-5	1,1,2,2-Tetrachloroethane	4.28		0.50	0.049
79-00-5	1,1,2-Trichloroethane	4.19		0.50	0.017
75-35-4	1,1-Dichloroethene	4.29		0.50	0.014
106-93-4	1,2-Dibromoethane	4.28		0.50	0.014
107-06-2	1,2-Dichloroethane	4.78		0.50	0.024
106-46-7	1,4-Dichlorobenzene	4.80		0.50	0.014
71-43-2	Benzene	4.71		0.50	0.0090
75-27-4	Bromodichloromethane	4.71		0.50	0.0060
75-25-2	Bromoform	4.40		0.50	0.013
74-83-9	Bromomethane	4.89		0.50	0.012
67-66-3	Chloroform	4.75		0.50	0.0090
10061-01-5	cis-1,3-Dichloropropene	4.44		0.50	0.026
124-48-1	Dibromochloromethane	4.37		0.50	0.016
74-95-3	Dibromomethane	4.65		0.50	0.017
87-68-3	Hexachlorobutadiene	4.42		0.50	0.026
91-20-3	Naphthalene	4.30		0.50	0.013
127-18-4	Tetrachloroethene	4.15		0.50	0.017
10061-02-6	trans-1,3-Dichloropropene	4.35		0.50	0.027
79-01-6	Trichloroethene	4.82		0.50	0.0090
75-01-4	Vinyl chloride	4.15		0.50	0.013

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		48-150
460-00-4	4-Bromofluorobenzene (Surr)	95		75-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	92		75-120
98-08-8	Trifluorotoluene (Surr)	101		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-311960/5
 Matrix: Water Lab File ID: 092219_0005.D
 Analysis Method: 8260C SIM Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 09/22/2019 16:58
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311960 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	10.1		0.50	0.0090
79-34-5	1,1,2,2-Tetrachloroethane	9.05		0.50	0.049
79-00-5	1,1,2-Trichloroethane	9.34		0.50	0.017
75-35-4	1,1-Dichloroethene	8.96		0.50	0.014
106-93-4	1,2-Dibromoethane	9.55		0.50	0.014
107-06-2	1,2-Dichloroethane	9.85		0.50	0.024
106-46-7	1,4-Dichlorobenzene	9.84		0.50	0.014
71-43-2	Benzene	9.77		0.50	0.0090
75-27-4	Bromodichloromethane	9.80		0.50	0.0060
75-25-2	Bromoform	9.85		0.50	0.013
74-83-9	Bromomethane	9.75		0.50	0.012
67-66-3	Chloroform	9.70		0.50	0.0090
10061-01-5	cis-1,3-Dichloropropene	10.4		0.50	0.026
124-48-1	Dibromochloromethane	9.96		0.50	0.016
74-95-3	Dibromomethane	9.41		0.50	0.017
87-68-3	Hexachlorobutadiene	9.46		0.50	0.026
91-20-3	Naphthalene	9.96		0.50	0.013
127-18-4	Tetrachloroethene	9.41		0.50	0.017
10061-02-6	trans-1,3-Dichloropropene	10.2		0.50	0.027
79-01-6	Trichloroethene	9.79		0.50	0.0090
75-01-4	Vinyl chloride	8.68		0.50	0.013

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		48-150
460-00-4	4-Bromofluorobenzene (Surr)	101		75-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	101		75-120
98-08-8	Trifluorotoluene (Surr)	99		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-312081/5
 Matrix: Water Lab File ID: 092319_0076.D
 Analysis Method: 8260C SIM Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 09/24/2019 04:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312081 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	3.95		0.50	0.0090
79-34-5	1,1,2,2-Tetrachloroethane	4.39		0.50	0.049
79-00-5	1,1,2-Trichloroethane	4.10		0.50	0.017
75-35-4	1,1-Dichloroethene	4.21		0.50	0.014
106-93-4	1,2-Dibromoethane	4.15		0.50	0.014
107-06-2	1,2-Dichloroethane	4.44		0.50	0.024
106-46-7	1,4-Dichlorobenzene	4.51		0.50	0.014
71-43-2	Benzene	4.42		0.50	0.0090
75-27-4	Bromodichloromethane	4.44		0.50	0.0060
75-25-2	Bromoform	4.00		0.50	0.013
74-83-9	Bromomethane	3.98		0.50	0.012
67-66-3	Chloroform	4.34		0.50	0.0090
10061-01-5	cis-1,3-Dichloropropene	4.01		0.50	0.026
124-48-1	Dibromochloromethane	4.07		0.50	0.016
74-95-3	Dibromomethane	4.41		0.50	0.017
87-68-3	Hexachlorobutadiene	4.20		0.50	0.026
91-20-3	Naphthalene	4.35		0.50	0.013
127-18-4	Tetrachloroethene	3.89		0.50	0.017
10061-02-6	trans-1,3-Dichloropropene	4.04		0.50	0.027
79-01-6	Trichloroethene	4.36		0.50	0.0090
75-01-4	Vinyl chloride	3.90		0.50	0.013

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		48-150
460-00-4	4-Bromofluorobenzene (Surr)	94		75-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	92		75-120
98-08-8	Trifluorotoluene (Surr)	104		80-120

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC036 Start Date: 09/20/2019 00:03

Analysis Batch Number: 311785 End Date: 09/20/2019 09:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-311785/2		09/20/2019 00:03	1	091919_0032.D	DB-VRX 0.25 (mm)
IC 580-311785/3		09/20/2019 00:29	1	091919_0033.D	DB-VRX 0.25 (mm)
IC 580-311785/4		09/20/2019 00:56	1	091919_0034.D	DB-VRX 0.25 (mm)
IC 580-311785/5		09/20/2019 01:21	1	091919_0035.D	DB-VRX 0.25 (mm)
IC 580-311785/6		09/20/2019 01:47	1	091919_0036.D	DB-VRX 0.25 (mm)
IC 580-311785/7		09/20/2019 02:13	1	091919_0037.D	DB-VRX 0.25 (mm)
ICIS 580-311785/8		09/20/2019 02:39	1	091919_0038.D	DB-VRX 0.25 (mm)
IC 580-311785/9		09/20/2019 03:05	1	091919_0039.D	DB-VRX 0.25 (mm)
IC 580-311785/10		09/20/2019 03:31	1	091919_0040.D	DB-VRX 0.25 (mm)
IC 580-311785/11		09/20/2019 03:57	1	091919_0041.D	DB-VRX 0.25 (mm)
ZZZZZ		09/20/2019 04:23	1		DB-VRX 0.25 (mm)
ICV 580-311785/13		09/20/2019 04:49	1	091919_0043.D	DB-VRX 0.25 (mm)
ZZZZZ		09/20/2019 05:14	1		DB-VRX 0.25 (mm)
ZZZZZ		09/20/2019 05:40	1		DB-VRX 0.25 (mm)
ZZZZZ		09/20/2019 06:07	1		DB-VRX 0.25 (mm)
ZZZZZ		09/20/2019 06:32	1		DB-VRX 0.25 (mm)
ZZZZZ		09/20/2019 07:24	1		DB-VRX 0.25 (mm)
ZZZZZ		09/20/2019 08:17	1		DB-VRX 0.25 (mm)
ZZZZZ		09/20/2019 08:43	1		DB-VRX 0.25 (mm)
ZZZZZ		09/20/2019 09:09	1		DB-VRX 0.25 (mm)
ZZZZZ		09/20/2019 09:35	1		DB-VRX 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC036 Start Date: 09/22/2019 15:39

Analysis Batch Number: 311960 End Date: 09/23/2019 02:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-311960/2		09/22/2019 15:39	1	092219_0002.D	DB-VRX 0.25 (mm)
CCVIS 580-311960/3		09/22/2019 16:06	1	092219_0003.D	DB-VRX 0.25 (mm)
LCS 580-311960/4		09/22/2019 16:32	1	092219_0004.D	DB-VRX 0.25 (mm)
LCSD 580-311960/5		09/22/2019 16:58	1	092219_0005.D	DB-VRX 0.25 (mm)
CCVL 580-311960/6		09/22/2019 17:23	1		DB-VRX 0.25 (mm)
MB 580-311960/7		09/22/2019 17:50	1	092219_0007.D	DB-VRX 0.25 (mm)
ZZZZZ		09/22/2019 18:16	1		DB-VRX 0.25 (mm)
580-89096-7		09/22/2019 18:42	1	092219_0009.D	DB-VRX 0.25 (mm)
ZZZZZ		09/22/2019 19:08	1		DB-VRX 0.25 (mm)
ZZZZZ		09/22/2019 19:34	1		DB-VRX 0.25 (mm)
ZZZZZ		09/22/2019 19:59	1		DB-VRX 0.25 (mm)
ZZZZZ		09/22/2019 20:26	1		DB-VRX 0.25 (mm)
ZZZZZ		09/22/2019 20:52	1		DB-VRX 0.25 (mm)
ZZZZZ		09/22/2019 21:17	1		DB-VRX 0.25 (mm)
ZZZZZ		09/22/2019 21:44	1		DB-VRX 0.25 (mm)
ZZZZZ		09/22/2019 22:09	1		DB-VRX 0.25 (mm)
ZZZZZ		09/22/2019 22:35	1		DB-VRX 0.25 (mm)
ZZZZZ		09/22/2019 23:02	1		DB-VRX 0.25 (mm)
580-89096-1		09/22/2019 23:28	1	092219_0020.D	DB-VRX 0.25 (mm)
580-89096-2		09/22/2019 23:54	1	092219_0021.D	DB-VRX 0.25 (mm)
580-89096-3		09/23/2019 00:20	1	092219_0022.D	DB-VRX 0.25 (mm)
580-89096-4		09/23/2019 00:46	1	092219_0023.D	DB-VRX 0.25 (mm)
580-89096-5		09/23/2019 01:12	1	092219_0024.D	DB-VRX 0.25 (mm)
580-89096-6		09/23/2019 01:38	1	092219_0025.D	DB-VRX 0.25 (mm)
ZZZZZ		09/23/2019 02:04	1000		DB-VRX 0.25 (mm)
ZZZZZ		09/23/2019 02:30	5000		DB-VRX 0.25 (mm)
CCVC 580-311960/28		09/23/2019 02:56	1		DB-VRX 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC036 Start Date: 09/24/2019 03:39

Analysis Batch Number: 312081 End Date: 09/24/2019 12:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-312081/2		09/24/2019 03:39	1	092319_0073.D	DB-VRX 0.25 (mm)
CCVIS 580-312081/3		09/24/2019 04:05	1	092319_0074.D	DB-VRX 0.25 (mm)
LCS 580-312081/4		09/24/2019 04:30	1	092319_0075.D	DB-VRX 0.25 (mm)
LCSD 580-312081/5		09/24/2019 04:57	1	092319_0076.D	DB-VRX 0.25 (mm)
CCVL 580-312081/6		09/24/2019 05:23	1	092319_0077.D	DB-VRX 0.25 (mm)
MB 580-312081/7		09/24/2019 05:49	1	092319_0078.D	DB-VRX 0.25 (mm)
ZZZZZ		09/24/2019 06:15	1		DB-VRX 0.25 (mm)
ZZZZZ		09/24/2019 06:41	1		DB-VRX 0.25 (mm)
ZZZZZ		09/24/2019 07:07	1		DB-VRX 0.25 (mm)
ZZZZZ		09/24/2019 07:33	1		DB-VRX 0.25 (mm)
ZZZZZ		09/24/2019 08:00	1		DB-VRX 0.25 (mm)
ZZZZZ		09/24/2019 08:25	1		DB-VRX 0.25 (mm)
ZZZZZ		09/24/2019 08:52	1		DB-VRX 0.25 (mm)
ZZZZZ		09/24/2019 09:18	1		DB-VRX 0.25 (mm)
580-89096-6 RA		09/24/2019 09:44	1	092319_0087.D	DB-VRX 0.25 (mm)
580-89096-5 DL		09/24/2019 10:11	5	092319_0088.D	DB-VRX 0.25 (mm)
580-87453-A-8 MDLV		09/24/2019 10:37	1		DB-VRX 0.25 (mm)
580-87453-A-8 MDLV		09/24/2019 11:03	1		DB-VRX 0.25 (mm)
580-87453-A-8 MDLV		09/24/2019 11:29	1		DB-VRX 0.25 (mm)
ZZZZZ		09/24/2019 11:55	1		DB-VRX 0.25 (mm)
ZZZZZ		09/24/2019 12:21	1		DB-VRX 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Batch Number: 311785 Batch Start Date: 09/20/19 00:03 Batch Analyst: Ruslander, Amanda P

Batch Method: 8260C SIM Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	5X SUR/IS/TFT 00011	VOAMasterMix 00043	VOAMasterSEC 00035	
BFB 580-311785/2		8260C SIM		5 mL	5 mL	1 uL			
IC 580-311785/3		8260C SIM		5 mL	5 mL	1 uL	0.02 uL		
IC 580-311785/4		8260C SIM		5 mL	5 mL	1 uL	0.05 uL		
IC 580-311785/5		8260C SIM		5 mL	5 mL	1 uL	0.1 uL		
IC 580-311785/6		8260C SIM		5 mL	5 mL	1 uL	0.5 uL		
IC 580-311785/7		8260C SIM		5 mL	5 mL	1 uL	1 uL		
ICIS 580-311785/8		8260C SIM		5 mL	5 mL	1 uL	5 uL		
IC 580-311785/9		8260C SIM		5 mL	5 mL	1 uL	10 uL		
IC 580-311785/10		8260C SIM		5 mL	5 mL	1 uL	25 uL		
IC 580-311785/11		8260C SIM		5 mL	5 mL	1 uL	50 uL		
ICV 580-311785/13		8260C SIM		5 mL	5 mL	1 uL		5 uL	

Batch Notes	
Vial Lot Number	0103701e

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Batch Number: 311960 Batch Start Date: 09/22/19 15:39 Batch Analyst: Ruslander, Amanda P

Batch Method: 8260C SIM Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS/TFT 00011	VOAMasterMix 00043	
BFB 580-311960/2		8260C SIM		5 mL	5 mL		1 uL		
CCVIS 580-311960/3		8260C SIM		5 mL	5 mL		1 uL	20 uL	
LCS 580-311960/4		8260C SIM		5 mL	5 mL		1 uL	10 uL	
LCS 580-311960/5		8260C SIM		5 mL	5 mL		1 uL	10 uL	
MB 580-311960/7		8260C SIM		5 mL	5 mL		1 uL		
580-89096-B-7	Trip Blank	8260C SIM	T	5 mL	5 mL	<2 SU	1 uL		
580-89096-D-1	EQB-1-W-190911	8260C SIM	T	5 mL	5 mL	<2 SU	1 uL		
580-89096-D-2	MW-8RR-W-190911	8260C SIM	T	5 mL	5 mL	<2 SU	1 uL		
580-89096-D-3	MW-1R-W-190911	8260C SIM	T	5 mL	5 mL	<2 SU	1 uL		
580-89096-D-4	MW-2R-W-190911	8260C SIM	T	5 mL	5 mL	<2 SU	1 uL		
580-89096-D-5	MW-9-W-190911	8260C SIM	T	5 mL	5 mL	<2 SU	1 uL		
580-89096-D-6	BD-1-W-190911	8260C SIM	T	5 mL	5 mL	<2 SU	1 uL		

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Batch Number: 312081 Batch Start Date: 09/24/19 03:39 Batch Analyst: Ruslander, Amanda P

Batch Method: 8260C SIM Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS/TFT 00011	VOAMasterMix 00043	
BFB 580-312081/2		8260C SIM		5 mL	5 mL		1 uL		
CCVIS 580-312081/3		8260C SIM		5 mL	5 mL		1 uL	5 uL	
LCS 580-312081/4		8260C SIM		5 mL	5 mL		1 uL	5 uL	
LCSD 580-312081/5		8260C SIM		5 mL	5 mL		1 uL	5 uL	
CCVL 580-312081/6		8260C SIM		5 mL	5 mL		1 uL	0.5 uL	
MB 580-312081/7		8260C SIM		5 mL	5 mL		1 uL		
580-89096-E-6	BD-1-W-190911	8260C SIM	T	5 mL	5 mL	<2 SU	1 uL		
580-89096-E-5	MW-9-W-190911	8260C SIM	T	5 mL	5 mL	<2 SU	1 uL		

Batch Notes	
Vial Lot Number	0103701e

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8260C

Volatile Organic Compounds (GC/MS)
by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): DB-VRX ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TFT #	TOL #	BFB #
EQB-1-W-190911	580-89096-1	100	102	100	103	102
MW-8RR-W-190911	580-89096-2	96	103	101	103	100
MW-1R-W-190911	580-89096-3	99	103	100	102	102
MW-2R-W-190911	580-89096-4	99	101	102	103	104
MW-9-W-190911	580-89096-5	98	100	102	102	101
BD-1-W-190911	580-89096-6	98	102	104	101	98
Trip Blank	580-89096-7	101	101	102	104	101
	MB 580-312211/6	98	103	101	103	102
	LCS 580-312211/3	100	102	101	102	102
	LCSD 580-312211/4	101	99	103	102	100

DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TFT = Trifluorotoluene (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS

80-120
80-126
80-120
80-120
80-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: 092419_0031.D

Lab ID: LCS 580-312211/3

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	8.75	87	74-130	
1,1-Dichloroethane	10.0	9.03	90	70-129	
1,1-Dichloropropene	10.0	8.43	84	80-120	
1,2,3-Trichlorobenzene	10.0	7.19	72	23-150	
1,2,3-Trichloropropane	10.0	8.53	85	76-124	
1,2,4-Trichlorobenzene	10.0	9.49	95	57-140	
1,2,4-Trimethylbenzene	10.0	8.75	87	80-120	
1,2-Dibromo-3-Chloropropane	10.0	9.34 J	93	65-125	
1,2-Dichlorobenzene	10.0	9.02	90	80-120	
1,2-Dichloropropane	10.0	8.70	87	72-126	
1,3,5-Trimethylbenzene	10.0	8.66	87	80-120	
1,3-Dichlorobenzene	10.0	9.04	90	80-120	
1,3-Dichloropropane	10.0	8.95	90	79-120	
2,2-Dichloropropane	10.0	7.74	77	62-140	
2-Butanone	50.0	41.8	84	65-127	
2-Chlorotoluene	10.0	8.96	90	80-120	
4-Chlorotoluene	10.0	8.62	86	80-120	
4-Isopropyltoluene	10.0	8.40	84	77-120	
4-Methyl-2-pentanone	50.0	45.5	91	69-124	
Acetone	50.0	34.8 J	70	43-150	
Bromobenzene	10.0	8.98	90	80-120	
Bromochloromethane	10.0	8.78	88	78-120	
Carbon disulfide	10.0	8.02	80	69-122	
Carbon tetrachloride	10.0	9.79	98	72-129	
Chlorobenzene	10.0	9.05	91	80-120	
Chloroethane	10.0	7.10	71	65-132	
Chloromethane	10.0	7.65 J	76	52-135	
cis-1,2-Dichloroethene	10.0	9.35	94	76-129	
Dichlorodifluoromethane	10.0	6.21 J	62	20-150	
Ethylbenzene	10.0	8.93	89	80-120	
Isopropylbenzene	10.0	9.06	91	75-120	
Methyl tert-butyl ether	10.0	9.03	90	72-130	
Methylene Chloride	10.0	9.75	97	77-125	
m-Xylene & p-Xylene	10.0	8.94	89	80-120	
n-Butylbenzene	10.0	8.46	85	78-120	
N-Propylbenzene	10.0	8.64	86	80-120	
o-Xylene	10.0	9.65	97	80-120	
sec-Butylbenzene	10.0	8.51	85	78-120	
Styrene	10.0	9.83	98	76-121	
t-Butylbenzene	10.0	8.58	86	80-121	
Toluene	10.0	8.80	88	80-120	
trans-1,2-Dichloroethene	10.0	8.30	83	77-124	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 092419_0031.D

Lab ID: LCS 580-312211/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Trichlorofluoromethane	10.0	6.89	69	64-136	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: 092419_0032.D

Lab ID: LCSD 580-312211/4

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	10.0	8.42	84	4	18	74-130	
1,1-Dichloroethane	10.0	8.97	90	1	26	70-129	
1,1-Dichloropropene	10.0	8.36	84	1	14	80-120	
1,2,3-Trichlorobenzene	10.0	7.16	72	0	35	23-150	
1,2,3-Trichloropropane	10.0	10.3	103	19	30	76-124	
1,2,4-Trichlorobenzene	10.0	6.83	68	33	27	57-140	*
1,2,4-Trimethylbenzene	10.0	9.26	93	6	16	80-120	
1,2-Dibromo-3-Chloropropane	10.0	9.00 J	90	4	27	65-125	
1,2-Dichlorobenzene	10.0	8.87	89	2	15	80-120	
1,2-Dichloropropane	10.0	8.54	85	2	26	72-126	
1,3,5-Trimethylbenzene	10.0	9.89	99	13	14	80-120	
1,3-Dichlorobenzene	10.0	7.86	79	14	14	80-120	*
1,3-Dichloropropane	10.0	8.94	89	0	26	79-120	
2,2-Dichloropropane	10.0	8.35	84	8	23	62-140	
2-Butanone	50.0	40.5	81	3	29	65-127	
2-Chlorotoluene	10.0	10.5	105	15	15	80-120	
4-Chlorotoluene	10.0	10.2	102	16	14	80-120	*
4-Isopropyltoluene	10.0	9.02	90	7	13	77-120	
4-Methyl-2-pentanone	50.0	43.9	88	4	22	69-124	
Acetone	50.0	29.7 J	59	16	35	43-150	
Bromobenzene	10.0	10.5	105	16	13	80-120	*
Bromochloromethane	10.0	8.74	87	1	20	78-120	
Carbon disulfide	10.0	7.89	79	2	20	69-122	
Carbon tetrachloride	10.0	9.67	97	1	19	72-129	
Chlorobenzene	10.0	8.86	89	2	15	80-120	
Chloroethane	10.0	6.61	66	7	35	65-132	
Chloromethane	10.0	6.68 J	67	14	23	52-135	
cis-1,2-Dichloroethene	10.0	9.01	90	4	15	76-129	
Dichlorodifluoromethane	10.0	5.93 J	59	5	35	20-150	
Ethylbenzene	10.0	8.83	88	1	14	80-120	
Isopropylbenzene	10.0	8.83	88	3	20	75-120	
Methyl tert-butyl ether	10.0	8.63	86	4	18	72-130	
Methylene Chloride	10.0	9.56	96	2	18	77-125	
m-Xylene & p-Xylene	10.0	8.88	89	1	14	80-120	
n-Butylbenzene	10.0	9.30	93	9	14	78-120	
N-Propylbenzene	10.0	10.0	100	15	13	80-120	*
o-Xylene	10.0	9.50	95	2	16	80-120	
sec-Butylbenzene	10.0	9.23	92	8	15	78-120	
Styrene	10.0	9.60	96	2	16	76-121	
t-Butylbenzene	10.0	9.16	92	7	14	80-121	
Toluene	10.0	8.82	88	0	19	80-120	
trans-1,2-Dichloroethene	10.0	8.33	83	0	21	77-124	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 092419_0032.D

Lab ID: LCS D 580-312211/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS D CONCENTRATION (ug/L)	LCS D % REC	% RPD	QC LIMITS		#
					RPD	REC	
Trichlorofluoromethane	10.0	6.64	66	4	27	64-136	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab File ID: 092419_0034.D Lab Sample ID: MB 580-312211/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: SEA102 Date Analyzed: 09/25/2019 01:24
 GC Column: DB-VRX ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-312211/3	092419_0031 .D	09/25/2019 00:10
	LCSD 580-312211/4	092419_0032 .D	09/25/2019 00:34
Trip Blank	580-89096-7	092419_0036 .D	09/25/2019 02:14
EQB-1-W-190911	580-89096-1	092419_0040 .D	09/25/2019 03:53
MW-8RR-W-190911	580-89096-2	092419_0041 .D	09/25/2019 04:18
MW-1R-W-190911	580-89096-3	092419_0042 .D	09/25/2019 04:43
MW-2R-W-190911	580-89096-4	092419_0043 .D	09/25/2019 05:08
MW-9-W-190911	580-89096-5	092419_0044 .D	09/25/2019 05:32
BD-1-W-190911	580-89096-6	092419_0045 .D	09/25/2019 05:57

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab File ID: 091819_0006.D BFB Injection Date: 09/18/2019
 Instrument ID: SEA102 BFB Injection Time: 11:07
 Analysis Batch No.: 311491

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.5	
75	30.0 - 60.0 % of mass 95	49.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.8	(0.9) 1
174	50.0 - 120.00 % of mass 95	89.7	
175	5.0 - 9.0 % of mass 174	6.4	(7.1) 1
176	95.0 - 101.0 % of mass 174	86.0	(96.0) 1
177	5.0 - 9.0 % of mass 176	5.8	(6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 580-311491/2	091819_0007. D	09/18/2019	11:32
	IC 580-311491/3	091819_0008. D	09/18/2019	11:57
	IC 580-311491/4	091819_0009. D	09/18/2019	12:21
	IC 580-311491/5	091819_0010. D	09/18/2019	12:47
	IC 580-311491/6	091819_0011. D	09/18/2019	13:11
	ICIS 580-311491/7	091819_0012. D	09/18/2019	13:36
	IC 580-311491/8	091819_0013. D	09/18/2019	14:01
	IC 580-311491/9	091819_0014. D	09/18/2019	14:26
	IC 580-311491/11	091819_0016. D	09/18/2019	16:24
	IC 580-311491/10	091819_0018. D	09/18/2019	17:14
	ICV 580-311491/13	091819_0020. D	09/18/2019	18:03

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab File ID: 092419_0029.D BFB Injection Date: 09/24/2019
 Instrument ID: SEA102 BFB Injection Time: 23:20
 Analysis Batch No.: 312211

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.5	
75	30.0 - 60.0 % of mass 95	49.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.7	(0.7) 1
174	50.0 - 120.00 % of mass 95	98.8	
175	5.0 - 9.0 % of mass 174	7.3	(7.3) 1
176	95.0 - 101.0 % of mass 174	95.5	(96.6) 1
177	5.0 - 9.0 % of mass 176	6.4	(6.7) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 580-312211/2	092419_0030. D	09/24/2019	23:45
	LCS 580-312211/3	092419_0031. D	09/25/2019	00:10
	LCSD 580-312211/4	092419_0032. D	09/25/2019	00:34
	MB 580-312211/6	092419_0034. D	09/25/2019	01:24
Trip Blank	580-89096-7	092419_0036. D	09/25/2019	02:14
EQB-1-W-190911	580-89096-1	092419_0040. D	09/25/2019	03:53
MW-8RR-W-190911	580-89096-2	092419_0041. D	09/25/2019	04:18
MW-1R-W-190911	580-89096-3	092419_0042. D	09/25/2019	04:43
MW-2R-W-190911	580-89096-4	092419_0043. D	09/25/2019	05:08
MW-9-W-190911	580-89096-5	092419_0044. D	09/25/2019	05:32
BD-1-W-190911	580-89096-6	092419_0045. D	09/25/2019	05:57

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Sample No.: ICIS 580-311491/7 Date Analyzed: 09/18/2019 13:36
 Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm)
 Lab File ID (Standard): 091819_0012.D Heated Purge: (Y/N) N
 Calibration ID: 28240

	TBA _d 9		FB		CBN _{Zd} 5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	153910	6.51	265602	9.41	109147	12.37
UPPER LIMIT		6.67		9.58		12.54
LOWER LIMIT		6.34		9.25		12.20
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 580-311491/13		127483	6.49	285908	9.41	118218
						12.37

TBA_d9 = TBA-d9 (IS)

FB = Fluorobenzene (IS)

CBN_{Zd}5 = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.1666 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Sample No.: ICIS 580-311491/7 Date Analyzed: 09/18/2019 13:36
 Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm)
 Lab File ID (Standard): 091819_0012.D Heated Purge: (Y/N) N
 Calibration ID: 28240

	DCBd4		AREA #	RT #	AREA #	RT #
	AREA #	RT #				
INITIAL CALIBRATION MID-POINT	126808	14.66				
UPPER LIMIT		14.83				
LOWER LIMIT		14.50				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 580-311491/13		139426	14.67			

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.1666 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Sample No.: CCVIS 580-312211/2 Date Analyzed: 09/24/2019 23:45
 Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm)
 Lab File ID (Standard): 092419_0030.D Heated Purge: (Y/N) N
 Calibration ID: 28240

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	250570	9.41	103024	12.37	128097	14.66	
UPPER LIMIT		9.58		12.53	256194	14.83	
LOWER LIMIT		9.25		12.20	64049	14.50	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 580-312211/3		254400	9.41	101785	12.37	129677	14.67
LCSD 580-312211/4		264080	9.41	105950	12.37	112501	14.67
MB 580-312211/6		243969	9.41	95841	12.37	119174	14.66
580-89096-7	Trip Blank	245030	9.41	96926	12.37	116632	14.66
580-89096-1	EQB-1-W-190911	244034	9.41	95732	12.37	118284	14.67
580-89096-2	MW-8RR-W-190911	244838	9.41	97041	12.37	120942	14.67
580-89096-3	MW-1R-W-190911	250939	9.41	98592	12.37	119482	14.67
580-89096-4	MW-2R-W-190911	249013	9.41	97811	12.37	122971	14.66
580-89096-5	MW-9-W-190911	252364	9.41	100093	12.37	123029	14.67
580-89096-6	BD-1-W-190911	257477	9.41	104058	12.37	124275	14.67

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.1666 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: EQB-1-W-190911 Lab Sample ID: 580-89096-1
 Matrix: Water Lab File ID: 092419_0040.D
 Analysis Method: 8260C Date Collected: 09/11/2019 12:30
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 03:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		3.0	0.39
75-34-3	1,1-Dichloroethane	ND		2.0	0.22
563-58-6	1,1-Dichloropropene	ND		3.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		5.0	1.1
96-18-4	1,2,3-Trichloropropane	ND		2.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND	*	2.0	0.33
95-63-6	1,2,4-Trimethylbenzene	ND		3.0	0.61
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	1.8
95-50-1	1,2-Dichlorobenzene	ND		2.0	0.46
78-87-5	1,2-Dichloropropane	ND		1.0	0.18
108-67-8	1,3,5-Trimethylbenzene	ND		3.0	0.55
541-73-1	1,3-Dichlorobenzene	ND	*	2.0	0.18
142-28-9	1,3-Dichloropropane	ND		2.0	0.35
594-20-7	2,2-Dichloropropane	ND		3.0	0.32
78-93-3	2-Butanone	ND		20	4.7
95-49-8	2-Chlorotoluene	ND		3.0	0.51
106-43-4	4-Chlorotoluene	ND	*	2.0	0.51
99-87-6	4-Isopropyltoluene	ND		3.0	0.28
108-10-1	4-Methyl-2-pentanone	ND		15	2.5
67-64-1	Acetone	ND		50	7.8
108-86-1	Bromobenzene	ND	*	2.0	0.43
74-97-5	Bromochloromethane	ND		2.0	0.29
75-15-0	Carbon disulfide	ND		3.0	0.53
56-23-5	Carbon tetrachloride	ND		3.0	0.30
108-90-7	Chlorobenzene	ND		2.0	0.44
75-00-3	Chloroethane	ND		5.0	1.1
74-87-3	Chloromethane	ND		20	5.4
156-59-2	cis-1,2-Dichloroethene	ND		3.0	0.69
75-71-8	Dichlorodifluoromethane	ND		10	2.3
100-41-4	Ethylbenzene	ND		3.0	0.50
98-82-8	Isopropylbenzene	ND		2.0	0.51
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.44
75-09-2	Methylene Chloride	ND		5.0	1.4
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
104-51-8	n-Butylbenzene	ND		3.0	0.44
103-65-1	N-Propylbenzene	ND	*	3.0	0.50

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: EQB-1-W-190911 Lab Sample ID: 580-89096-1
 Matrix: Water Lab File ID: 092419_0040.D
 Analysis Method: 8260C Date Collected: 09/11/2019 12:30
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 03:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-47-6	o-Xylene	ND		2.0	0.39
135-98-8	sec-Butylbenzene	ND		3.0	0.49
100-42-5	Styrene	ND		5.0	1.0
98-06-6	t-Butylbenzene	ND		3.0	0.58
108-88-3	Toluene	1.1	J	2.0	0.39
156-60-5	trans-1,2-Dichloroethene	ND		3.0	0.39
75-69-4	Trichlorofluoromethane	ND		3.0	0.63

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-126
460-00-4	4-Bromofluorobenzene (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120
98-08-8	Trifluorotoluene (Surr)	100		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-8RR-W-190911 Lab Sample ID: 580-89096-2
 Matrix: Water Lab File ID: 092419_0041.D
 Analysis Method: 8260C Date Collected: 09/11/2019 13:10
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 04:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		3.0	0.39
75-34-3	1,1-Dichloroethane	ND		2.0	0.22
563-58-6	1,1-Dichloropropene	ND		3.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		5.0	1.1
96-18-4	1,2,3-Trichloropropane	ND		2.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND	*	2.0	0.33
95-63-6	1,2,4-Trimethylbenzene	ND		3.0	0.61
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	1.8
95-50-1	1,2-Dichlorobenzene	ND		2.0	0.46
78-87-5	1,2-Dichloropropane	ND		1.0	0.18
108-67-8	1,3,5-Trimethylbenzene	ND		3.0	0.55
541-73-1	1,3-Dichlorobenzene	ND	*	2.0	0.18
142-28-9	1,3-Dichloropropane	ND		2.0	0.35
594-20-7	2,2-Dichloropropane	ND		3.0	0.32
78-93-3	2-Butanone	ND		20	4.7
95-49-8	2-Chlorotoluene	ND		3.0	0.51
106-43-4	4-Chlorotoluene	ND	*	2.0	0.51
99-87-6	4-Isopropyltoluene	ND		3.0	0.28
108-10-1	4-Methyl-2-pentanone	ND		15	2.5
67-64-1	Acetone	ND		50	7.8
108-86-1	Bromobenzene	ND	*	2.0	0.43
74-97-5	Bromochloromethane	ND		2.0	0.29
75-15-0	Carbon disulfide	ND		3.0	0.53
56-23-5	Carbon tetrachloride	ND		3.0	0.30
108-90-7	Chlorobenzene	ND		2.0	0.44
75-00-3	Chloroethane	ND		5.0	1.1
74-87-3	Chloromethane	ND		20	5.4
156-59-2	cis-1,2-Dichloroethene	ND		3.0	0.69
75-71-8	Dichlorodifluoromethane	ND		10	2.3
100-41-4	Ethylbenzene	ND		3.0	0.50
98-82-8	Isopropylbenzene	ND		2.0	0.51
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.44
75-09-2	Methylene Chloride	ND		5.0	1.4
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
104-51-8	n-Butylbenzene	ND		3.0	0.44
103-65-1	N-Propylbenzene	ND	*	3.0	0.50

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-8RR-W-190911 Lab Sample ID: 580-89096-2
 Matrix: Water Lab File ID: 092419_0041.D
 Analysis Method: 8260C Date Collected: 09/11/2019 13:10
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 04:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-47-6	o-Xylene	ND		2.0	0.39
135-98-8	sec-Butylbenzene	ND		3.0	0.49
100-42-5	Styrene	ND		5.0	1.0
98-06-6	t-Butylbenzene	ND		3.0	0.58
108-88-3	Toluene	ND		2.0	0.39
156-60-5	trans-1,2-Dichloroethene	ND		3.0	0.39
75-69-4	Trichlorofluoromethane	ND		3.0	0.63

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-126
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120
98-08-8	Trifluorotoluene (Surr)	101		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-1R-W-190911 Lab Sample ID: 580-89096-3
 Matrix: Water Lab File ID: 092419_0042.D
 Analysis Method: 8260C Date Collected: 09/11/2019 14:10
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 04:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		3.0	0.39
75-34-3	1,1-Dichloroethane	ND		2.0	0.22
563-58-6	1,1-Dichloropropene	ND		3.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		5.0	1.1
96-18-4	1,2,3-Trichloropropane	ND		2.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND	*	2.0	0.33
95-63-6	1,2,4-Trimethylbenzene	ND		3.0	0.61
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	1.8
95-50-1	1,2-Dichlorobenzene	ND		2.0	0.46
78-87-5	1,2-Dichloropropane	ND		1.0	0.18
108-67-8	1,3,5-Trimethylbenzene	ND		3.0	0.55
541-73-1	1,3-Dichlorobenzene	ND	*	2.0	0.18
142-28-9	1,3-Dichloropropane	ND		2.0	0.35
594-20-7	2,2-Dichloropropane	ND		3.0	0.32
78-93-3	2-Butanone	ND		20	4.7
95-49-8	2-Chlorotoluene	ND		3.0	0.51
106-43-4	4-Chlorotoluene	ND	*	2.0	0.51
99-87-6	4-Isopropyltoluene	ND		3.0	0.28
108-10-1	4-Methyl-2-pentanone	ND		15	2.5
67-64-1	Acetone	ND		50	7.8
108-86-1	Bromobenzene	ND	*	2.0	0.43
74-97-5	Bromochloromethane	ND		2.0	0.29
75-15-0	Carbon disulfide	ND		3.0	0.53
56-23-5	Carbon tetrachloride	ND		3.0	0.30
108-90-7	Chlorobenzene	ND		2.0	0.44
75-00-3	Chloroethane	ND		5.0	1.1
74-87-3	Chloromethane	ND		20	5.4
156-59-2	cis-1,2-Dichloroethene	ND		3.0	0.69
75-71-8	Dichlorodifluoromethane	ND		10	2.3
100-41-4	Ethylbenzene	ND		3.0	0.50
98-82-8	Isopropylbenzene	ND		2.0	0.51
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.44
75-09-2	Methylene Chloride	ND		5.0	1.4
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
104-51-8	n-Butylbenzene	ND		3.0	0.44
103-65-1	N-Propylbenzene	ND	*	3.0	0.50

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-1R-W-190911 Lab Sample ID: 580-89096-3
 Matrix: Water Lab File ID: 092419_0042.D
 Analysis Method: 8260C Date Collected: 09/11/2019 14:10
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 04:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-47-6	o-Xylene	ND		2.0	0.39
135-98-8	sec-Butylbenzene	ND		3.0	0.49
100-42-5	Styrene	ND		5.0	1.0
98-06-6	t-Butylbenzene	ND		3.0	0.58
108-88-3	Toluene	ND		2.0	0.39
156-60-5	trans-1,2-Dichloroethene	ND		3.0	0.39
75-69-4	Trichlorofluoromethane	ND		3.0	0.63

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-126
460-00-4	4-Bromofluorobenzene (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120
98-08-8	Trifluorotoluene (Surr)	100		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-2R-W-190911 Lab Sample ID: 580-89096-4
 Matrix: Water Lab File ID: 092419_0043.D
 Analysis Method: 8260C Date Collected: 09/11/2019 15:00
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 05:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		3.0	0.39
75-34-3	1,1-Dichloroethane	ND		2.0	0.22
563-58-6	1,1-Dichloropropene	ND		3.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		5.0	1.1
96-18-4	1,2,3-Trichloropropane	ND		2.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND	*	2.0	0.33
95-63-6	1,2,4-Trimethylbenzene	ND		3.0	0.61
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	1.8
95-50-1	1,2-Dichlorobenzene	ND		2.0	0.46
78-87-5	1,2-Dichloropropane	ND		1.0	0.18
108-67-8	1,3,5-Trimethylbenzene	ND		3.0	0.55
541-73-1	1,3-Dichlorobenzene	ND	*	2.0	0.18
142-28-9	1,3-Dichloropropane	ND		2.0	0.35
594-20-7	2,2-Dichloropropane	ND		3.0	0.32
78-93-3	2-Butanone	ND		20	4.7
95-49-8	2-Chlorotoluene	ND		3.0	0.51
106-43-4	4-Chlorotoluene	ND	*	2.0	0.51
99-87-6	4-Isopropyltoluene	ND		3.0	0.28
108-10-1	4-Methyl-2-pentanone	ND		15	2.5
67-64-1	Acetone	ND		50	7.8
108-86-1	Bromobenzene	ND	*	2.0	0.43
74-97-5	Bromochloromethane	ND		2.0	0.29
75-15-0	Carbon disulfide	ND		3.0	0.53
56-23-5	Carbon tetrachloride	ND		3.0	0.30
108-90-7	Chlorobenzene	ND		2.0	0.44
75-00-3	Chloroethane	ND		5.0	1.1
74-87-3	Chloromethane	ND		20	5.4
156-59-2	cis-1,2-Dichloroethene	ND		3.0	0.69
75-71-8	Dichlorodifluoromethane	ND		10	2.3
100-41-4	Ethylbenzene	16		3.0	0.50
98-82-8	Isopropylbenzene	10		2.0	0.51
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.44
75-09-2	Methylene Chloride	ND		5.0	1.4
179601-23-1	m-Xylene & p-Xylene	2.0	J	3.0	0.75
104-51-8	n-Butylbenzene	1.2	J	3.0	0.44
103-65-1	N-Propylbenzene	15	*	3.0	0.50

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-2R-W-190911 Lab Sample ID: 580-89096-4
 Matrix: Water Lab File ID: 092419_0043.D
 Analysis Method: 8260C Date Collected: 09/11/2019 15:00
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 05:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-47-6	o-Xylene	ND		2.0	0.39
135-98-8	sec-Butylbenzene	4.6		3.0	0.49
100-42-5	Styrene	ND		5.0	1.0
98-06-6	t-Butylbenzene	7.9		3.0	0.58
108-88-3	Toluene	ND		2.0	0.39
156-60-5	trans-1,2-Dichloroethene	ND		3.0	0.39
75-69-4	Trichlorofluoromethane	ND		3.0	0.63

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-126
460-00-4	4-Bromofluorobenzene (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120
98-08-8	Trifluorotoluene (Surr)	102		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-9-W-190911 Lab Sample ID: 580-89096-5
 Matrix: Water Lab File ID: 092419_0044.D
 Analysis Method: 8260C Date Collected: 09/11/2019 16:10
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 05:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		3.0	0.39
75-34-3	1,1-Dichloroethane	ND		2.0	0.22
563-58-6	1,1-Dichloropropene	ND		3.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		5.0	1.1
96-18-4	1,2,3-Trichloropropane	ND		2.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND	*	2.0	0.33
95-63-6	1,2,4-Trimethylbenzene	ND		3.0	0.61
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	1.8
95-50-1	1,2-Dichlorobenzene	ND		2.0	0.46
78-87-5	1,2-Dichloropropane	ND		1.0	0.18
108-67-8	1,3,5-Trimethylbenzene	ND		3.0	0.55
541-73-1	1,3-Dichlorobenzene	ND	*	2.0	0.18
142-28-9	1,3-Dichloropropane	ND		2.0	0.35
594-20-7	2,2-Dichloropropane	ND		3.0	0.32
78-93-3	2-Butanone	ND		20	4.7
95-49-8	2-Chlorotoluene	ND		3.0	0.51
106-43-4	4-Chlorotoluene	ND	*	2.0	0.51
99-87-6	4-Isopropyltoluene	ND		3.0	0.28
108-10-1	4-Methyl-2-pentanone	ND		15	2.5
67-64-1	Acetone	ND		50	7.8
108-86-1	Bromobenzene	ND	*	2.0	0.43
74-97-5	Bromochloromethane	ND		2.0	0.29
75-15-0	Carbon disulfide	ND		3.0	0.53
56-23-5	Carbon tetrachloride	ND		3.0	0.30
108-90-7	Chlorobenzene	ND		2.0	0.44
75-00-3	Chloroethane	ND		5.0	1.1
74-87-3	Chloromethane	ND		20	5.4
156-59-2	cis-1,2-Dichloroethene	58		3.0	0.69
75-71-8	Dichlorodifluoromethane	ND		10	2.3
100-41-4	Ethylbenzene	ND		3.0	0.50
98-82-8	Isopropylbenzene	ND		2.0	0.51
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.44
75-09-2	Methylene Chloride	ND		5.0	1.4
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
104-51-8	n-Butylbenzene	ND		3.0	0.44
103-65-1	N-Propylbenzene	ND	*	3.0	0.50

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-9-W-190911 Lab Sample ID: 580-89096-5
 Matrix: Water Lab File ID: 092419_0044.D
 Analysis Method: 8260C Date Collected: 09/11/2019 16:10
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 05:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-47-6	o-Xylene	ND		2.0	0.39
135-98-8	sec-Butylbenzene	ND		3.0	0.49
100-42-5	Styrene	ND		5.0	1.0
98-06-6	t-Butylbenzene	ND		3.0	0.58
108-88-3	Toluene	ND		2.0	0.39
156-60-5	trans-1,2-Dichloroethene	ND		3.0	0.39
75-69-4	Trichlorofluoromethane	ND		3.0	0.63

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-126
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120
98-08-8	Trifluorotoluene (Surr)	102		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: BD-1-W-190911 Lab Sample ID: 580-89096-6
 Matrix: Water Lab File ID: 092419_0045.D
 Analysis Method: 8260C Date Collected: 09/11/2019 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 05:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		3.0	0.39
75-34-3	1,1-Dichloroethane	ND		2.0	0.22
563-58-6	1,1-Dichloropropene	ND		3.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		5.0	1.1
96-18-4	1,2,3-Trichloropropane	ND		2.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND	*	2.0	0.33
95-63-6	1,2,4-Trimethylbenzene	ND		3.0	0.61
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	1.8
95-50-1	1,2-Dichlorobenzene	ND		2.0	0.46
78-87-5	1,2-Dichloropropane	ND		1.0	0.18
108-67-8	1,3,5-Trimethylbenzene	ND		3.0	0.55
541-73-1	1,3-Dichlorobenzene	ND	*	2.0	0.18
142-28-9	1,3-Dichloropropane	ND		2.0	0.35
594-20-7	2,2-Dichloropropane	ND		3.0	0.32
78-93-3	2-Butanone	ND		20	4.7
95-49-8	2-Chlorotoluene	ND		3.0	0.51
106-43-4	4-Chlorotoluene	ND	*	2.0	0.51
99-87-6	4-Isopropyltoluene	ND		3.0	0.28
108-10-1	4-Methyl-2-pentanone	ND		15	2.5
67-64-1	Acetone	ND		50	7.8
108-86-1	Bromobenzene	ND	*	2.0	0.43
74-97-5	Bromochloromethane	ND		2.0	0.29
75-15-0	Carbon disulfide	ND		3.0	0.53
56-23-5	Carbon tetrachloride	ND		3.0	0.30
108-90-7	Chlorobenzene	ND		2.0	0.44
75-00-3	Chloroethane	ND		5.0	1.1
74-87-3	Chloromethane	ND		20	5.4
156-59-2	cis-1,2-Dichloroethene	ND		3.0	0.69
75-71-8	Dichlorodifluoromethane	ND		10	2.3
100-41-4	Ethylbenzene	ND		3.0	0.50
98-82-8	Isopropylbenzene	ND		2.0	0.51
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.44
75-09-2	Methylene Chloride	ND		5.0	1.4
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
104-51-8	n-Butylbenzene	ND		3.0	0.44
103-65-1	N-Propylbenzene	ND	*	3.0	0.50

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: BD-1-W-190911 Lab Sample ID: 580-89096-6
 Matrix: Water Lab File ID: 092419_0045.D
 Analysis Method: 8260C Date Collected: 09/11/2019 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 05:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-47-6	o-Xylene	ND		2.0	0.39
135-98-8	sec-Butylbenzene	ND		3.0	0.49
100-42-5	Styrene	ND		5.0	1.0
98-06-6	t-Butylbenzene	ND		3.0	0.58
108-88-3	Toluene	ND		2.0	0.39
156-60-5	trans-1,2-Dichloroethene	ND		3.0	0.39
75-69-4	Trichlorofluoromethane	ND		3.0	0.63

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-126
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120
98-08-8	Trifluorotoluene (Surr)	104		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: Trip Blank Lab Sample ID: 580-89096-7
 Matrix: Water Lab File ID: 092419_0036.D
 Analysis Method: 8260C Date Collected: 09/11/2019 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 02:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		3.0	0.39
75-34-3	1,1-Dichloroethane	ND		2.0	0.22
563-58-6	1,1-Dichloropropene	ND		3.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		5.0	1.1
96-18-4	1,2,3-Trichloropropane	ND		2.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND	*	2.0	0.33
95-63-6	1,2,4-Trimethylbenzene	ND		3.0	0.61
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	1.8
95-50-1	1,2-Dichlorobenzene	ND		2.0	0.46
78-87-5	1,2-Dichloropropane	ND		1.0	0.18
108-67-8	1,3,5-Trimethylbenzene	ND		3.0	0.55
541-73-1	1,3-Dichlorobenzene	ND	*	2.0	0.18
142-28-9	1,3-Dichloropropane	ND		2.0	0.35
594-20-7	2,2-Dichloropropane	ND		3.0	0.32
78-93-3	2-Butanone	ND		20	4.7
95-49-8	2-Chlorotoluene	ND		3.0	0.51
106-43-4	4-Chlorotoluene	ND	*	2.0	0.51
99-87-6	4-Isopropyltoluene	ND		3.0	0.28
108-10-1	4-Methyl-2-pentanone	ND		15	2.5
67-64-1	Acetone	ND		50	7.8
108-86-1	Bromobenzene	ND	*	2.0	0.43
74-97-5	Bromochloromethane	ND		2.0	0.29
75-15-0	Carbon disulfide	ND		3.0	0.53
56-23-5	Carbon tetrachloride	ND		3.0	0.30
108-90-7	Chlorobenzene	ND		2.0	0.44
75-00-3	Chloroethane	ND		5.0	1.1
74-87-3	Chloromethane	ND		20	5.4
156-59-2	cis-1,2-Dichloroethene	ND		3.0	0.69
75-71-8	Dichlorodifluoromethane	ND		10	2.3
100-41-4	Ethylbenzene	ND		3.0	0.50
98-82-8	Isopropylbenzene	ND		2.0	0.51
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.44
75-09-2	Methylene Chloride	ND		5.0	1.4
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
104-51-8	n-Butylbenzene	ND		3.0	0.44
103-65-1	N-Propylbenzene	ND	*	3.0	0.50

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: Trip Blank Lab Sample ID: 580-89096-7
 Matrix: Water Lab File ID: 092419_0036.D
 Analysis Method: 8260C Date Collected: 09/11/2019 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 02:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-47-6	o-Xylene	ND		2.0	0.39
135-98-8	sec-Butylbenzene	ND		3.0	0.49
100-42-5	Styrene	ND		5.0	1.0
98-06-6	t-Butylbenzene	ND		3.0	0.58
108-88-3	Toluene	ND		2.0	0.39
156-60-5	trans-1,2-Dichloroethene	ND		3.0	0.39
75-69-4	Trichlorofluoromethane	ND		3.0	0.63

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-126
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120
98-08-8	Trifluorotoluene (Surr)	102		80-120

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311491

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 11:32 Calibration End Date: 09/18/2019 17:14 Calibration ID: 28240

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-311491/2	091819_0007.D
Level 2	IC 580-311491/3	091819_0008.D
Level 3	IC 580-311491/4	091819_0009.D
Level 4	IC 580-311491/5	091819_0010.D
Level 5	IC 580-311491/6	091819_0011.D
Level 6	ICIS 580-311491/7	091819_0012.D
Level 7	IC 580-311491/8	091819_0013.D
Level 8	IC 580-311491/9	091819_0014.D
Level 9	IC 580-311491/10	091819_0018.D
Level 10	IC 580-311491/11	091819_0016.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Dichlorodifluoromethane	++++ 0.6480	0.5161 0.7330	0.5050 0.7654	0.7207 0.7839	0.6421 0.7530	Qua2	-0.196	0.6822	0.0007275		0.1000	7.9		0.9940		0.9900	
Chloromethane	0.3360 0.2949	0.3580 0.3028	0.3195 0.3304	0.3374 0.3031	0.3117 0.2953	Ave		0.3189			0.1000	6.6	20.0				
Vinyl chloride	++++ 0.8086	0.8683 0.8630	0.7305 0.8742	0.9292 0.8529	0.8181 0.8583	Ave		0.8448			0.1000	6.5	20.0				
Butadiene	++++ 0.2753	0.2730 0.3148	0.2557 0.3180	0.3072 0.3319	0.2794 0.3133	Ave		0.2965				8.8	20.0				
Bromomethane	0.7752 0.6489	0.8351 0.6459	0.7586 0.6968	0.7264 0.6654	0.6901 0.6499	Lin2	0.0737	0.6805			0.1000	6.6		0.9950		0.9900	
Chloroethane	0.2962 0.1818	0.2074 0.1925	0.1974 0.2063	0.2137 0.2030	0.1846 0.1985	Lin2	0.0442	0.1909			0.0600	8.6		0.9920		0.9900	
Dichlorofluoromethane	++++ 0.4672	0.5626 0.5022	0.5055 0.5372	0.5596 0.5299	0.4861 0.5185	Ave		0.5188				6.2	20.0				
Acrolein	++++ 0.0438	0.0729 0.0449	0.0504 0.0499	0.0508 0.0488	0.0463 0.0447	Lin2	0.1455	0.0452				8.4		0.9920		0.9900	
Acetonitrile	++++ 0.0302	0.0349 0.0293	0.0351 0.0332	0.0343 0.0310	0.0325 0.0283	Lin2	0.0642	0.0310				6.3		0.9960		0.9900	
Trichlorofluoromethane	++++ 1.0123	++++ 1.1683	0.8291 1.2541	1.1136 1.3004	1.0296 1.2648	Lin2	-0.777	1.2090			0.1000	8.0		0.9930		0.9900	
Isopropyl alcohol	++++ 0.0150	++++ 0.0136	0.0196 0.0168	0.0192 0.0157	0.0170 ++++	Lin2	0.0955	0.0155				9.3		0.9900		0.9900	
Acetone	++++ 0.0679	0.1726 0.0644	0.1099 0.0715	0.0972 0.0724	0.0760 0.0607	Lin2	0.5212	0.0661			0.0200	9.7		0.9900		0.9900	
Ethyl ether	0.2480 0.1858	0.2119 0.1887	0.2066 0.1623	0.2111 0.1951	0.1930 0.1889	Lin1	0.0360	0.1851				6.6		0.9960		0.9900	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

Analy Batch No.: 311491

SDG No.: _____

Instrument ID: SEA102

GC Column: DB-VRX

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 11:32

Calibration End Date: 09/18/2019 17:14

Calibration ID: 28240

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
1,1-Dichloroethene	++++ 0.5051	0.4904 0.5601	0.4131 0.4821	0.5652 0.5174	0.5123 0.6020	Ave		0.5164		0.1000	10.7		20.0				
t-Butyl alcohol	++++ 0.0249	++++ 0.0228	0.0235 0.0218	0.0268 0.0217	0.0253 0.0239	Qua1	0.1444	0.0217	0.0000010		13.9			0.9970		0.9900	
Acrylonitrile	++++ 0.0684	0.0642 0.0667	0.0602 0.0604	0.0740 0.0603	0.0631 0.0670	Lin2	-0.015	0.0652			7.5			0.9940		0.9900	
Iodomethane	++++ 0.4768	0.4404 0.5108	0.4342 0.4745	0.5184 0.4996	0.4393 0.5522	Ave		0.4829			8.4		20.0				
Methylene Chloride	++++ 0.3073	0.3952 0.2638	0.3262 0.2659	0.3410 0.2705	0.2748 0.2681	Lin2	0.1219	0.2757		0.1000	7.6			0.9940		0.9900	
Methyl acetate	++++ 0.1610	0.1582 0.1274	0.1382 0.1452	0.1582 0.1435	0.1377 0.1401	Ave		0.1455		0.1000	7.8		20.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 0.4056	0.2889 0.4036	0.2818 0.4037	0.3881 0.4355	0.3634 0.4126	Lin2	-0.144	0.4062		0.1000	6.8			0.9950		0.9900	
3-Chloro-1-propene	0.3719 0.3444	0.3168 0.3048	0.2967 0.2962	0.3036 0.3135	0.2949 0.3164	Ave		0.3159			7.8		20.0				
Carbon disulfide	++++ 0.7125	0.6610 0.6735	0.5743 0.6847	0.6758 0.7314	0.6151 0.7144	Lin2	-0.067	0.6856		0.1000	7.0			0.9950		0.9900	
trans-1,2-Dichloroethene	0.2676 0.2207	0.2792 0.2365	0.2269 0.2338	0.2320 0.2492	0.2194 0.2490	Ave		0.2414		0.1000	8.2		20.0				
Methyl tert-butyl ether	++++ 0.5980	0.7144 0.5788	0.6258 0.6268	0.6318 0.6235	0.6338 0.5889	Ave		0.6246		0.1000	6.3		20.0				
Propionitrile	++++ 0.0267	0.0385 0.0253	0.0273 0.0278	0.0300 0.0278	0.0287 0.0258	Lin2	0.1279	0.0265			7.9			0.9930		0.9900	
1,1-Dichloroethane	1.0024 0.8826	0.9589 0.8997	0.8943 0.8915	0.9473 0.9009	0.9049 0.9366	Ave		0.9219		0.2000	4.1		20.0				
Vinyl acetate	++++ 0.0478	0.0496 0.0496	0.0445 0.0524	0.0504 0.0529	0.0485 0.0522	Ave		0.0498			5.3		20.0				
2-Chloro-1,3-butadiene	++++ 0.5623	0.4885 0.6087	0.5187 0.5989	0.5789 0.6112	0.5365 0.6115	Ave		0.5683			7.9		20.0				
Hexane	++++ 0.2778	++++ 0.3119	0.2338 0.3227	0.2833 0.3616	0.2704 0.3382	Lin2	-0.194	0.3217			8.4			0.9920		0.9900	
2-Butanone	++++ 0.0609	0.0862 0.0564	0.0615 0.0635	0.0700 0.0643	0.0616 0.0616	Ave		0.0651		0.0200	13.3		20.0				
Diisopropyl ether	++++ 0.6450	0.7142 0.6643	0.6748 0.6716	0.6523 0.6843	0.6601 0.6853	Ave		0.6724			3.1		20.0				
Methacrylonitrile	++++ 0.0294	0.0351 0.0300	0.0276 0.0316	0.0319 0.0336	0.0305 0.0314	Qua2	0.0422	0.0293	0.0000023		7.0			0.9950		0.9900	
cis-1,2-Dichloroethene	++++ 0.6318	0.7534 0.6452	0.6574 0.6357	0.7197 0.6354	0.6460 0.6514	Ave		0.6640		0.1000	6.4		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311491

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 11:32 Calibration End Date: 09/18/2019 17:14 Calibration ID: 28240

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Ethyl acetate	++++ 0.1703	0.2101 0.1634	0.1716 0.1844	0.1907 0.1829	0.1782 0.1710	Lin2	0.0588	0.1741			6.1			0.9960		0.9900	
Bromochloromethane	0.1667 0.1460	0.1674 0.1523	0.1516 0.1547	0.1513 0.1575	0.1495 0.1564	Ave		0.1553			4.5		20.0				
Chloroform	++++ 1.0142	1.1388 1.0348	1.0613 1.0257	1.0704 1.0380	1.0477 1.0712	Ave		1.0558		0.2000	3.5		20.0				
Ethyl t-butyl ether	++++ 0.6354	0.7009 0.6384	0.6580 0.6605	0.6380 0.6696	0.6371 0.6515	Ave		0.6544			3.3		20.0				
Isobutanol	++++ 0.0136	++++ 0.0130	0.0136 0.0144	0.0158 0.0146	0.0149 0.0137	Ave		0.0142			6.5		20.0				
2,2-Dichloropropane	++++ 0.2663	0.2764 0.2826	0.2526 0.2783	0.2710 0.3099	0.2658 0.2807	Ave		0.2760			5.7		20.0				
Tetrahydrofuran	++++ 0.0529	0.0860 0.0509	0.0579 0.0560	0.0618 0.0560	0.0548 0.0523	Lin2	0.0587	0.0525			8.5			0.9920		0.9900	
1,2-Dichloroethane	0.4510 0.2883	0.3563 0.2883	0.3126 0.3009	0.3073 0.3031	0.2955 0.3003	Lin2	0.0755	0.2909		0.1000	3.4			0.9990		0.9900	
1,1,1-Trichloroethane	++++ 0.3362	0.3131 0.3762	0.2923 0.3810	0.3477 0.4130	0.3304 0.4132	Lin2	-0.087	0.3742		0.1000	8.9			0.9910		0.9900	
n-Butyl alcohol	++++ 0.0057	++++ 0.0055	0.0068 0.0065	0.0070 0.0065	0.0063 0.0059	Lin2	0.0457	0.0061			7.6			0.9940		0.9900	
1,1-Dichloropropene	++++ 0.2666	0.2267 0.3051	0.2211 0.3046	0.2704 0.3335	0.2644 0.3339	Lin2	-0.096	0.3009			9.3			0.9900		0.9900	
Cyclohexane	++++ 0.7159	++++ 0.8236	0.5236 0.8108	0.7258 0.8876	0.7218 0.9177	Lin2	-0.654	0.8394		0.1000	7.2			0.9940		0.9900	
Carbon tetrachloride	++++ 0.2678	++++ 0.3099	0.2125 0.3226	0.2680 0.3739	0.2605 0.3667	Qua2	-0.118	0.2733	0.0007325	0.1000	4.8			0.9970		0.9900	
Benzene	++++ 2.0856	2.2816 2.1567	2.1393 2.1561	2.1808 2.1852	2.1417 2.2811	Ave		2.1787		0.5000	3.0		20.0				
Tert-amyl methyl ether	++++ 0.6528	0.7601 0.6583	0.6587 0.6732	0.6526 0.6804	0.6617 0.6827	Lin2	0.0951	0.6596			3.5			0.9990		0.9900	
Ethyl acrylate	++++ 0.2556	0.3315 0.2706	0.2605 0.3053	0.2711 0.3117	0.2512 0.2903	Ave		0.2831			9.9		20.0				
n-Heptane	++++ 0.2496	0.2262 0.2906	0.2110 0.2957	0.2549 0.3213	0.2504 0.3004	Ave		0.2667			13.9		20.0				
Dibromomethane	++++ 0.1562	0.1822 0.1593	0.1582 0.1671	0.1649 0.1700	0.1596 0.1689	Lin2	0.0138	0.1622			4.4			0.9980		0.9900	
1,2-Dichloropropane	++++ 0.5111	0.5794 0.5311	0.5313 0.5395	0.5473 0.5301	0.5179 0.5554	Ave		0.5381		0.1000	3.8		20.0				
2-Nitropropane	++++ 0.0524	++++ 0.0547	0.0534 0.0638	0.0492 0.0703	0.0513 0.0695	Qua2	0.0128	0.0491	0.0000804		4.5			0.9970		0.9900	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311491

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 11:32 Calibration End Date: 09/18/2019 17:14 Calibration ID: 28240

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Trichloroethene	++++ 0.6325	0.6174 0.6755	0.6021 0.6872	0.6576 0.7260	0.6417 0.7475	Ave		0.6653		0.2000	7.3		20.0				
Bromodichloromethane	++++ 0.7514	0.9132 0.7845	0.7469 0.7878	0.7759 0.7987	0.7664 0.8268	Lin2	0.0953	0.7745		0.2000	5.4			0.9970		0.9900	
Methyl methacrylate	++++ 0.1568	0.1891 0.1646	0.1426 0.1814	0.1649 0.1829	0.1628 0.1756	Ave		0.1690			8.7		20.0				
2-Chloroethyl vinyl ether	++++ 0.1853	0.2623 0.1937	0.2041 0.2072	0.2100 0.2050	0.1951 0.2027	Lin2	0.0569	0.1953			6.0			0.9960		0.9900	
Methylcyclohexane	++++ 0.8725	0.7459 0.9767	0.6946 0.9625	0.8710 1.0600	0.8578 1.0590	Qua2	-0.158	0.8622	0.0015479	0.1000	5.6			0.9970		0.9900	
cis-1,3-Dichloropropene	++++ 0.7502	0.8793 0.7614	0.7808 0.7679	0.7849 0.7365	0.7592 0.7122	Lin2	0.1266	0.7435		0.2000	2.7			0.9990		0.9900	
4-Methyl-2-pentanone	++++ 0.4376	0.7439 0.4373	0.4701 0.4696	0.4802 0.4610	0.4718 0.4419	Qua2	1.4383	0.4152	0.0000630	0.0600	10.4			0.9900		0.9900	
trans-1,3-Dichloropropene	++++ 0.8208	1.0601 0.8445	0.8215 0.8856	0.8438 0.8948	0.8343 0.8877	Lin2	0.1566	0.8439		0.1000	6.7			0.9950		0.9900	
1,1,2-Trichloroethane	1.1422 0.5074	0.7534 0.5115	0.5577 0.5282	0.5529 0.5290	0.5314 0.5234	Lin2	0.3010	0.4963		0.1000	8.5			0.9920		0.9900	
Ethyl methacrylate	++++ 0.6039	0.8034 0.6366	0.5681 0.6957	0.6091 0.7027	0.6284 0.7001	Ave		0.6609			10.8		20.0				
Toluene	++++ 1.3914	1.5687 1.4879	1.3861 1.5140	1.4977 1.5594	1.4064 1.5954	Ave		1.4897		0.4000	5.3		20.0				
1,3-Dichloropropane	++++ 0.8466	1.1697 0.8284	0.8811 0.8793	0.9062 0.8645	0.8744 0.8545	Lin2	0.2803	0.8414			5.4			0.9970		0.9900	
2-Hexanone	++++ 0.1609	++++ 0.1573	0.1683 0.1756	0.1783 0.1765	0.1793 0.1640	Lin2	0.0271	0.1694		0.0600	5.4			0.9970		0.9900	
Dibromochloromethane	++++ 0.6494	++++ 0.6803	0.6289 0.7194	0.6418 0.7342	0.6391 0.7432	Ave		0.6795		0.1000	6.9		20.0				
n-Butyl acetate	++++ 0.6812	++++ 0.6867	0.7046 0.7499	0.7890 0.7443	0.7214 0.7090	Ave		0.7233			5.0		20.0				
1,2-Dibromoethane	++++ 0.5529	0.7319 0.5602	0.5548 0.5881	0.5836 0.5846	0.5664 0.5760	Ave		0.5887		0.1000	9.4		20.0				
Tetrachloroethene	++++ 0.2002	0.1767 0.2334	0.1670 0.2416	0.2114 0.2704	0.1940 0.2655	Qua2	-0.031	0.2000	0.0005307	0.2000	6.3			0.9960		0.9900	
1,1,1,2-Tetrachloroethane	++++ 0.6630	++++ 0.6954	0.6609 0.7071	0.6801 0.7317	0.6611 0.7527	Ave		0.6940			5.0		20.0				
Chlorobenzene	++++ 1.7311	2.3262 1.8052	1.7875 1.8351	1.8167 1.8737	1.7559 1.9146	Lin2	0.4225	1.7826		0.5000	6.6			0.9950		0.9900	
Ethylbenzene	++++ 0.8522	0.9630 0.9390	0.8105 0.9574	0.8657 0.9939	0.8562 1.0188	Lin2	-0.028	0.9233		0.1000	8.4			0.9920		0.9900	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

Analy Batch No.: 311491

SDG No.: _____

Instrument ID: SEA102

GC Column: DB-VRX

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 11:32

Calibration End Date: 09/18/2019 17:14

Calibration ID: 28240

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
m-Xylene & p-Xylene	++++ 2.0690	2.4825 2.2435	1.9796 2.2517	2.0926 2.3472	2.0657 2.4015	Lin2	0.1187	2.1897		0.1000	8.2			0.9920		0.9900	
Bromoform	++++ 0.4103	++++ 0.4487	0.3885 0.4890	0.3880 0.5277	0.4039 0.5360	Ave		0.4490		0.1000	13.6		20.0				
Styrene	++++ 1.6318	2.0788 1.7860	1.4933 1.8287	1.5423 1.8880	1.5925 1.9415	Qua2	0.4597	1.4923	0.0035806	0.3000	8.1			0.9950		0.9900	
o-Xylene	++++ 1.1049	1.3705 1.1816	1.0673 1.2024	1.1368 1.2529	1.1009 1.3003	Qua2	0.2645	1.0508	0.0018354	0.3000	5.3			0.9980		0.9900	
1,1,2,2-Tetrachloroethane	++++ 0.6257	++++ 0.5887	0.7088 0.6241	0.6781 0.6027	0.6616 0.5821	Lin2	0.2321	0.6079		0.3000	3.9			0.9980		0.9900	
trans-1,4-Dichloro-2-butene	++++ 0.1393	0.2589 0.1371	0.3885 0.1431	0.3880 0.1426	0.4039 0.1374	Lin1	0.0925	0.1386			9.9			0.9990		0.9900	
1,2,3-Trichloropropane	++++ 0.1911	++++ 0.1808	0.2124 0.1889	0.2042 0.1819	0.2107 0.1717	Ave		0.1927			7.8		20.0				
Isopropylbenzene	++++ 2.7262	2.9864 2.9953	2.3649 3.0110	2.6992 3.1794	2.6796 3.2623	Ave		2.8783		0.1000	9.8		20.0				
Bromobenzene	++++ 0.7238	1.1131 0.7295	0.7678 0.7477	0.7373 0.7479	0.7210 0.7407	Lin2	0.3391	0.7094			7.9			0.9930		0.9900	
N-Propylbenzene	++++ 0.6768	0.7932 0.7192	0.6078 0.7239	0.6471 0.7466	0.6515 0.7392	Lin2	0.0341	0.6934			8.9			0.9910		0.9900	
2-Chlorotoluene	++++ 0.6444	0.8527 0.6562	0.6579 0.6685	0.6378 0.6828	0.6440 0.6676	Lin2	0.1650	0.6443			6.1			0.9960		0.9900	
4-Chlorotoluene	++++ 1.7663	2.6334 1.7951	1.8088 1.8093	1.8018 1.7972	1.7563 1.7763	Lin2	0.7480	1.7248			8.0			0.9930		0.9900	
1,3,5-Trimethylbenzene	++++ 2.0956	2.6260 2.1759	1.9155 2.1774	2.0932 2.2026	2.0432 2.1898	Lin2	0.3325	2.0986			8.1			0.9930		0.9900	
t-Butylbenzene	++++ 1.8183	2.1418 1.8990	1.6205 1.9141	1.8121 1.9487	1.7255 1.9370	Lin2	0.1370	1.8396			8.2			0.9920		0.9900	
1,2,4-Trimethylbenzene	++++ 2.1542	2.9693 2.2135	2.0986 2.2254	2.1810 2.2406	2.1313 2.2254	Lin2	0.6339	2.1372			8.0			0.9930		0.9900	
sec-Butylbenzene	++++ 2.6325	3.0511 2.7595	2.3398 2.7459	2.6539 2.7952	2.5471 2.7503	Lin2	0.1678	2.6618			7.4			0.9940		0.9900	
Benzyl chloride	++++ 1.2418	++++ 1.2074	1.2990 1.3147	1.3015 1.4294	1.2847 1.1854	Lin2	0.0473	1.2777			6.4			0.9950		0.9900	
1,3-Dichlorobenzene	++++ 0.6952	++++ 0.7230	0.7045 0.7940	0.6883 0.8306	0.6766 0.8376	Ave		0.7437		0.6000	8.9		20.0				
4-Isopropyltoluene	++++ 2.4081	++++ 2.5714	2.1900 2.6156	2.4083 2.7214	2.3261 2.7349	Lin2	-0.920	2.6005			4.8			0.9970		0.9900	
1,4-Dichlorobenzene	++++ 1.4735	++++ 1.5104	1.5806 1.5870	1.5083 1.6153	1.4377 1.6124	Ave		1.5407		0.5000	4.4		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311491

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 11:32 Calibration End Date: 09/18/2019 17:14 Calibration ID: 28240

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
1,2,3-Trimethylbenzene	++++ 2.2859	3.4169 2.3010	2.3273 2.3304	2.4368 2.2993	2.2758 2.2769	Lin2	0.9878	2.2304			7.9			0.9930		0.9900	
1,2-Dichlorobenzene	++++ 1.4131	++++ 1.4058	1.5063 1.4609	1.5032 1.4445	1.4248 1.4146	Lin2	0.1802	1.4264		0.4000	2.0			1.0000		0.9900	
n-Butylbenzene	++++ 2.0634	2.5474 2.1362	1.8858 2.1358	2.1490 2.1926	2.0061 2.1393	Lin2	0.2951	2.0772			7.7			0.9930		0.9900	
1,2-Dibromo-3-Chloropropane	++++ 0.1335	++++ 0.1302	0.1434 0.1511	0.1474 0.1478	0.1420 0.1352	Lin2	0.0092	0.1403		0.0500	5.7			0.9960		0.9900	
1,3,5-Trichlorobenzene	++++ 1.0344	1.6517 1.0411	1.1222 1.0999	1.0776 1.1240	1.0180 1.0919	Lin2	0.5206	1.0302			9.1			0.9910		0.9900	
1,2,4-Trichlorobenzene	++++ 1.0209	++++ 1.0657	1.1539 1.1716	1.1140 1.2337	1.0615 1.2382	Ave		1.1325		0.2000	7.1	20.0					
Naphthalene	++++ 1.7000	++++ 1.6318	1.9451 1.8720	1.9372 1.8247	1.8465 1.6951	Lin2	0.4499	1.7559			5.5			0.9970		0.9900	
Hexachlorobutadiene	++++ 0.1915	++++ 0.1988	0.1767 0.2107	0.1979 0.2154	0.1884 0.2075	Lin2	-0.059	0.2050			4.2			0.9980		0.9900	
1,2,3-Trichlorobenzene	++++ 0.7480	++++ 0.7326	0.8644 0.8137	0.8374 0.8146	0.7768 0.7697	Lin2	0.1900	0.7733			4.5			0.9980		0.9900	
Dibromofluoromethane (Surr)	0.2779 0.2821	0.2761 0.2820	0.2853 0.2751	0.2776 0.2820	0.2804 0.2794	Ave		0.2798			1.1	20.0					
1,2-Dichloroethane-d4 (Surr)	0.2932 0.2733	0.2835 0.2727	0.2794 0.2728	0.2833 0.2753	0.2784 0.2781	Ave		0.2790			2.3	20.0					
Trifluorotoluene (Surr)	0.5282 0.5258	0.5150 0.5382	0.5227 0.5452	0.5220 0.5631	0.5227 0.5522	Ave		0.5335			2.9	20.0					
Toluene-d8 (Surr)	2.3192 2.2880	2.2989 2.2809	2.3001 2.2626	2.3312 2.2340	2.3074 2.2796	Ave		2.2902			1.2	20.0					
4-Bromofluorobenzene (Surr)	0.9202 0.9184	0.9182 0.9263	0.9125 0.9037	0.9147 0.9118	0.9456	Ave		0.9202		0.9309	1.3	20.0					

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311491

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 11:32 Calibration End Date: 09/18/2019 17:14 Calibration ID: 28240

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-311491/2	091819_0007.D
Level 2	IC 580-311491/3	091819_0008.D
Level 3	IC 580-311491/4	091819_0009.D
Level 4	IC 580-311491/5	091819_0010.D
Level 5	IC 580-311491/6	091819_0011.D
Level 6	ICIS 580-311491/7	091819_0012.D
Level 7	IC 580-311491/8	091819_0013.D
Level 8	IC 580-311491/9	091819_0014.D
Level 9	IC 580-311491/10	091819_0018.D
Level 10	IC 580-311491/11	091819_0016.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dichlorodifluoromethane	CBNZ d5	Qua2	++++ 72545	2755 219146	5365 339086	18176 512317	33630 751500	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Chloromethane	FB	Ave	2169 80333	4738 215917	8384 344183	20958 455509	40406 694515	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Vinyl chloride	CBNZ d5	Ave	++++ 90518	4635 258017	7761 387292	23435 557396	42849 856627	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Butadiene	FB	Ave	++++ 75002	3613 224458	6710 331257	19083 498810	36227 736876	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Bromomethane	CBNZ d5	Lin2	2051 72646	4458 193089	8060 308697	18319 434856	36145 648567	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Chloroethane	FB	Lin2	1912 49532	2745 137251	5180 214899	13273 305110	23938 466789	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Dichlorofluoromethane	FB	Ave	++++ 127272	7445 358137	13263 559706	34758 796376	63026 1219561	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Acrolein	FB	Lin2	++++ 71641	5787 191933	7931 312037	18937 440097	36000 631435	++++ 120	6.00 300	12.0 450	30.0 600	60.0 900
Acetonitrile	FB	Lin2	++++ 102673	5770 261082	11523 432025	26626 581836	52735 832665	++++ 250	12.5 625	25.0 938	62.5 1250	125 1875
Trichlorofluoromethane	CBNZ d5	Lin2	++++ 113323	++++ 349279	8809 555606	28085 849850	53921 1262288	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
Isopropyl alcohol	FB	Lin2	++++ 40985	++++ 97180	5133 174631	11900 235659	22060 ++++	++++ 200	++++ 500	20.0 750	50.0 1000	100 ++++
Acetone	FB	Lin2	++++ 92440	11421 229694	14414 372384	30197 543981	49285 713476	++++ 100	5.00 250	10.0 375	25.0 500	50.0 750
Ethyl ether	FB	Lin1	1601 50624	2804 134587	5420 169079	13110 293174	25016 444208	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,1-Dichloroethene	CBNZ d5	Ave	++++ 56544	2618 167462	4389 213590	14255 338161	26833 600763	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

Analy Batch No.: 311491

SDG No.: _____

Instrument ID: SEA102

GC Column: DB-VRX

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 11:32

Calibration End Date: 09/18/2019 17:14

Calibration ID: 28240

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
t-Butyl alcohol	FB	Qual	++++ 67823	++++ 162328	6163 227298	16660 326436	32745 561852	++++ 200	++++ 500	20.0 750	50.0 1000	100 1500
Acrylonitrile	FB	Lin2	++++ 186342	8490 475628	15806 629352	45976 906232	81820 1576627	++++ 200	10.0 500	20.0 750	50.0 1000	100 1500
Iodomethane	FB	Ave	++++ 129889	5828 364261	11392 494361	32196 750851	56960 1298779	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Methylene Chloride	FB	Lin2	++++ 83706	5230 188106	8559 277009	21179 406502	35623 630622	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Methyl acetate	FB	Ave	++++ 87737	4188 181762	7254 302633	19656 431432	35697 659173	++++ 40.0	2.00 100	4.00 150	10.0 200	20.0 300
1,1,2-Trichloro-1,2,2-trifluoroethane	DCBd 4	Lin2	++++ 52746	1767 145470	3376 218834	11393 363914	22540 547177	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
3-Chloro-1-propene	CBNZ d5	Ave	984 38550	1691 91123	3152 131220	7657 204914	15446 315788	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Carbon disulfide	FB	Lin2	++++ 194090	8748 480273	15069 713350	41973 1099329	79751 1680207	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
trans-1,2-Dichloroethene	FB	Ave	1727 60114	3695 168649	5953 243583	14408 374604	28450 585573	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Methyl tert-butyl ether	FB	Ave	++++ 162891	9455 412767	16420 652973	39244 937083	82175 1385045	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Propionitrile	FB	Lin2	++++ 90811	6367 225650	8960 362270	23326 522836	46470 757923	++++ 250	12.5 625	25.0 938	62.5 1250	125 1875
1,1-Dichloroethane	CBNZ d5	Ave	2652 98806	5119 268989	9501 394976	23891 588772	47394 934753	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Vinyl acetate	FB	Ave	++++ 32577	1641 88436	2920 136420	7830 198620	15714 307056	++++ 50.0	2.50 125	5.00 188	12.5 250	25.0 375
2-Chloro-1,3-butadiene	DCBd 4	Ave	++++ 73126	2988 219420	6215 324597	16993 510785	33273 810938	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Hexane	FB	Lin2	++++ 75676	++++ 222438	6134 336246	17593 543430	35050 795440	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
2-Butanone	CBNZ d5	Ave	++++ 34092	2302 84307	3268 140666	8827 210260	16144 307544	++++ 100	5.00 250	10.0 375	25.0 500	50.0 750
Diisopropyl ether	FB	Ave	++++ 219648	11814 592195	22132 874556	50644 1285647	106982 2014814	++++ 25.0	1.25 62.5	2.50 93.8	6.25 125	12.5 188
Methacrylonitrile	FB	Qua2	++++ 80055	4642 214144	7245 329002	19830 505153	39574 738067	++++ 200	10.0 500	20.0 750	50.0 1000	100 1500
cis-1,2-Dichloroethene	CBNZ d5	Ave	++++ 70729	4022 192900	6985 281663	18151 415240	33835 650119	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Ethyl acetate	FB	Lin2	++++ 92759	5560 232976	9005 384202	23695 549812	46214 804494	++++ 40.0	2.00 100	4.00 150	10.0 200	20.0 300
Bromochloromethane	FB	Ave	1076 39773	2215 108594	3979 161211	9396 236761	19378 367756	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150

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Analy Batch No.: 311491

SDG No.: _____

Instrument ID: SEA102

GC Column: DB-VRX

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 11:32

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Calibration ID: 28240

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Chloroform	CBNZ d5	Ave	++++ 113536	6079 309366	11276 454419	26996 678403	54872 1069064	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Ethyl t-butyl ether	FB	Ave	++++ 216347	11594 569068	21583 860152	49530 1258002	103255 1915508	++++ 25.0	1.25 62.5	2.50 93.8	6.25 125	12.5 188
Isobutanol	FB	Ave	++++ 92681	++++ 231674	8911 374511	24608 550438	48406 807025	++++ 500	++++ 1250	50.0 1875	125 2500	250 3750
2,2-Dichloropropane	FB	Ave	++++ 72546	3658 201513	6629 289915	16834 465694	34455 660261	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Tetrahydrofuran	FB	Lin2	++++ 28804	2275 72637	3041 116729	7675 168426	14215 245882	++++ 40.0	2.00 100	4.00 150	10.0 200	20.0 300
1,2-Dichloroethane	FB	Lin2	2911 78547	4715 205614	8203 313488	19085 455568	38315 706257	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,1,1-Trichloroethane	FB	Lin2	++++ 91576	4143 268307	7670 396974	21598 620784	42839 971922	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
n-Butyl alcohol	FB	Lin2	++++ 39118	++++ 97982	4450 168153	10882 244116	20450 344803	++++ 500	++++ 1250	50.0 1875	125 2500	250 3750
1,1-Dichloropropene	FB	Lin2	++++ 72632	3000 217577	5802 317339	16794 501259	34280 785293	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Cyclohexane	CBNZ d5	Lin2	++++ 80138	++++ 246215	5563 359206	18304 580118	37804 915865	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
Carbon tetrachloride	FB	Qua2	++++ 72946	++++ 221020	5576 336072	16648 561923	33773 862474	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
Benzene	CBNZ d5	Ave	++++ 233472	12180 644784	22729 955235	54999 1428131	112167 2276618	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Tert-amyl methyl ether	FB	Lin2	++++ 222289	12574 586774	21606 876681	50665 1278218	107237 2007261	++++ 25.0	1.25 62.5	2.50 93.8	6.25 125	12.5 188
Ethyl acrylate	FB	Ave	++++ 69622	4387 192951	6836 318019	16839 468455	32572 682817	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
n-Heptane	FB	Ave	++++ 67987	2993 207215	5537 308099	15829 482869	32461 706491	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Dibromomethane	FB	Lin2	++++ 42539	2411 113587	4152 174133	10241 255468	20692 397307	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,2-Dichloropropane	CBNZ d5	Ave	++++ 57219	3093 158780	5645 239011	13803 346433	27125 554298	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
2-Nitropropane	FB	Qua2	++++ 28554	++++ 78049	2802 133021	6109 211247	13302 326734	++++ 40.0	++++ 100	4.00 150	10.0 200	20.0 300
Trichloroethene	CBNZ d5	Ave	++++ 70809	3296 201955	6397 304455	16585 474489	33609 746065	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Bromodichloromethane	CBNZ d5	Lin2	++++ 84118	4875 234550	7935 349039	19568 521983	40137 825147	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Methyl methacrylate	FB	Ave	++++ 85411	5005 234721	7484 378043	20489 549651	42200 826015	++++ 40.0	2.00 100	4.00 150	10.0 200	20.0 300

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Job No.: 580-89096-1

Analy Batch No.: 311491

SDG No.: _____

Instrument ID: SEA102

GC Column: DB-VRX

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 11:32

Calibration End Date: 09/18/2019 17:14

Calibration ID: 28240

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
2-Chloroethyl vinyl ether	CBNZ d5	Lin2	++++ 20748	1400 57917	2168 91795	5295 133974	10217 202339	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Methylcyclohexane	CBNZ d5	Qua2	++++ 97678	3982 291993	7380 426409	21965 692778	44925 1056849	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
cis-1,3-Dichloropropene	DCBD 4	Lin2	++++ 97577	5379 274454	9355 416215	23040 615503	47087 944499	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
4-Methyl-2-pentanone	CBNZ d5	Qua2	++++ 244958	19855 653759	24974 1040166	60550 1506540	123545 2205225	++++ 100	5.00 250	10.0 375	25.0 500	50.0 750
trans-1,3-Dichloropropene	CBNZ d5	Lin2	++++ 91888	5659 252483	8728 392379	21280 584797	43696 885889	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,1,2-Trichloroethane	CBNZ d5	Lin2	++++ 56806	3022 152931	4022 234009	5925 345700	13943 522325	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Ethyl methacrylate	CBNZ d5	Ave	++++ 67600	4289 190319	6036 308234	15360 459245	32912 698738	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Toluene	CBNZ d5	Ave	++++ 155759	8374 444824	14727 670769	37772 1019121	73658 1592187	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,3-Dichloropropane	CBNZ d5	Lin2	++++ 94772	6244 247665	9361 389573	22853 565015	45797 852839	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
2-Hexanone	CBNZ d5	Lin2	++++ 90042	++++ 235095	8938 388888	22485 576834	46957 818615	++++ 100	++++ 250	10.0 375	25.0 500	50.0 750
Dibromochloromethane	CBNZ d5	Ave	++++ 72692	++++ 203389	6682 318742	16185 479860	33474 741737	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
n-Butyl acetate	CBNZ d5	Ave	++++ 76262	++++ 205290	7486 332245	19899 486437	37781 707549	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
1,2-Dibromoethane	CBNZ d5	Ave	++++ 61897	3907 167478	5894 260549	14719 382075	29665 574839	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Tetrachloroethene	FB	Qua2	++++ 54531	2338 166463	4381 251660	13131 406454	25154 624495	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	++++ 74223	++++ 207913	7022 313294	17153 478191	34625 751194	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
Chlorobenzene	CBNZ d5	Lin2	++++ 193785	12418 539704	18991 813039	45816 1224556	91963 1910769	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Ethylbenzene	CBNZ d5	Lin2	++++ 95397	5141 280728	8611 424172	21832 649542	44843 1016741	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
m-Xylene & p-Xylene	CBNZ d5	Lin2	++++ 231611	13252 670717	21032 997587	52775 1534035	108187 2396696	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Bromoform	CBNZ d5	Ave	++++ 45933	++++ 134133	4128 216668	9784 344889	21155 534921	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
Styrene	CBNZ d5	Qua2	++++ 182668	11097 533952	15865 810173	38897 1233885	83403 1937657	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
o-Xylene	CBNZ d5	Qua2	++++ 123685	7316 353270	11339 532695	28670 818856	57659 1297693	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150

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Job No.: 580-89096-1

Analy Batch No.: 311491

SDG No.: _____

Instrument ID: SEA102

GC Column: DB-VRX

ID: 0.25 (mm)

Heated Purge: (Y/N) N

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Calibration End Date: 09/18/2019 17:14

Calibration ID: 28240

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,1,2,2-Tetrachloroethane	DCBd 4	Lin2	++++ 81378	++++ 212223	8492 338270	19906 503703	41033 772001	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
trans-1,4-Dichloro-2-butene	DCBd 4	Lin1	++++ 18122	++++ 49407	1584 77580	1952 119201	4516 182233	9180 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
1,2,3-Trichloropropane	DCBd 4	Ave	++++ 24855	++++ 65181	2545 102396	5995 152039	13070 227650	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
Isopropylbenzene	CBNZ d5	Ave	++++ 305186	++++ 895501	15942 1334007	25126 2077872	68073 3255860	140340 20.0	++++ 50.0	1.00 75.0	2.00 100	5.00 150
Bromobenzene	DCBd 4	Lin2	++++ 94131	++++ 262961	6809 405262	9199 625017	21642 982346	44717 20.0	++++ 50.0	1.00 75.0	2.00 100	5.00 150
N-Propylbenzene	DCBd 4	Lin2	++++ 88020	++++ 259257	4852 392366	7282 623922	18995 980291	40408 20.0	++++ 50.0	1.00 75.0	2.00 100	5.00 150
2-Chlorotoluene	DCBd 4	Lin2	++++ 83813	++++ 236551	5216 362365	7882 570632	18723 885290	39943 20.0	++++ 50.0	1.00 75.0	2.00 100	5.00 150
4-Chlorotoluene	DCBd 4	Lin2	++++ 229719	++++ 647091	16109 980716	21672 1501889	52890 2355725	108930 20.0	++++ 50.0	1.00 75.0	2.00 100	5.00 150
1,3,5-Trimethylbenzene	DCBd 4	Lin2	++++ 272550	++++ 784349	16064 1180228	22950 1840658	61446 2904001	126728 20.0	++++ 50.0	1.00 75.0	2.00 100	5.00 150
t-Butylbenzene	DCBd 4	Lin2	++++ 236486	++++ 684550	13102 1037487	19416 1628495	53194 2568724	107022 20.0	++++ 50.0	1.00 75.0	2.00 100	5.00 150
1,2,4-Trimethylbenzene	DCBd 4	Lin2	++++ 280168	++++ 797912	18164 1206253	25143 1872482	64021 2951262	132188 20.0	++++ 50.0	1.00 75.0	2.00 100	5.00 150
sec-Butylbenzene	DCBd 4	Lin2	++++ 342385	++++ 994735	18664 1488371	28033 2335909	77905 3647396	157978 20.0	++++ 50.0	1.00 75.0	2.00 100	5.00 150
Benzyl chloride	DCBd 4	Lin2	++++ 161509	++++ 435247	15564 712621	38205 1194564	79681 1572093	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
1,3-Dichlorobenzene	FB	Ave	++++ 189389	++++ 515580	18485 827202	42753 1248351	87723 1970021	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
4-Isopropyltoluene	DCBd 4	Lin2	++++ 313200	++++ 926928	26239 1417705	70695 2274237	144269 3626884	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
1,4-Dichlorobenzene	DCBd 4	Ave	++++ 191637	++++ 544476	18937 860222	44275 1349911	89169 2138308	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
1,2,3-Trimethylbenzene	DCBd 4	Lin2	++++ 297305	++++ 829439	20902 1263125	27884 1921455	71531 3019517	141152 20.0	++++ 50.0	1.00 75.0	2.00 100	5.00 150
1,2-Dichlorobenzene	DCBd 4	Lin2	++++ 183790	++++ 506740	18047 791843	44125 1207180	88373 1876017	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
n-Butylbenzene	DCBd 4	Lin2	++++ 268368	++++ 770051	15583 1157645	22594 1832341	63083 2837001	124426 20.0	++++ 50.0	1.00 75.0	2.00 100	5.00 150
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin2	++++ 17361	++++ 46937	1718 81885	4327 123542	8805 179309	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
1,3,5-Trichlorobenzene	DCBd 4	Lin2	++++ 134540	++++ 375307	10104 596151	13445 939342	31634 1448043	63142 20.0	++++ 50.0	1.00 75.0	2.00 100	5.00 150

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RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311491

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 11:32 Calibration End Date: 09/18/2019 17:14 Calibration ID: 28240

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
1,2,4-Trichlorobenzene	CBNZ d5	Ave	++++ 114284	++++ 318617	12260 519088	28095 806265	55594 1235742	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
Naphthalene	DCBd 4	Lin2	++++ 221097	++++ 588238	23304 1014664	56865 1524920	114525 2247987	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
Hexachlorobutadiene	DCBd 4	Lin2	++++ 24901	++++ 71662	2117 114198	5808 180006	11687 275148	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
1,2,3-Trichlorobenzene	DCBd 4	Lin2	++++ 97290	++++ 264096	10357 441073	24583 680767	48178 1020703	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
Dibromofluoromethane (Surr)	FB	Ave	69948 74931	71260 78440	72984 74517	67236 82662	70876 85445	19.5 19.5	19.5 19.5	19.5 19.5	19.5 19.5	19.5 19.5
1,2-Dichloroethane-d4 (Surr)	FB	Ave	73796 72595	73166 75840	71483 73892	68631 80673	70385 85028	19.5 19.5	19.5 19.5	19.5 19.5	19.5 19.5	19.5 19.5
Trifluorotoluene (Surr)	FB	Ave	136309 143181	136253 153452	137084 151414	129640 169183	135479 173103	20.0 20.0	20.0 20.0	20.0 20.0	20.0 20.0	20.0 20.0
Toluene-d8 (Surr)	CBNZ d5	Ave	239307 249727	239305 265947	238266 260626	229285 284709	235655 295766	19.5 19.5	19.5 19.5	19.5 19.5	19.5 19.5	19.5 19.5
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	94953 100240	95586 108004	94522 104103	89969 116200	95069 122689	19.5 19.5	19.5 19.5	19.5 19.5	19.5 19.5	19.5 19.5

Curve Type Legend:

<p>Ave = Average ISTD Lin1 = Linear 1/conc ISTD Lin2 = Linear 1/conc^2 ISTD Qua1 = Quadratic 1/conc ISTD Qua2 = Quadratic 1/conc^2 ISTD</p>

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311491

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 11:32 Calibration End Date: 09/18/2019 17:14 Calibration ID: 28240

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-311491/2	091819_0007.D
Level 2	IC 580-311491/3	091819_0008.D
Level 3	IC 580-311491/4	091819_0009.D
Level 4	IC 580-311491/5	091819_0010.D
Level 5	IC 580-311491/6	091819_0011.D
Level 6	ICIS 580-311491/7	091819_0012.D
Level 7	IC 580-311491/8	091819_0013.D
Level 8	IC 580-311491/9	091819_0014.D
Level 9	IC 580-311491/10	091819_0018.D
Level 10	IC 580-311491/11	091819_0016.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Dichlorodifluoromethane	+++++	4.3						30				
Chloromethane	5.4						50					
Vinyl chloride	+++++	2.8						50				
Butadiene	+++++	-7.9						50				
Bromomethane	-7.7						30					
Chloroethane	8.9						30					
Dichlorofluoromethane	+++++	8.4						50				
Acrolein	+++++	7.7						30				
Acetonitrile	+++++	-4.1						30				
Trichlorofluoromethane	+++++	+++++	0.7						30			
Isopropyl alcohol	+++++	+++++	-4.4	+++++					30			
Acetone	+++++	3.5						30				
Ethyl ether	-4.9						30					
1,1-Dichloroethene	+++++	-5.0						50				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBCK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311491

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 11:32 Calibration End Date: 09/18/2019 17:14 Calibration ID: 28240

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
t-Butyl alcohol	+++++	+++++	-25.1						30			
Acrylonitrile	+++++	0.6						30				
Iodomethane	+++++	-8.8						50				
Methylene Chloride	+++++	-0.9						30				
Methyl acetate	+++++	8.7						50				
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++	6.5						30				
3-Chloro-1-propene	17.7						50					
Carbon disulfide	+++++	6.2						30				
trans-1,2-Dichloroethene	10.8						50					
Methyl tert-butyl ether	+++++	14.4						50				
Propionitrile	+++++	6.6						30				
1,1-Dichloroethane	8.7						50					
Vinyl acetate	+++++	-0.3						50				
2-Chloro-1,3-butadiene	+++++	-14.1						50				
Hexane	+++++	+++++	2.7						30			
2-Butanone	+++++	32.4						50				
Diisopropyl ether	+++++	6.2						50				
Methacrylonitrile	+++++	5.3						30				
cis-1,2-Dichloroethene	+++++	13.5						50				
Ethyl acetate	+++++	3.8						30				
Bromochloromethane	7.3						50					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311491

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 11:32 Calibration End Date: 09/18/2019 17:14 Calibration ID: 28240

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
Chloroform	+++++	7.9						50				
Ethyl t-butyl ether	+++++	7.1						50				
Isobutanol	+++++	+++++	-4.4						50			
2,2-Dichloropropane	+++++	0.2						50				
Tetrahydrofuran	+++++	7.7						30				
1,2-Dichloroethane	3.1						30					
1,1,1-Trichloroethane	+++++	6.8						30				
n-Butyl alcohol	+++++	+++++	-3.2						30			
1,1-Dichloropropene	+++++	7.2						30				
Cyclohexane	+++++	+++++	1.3						30			
Carbon tetrachloride	+++++	+++++	-1.1						30			
Benzene	+++++	4.7						50				
Tert-amyl methyl ether	+++++	3.7						30				
Ethyl acrylate	+++++	17.1						50				
n-Heptane	+++++	-15.2						50				
Dibromomethane	+++++	3.8						30				
1,2-Dichloropropane	+++++	7.7						50				
2-Nitropropane	+++++	+++++	1.6						30			
Trichloroethene	+++++	-7.2						50				
Bromodichloromethane	+++++	5.6						30				
Methyl methacrylate	+++++	11.9						50				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311491

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 11:32 Calibration End Date: 09/18/2019 17:14 Calibration ID: 28240

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
2-Chloroethyl vinyl ether	+++++	5.2						30				
Methylcyclohexane	+++++	4.6						30				
cis-1,3-Dichloropropene	+++++	1.2						30				
4-Methyl-2-pentanone	+++++	9.8						30				
trans-1,3-Dichloropropene	+++++	7.1						30				
1,1,2-Trichloroethane	8.9						30					
Ethyl methacrylate	+++++	21.6						50				
Toluene	+++++	5.3						50				
1,3-Dichloropropane	+++++	5.7						30				
2-Hexanone	+++++	+++++	-2.3						30			
Dibromochloromethane	+++++	+++++	-7.4						50			
n-Butyl acetate	+++++	+++++	-2.6						50			
1,2-Dibromoethane	+++++	24.3						50				
Tetrachloroethene	+++++	3.6						30				
1,1,1,2-Tetrachloroethane	+++++	+++++	-4.8						50			
Chlorobenzene	+++++	6.8						30				
Ethylbenzene	+++++	7.3						30				
m-Xylene & p-Xylene	+++++	7.9						30				
Bromoform	+++++	+++++	-13.5						50			
Styrene	+++++	8.2						30				
o-Xylene	+++++	5.1						30				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBCK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311491

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 11:32 Calibration End Date: 09/18/2019 17:14 Calibration ID: 28240

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
1,1,2,2-Tetrachloroethane	+++++	+++++	-2.5						30			
trans-1,4-Dichloro-2-butene	+++++	20.1						30				
1,2,3-Trichloropropane	+++++	+++++	10.2						50			
Isopropylbenzene	+++++	3.8						50				
Bromobenzene	+++++	9.1						30				
N-Propylbenzene	+++++	9.5						30				
2-Chlorotoluene	+++++	6.7						30				
4-Chlorotoluene	+++++	9.3						30				
1,3,5-Trimethylbenzene	+++++	9.3						30				
t-Butylbenzene	+++++	9.0						30				
1,2,4-Trimethylbenzene	+++++	9.3						30				
sec-Butylbenzene	+++++	8.3						30				
Benzyl chloride	+++++	+++++	-0.2						30			
1,3-Dichlorobenzene	+++++	+++++	-5.3						50			
4-Isopropyltoluene	+++++	+++++	1.9						30			
1,4-Dichlorobenzene	+++++	+++++	2.6						50			
1,2,3-Trimethylbenzene	+++++	8.9						30				
1,2-Dichlorobenzene	+++++	+++++	-0.7						30			
n-Butylbenzene	+++++	8.4						30				
1,2-Dibromo-3-Chloropropane	+++++	+++++	-1.1						30			
1,3,5-Trichlorobenzene	+++++	9.8						30				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311491

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 11:32 Calibration End Date: 09/18/2019 17:14 Calibration ID: 28240

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
1,2,4-Trichlorobenzene	+++++	+++++	1.9						50			
Naphthalene	+++++	+++++	-2.0						30			
Hexachlorobutadiene	+++++	+++++	0.5						30			
1,2,3-Trichlorobenzene	+++++	+++++	-0.5						30			
Dibromofluoromethane (Surr)	-0.7						50					
1,2-Dichloroethane-d4 (Surr)	5.1						50					
Trifluorotoluene (Surr)	-1.0						50					
Toluene-d8 (Surr)	1.3						50					
4-Bromofluorobenzene (Surr)	0.0						50					

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: ICV 580-311491/13 Calibration Date: 09/18/2019 18:03
 Instrument ID: SEA102 Calib Start Date: 09/18/2019 11:32
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/18/2019 17:14
 Lab File ID: 091819_0020.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Qua2		0.5652	0.1000	16.6	20.0	-17.2	30.0
Chloromethane	Ave	0.3189	0.2765	0.1000	17.3	20.0	-13.3	30.0
Vinyl chloride	Ave	0.8448	0.6886	0.1000	16.3	20.0	-18.5	30.0
Butadiene	Ave	0.2965	0.2432		16.4	20.0	-18.0	30.0
Bromomethane	Lin2		0.6196	0.1000	18.1	20.0	-9.5	30.0
Chloroethane	Lin2		0.1730	0.0600	17.9	20.0	-10.5	30.0
Dichlorofluoromethane	Ave	0.5188	0.4562		17.6	20.0	-12.1	30.0
Acrolein	Lin2		0.0418		108	120	-10.1	30.0
Acetonitrile	Lin2		0.0275		219	250	-12.2	30.0
Trichlorofluoromethane	Lin2		0.9625	0.1000	16.6	20.0	-17.2	30.0
Isopropyl alcohol	Lin2		0.0129		161	200	-19.7	30.0
Acetone	Lin2		0.0598	0.0200	82.6	100	-17.4	30.0
Ethyl ether	Lin1		0.1863		19.9	20.0	-0.3	30.0
1,1-Dichloroethene	Ave	0.5164	0.4328	0.1000	16.8	20.0	-16.2	30.0
t-Butyl alcohol	Qua1		0.0182		160	200	-20.2	30.0
Acrylonitrile	Lin2		0.0546		168	200	-16.1	30.0
Iodomethane	Ave	0.4829	0.4454		18.4	20.0	-7.8	30.0
Methylene Chloride	Lin2		0.2662	0.1000	18.9	20.0	-5.6	30.0
Methyl acetate	Ave	0.1455	0.1273	0.1000	35.0	40.0	-12.6	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin2		0.3537	0.1000	17.8	20.0	-11.2	30.0
3-Chloro-1-propene	Ave	0.3159	0.2876		18.2	20.0	-9.0	30.0
Carbon disulfide	Lin2		0.6068	0.1000	17.8	20.0	-11.0	30.0
trans-1,2-Dichloroethene	Ave	0.2414	0.2263	0.1000	18.7	20.0	-6.3	30.0
Methyl tert-butyl ether	Ave	0.6246	0.6015	0.1000	19.3	20.0	-3.7	30.0
Propionitrile	Lin2		0.0247		228	250	-8.6	30.0
1,1-Dichloroethane	Ave	0.9219	0.8938	0.2000	19.4	20.0	-3.0	30.0
Vinyl acetate	Ave	0.0498	0.0479		48.1	50.0	-3.8	30.0
2-Chloro-1,3-butadiene	Ave	0.5683	0.5461		19.2	20.0	-3.9	30.0
Hexane	Lin2		0.2599		16.8	20.0	-16.2	30.0
2-Butanone	Ave	0.0651	0.0547	0.0200	84.0	100	-16.0	30.0
Diisopropyl ether	Ave	0.6724	0.6505		24.2	25.0	-3.3	30.0
Methacrylonitrile	Qua2		0.0282		188	200	-5.9	30.0
cis-1,2-Dichloroethene	Ave	0.6640	0.6557	0.1000	19.7	20.0	-1.3	30.0
Ethyl acetate	Lin2		0.1608		36.6	40.0	-8.5	30.0
Bromochloromethane	Ave	0.1553	0.1522		19.6	20.0	-2.0	30.0
Chloroform	Ave	1.056	1.033	0.2000	19.6	20.0	-2.2	30.0
Ethyl t-butyl ether	Ave	0.6544	0.6371		24.3	25.0	-2.6	30.0
Isobutanol	Ave	0.0142	0.0125		439	500	-12.2	30.0
2,2-Dichloropropane	Ave	0.2760	0.2502		18.1	20.0	-9.3	30.0
Tetrahydrofuran	Lin2		0.0486		35.9	40.0	-10.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: ICV 580-311491/13 Calibration Date: 09/18/2019 18:03
 Instrument ID: SEA102 Calib Start Date: 09/18/2019 11:32
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/18/2019 17:14
 Lab File ID: 091819_0020.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Lin2		0.2940	0.1000	19.9	20.0	-0.3	30.0
1,1,1-Trichloroethane	Lin2		0.3428	0.1000	18.6	20.0	-7.2	30.0
n-Butyl alcohol	Lin2		0.0052		422	500	-15.5	30.0
1,1-Dichloropropene	Lin2		0.2721		18.4	20.0	-8.0	30.0
Cyclohexane	Lin2		0.6991	0.1000	17.4	20.0	-12.8	30.0
Carbon tetrachloride	Qua2		0.2883	0.1000	20.4	20.0	2.1	30.0
Benzene	Ave	2.179	2.156	0.5000	19.8	20.0	-1.1	30.0
Tert-amyl methyl ether	Lin2		0.6659		25.1	25.0	0.4	30.0
Ethyl acrylate	Ave	0.2831	0.2571		18.2	20.0	-9.2	30.0
n-Heptane	Ave	0.2667	0.2443		18.3	20.0	-8.4	30.0
Dibromomethane	Lin2		0.1603		19.7	20.0	-1.6	30.0
1,2-Dichloropropane	Ave	0.5381	0.5279	0.1000	19.6	20.0	-1.9	30.0
2-Nitropropane	Qua2		0.0530		40.2	40.0	0.6	30.0
Trichloroethene	Ave	0.6653	0.6545	0.2000	19.7	20.0	-1.6	30.0
Bromodichloromethane	Lin2		0.7754	0.2000	19.9	20.0	-0.5	30.0
Methyl methacrylate	Ave	0.1690	0.1594		37.7	40.0	-5.7	30.0
2-Chloroethyl vinyl ether	Lin2		0.1924		19.4	20.0	-2.9	30.0
Methylcyclohexane	Qua2		0.8650	0.1000	19.6	20.0	-2.2	30.0
cis-1,3-Dichloropropene	Lin2		0.7662	0.2000	20.4	20.0	2.2	30.0
4-Methyl-2-pentanone	Qua2		0.4196	0.0600	96.2	100	-3.8	30.0
trans-1,3-Dichloropropene	Lin2		0.8522	0.1000	20.0	20.0	0.0	30.0
1,1,2-Trichloroethane	Lin2		0.5257	0.1000	20.6	20.0	2.9	30.0
Ethyl methacrylate	Ave	0.6609	0.6205		18.8	20.0	-6.1	30.0
Toluene	Ave	1.490	1.453	0.4000	19.5	20.0	-2.5	30.0
1,3-Dichloropropane	Lin2		0.8650		20.2	20.0	1.1	30.0
2-Hexanone	Lin2		0.1565	0.0600	92.2	100	-7.8	30.0
Dibromochloromethane	Ave	0.6795	0.6869	0.1000	20.2	20.0	1.1	30.0
n-Butyl acetate	Ave	0.7233	0.6802		18.8	20.0	-6.0	30.0
1,2-Dibromoethane	Ave	0.5887	0.5706	0.1000	19.4	20.0	-3.1	30.0
Tetrachloroethene	Qua2		0.2107	0.2000	20.2	20.0	0.8	30.0
1,1,1,2-Tetrachloroethane	Ave	0.6940	0.6998		20.2	20.0	0.8	30.0
Chlorobenzene	Lin2		1.819	0.5000	20.2	20.0	0.8	30.0
Ethylbenzene	Lin2		0.8951	0.1000	19.4	20.0	-2.9	30.0
m-Xylene & p-Xylene	Lin2		2.155	0.1000	19.6	20.0	-1.8	30.0
Bromoform	Ave	0.4490	0.4382	0.1000	19.5	20.0	-2.4	30.0
Styrene	Qua2		1.748	0.3000	22.0	20.0	9.8	30.0
1,1,2,2-Tetrachloroethane	Lin2		0.5983	0.3000	19.3	20.0	-3.5	30.0
o-Xylene	Qua2		1.145	0.3000	20.8	20.0	3.9	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.1248		17.3	20.0	-13.3	30.0
1,2,3-Trichloropropane	Ave	0.1927	0.1900		19.7	20.0	-1.4	30.0
Isopropylbenzene	Ave	2.878	2.780	0.1000	19.3	20.0	-3.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: ICV 580-311491/13 Calibration Date: 09/18/2019 18:03
 Instrument ID: SEA102 Calib Start Date: 09/18/2019 11:32
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/18/2019 17:14
 Lab File ID: 091819_0020.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bromobenzene	Lin2		0.7524		20.7	20.0	3.7	30.0
N-Propylbenzene	Lin2		0.6842		19.7	20.0	-1.6	30.0
2-Chlorotoluene	Lin2		0.6534		20.0	20.0	0.1	30.0
4-Chlorotoluene	Lin2		1.795		20.4	20.0	1.9	30.0
1,3,5-Trimethylbenzene	Lin2		2.101		19.9	20.0	-0.7	30.0
t-Butylbenzene	Lin2		1.809		19.6	20.0	-2.1	30.0
1,2,4-Trimethylbenzene	Lin2		2.179		20.1	20.0	0.5	30.0
sec-Butylbenzene	Lin2		2.620		19.6	20.0	-1.9	30.0
Benzyl chloride	Lin2		1.041		16.3	20.0	-18.7	30.0
1,3-Dichlorobenzene	Ave	0.7437	0.7040	0.6000	18.9	20.0	-5.3	30.0
4-Isopropyltoluene	Lin2		2.382		18.7	20.0	-6.6	30.0
1,4-Dichlorobenzene	Ave	1.541	1.494	0.5000	19.4	20.0	-3.0	30.0
1,2,3-Trimethylbenzene	Lin2		2.301		20.2	20.0	1.0	30.0
1,2-Dichlorobenzene	Lin2		1.422	0.4000	19.8	20.0	-1.0	30.0
n-Butylbenzene	Lin2		2.024		19.3	20.0	-3.3	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.1312	0.0500	18.6	20.0	-6.8	30.0
1,3,5-Trichlorobenzene	Lin2		1.041		19.7	20.0	-1.5	30.0
1,2,4-Trichlorobenzene	Ave	1.132	1.061	0.2000	18.7	20.0	-6.3	30.0
Naphthalene	Lin2		1.689		19.0	20.0	-5.1	30.0
Hexachlorobutadiene	Lin2		0.1950		19.3	20.0	-3.4	30.0
1,2,3-Trichlorobenzene	Lin2		0.7497		19.1	20.0	-4.3	30.0
Dibromofluoromethane (Surr)	Ave	0.2798	0.2807		19.6	19.5	0.3	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2790	0.2712		19.0	19.5	-2.8	30.0
Trifluorotoluene (Surr)	Ave	0.5335	0.5487		20.6	20.0	2.8	30.0
Toluene-d8 (Surr)	Ave	2.290	2.305		19.6	19.5	0.6	30.0
4-Bromofluorobenzene (Surr)	Ave	0.9202	0.9313		19.7	19.5	1.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCVIS 580-312211/2 Calibration Date: 09/24/2019 23:45
 Instrument ID: SEA102 Calib Start Date: 09/18/2019 11:32
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/18/2019 17:14
 Lab File ID: 092419_0030.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Qua2		0.5302	0.1000	15.6	20.0	-22.1*	20.0
Chloromethane	Ave	0.3189	0.2510	0.1000	15.7	20.0	-21.3*	20.0
Vinyl chloride	Ave	0.8448	0.6796	0.1000	16.1	20.0	-19.6	20.0
Butadiene	Ave	0.2965	0.2498		16.8	20.0	-15.8	20.0
Bromomethane	Lin2		0.5292	0.1000	15.4	20.0	-22.8*	20.0
Chloroethane	Lin2		0.1408	0.0600	14.5	20.0	-27.4*	20.0
Dichlorofluoromethane	Ave	0.5188	0.3794		14.6	20.0	-26.9*	20.0
Acrolein	Lin2		0.0332		84.9	120	-29.3*	20.0
Acetonitrile	Lin2		0.0231		184	250	-26.4*	20.0
Trichlorofluoromethane	Lin2		0.8600	0.1000	14.9	20.0	-25.6*	20.0
Isopropyl alcohol	Lin2		0.0109		134	200	-32.9*	20.0
Acetone	Lin2		0.0495	0.0200	67.0	100	-33.0*	20.0
Ethyl ether	Lin1		0.1482		15.8	20.0	-20.9*	20.0
1,1-Dichloroethene	Ave	0.5164	0.4384	0.1000	17.0	20.0	-15.1	20.0
t-Butyl alcohol	Qua1		0.0195		172	200	-14.1	20.0
Acrylonitrile	Lin2		0.0544		167	200	-16.5	20.0
Iodomethane	Ave	0.4829	0.4247		17.6	20.0	-12.1	20.0
Methylene Chloride	Lin2		0.2694	0.1000	19.1	20.0	-4.5	20.0
Methyl acetate	Ave	0.1455	0.1277	0.1000	35.1	40.0	-12.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin2		0.3636	0.1000	18.3	20.0	-8.7	20.0
3-Chloro-1-propene	Ave	0.3159	0.2856		18.1	20.0	-9.6	20.0
Carbon disulfide	Lin2		0.6007	0.1000	17.6	20.0	-11.9	20.0
trans-1,2-Dichloroethene	Ave	0.2414	0.2197	0.1000	18.2	20.0	-9.0	20.0
Methyl tert-butyl ether	Ave	0.6246	0.5828	0.1000	18.7	20.0	-6.7	20.0
Propionitrile	Lin2		0.0246		227	250	-9.2	20.0
1,1-Dichloroethane	Ave	0.9219	0.8534	0.2000	18.5	20.0	-7.4	20.0
Vinyl acetate	Ave	0.0498	0.0477		47.9	50.0	-4.2	20.0
2-Chloro-1,3-butadiene	Ave	0.5683	0.5370		18.9	20.0	-5.5	20.0
Hexane	Lin2		0.2594		16.7	20.0	-16.4	20.0
2-Butanone	Ave	0.0651	0.0576	0.0200	88.4	100	-11.6	20.0
Diisopropyl ether	Ave	0.6724	0.6172		22.9	25.0	-8.2	20.0
Methacrylonitrile	Qua2		0.0290		194	200	-3.1	20.0
cis-1,2-Dichloroethene	Ave	0.6640	0.6163	0.1000	18.6	20.0	-7.2	20.0
Ethyl acetate	Lin2		0.1654		37.7	40.0	-5.8	20.0
Bromochloromethane	Ave	0.1553	0.1450		18.7	20.0	-6.7	20.0
Chloroform	Ave	1.056	0.9894	0.2000	18.7	20.0	-6.3	20.0
Ethyl t-butyl ether	Ave	0.6544	0.6151		23.5	25.0	-6.0	20.0
Isobutanol	Ave	0.0142	0.0126		444	500	-11.2	20.0
2,2-Dichloropropane	Ave	0.2760	0.2567		18.6	20.0	-7.0	20.0
Tetrahydrofuran	Lin2		0.0484		35.7	40.0	-10.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCVIS 580-312211/2 Calibration Date: 09/24/2019 23:45
 Instrument ID: SEA102 Calib Start Date: 09/18/2019 11:32
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/18/2019 17:14
 Lab File ID: 092419_0030.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Lin2		0.2853	0.1000	19.4	20.0	-3.2	20.0
1,1,1-Trichloroethane	Lin2		0.3489	0.1000	18.9	20.0	-5.6	20.0
n-Butyl alcohol	Lin2		0.0054		438	500	-12.4	20.0
1,1-Dichloropropene	Lin2		0.2724		18.4	20.0	-7.9	20.0
Cyclohexane	Lin2		0.7283	0.1000	18.1	20.0	-9.3	20.0
Carbon tetrachloride	Qua2		0.2990	0.1000	21.1	20.0	5.6	20.0
Benzene	Ave	2.179	2.033	0.5000	18.7	20.0	-6.7	20.0
Tert-amyl methyl ether	Lin2		0.6337		23.9	25.0	-4.5	20.0
Ethyl acrylate	Ave	0.2831	0.2643		18.7	20.0	-6.6	20.0
n-Heptane	Ave	0.2667	0.2368		17.8	20.0	-11.2	20.0
Dibromomethane	Lin2		0.1516		18.6	20.0	-7.0	20.0
1,2-Dichloropropane	Ave	0.5381	0.4973	0.1000	18.5	20.0	-7.6	20.0
2-Nitropropane	Qua2		0.0541		41.1	40.0	2.7	20.0
Trichloroethene	Ave	0.6653	0.6414	0.2000	19.3	20.0	-3.6	20.0
Bromodichloromethane	Lin2		0.7502	0.2000	19.2	20.0	-3.8	20.0
Methyl methacrylate	Ave	0.1690	0.1576		37.3	40.0	-6.7	20.0
2-Chloroethyl vinyl ether	Lin2		0.1923		19.4	20.0	-2.9	20.0
Methylcyclohexane	Qua2		0.8549	0.1000	19.3	20.0	-3.3	20.0
cis-1,3-Dichloropropene	Lin2		0.7026	0.2000	18.7	20.0	-6.4	20.0
4-Methyl-2-pentanone	Qua2		0.4344	0.0600	99.6	100	-0.4	20.0
trans-1,3-Dichloropropene	Lin2		0.8233	0.1000	19.3	20.0	-3.4	20.0
1,1,2-Trichloroethane	Lin2		0.4962	0.1000	19.4	20.0	-3.1	20.0
Ethyl methacrylate	Ave	0.6609	0.6160		18.6	20.0	-6.8	20.0
Toluene	Ave	1.490	1.420	0.4000	19.1	20.0	-4.7	20.0
1,3-Dichloropropane	Lin2		0.8284		19.4	20.0	-3.2	20.0
2-Hexanone	Lin2		0.1590	0.0600	93.7	100	-6.3	20.0
Dibromochloromethane	Ave	0.6795	0.6604	0.1000	19.4	20.0	-2.8	20.0
n-Butyl acetate	Ave	0.7233	0.6934		19.2	20.0	-4.1	20.0
1,2-Dibromoethane	Ave	0.5887	0.5483	0.1000	18.6	20.0	-6.9	20.0
Tetrachloroethene	Qua2		0.2151	0.2000	20.5	20.0	2.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6940	0.6702		19.3	20.0	-3.4	20.0
Chlorobenzene	Lin2		1.731	0.5000	19.2	20.0	-4.1	20.0
Ethylbenzene	Lin2		0.8788	0.1000	19.1	20.0	-4.7	20.0
m-Xylene & p-Xylene	Lin2		2.104	0.1000	19.2	20.0	-4.2	20.0
Bromoform	Ave	0.4490	0.4562	0.1000	20.3	20.0	1.6	20.0
Styrene	Qua2		1.661	0.3000	20.9	20.0	4.5	20.0
1,1,2,2-Tetrachloroethane	Lin2		0.5494	0.3000	17.7	20.0	-11.5	20.0
o-Xylene	Qua2		1.105	0.3000	20.1	20.0	0.3	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1295		18.0	20.0	-9.9	20.0
1,2,3-Trichloropropane	Ave	0.1927	0.1752		18.2	20.0	-9.1	20.0
Isopropylbenzene	Ave	2.878	2.738	0.1000	19.0	20.0	-4.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCVIS 580-312211/2 Calibration Date: 09/24/2019 23:45
 Instrument ID: SEA102 Calib Start Date: 09/18/2019 11:32
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/18/2019 17:14
 Lab File ID: 092419_0030.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bromobenzene	Lin2		0.6936		19.1	20.0	-4.6	20.0
N-Propylbenzene	Lin2		0.6570		18.9	20.0	-5.5	20.0
2-Chlorotoluene	Lin2		0.6119		18.7	20.0	-6.3	20.0
4-Chlorotoluene	Lin2		1.638		18.6	20.0	-7.2	20.0
1,3,5-Trimethylbenzene	Lin2		1.905		18.0	20.0	-10.0	20.0
t-Butylbenzene	Lin2		1.662		18.0	20.0	-10.0	20.0
1,2,4-Trimethylbenzene	Lin2		2.038		18.8	20.0	-6.1	20.0
sec-Butylbenzene	Lin2		2.390		17.9	20.0	-10.5	20.0
Benzyl chloride	Lin2		1.038		16.2	20.0	-18.9	20.0
1,3-Dichlorobenzene	Ave	0.7437	0.7210	0.6000	19.4	20.0	-3.1	20.0
4-Isopropyltoluene	Lin2		2.257		17.7	20.0	-11.4	20.0
1,4-Dichlorobenzene	Ave	1.541	1.425	0.5000	18.5	20.0	-7.5	20.0
1,2,3-Trimethylbenzene	Lin2		2.088		18.3	20.0	-8.6	20.0
1,2-Dichlorobenzene	Lin2		1.359	0.4000	18.9	20.0	-5.4	20.0
n-Butylbenzene	Lin2		1.907		18.2	20.0	-8.9	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.1258	0.0500	17.9	20.0	-10.7	20.0
1,3,5-Trichlorobenzene	Lin2		0.9336		17.6	20.0	-11.9	20.0
1,2,4-Trichlorobenzene	Ave	1.132	1.101	0.2000	19.4	20.0	-2.8	20.0
Naphthalene	Lin2		1.686		18.9	20.0	-5.3	20.0
Hexachlorobutadiene	Lin2		0.1788		17.7	20.0	-11.3	20.0
1,2,3-Trichlorobenzene	Lin2		0.6659		17.0	20.0	-15.1	20.0
Dibromofluoromethane (Surr)	Ave	0.2798	0.2768		19.3	19.5	-1.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2790	0.2810		19.6	19.5	0.7	20.0
Trifluorotoluene (Surr)	Ave	0.5335	0.5414		20.3	20.0	1.5	20.0
Toluene-d8 (Surr)	Ave	2.290	2.290		19.5	19.5	0.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9202	0.9048		19.2	19.5	-1.7	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-312211/6
 Matrix: Water Lab File ID: 092419_0034.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 01:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		3.0	0.39
75-34-3	1,1-Dichloroethane	ND		2.0	0.22
563-58-6	1,1-Dichloropropene	ND		3.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		5.0	1.1
96-18-4	1,2,3-Trichloropropane	ND		2.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.33
95-63-6	1,2,4-Trimethylbenzene	ND		3.0	0.61
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	1.8
95-50-1	1,2-Dichlorobenzene	ND		2.0	0.46
78-87-5	1,2-Dichloropropane	ND		1.0	0.18
108-67-8	1,3,5-Trimethylbenzene	ND		3.0	0.55
541-73-1	1,3-Dichlorobenzene	ND		2.0	0.18
142-28-9	1,3-Dichloropropane	ND		2.0	0.35
594-20-7	2,2-Dichloropropane	ND		3.0	0.32
78-93-3	2-Butanone	ND		20	4.7
95-49-8	2-Chlorotoluene	ND		3.0	0.51
106-43-4	4-Chlorotoluene	ND		2.0	0.51
99-87-6	4-Isopropyltoluene	ND		3.0	0.28
108-10-1	4-Methyl-2-pentanone	ND		15	2.5
67-64-1	Acetone	ND		50	7.8
108-86-1	Bromobenzene	ND		2.0	0.43
74-97-5	Bromochloromethane	ND		2.0	0.29
75-15-0	Carbon disulfide	ND		3.0	0.53
56-23-5	Carbon tetrachloride	ND		3.0	0.30
108-90-7	Chlorobenzene	ND		2.0	0.44
75-00-3	Chloroethane	ND		5.0	1.1
74-87-3	Chloromethane	ND		20	5.4
156-59-2	cis-1,2-Dichloroethene	ND		3.0	0.69
75-71-8	Dichlorodifluoromethane	ND		10	2.3
100-41-4	Ethylbenzene	ND		3.0	0.50
98-82-8	Isopropylbenzene	ND		2.0	0.51
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.44
75-09-2	Methylene Chloride	ND		5.0	1.4
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
104-51-8	n-Butylbenzene	ND		3.0	0.44
103-65-1	N-Propylbenzene	ND		3.0	0.50

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-312211/6
 Matrix: Water Lab File ID: 092419_0034.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 01:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-47-6	o-Xylene	ND		2.0	0.39
135-98-8	sec-Butylbenzene	ND		3.0	0.49
100-42-5	Styrene	ND		5.0	1.0
98-06-6	t-Butylbenzene	ND		3.0	0.58
108-88-3	Toluene	ND		2.0	0.39
156-60-5	trans-1,2-Dichloroethene	ND		3.0	0.39
75-69-4	Trichlorofluoromethane	ND		3.0	0.63

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-126
460-00-4	4-Bromofluorobenzene (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120
98-08-8	Trifluorotoluene (Surr)	101		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-312211/3
 Matrix: Water Lab File ID: 092419_0031.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 00:10
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	8.75		3.0	0.39
75-34-3	1,1-Dichloroethane	9.03		2.0	0.22
563-58-6	1,1-Dichloropropene	8.43		3.0	0.29
87-61-6	1,2,3-Trichlorobenzene	7.19		5.0	1.1
96-18-4	1,2,3-Trichloropropane	8.53		2.0	0.41
120-82-1	1,2,4-Trichlorobenzene	9.49		2.0	0.33
95-63-6	1,2,4-Trimethylbenzene	8.75		3.0	0.61
96-12-8	1,2-Dibromo-3-Chloropropane	9.34	J	10	1.8
95-50-1	1,2-Dichlorobenzene	9.02		2.0	0.46
78-87-5	1,2-Dichloropropane	8.70		1.0	0.18
108-67-8	1,3,5-Trimethylbenzene	8.66		3.0	0.55
541-73-1	1,3-Dichlorobenzene	9.04		2.0	0.18
142-28-9	1,3-Dichloropropane	8.95		2.0	0.35
594-20-7	2,2-Dichloropropane	7.74		3.0	0.32
78-93-3	2-Butanone	41.8		20	4.7
95-49-8	2-Chlorotoluene	8.96		3.0	0.51
106-43-4	4-Chlorotoluene	8.62		2.0	0.51
99-87-6	4-Isopropyltoluene	8.40		3.0	0.28
108-10-1	4-Methyl-2-pentanone	45.5		15	2.5
67-64-1	Acetone	34.8	J	50	7.8
108-86-1	Bromobenzene	8.98		2.0	0.43
74-97-5	Bromochloromethane	8.78		2.0	0.29
75-15-0	Carbon disulfide	8.02		3.0	0.53
56-23-5	Carbon tetrachloride	9.79		3.0	0.30
108-90-7	Chlorobenzene	9.05		2.0	0.44
75-00-3	Chloroethane	7.10		5.0	1.1
74-87-3	Chloromethane	7.65	J	20	5.4
156-59-2	cis-1,2-Dichloroethene	9.35		3.0	0.69
75-71-8	Dichlorodifluoromethane	6.21	J	10	2.3
100-41-4	Ethylbenzene	8.93		3.0	0.50
98-82-8	Isopropylbenzene	9.06		2.0	0.51
1634-04-4	Methyl tert-butyl ether	9.03		2.0	0.44
75-09-2	Methylene Chloride	9.75		5.0	1.4
179601-23-1	m-Xylene & p-Xylene	8.94		3.0	0.75
104-51-8	n-Butylbenzene	8.46		3.0	0.44
103-65-1	N-Propylbenzene	8.64		3.0	0.50

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-312211/3
 Matrix: Water Lab File ID: 092419_0031.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 00:10
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-47-6	o-Xylene	9.65		2.0	0.39
135-98-8	sec-Butylbenzene	8.51		3.0	0.49
100-42-5	Styrene	9.83		5.0	1.0
98-06-6	t-Butylbenzene	8.58		3.0	0.58
108-88-3	Toluene	8.80		2.0	0.39
156-60-5	trans-1,2-Dichloroethene	8.30		3.0	0.39
75-69-4	Trichlorofluoromethane	6.89		3.0	0.63

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-126
460-00-4	4-Bromofluorobenzene (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120
98-08-8	Trifluorotoluene (Surr)	101		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-312211/4
 Matrix: Water Lab File ID: 092419_0032.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 00:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	8.42		3.0	0.39
75-34-3	1,1-Dichloroethane	8.97		2.0	0.22
563-58-6	1,1-Dichloropropene	8.36		3.0	0.29
87-61-6	1,2,3-Trichlorobenzene	7.16		5.0	1.1
96-18-4	1,2,3-Trichloropropane	10.3		2.0	0.41
120-82-1	1,2,4-Trichlorobenzene	6.83		2.0	0.33
95-63-6	1,2,4-Trimethylbenzene	9.26		3.0	0.61
96-12-8	1,2-Dibromo-3-Chloropropane	9.00	J	10	1.8
95-50-1	1,2-Dichlorobenzene	8.87		2.0	0.46
78-87-5	1,2-Dichloropropane	8.54		1.0	0.18
108-67-8	1,3,5-Trimethylbenzene	9.89		3.0	0.55
541-73-1	1,3-Dichlorobenzene	7.86		2.0	0.18
142-28-9	1,3-Dichloropropane	8.94		2.0	0.35
594-20-7	2,2-Dichloropropane	8.35		3.0	0.32
78-93-3	2-Butanone	40.5		20	4.7
95-49-8	2-Chlorotoluene	10.5		3.0	0.51
106-43-4	4-Chlorotoluene	10.2		2.0	0.51
99-87-6	4-Isopropyltoluene	9.02		3.0	0.28
108-10-1	4-Methyl-2-pentanone	43.9		15	2.5
67-64-1	Acetone	29.7	J	50	7.8
108-86-1	Bromobenzene	10.5		2.0	0.43
74-97-5	Bromochloromethane	8.74		2.0	0.29
75-15-0	Carbon disulfide	7.89		3.0	0.53
56-23-5	Carbon tetrachloride	9.67		3.0	0.30
108-90-7	Chlorobenzene	8.86		2.0	0.44
75-00-3	Chloroethane	6.61		5.0	1.1
74-87-3	Chloromethane	6.68	J	20	5.4
156-59-2	cis-1,2-Dichloroethene	9.01		3.0	0.69
75-71-8	Dichlorodifluoromethane	5.93	J	10	2.3
100-41-4	Ethylbenzene	8.83		3.0	0.50
98-82-8	Isopropylbenzene	8.83		2.0	0.51
1634-04-4	Methyl tert-butyl ether	8.63		2.0	0.44
75-09-2	Methylene Chloride	9.56		5.0	1.4
179601-23-1	m-Xylene & p-Xylene	8.88		3.0	0.75
104-51-8	n-Butylbenzene	9.30		3.0	0.44
103-65-1	N-Propylbenzene	10.0		3.0	0.50

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-312211/4
 Matrix: Water Lab File ID: 092419_0032.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 09/25/2019 00:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 312211 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-47-6	o-Xylene	9.50		2.0	0.39
135-98-8	sec-Butylbenzene	9.23		3.0	0.49
100-42-5	Styrene	9.60		5.0	1.0
98-06-6	t-Butylbenzene	9.16		3.0	0.58
108-88-3	Toluene	8.82		2.0	0.39
156-60-5	trans-1,2-Dichloroethene	8.33		3.0	0.39
75-69-4	Trichlorofluoromethane	6.64		3.0	0.63

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120
98-08-8	Trifluorotoluene (Surr)	103		80-120

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA102 Start Date: 09/18/2019 11:07Analysis Batch Number: 311491 End Date: 09/18/2019 18:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-311491/1		09/18/2019 11:07	1	091819_0006.D	DB-VRX 0.25 (mm)
IC 580-311491/2		09/18/2019 11:32	1	091819_0007.D	DB-VRX 0.25 (mm)
IC 580-311491/3		09/18/2019 11:57	1	091819_0008.D	DB-VRX 0.25 (mm)
IC 580-311491/4		09/18/2019 12:21	1	091819_0009.D	DB-VRX 0.25 (mm)
IC 580-311491/5		09/18/2019 12:47	1	091819_0010.D	DB-VRX 0.25 (mm)
IC 580-311491/6		09/18/2019 13:11	1	091819_0011.D	DB-VRX 0.25 (mm)
ICIS 580-311491/7		09/18/2019 13:36	1	091819_0012.D	DB-VRX 0.25 (mm)
IC 580-311491/8		09/18/2019 14:01	1	091819_0013.D	DB-VRX 0.25 (mm)
IC 580-311491/9		09/18/2019 14:26	1	091819_0014.D	DB-VRX 0.25 (mm)
IC 580-311491/11		09/18/2019 16:24	1	091819_0016.D	DB-VRX 0.25 (mm)
ZZZZZ		09/18/2019 16:49	1		DB-VRX 0.25 (mm)
IC 580-311491/10		09/18/2019 17:14	1	091819_0018.D	DB-VRX 0.25 (mm)
ICV 580-311491/13		09/18/2019 18:03	1	091819_0020.D	DB-VRX 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA102 Start Date: 09/24/2019 23:20Analysis Batch Number: 312211 End Date: 09/25/2019 05:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-312211/1		09/24/2019 23:20	1	092419_0029.D	DB-VRX 0.25 (mm)
CCVIS 580-312211/2		09/24/2019 23:45	1	092419_0030.D	DB-VRX 0.25 (mm)
LCS 580-312211/3		09/25/2019 00:10	1	092419_0031.D	DB-VRX 0.25 (mm)
LCSD 580-312211/4		09/25/2019 00:34	1	092419_0032.D	DB-VRX 0.25 (mm)
CCVL 580-312211/5		09/25/2019 00:59	1		DB-VRX 0.25 (mm)
MB 580-312211/6		09/25/2019 01:24	1	092419_0034.D	DB-VRX 0.25 (mm)
ZZZZZ		09/25/2019 01:49	1		DB-VRX 0.25 (mm)
580-89096-7		09/25/2019 02:14	1	092419_0036.D	DB-VRX 0.25 (mm)
ZZZZZ		09/25/2019 02:39	1		DB-VRX 0.25 (mm)
ZZZZZ		09/25/2019 03:04	1		DB-VRX 0.25 (mm)
ZZZZZ		09/25/2019 03:28	1		DB-VRX 0.25 (mm)
580-89096-1		09/25/2019 03:53	1	092419_0040.D	DB-VRX 0.25 (mm)
580-89096-2		09/25/2019 04:18	1	092419_0041.D	DB-VRX 0.25 (mm)
580-89096-3		09/25/2019 04:43	1	092419_0042.D	DB-VRX 0.25 (mm)
580-89096-4		09/25/2019 05:08	1	092419_0043.D	DB-VRX 0.25 (mm)
580-89096-5		09/25/2019 05:32	1	092419_0044.D	DB-VRX 0.25 (mm)
580-89096-6		09/25/2019 05:57	1	092419_0045.D	DB-VRX 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Batch Number: 311491 Batch Start Date: 09/18/19 11:07 Batch Analyst: Ruslander, Amanda P

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	5X SUR/IS/TFT 00011	VOAMasterMix 00043	VOAMasterSEC 00035	
BFB 580-311491/1		8260C		5 mL	5 mL	2 uL			
IC 580-311491/2		8260C		5 mL	5 mL	2 uL	0.5 uL		
IC 580-311491/3		8260C		5 mL	5 mL	2 uL	1 uL		
IC 580-311491/4		8260C		5 mL	5 mL	2 uL	2 uL		
IC 580-311491/5		8260C		5 mL	5 mL	2 uL	5 uL		
IC 580-311491/6		8260C		5 mL	5 mL	2 uL	10 uL		
ICIS 580-311491/7		8260C		5 mL	5 mL	2 uL	20 uL		
IC 580-311491/8		8260C		5 mL	5 mL	2 uL	50 uL		
IC 580-311491/9		8260C		5 mL	5 mL	2 uL	75 uL		
IC 580-311491/10		8260C		5 mL	5 mL	2 uL	100 uL		
IC 580-311491/11		8260C		5 mL	5 mL	2 uL	150 uL		
ICV 580-311491/13		8260C		5 mL	5 mL	2 uL		20 uL	

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Batch Number: 312211 Batch Start Date: 09/24/19 23:20 Batch Analyst: Ruslander, Amanda P

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS/TFT 00011	VOAMasterMix 00043	
BFB 580-312211/1		8260C		5 mL	5 mL		2 uL		
CCVIS 580-312211/2		8260C		5 mL	5 mL		2 uL	20 uL	
LCS 580-312211/3		8260C		5 mL	5 mL		2 uL	10 uL	
LCS 580-312211/4		8260C		5 mL	5 mL		2 uL	10 uL	
MB 580-312211/6		8260C		5 mL	5 mL		2 uL		
580-89096-C-7	Trip Blank	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-89096-E-1	EQB-1-W-190911	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-89096-E-2	MW-8RR-W-190911	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-89096-E-3	MW-1R-W-190911	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-89096-E-4	MW-2R-W-190911	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-89096-F-5	MW-9-W-190911	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-89096-F-6	BD-1-W-190911	8260C	T	5 mL	5 mL	<2 SU	2 uL		

Batch Notes	
Vial Lot Number	0103701e

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8270D SIM

Semivolatile Organic Compounds
(GC/MS SIM) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89096-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): ZB-SV ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	TPHL #
MW-2R-W-190911	580-89096-4	54
	MB 580-311540/1-A	59
	LCS 580-311540/2-A	59
	LCSD 580-311540/3-A	59

TPHL = Terphenyl-d14

QC LIMITS
53-120

Column to be used to flag recovery values

FORM II 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 091919a005.D

Lab ID: LCS 580-311540/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1-Methylnaphthalene	4.00	2.03	51	35-120	
2-Methylnaphthalene	4.00	2.10	52	33-120	
Acenaphthene	4.00	2.25	56	42-120	
Acenaphthylene	4.00	2.48	62	42-120	
Anthracene	4.00	2.87	72	56-120	
Benzo[a]anthracene	4.00	3.49	87	61-129	
Benzo[a]pyrene	4.00	3.24	81	56-130	
Benzo[b]fluoranthene	4.00	3.18	80	53-133	
Benzo[g,h,i]perylene	4.00	3.19	80	55-127	
Benzo[k]fluoranthene	4.00	3.13	78	51-132	
Chrysene	4.00	2.90	72	47-126	
Dibenz(a,h)anthracene	4.00	3.29	82	60-133	
Fluoranthene	4.00	2.92	73	52-129	
Fluorene	4.00	2.56	64	49-120	
Indeno[1,2,3-cd]pyrene	4.00	3.60	90	56-135	
Naphthalene	4.00	1.92	48	36-120	
Phenanthrene	4.00	2.53	63	54-120	
Pyrene	4.00	2.78	70	50-127	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 091919a006.D
 Lab ID: LCSD 580-311540/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1-Methylnaphthalene	4.00	2.05	51	1	34	35-120	
2-Methylnaphthalene	4.00	2.11	53	1	30	33-120	
Acenaphthene	4.00	2.25	56	0	24	42-120	
Acenaphthylene	4.00	2.46	62	1	26	42-120	
Anthracene	4.00	2.92	73	2	29	56-120	
Benzo[a]anthracene	4.00	3.55	89	2	31	61-129	
Benzo[a]pyrene	4.00	3.26	81	1	27	56-130	
Benzo[b]fluoranthene	4.00	3.21	80	1	25	53-133	
Benzo[g,h,i]perylene	4.00	3.18	80	0	27	55-127	
Benzo[k]fluoranthene	4.00	3.05	76	3	25	51-132	
Chrysene	4.00	2.84	71	2	23	47-126	
Dibenz(a,h)anthracene	4.00	3.27	82	0	25	60-133	
Fluoranthene	4.00	2.95	74	1	32	52-129	
Fluorene	4.00	2.53	63	1	21	49-120	
Indeno[1,2,3-cd]pyrene	4.00	3.73	93	4	24	56-135	
Naphthalene	4.00	1.95	49	2	27	36-120	
Phenanthrene	4.00	2.58	64	2	21	54-120	
Pyrene	4.00	2.83	71	2	35	50-127	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab File ID: 091919a004.D Lab Sample ID: MB 580-311540/1-A
 Matrix: Water Date Extracted: 09/18/2019 10:16
 Instrument ID: TAC023 Date Analyzed: 09/19/2019 10:13
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-311540/2-A	091919a005. D	09/19/2019 10:39
	LCSD 580-311540/3-A	091919a006. D	09/19/2019 11:05
MW-2R-W-190911	580-89096-4	091919a009. D	09/19/2019 12:24

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab File ID: 013019b004.D DFTPP Injection Date: 01/30/2019
 Instrument ID: TAC023 DFTPP Injection Time: 17:57
 Analysis Batch No.: 293966

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	17.2
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	26.1
70	Less than 2.0 % of mass 69	0.1 (0.3) 1
127	10.0 - 80.0 % of mass 198	58.7
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.1
275	10.0 - 60.0 % of mass 198	30.2
365	Greater than 1.0 % of mass 198	4.4
441	Present but less than mass 443	18.8
442	Greater than 50.0 % of mass 198	115.2
443	15.0 - 24.0 % of mass 442	23.2 (20.1) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD13 580-293966/4	013019b005.D	01/30/2019	18:23
	STD12 580-293966/5	013019b006.D	01/30/2019	18:49
	STD11 580-293966/6	013019b007.D	01/30/2019	19:15
	STD10 580-293966/7	013019b008.D	01/30/2019	19:41
	STD9IS 580-293966/8	013019b009.D	01/30/2019	20:07
	STD8 580-293966/9	013019b010.D	01/30/2019	20:33
	STD7 580-293966/10	013019b011.D	01/30/2019	20:59
	STD6 580-293966/11	013019b012.D	01/30/2019	21:24
	STD5 580-293966/12	013019b013.D	01/30/2019	21:50
	STD4 580-293966/13	013019b014.D	01/30/2019	22:16
	STD3 580-293966/14	013019b015.D	01/30/2019	22:42
	STD2 580-293966/15	013019b016.D	01/30/2019	23:08
	STD1 580-293966/16	013019b017.D	01/30/2019	23:34
	ICV 580-293966/18	013019b019.D	01/31/2019	00:25

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab File ID: 091919a002.D DFTPP Injection Date: 09/19/2019
 Instrument ID: TAC023 DFTPP Injection Time: 08:36
 Analysis Batch No.: 311676

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	23.4
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	26.6
70	Less than 2.0 % of mass 69	0.1 (0.3) 1
127	10.0 - 80.0 % of mass 198	56.2
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.6
275	10.0 - 60.0 % of mass 198	28.0
365	Greater than 1.0 % of mass 198	4.4
441	Present but less than mass 443	17.5
442	Greater than 50.0 % of mass 198	102.5
443	15.0 - 24.0 % of mass 442	20.4 (19.9) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 580-311676/3	091919a003.D	09/19/2019	09:02
	MB 580-311540/1-A	091919a004.D	09/19/2019	10:13
	LCS 580-311540/2-A	091919a005.D	09/19/2019	10:39
	LCSD 580-311540/3-A	091919a006.D	09/19/2019	11:05
MW-2R-W-190911	580-89096-4	091919a009.D	09/19/2019	12:24

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Sample No.: STD9IS 580-293966/8 Date Analyzed: 01/30/2019 20:07
 Instrument ID: TAC023 GC Column: ZB-SV ID: 0.25 (mm)
 Lab File ID (Standard): 013019b009.D Heated Purge: (Y/N) N
 Calibration ID: 27371

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	415959	6.97	183117	8.46	312444	9.66
UPPER LIMIT	831918	7.47	366234	8.96	624888	10.16
LOWER LIMIT	207980	6.47	91559	7.96	156222	9.16
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 580-293966/18	418812	6.97	190528	8.47	318260	9.66

NPT = Naphthalene-d8
 ANT = Acenaphthene-d10
 PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Sample No.: STD9IS 580-293966/8 Date Analyzed: 01/30/2019 20:07
 Instrument ID: TAC023 GC Column: ZB-SV ID: 0.25 (mm)
 Lab File ID (Standard): 013019b009.D Heated Purge: (Y/N) N
 Calibration ID: 27371

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	269112	11.78	240624	13.02		
UPPER LIMIT	538224	12.28	481248	13.52		
LOWER LIMIT	134556	11.28	120312	12.52		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 580-293966/18	281648	11.78	250626	13.02		

CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Sample No.: CCVIS 580-311676/3 Date Analyzed: 09/19/2019 09:02
 Instrument ID: TAC023 GC Column: ZB-SV ID: 0.25 (mm)
 Lab File ID (Standard): 091919a003.D Heated Purge: (Y/N) N
 Calibration ID: 27371

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	564289	6.93	257619	8.45	435900	9.64	
UPPER LIMIT	1128578	7.43	515238	8.95	871800	10.14	
LOWER LIMIT	282145	6.43	128810	7.95	217950	9.14	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 580-311540/1-A	557043	6.93	254471	8.45	425611	9.64	
LCS 580-311540/2-A	552594	6.93	253802	8.45	446574	9.63	
LCSD 580-311540/3-A	566927	6.93	259650	8.45	448751	9.64	
580-89096-4	MW-2R-W-190911	576256	6.93	297256	8.45	485612	9.64

NPT = Naphthalene-d8
 ANT = Acenaphthene-d10
 PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Sample No.: CCVIS 580-311676/3 Date Analyzed: 09/19/2019 09:02
 Instrument ID: TAC023 GC Column: ZB-SV ID: 0.25 (mm)
 Lab File ID (Standard): 091919a003.D Heated Purge: (Y/N) N
 Calibration ID: 27371

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	332123	11.75	311959	12.88		
UPPER LIMIT	664246	12.25	623918	13.38		
LOWER LIMIT	166062	11.25	155980	12.38		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 580-311540/1-A	335220	11.76	319605	12.89		
LCS 580-311540/2-A	344604	11.75	317536	12.88		
LCSD 580-311540/3-A	355879	11.75	334146	12.88		
580-89096-4	MW-2R-W-190911	357336	11.75	351230	12.88	

CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-2R-W-190911 Lab Sample ID: 580-89096-4
 Matrix: Water Lab File ID: 091919a009.D
 Analysis Method: 8270D SIM Date Collected: 09/11/2019 15:00
 Extract. Method: 3510C Date Extracted: 09/18/2019 10:16
 Sample wt/vol: 237.1(mL) Date Analyzed: 09/19/2019 12:24
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 311676 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
90-12-0	1-Methylnaphthalene	0.17		0.11	0.020
91-57-6	2-Methylnaphthalene	0.058	J	0.21	0.041
83-32-9	Acenaphthene	ND		0.11	0.015
208-96-8	Acenaphthylene	ND		0.053	0.0095
120-12-7	Anthracene	ND		0.11	0.023
56-55-3	Benzo[a]anthracene	ND		0.053	0.015
50-32-8	Benzo[a]pyrene	ND		0.11	0.012
205-99-2	Benzo[b]fluoranthene	ND		0.053	0.012
191-24-2	Benzo[g,h,i]perylene	ND		0.053	0.013
207-08-9	Benzo[k]fluoranthene	ND		0.053	0.013
218-01-9	Chrysene	ND		0.11	0.017
53-70-3	Dibenz(a,h)anthracene	ND		0.11	0.027
206-44-0	Fluoranthene	ND		0.21	0.053
86-73-7	Fluorene	ND		0.11	0.018
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.053	0.015
91-20-3	Naphthalene	1.8		0.11	0.033
85-01-8	Phenanthrene	ND		0.11	0.033
129-00-0	Pyrene	ND		0.11	0.035

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14	54		53-120

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 293966

SDG No.: _____

Instrument ID: TAC023 GC Column: ZB-SV ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2019 18:23 Calibration End Date: 01/30/2019 23:34 Calibration ID: 27371

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 580-293966/16	013019b017.D
Level 2	STD2 580-293966/15	013019b016.D
Level 3	STD3 580-293966/14	013019b015.D
Level 4	STD4 580-293966/13	013019b014.D
Level 5	STD5 580-293966/12	013019b013.D
Level 6	STD6 580-293966/11	013019b012.D
Level 7	STD7 580-293966/10	013019b011.D
Level 8	STD8 580-293966/9	013019b010.D
Level 9	STD9IS 580-293966/8	013019b009.D
Level 10	STD10 580-293966/7	013019b008.D
Level 11	STD11 580-293966/6	013019b007.D
Level 12	STD12 580-293966/5	013019b006.D
Level 13	STD13 580-293966/4	013019b005.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Naphthalene	1.2274	1.1677	1.1308	1.2338	1.1756	Ave	1.1173		0.7000	9.6	15.0						
	1.1468	1.1582	1.1132	1.0932	0.9684												
	0.8754	++++	++++														
2-Methylnaphthalene	0.8064	0.7545	0.7141	0.7729	0.7429	Ave	0.7327		0.4000	6.2	15.0						
	0.7288	0.7461	0.7387	0.7449	0.6523												
	0.6583	++++	++++														
1-Methylnaphthalene	0.7407	0.6883	0.6595	0.7366	0.7084	Ave	0.6841		0.1000	6.1	15.0						
	0.6879	0.6990	0.6901	0.6877	0.6160												
	0.6108	++++	++++														
Acenaphthylene	2.3047	2.1589	2.1811	2.3066	2.2041	Ave	2.1811		0.9000	6.2	15.0						
	2.2265	2.2501	2.2513	2.2478	1.9971												
	1.8634	++++	++++														
Acenaphthene	1.7402	1.6108	1.5848	1.6817	1.6677	Ave	1.5834		0.9000	7.4	15.0						
	1.6311	1.6113	1.5900	1.5551	1.3551												
	1.3894	++++	++++														
Fluorene	1.6330	1.5294	1.5162	1.6506	1.6532	Ave	1.5855		0.9000	5.1	15.0						
	1.6413	1.6452	1.6473	1.6208	1.4476												
	1.4556	++++	++++														
Pentachlorophenol	++++	++++	++++	0.0125	0.0696	Qual	-4.438	0.1974	0.0000202	0.0500	13.6		0.9950		0.9900		
	0.1283	0.1653	0.2012	0.2470	0.2128												
	0.2805	++++	++++														

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 293966

SDG No.: _____

Instrument ID: TAC023 GC Column: ZB-SV ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2019 18:23 Calibration End Date: 01/30/2019 23:34 Calibration ID: 27371

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Phenanthrene	1.5662	1.4262	1.3642	1.4842	1.4522	Ave		1.3576		0.7000	10.7		15.0				
	1.3671	1.3872	1.3461	1.3324	1.1655												
	1.0421	++++	++++														
Anthracene	1.1930	1.1937	1.1914	1.3920	1.3686	Ave		1.2621		0.7000	7.8		15.0				
	1.3029	1.3388	1.3124	1.3320	1.1681												
	1.0903	++++	++++														
Fluoranthene	1.4736	1.2848	1.2327	1.3587	1.3184	Ave		1.2861		0.6000	7.7		15.0				
	1.2662	1.3150	1.3125	1.3314	1.1412												
	1.1130	++++	++++														
Pyrene	1.5460	1.3891	1.2772	1.4053	1.3676	Ave		1.3546		0.6000	6.7		15.0				
	1.2992	1.3493	1.3363	1.3738	1.2021												
	++++	++++	++++														
Benzo[a]anthracene	1.3083	1.1168	1.1013	1.1609	1.0967	Ave		1.1397		0.8000	5.8		15.0				
	1.0864	1.1525	1.1348	1.1864	1.0685												
	1.1241	++++	++++														
Chrysene	1.6943	1.5366	1.5729	1.6689	1.6090	Ave		1.5156		0.7000	10.3		15.0				
	1.6092	1.5710	1.5091	1.4332	1.2398												
	1.2278	++++	++++														
Benzo[b]fluoranthene	1.2937	1.1119	1.1937	1.2704	1.3130	Ave		1.2881		0.7000	6.6		15.0				
	1.3389	1.3766	1.3667	1.3906	1.2194												
	1.2940	++++	++++														
Benzo[k]fluoranthene	1.6076	1.3765	1.4287	1.6109	1.6262	Ave		1.5759		0.7000	7.1		15.0				
	1.6108	1.7466	1.6790	1.6432	1.4653												
	1.5400	++++	++++														
Benzo[a]pyrene	1.2358	1.1125	1.1721	1.3458	1.1831	Ave		1.3049		0.7000	8.7		15.0				
	1.3945	1.4241	1.4058	1.4190	1.2811												
	1.3798	++++	++++														
Indeno[1,2,3-cd]pyrene	0.8897	0.9494	0.8140	1.1297	0.9941	Qua2	-0.115	0.9942	0.0000604	0.5000	8.7			0.9930		0.9900	
	0.9652	0.9927	1.0215	1.0949	0.9570												
	1.1451	++++	++++														
Dibenz(a,h)anthracene	++++	0.8727	0.8166	1.2700	1.1245	Lin1	-1.411	1.2722		0.4000	11.5			0.9980		0.9900	
	1.1440	1.2145	1.2413	1.2854	1.1800												
	1.3202	++++	++++														
Benzo[g,h,i]perylene	1.2260	1.1856	1.1090	1.4777	1.4225	Lin1	-0.378	1.4408		0.5000	8.3			0.9980		0.9900	
	1.4238	1.5275	1.4597	1.4966	1.3314												
	1.4748	++++	++++														
2-methylnaphthalene-d10	0.6866	0.6469	0.6059	0.6670	0.6394	Ave		0.6427			3.6		15.0				
	0.6301	0.6408	0.6335	0.6341	++++												
	++++	++++	++++														

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 293966

SDG No.: _____

Instrument ID: TAC023 GC Column: ZB-SV ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2019 18:23 Calibration End Date: 01/30/2019 23:34 Calibration ID: 27371

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
	LVL 11	LVL 12	LVL 13														
2,4,6-Tribromophenol	+++++	+++++	0.1262	0.1763	0.1558	Qua2	-0.331	0.1936	0.0000189		7.6			0.9950		0.9900	
	0.1733	0.1934	0.2075	0.2188	0.2074												
	0.2287	+++++	+++++														
Fluoranthene-d10 (Surr)	+++++	1.2084	1.0712	1.1852	1.1100	Ave		1.1033			5.5		15.0				
	1.0502	1.0737	1.0654	1.0625	+++++												
	+++++	+++++	+++++														
Terphenyl-d14	+++++	0.7801	0.7256	0.7890	0.7770	Ave		0.7572			3.2		15.0				
	0.7403	0.7657	0.7606	0.7774	0.7278												
	0.7281	+++++	+++++														

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 293966

SDG No.: _____

Instrument ID: TAC023 GC Column: ZB-SV ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2019 18:23 Calibration End Date: 01/30/2019 23:34 Calibration ID: 27371

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 580-293966/16	013019b017.D
Level 2	STD2 580-293966/15	013019b016.D
Level 3	STD3 580-293966/14	013019b015.D
Level 4	STD4 580-293966/13	013019b014.D
Level 5	STD5 580-293966/12	013019b013.D
Level 6	STD6 580-293966/11	013019b012.D
Level 7	STD7 580-293966/10	013019b011.D
Level 8	STD8 580-293966/9	013019b010.D
Level 9	STD9IS 580-293966/8	013019b009.D
Level 10	STD10 580-293966/7	013019b008.D
Level 11	STD11 580-293966/6	013019b007.D
Level 12	STD12 580-293966/5	013019b006.D
Level 13	STD13 580-293966/4	013019b005.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
Naphthalene	NPT	Ave	4580	8705	21343	46074	89419	1.00	2.00	5.00	10.0	20.0
			223302	455108	896348	2273545	4321899	50.0	100	200	500	1000
			7481361	++++	++++			2000	++++	++++		
2-Methylnaphthalene	NPT	Ave	3009	5625	13478	28865	56507	1.00	2.00	5.00	10.0	20.0
			141903	293160	594792	1549342	2911196	50.0	100	200	500	1000
			5625915	++++	++++			2000	++++	++++		
1-Methylnaphthalene	NPT	Ave	2764	5131	12448	27508	53882	1.00	2.00	5.00	10.0	20.0
			133944	274685	555675	1430297	2748935	50.0	100	200	500	1000
			5219828	++++	++++			2000	++++	++++		
Acenaphthylene	ANT	Ave	3503	6681	16719	35998	70155	1.00	2.00	5.00	10.0	20.0
			182701	380553	779787	2058077	3970241	50.0	100	200	500	1000
			7080871	++++	++++			2000	++++	++++		
Acenaphthene	ANT	Ave	2645	4985	12148	26245	53080	1.00	2.00	5.00	10.0	20.0
			133846	272503	550726	1423825	2693937	50.0	100	200	500	1000
			5279876	++++	++++			2000	++++	++++		
Fluorene	ANT	Ave	2482	4733	11622	25759	52618	1.00	2.00	5.00	10.0	20.0
			134685	278252	570567	1483968	2877912	50.0	100	200	500	1000
			5531248	++++	++++			2000	++++	++++		
Pentachlorophenol	ANT	Qual	++++	++++	++++	391	4433	++++	++++	++++	20.0	40.0
			21054	55898	139346	452355	846135	100	200	400	1000	2000
			2131599	++++	++++			4000	++++	++++		
Phenanthrene	PHN	Ave	3874	7112	17230	37946	75505	1.00	2.00	5.00	10.0	20.0
			191699	395246	803076	2081424	3951479	50.0	100	200	500	1000
			6848085	++++	++++			2000	++++	++++		

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 293966

SDG No.: _____

Instrument ID: TAC023 GC Column: ZB-SV ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2019 18:23 Calibration End Date: 01/30/2019 23:34 Calibration ID: 27371

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
Anthracene	PHN	Ave	2951	5953	15047	35590	71159	1.00	2.00	5.00	10.0	20.0
			182696	381432	782959	2080917	3960359	50.0	100	200	500	1000
			7165154	++++	++++			2000	++++	++++		
Fluoranthene	PHN	Ave	3645	6407	15569	34738	68549	1.00	2.00	5.00	10.0	20.0
			177551	374652	783030	2079900	3869162	50.0	100	200	500	1000
			7314281	++++	++++			2000	++++	++++		
Pyrene	PHN	Ave	3824	6927	16131	35930	71104	1.00	2.00	5.00	10.0	20.0
			182177	384434	797200	2146155	4075476	50.0	100	200	500	1000
			++++	++++	++++			++++	++++	++++		
Benzo[a]anthracene	CRY	Ave	2423	4054	10242	21646	42768	1.00	2.00	5.00	10.0	20.0
			115015	256569	551767	1596336	3198644	50.0	100	200	500	1000
			6602558	++++	++++			2000	++++	++++		
Chrysene	CRY	Ave	3138	5578	14627	31120	62746	1.00	2.00	5.00	10.0	20.0
			170362	349718	733787	1928472	3711656	50.0	100	200	500	1000
			7211455	++++	++++			2000	++++	++++		
Benzo[b]fluoranthene	PRY	Ave	1966	3681	10642	21836	43770	1.00	2.00	5.00	10.0	20.0
			129199	271452	593278	1673084	3262733	50.0	100	200	500	1000
			6742003	++++	++++			2000	++++	++++		
Benzo[k]fluoranthene	PRY	Ave	2443	4557	12737	27689	54212	1.00	2.00	5.00	10.0	20.0
			155439	344418	728847	1976929	3920722	50.0	100	200	500	1000
			8023682	++++	++++			2000	++++	++++		
Benzo[a]pyrene	PRY	Ave	1878	3683	10450	23133	39439	1.00	2.00	5.00	10.0	20.0
			134567	280816	610216	1707195	3427866	50.0	100	200	500	1000
			7188862	++++	++++			2000	++++	++++		
Indeno[1,2,3-cd]pyrene	PRY	Qua2	1352	3143	7257	19418	33140	1.00	2.00	5.00	10.0	20.0
			93140	195752	443419	1317236	2560730	50.0	100	200	500	1000
			5966450	++++	++++			2000	++++	++++		
Dibenz(a,h)anthracene	PRY	Lin1	++++	2889	7280	21829	37486	++++	2.00	5.00	10.0	20.0
			110390	239484	538814	1546543	3157308	50.0	100	200	500	1000
			6878580	++++	++++			2000	++++	++++		
Benzo[g,h,i]perylene	PRY	Lin1	1863	3925	9887	25399	47420	1.00	2.00	5.00	10.0	20.0
			137398	301222	633644	1800537	3562552	50.0	100	200	500	1000
			7684235	++++	++++			2000	++++	++++		
2-methylnaphthalene-d10	NPT	Ave	2562	4823	11436	24910	48637	1.00	2.00	5.00	10.0	20.0
			122693	251795	510089	1318728	++++	50.0	100	200	500	++++
			++++	++++	++++			++++	++++	++++		
2,4,6-Tribromophenol	ANT	Qua2	++++	++++	967	2752	4960	++++	++++	5.00	10.0	20.0
			14220	32710	71868	200364	412379	50.0	100	200	500	1000
			869194	++++	++++			2000	++++	++++		

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 293966

SDG No.: _____

Instrument ID: TAC023 GC Column: ZB-SV ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2019 18:23 Calibration End Date: 01/30/2019 23:34 Calibration ID: 27371

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
			LVL 11	LVL 12	LVL 13		LVL 11	LVL 12	LVL 13			
Fluoranthene-d10 (Surr)	PHN	Ave	+++++	6026	13530	30303	57711	+++++	2.00	5.00	10.0	20.0
			147268	305901	635604	1659850	+++++	50.0	100	200	500	+++++
			+++++	+++++	+++++			+++++	+++++	+++++		
Terphenyl-d14	PHN	Ave	+++++	3890	9165	20173	40399	+++++	2.00	5.00	10.0	20.0
			103812	218146	453780	1214523	2467330	50.0	100	200	500	1000
			4784558	+++++	+++++			2000	+++++	+++++		

Curve Type Legend:

<p>Ave = Average ISTD Lin1 = Linear 1/conc ISTD Qua1 = Quadratic 1/conc ISTD Qua2 = Quadratic 1/conc^2 ISTD</p>
--

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 293966

SDG No.: _____

Instrument ID: TAC023 GC Column: ZB-SV ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2019 18:23 Calibration End Date: 01/30/2019 23:34 Calibration ID: 27371

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 580-293966/16	013019b017.D
Level 2	STD2 580-293966/15	013019b016.D
Level 3	STD3 580-293966/14	013019b015.D
Level 4	STD4 580-293966/13	013019b014.D
Level 5	STD5 580-293966/12	013019b013.D
Level 6	STD6 580-293966/11	013019b012.D
Level 7	STD7 580-293966/10	013019b011.D
Level 8	STD8 580-293966/9	013019b010.D
Level 9	STD9IS 580-293966/8	013019b009.D
Level 10	STD10 580-293966/7	013019b008.D
Level 11	STD11 580-293966/6	013019b007.D
Level 12	STD12 580-293966/5	013019b006.D
Level 13	STD13 580-293966/4	013019b005.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 # LVL 13 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 # LVL 12 #	LVL 1 LVL 7 LVL 13	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6 LVL 12
Naphthalene	9.9 +++++					+++++	50					
2-Methylnaphthalene	10.1 +++++					+++++	50					
1-Methylnaphthalene	8.3 +++++					+++++	50					
Acenaphthylene	5.7 +++++					+++++	50					
Acenaphthene	9.9 +++++					+++++	50					
Fluorene	3.0 +++++					+++++	50					
Pentachlorophenol	+++++	+++++	+++++	18.5		+++++				50		
Phenanthrene	15.4 +++++					+++++	50					

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 293966

SDG No.: _____

Instrument ID: TAC023 GC Column: ZB-SV ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2019 18:23 Calibration End Date: 01/30/2019 23:34 Calibration ID: 27371

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #	LVL 12 #	LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	LVL 12
Anthracene	-5.5					+++++	50					
	+++++											
Fluoranthene	14.6					+++++	50					
	+++++											
Pyrene	14.1				+++++	+++++	50					
	+++++											
Benzo[a]anthracene	14.8					+++++	50					
	+++++											
Chrysene	11.8					+++++	50					
	+++++											
Benzo[b]fluoranthene	0.4					+++++	50					
	+++++											
Benzo[k]fluoranthene	2.0					+++++	50					
	+++++											
Benzo[a]pyrene	-5.3					+++++	50					
	+++++											
Indeno[1,2,3-cd]pyrene	1.1					+++++	50					
	+++++											
Dibenz(a,h)anthracene	+++++	24.0				+++++		50				
	+++++											
Benzo[g,h,i]perylene	11.3					+++++	50					
	+++++											
2-methylnaphthalene-d10	6.8			+++++	+++++	+++++	50					
	+++++											
2,4,6-Tribromophenol	+++++	+++++	-0.7			+++++			50			
	+++++											

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 293966

SDG No.: _____

Instrument ID: TAC023 GC Column: ZB-SV ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2019 18:23 Calibration End Date: 01/30/2019 23:34 Calibration ID: 27371

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #	LVL 12 #	LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	LVL 12
Fluoranthene-d10 (Surr)	+++++	9.5		+++++	+++++	+++++		50				
Terphenyl-d14	+++++	3.0				+++++		50				
	+++++											

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Lab Sample ID (1): CCVIS 580-311676/3 Instrument ID (1): TAC023

GC Column (1): ZB-SV ID: 0.25 (mm) Date Analyzed (1): 09/19/2019 09:02

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	12.57	44.30

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: ICV 580-293966/18 Calibration Date: 01/31/2019 00:25
 Instrument ID: TAC023 Calib Start Date: 01/30/2019 18:23
 GC Column: ZB-SV ID: 0.25 (mm) Calib End Date: 01/30/2019 23:34
 Lab File ID: 013019b019.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.117	0.9893	0.7000	885	1000	-11.5	30.0
2-Methylnaphthalene	Ave	0.7327	0.6722	0.4000	917	1000	-8.3	30.0
1-Methylnaphthalene	Ave	0.6841	0.6371	0.1000	931	1000	-6.9	30.0
Acenaphthylene	Ave	2.181	2.000	0.9000	917	1000	-8.3	30.0
Acenaphthene	Ave	1.583	1.385	0.9000	875	1000	-12.5	30.0
Fluorene	Ave	1.585	1.480	0.9000	933	1000	-6.7	30.0
Pentachlorophenol	Qual		0.2128	0.0500	1830	2000	-8.3	30.0
Phenanthrene	Ave	1.358	1.189	0.7000	876	1000	-12.4	30.0
Anthracene	Ave	1.262	1.199	0.7000	950	1000	-5.0	30.0
Fluoranthene	Ave	1.286	1.201	0.6000	934	1000	-6.6	30.0
Pyrene	Ave	1.355	1.218	0.6000	899	1000	-10.1	30.0
Benzo[a]anthracene	Ave	1.140	1.049	0.8000	921	1000	-7.9	30.0
Chrysene	Ave	1.516	1.307	0.7000	862	1000	-13.8	30.0
Benzo[b]fluoranthene	Ave	1.288	1.204	0.7000	935	1000	-6.5	30.0
Benzo[k]fluoranthene	Ave	1.576	1.513	0.7000	960	1000	-4.0	30.0
Benzo[a]pyrene	Ave	1.305	1.305	0.7000	1000	1000	0.0	30.0
Indeno[1,2,3-cd]pyrene	Qua2		0.998	0.5000	949	1000	-5.1	30.0
Dibenz(a,h)anthracene	Lin1		1.204	0.4000	947	1000	-5.3	30.0
Benzo[g,h,i]perylene	Lin1		1.368	0.5000	949	1000	-5.1	30.0
2-methylnaphthalene-d10	Ave	0.6427	0.5834		908	1000	-9.2	30.0
2,4,6-Tribromophenol	Qua2		0.1911		908	1000	-9.2	30.0
Fluoranthene-d10 (Surr)	Ave	1.103	0.9885		896	1000	-10.4	30.0
Terphenyl-d14	Ave	0.7572	0.7119		940	1000	-6.0	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCVIS 580-311676/3 Calibration Date: 09/19/2019 09:02
 Instrument ID: TAC023 Calib Start Date: 01/30/2019 18:23
 GC Column: ZB-SV ID: 0.25 (mm) Calib End Date: 01/30/2019 23:34
 Lab File ID: 091919a003.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.117	0.9540	0.7000	427	500	-14.6	20.0
2-Methylnaphthalene	Ave	0.7327	0.7082	0.4000	483	500	-3.3	20.0
1-Methylnaphthalene	Ave	0.6841	0.6037	0.1000	441	500	-11.7	20.0
Acenaphthylene	Ave	2.181	1.957	0.9000	449	500	-10.3	20.0
Acenaphthene	Ave	1.583	1.338	0.9000	422	500	-15.5	20.0
Fluorene	Ave	1.585	1.380	0.9000	435	500	-13.0	20.0
Pentachlorophenol	Qual		0.2515	0.0500	1160	1000	15.9	20.0
Phenanthrene	Ave	1.358	1.107	0.7000	408	500	-18.4	20.0
Anthracene	Ave	1.262	1.143	0.7000	453	500	-9.5	20.0
Fluoranthene	Ave	1.286	1.126	0.6000	438	500	-12.5	20.0
Pyrene	Ave	1.355	1.141	0.6000	421	500	-15.7	20.0
Benzo[a]anthracene	Ave	1.140	1.147	0.8000	503	500	0.7	20.0
Chrysene	Ave	1.516	1.317	0.7000	434	500	-13.1	20.0
Benzo[b]fluoranthene	Ave	1.288	1.191	0.7000	462	500	-7.5	20.0
Benzo[k]fluoranthene	Ave	1.576	1.445	0.7000	458	500	-8.3	20.0
Benzo[a]pyrene	Ave	1.305	1.192	0.7000	457	500	-8.6	20.0
Indeno[1,2,3-cd]pyrene	Qua2		1.040	0.5000	507	500	1.5	20.0
Dibenz(a,h)anthracene	Lin1		1.201	0.4000	473	500	-5.4	20.0
Benzo[g,h,i]perylene	Lin1		1.349	0.5000	468	500	-6.3	20.0
Terphenyl-d14	Ave	0.7572	0.6130		405	500	-19.0	20.0

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-311540/1-A
 Matrix: Water Lab File ID: 091919a004.D
 Analysis Method: 8270D SIM Date Collected: _____
 Extract. Method: 3510C Date Extracted: 09/18/2019 10:16
 Sample wt/vol: 250 (mL) Date Analyzed: 09/19/2019 10:13
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 311676 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
90-12-0	1-Methylnaphthalene	ND		0.10	0.019
91-57-6	2-Methylnaphthalene	ND		0.20	0.039
83-32-9	Acenaphthene	ND		0.10	0.014
208-96-8	Acenaphthylene	ND		0.050	0.0090
120-12-7	Anthracene	ND		0.10	0.022
56-55-3	Benzo[a]anthracene	ND		0.050	0.014
50-32-8	Benzo[a]pyrene	ND		0.10	0.011
205-99-2	Benzo[b]fluoranthene	ND		0.050	0.011
191-24-2	Benzo[g,h,i]perylene	ND		0.050	0.012
207-08-9	Benzo[k]fluoranthene	ND		0.050	0.012
218-01-9	Chrysene	ND		0.10	0.016
53-70-3	Dibenz(a,h)anthracene	ND		0.10	0.026
206-44-0	Fluoranthene	ND		0.20	0.050
86-73-7	Fluorene	ND		0.10	0.017
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.014
91-20-3	Naphthalene	ND		0.10	0.031
85-01-8	Phenanthrene	ND		0.10	0.031
129-00-0	Pyrene	ND		0.10	0.033

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14	59		53-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-311540/2-A
 Matrix: Water Lab File ID: 091919a005.D
 Analysis Method: 8270D SIM Date Collected: _____
 Extract. Method: 3510C Date Extracted: 09/18/2019 10:16
 Sample wt/vol: 250 (mL) Date Analyzed: 09/19/2019 10:39
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 311676 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
90-12-0	1-Methylnaphthalene	2.03		0.10	0.019
91-57-6	2-Methylnaphthalene	2.10		0.20	0.039
83-32-9	Acenaphthene	2.25		0.10	0.014
208-96-8	Acenaphthylene	2.48		0.050	0.0090
120-12-7	Anthracene	2.87		0.10	0.022
56-55-3	Benzo[a]anthracene	3.49		0.050	0.014
50-32-8	Benzo[a]pyrene	3.24		0.10	0.011
205-99-2	Benzo[b]fluoranthene	3.18		0.050	0.011
191-24-2	Benzo[g,h,i]perylene	3.19		0.050	0.012
207-08-9	Benzo[k]fluoranthene	3.13		0.050	0.012
218-01-9	Chrysene	2.90		0.10	0.016
53-70-3	Dibenz(a,h)anthracene	3.29		0.10	0.026
206-44-0	Fluoranthene	2.92		0.20	0.050
86-73-7	Fluorene	2.56		0.10	0.017
193-39-5	Indeno[1,2,3-cd]pyrene	3.60		0.050	0.014
91-20-3	Naphthalene	1.92		0.10	0.031
85-01-8	Phenanthrene	2.53		0.10	0.031
129-00-0	Pyrene	2.78		0.10	0.033

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14	59		53-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-311540/3-A
 Matrix: Water Lab File ID: 091919a006.D
 Analysis Method: 8270D SIM Date Collected: _____
 Extract. Method: 3510C Date Extracted: 09/18/2019 10:16
 Sample wt/vol: 250 (mL) Date Analyzed: 09/19/2019 11:05
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 311676 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
90-12-0	1-Methylnaphthalene	2.05		0.10	0.019
91-57-6	2-Methylnaphthalene	2.11		0.20	0.039
83-32-9	Acenaphthene	2.25		0.10	0.014
208-96-8	Acenaphthylene	2.46		0.050	0.0090
120-12-7	Anthracene	2.92		0.10	0.022
56-55-3	Benzo[a]anthracene	3.55		0.050	0.014
50-32-8	Benzo[a]pyrene	3.26		0.10	0.011
205-99-2	Benzo[b]fluoranthene	3.21		0.050	0.011
191-24-2	Benzo[g,h,i]perylene	3.18		0.050	0.012
207-08-9	Benzo[k]fluoranthene	3.05		0.050	0.012
218-01-9	Chrysene	2.84		0.10	0.016
53-70-3	Dibenz(a,h)anthracene	3.27		0.10	0.026
206-44-0	Fluoranthene	2.95		0.20	0.050
86-73-7	Fluorene	2.53		0.10	0.017
193-39-5	Indeno[1,2,3-cd]pyrene	3.73		0.050	0.014
91-20-3	Naphthalene	1.95		0.10	0.031
85-01-8	Phenanthrene	2.58		0.10	0.031
129-00-0	Pyrene	2.83		0.10	0.033

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14	59		53-120

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC023 Start Date: 01/30/2019 17:57Analysis Batch Number: 293966 End Date: 01/31/2019 00:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 580-293966/3		01/30/2019 17:57	1	013019b004.D	ZB-SV 0.25 (mm)
STD13 580-293966/4 IC		01/30/2019 18:23	1	013019b005.D	ZB-SV 0.25 (mm)
STD12 580-293966/5 IC		01/30/2019 18:49	1	013019b006.D	ZB-SV 0.25 (mm)
STD11 580-293966/6 IC		01/30/2019 19:15	1	013019b007.D	ZB-SV 0.25 (mm)
STD10 580-293966/7 IC		01/30/2019 19:41	1	013019b008.D	ZB-SV 0.25 (mm)
STD9IS 580-293966/8 ICIS		01/30/2019 20:07	1	013019b009.D	ZB-SV 0.25 (mm)
STD8 580-293966/9 IC		01/30/2019 20:33	1	013019b010.D	ZB-SV 0.25 (mm)
STD7 580-293966/10 IC		01/30/2019 20:59	1	013019b011.D	ZB-SV 0.25 (mm)
STD6 580-293966/11 IC		01/30/2019 21:24	1	013019b012.D	ZB-SV 0.25 (mm)
STD5 580-293966/12 IC		01/30/2019 21:50	1	013019b013.D	ZB-SV 0.25 (mm)
STD4 580-293966/13 IC		01/30/2019 22:16	1	013019b014.D	ZB-SV 0.25 (mm)
STD3 580-293966/14 IC		01/30/2019 22:42	1	013019b015.D	ZB-SV 0.25 (mm)
STD2 580-293966/15 IC		01/30/2019 23:08	1	013019b016.D	ZB-SV 0.25 (mm)
STD1 580-293966/16 IC		01/30/2019 23:34	1	013019b017.D	ZB-SV 0.25 (mm)
ICV 580-293966/18		01/31/2019 00:25	1	013019b019.D	ZB-SV 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC023 Start Date: 09/19/2019 08:36

Analysis Batch Number: 311676 End Date: 09/19/2019 13:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 580-311676/2		09/19/2019 08:36	1	091919a002.D	ZB-SV 0.25 (mm)
CCVIS 580-311676/3		09/19/2019 09:02	1	091919a003.D	ZB-SV 0.25 (mm)
MB 580-311540/1-A		09/19/2019 10:13	1	091919a004.D	ZB-SV 0.25 (mm)
LCS 580-311540/2-A		09/19/2019 10:39	1	091919a005.D	ZB-SV 0.25 (mm)
LCSD 580-311540/3-A		09/19/2019 11:05	1	091919a006.D	ZB-SV 0.25 (mm)
ZZZZZ		09/19/2019 11:32	1		ZB-SV 0.25 (mm)
ZZZZZ		09/19/2019 11:58	1		ZB-SV 0.25 (mm)
580-89096-4		09/19/2019 12:24	1	091919a009.D	ZB-SV 0.25 (mm)
ZZZZZ		09/19/2019 12:51	1		ZB-SV 0.25 (mm)
ZZZZZ		09/19/2019 13:17	1		ZB-SV 0.25 (mm)
ZZZZZ		09/19/2019 13:43	1		ZB-SV 0.25 (mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Batch Number: 311540 Batch Start Date: 09/18/19 10:16 Batch Analyst: Coy, Nickolas D

Batch Method: 3510C Batch End Date: 09/18/19 16:31

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 580-311540/1		3510C, 8270D SIM				250 mL	1 mL	7.0 SU	2.0 SU
LCS 580-311540/2		3510C, 8270D SIM				250 mL	1 mL	7.0 SU	2.0 SU
LCS 580-311540/3		3510C, 8270D SIM				250 mL	1 mL	7.0 SU	2.0 SU
580-89096-L-4	MW-2R-W-190911	3510C, 8270D SIM	T	00421.67 g	00184.53 g	237.1 mL	1 mL	7.0 SU	2.0 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	8270flspk 00253	8270waterSurr 00083				
MB 580-311540/1		3510C, 8270D SIM			100 uL				
LCS 580-311540/2		3510C, 8270D SIM		50 uL	100 uL				
LCS 580-311540/3		3510C, 8270D SIM		50 uL	100 uL				
580-89096-L-4	MW-2R-W-190911	3510C, 8270D SIM	T		100 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Batch Number: 311540 Batch Start Date: 09/18/19 10:16 Batch Analyst: Coy, Nickolas DBatch Method: 3510C Batch End Date: 09/18/19 16:31

Batch Notes	
Acid Used for pH Adjustment ID	2430698
Balance ID	SEA225
Batch Comment	Vialed by: PRO
Analyst ID - Concentration	PRO
Concentration 1 Corrected Temperature	70-75 Degrees C
Concentration 2 Corrected Temperature	17.8 Degrees C
Equipment ID - Concentration 1	Steam Bath 1
Equipment ID - Concentration 2	Turbovap 5
Analyst ID - Extraction	PRO
Filter ID	2416954
Method/Fraction	3510C_LVI/ 8270D_SIM
Na2SO4 ID	2400382
pH Indicator ID	6901002 pH 0.0-6.0/6901003 pH 4.0-10.0
Pipette/Syringe/Dispenser ID	MP3
Prep Solvent ID	2450659 DCM
Prep Solvent Volume Used	120 mL
Residual Chlorine Indicator ID	fisher cat#14-860
Analyst ID - Spike Analyst	PRO
Analyst ID - Spike Witness Analyst	TL
Sufficient Volume for Batch QC	MB, LCS, LCSD
Thermometer ID - Concentration 1	661200
Concentration 1 Uncorrected Temperature	70-75 Degrees C
Concentration 2 Uncorrected Temperature	20 Degrees C
Vial Lot Number	19049222

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method AK101

Alaska - Gasoline Range Organics
(GC) by Method AK101

FORM II
GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): RTX-VRX ID: 0.45 (mm)

Client Sample ID	Lab Sample ID	TFT1 #	BFB1 #
EQB-1-W-190911	580-89096-1	94	98
MW-8RR-W-190911	580-89096-2	100	92
MW-1R-W-190911	580-89096-3	102	99
MW-2R-W-190911	580-89096-4	114	126
MW-9-W-190911	580-89096-5	110	98
BD-1-W-190911	580-89096-6	113	97
Trip Blank	580-89096-7	98	97
	MB 580-311446/9	123	98
	LCS 580-311446/10	103	103
	LCSD 580-311446/11	103	101

TFT = Trifluorotoluene (Surr)
BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
50-150
50-150

Column to be used to flag recovery values

FORM II AK101

FORM III
 GASOLINE RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 09171908.D

Lab ID: LCS 580-311446/10 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Gasoline Range Organics (GRO) -C6-C10	1.00	0.942	94	77-123	

Column to be used to flag recovery and RPD values

FORM III
 GASOLINE RANGE ORGANICS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 09171909.D

Lab ID: LCSD 580-311446/11 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Gasoline Range Organics (GRO) -C6-C10	1.00	0.972	97	3	20	77-123	

Column to be used to flag recovery and RPD values

FORM IV
GASOLINE RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: MB 580-311446/9
 Matrix: Water Date Extracted: 09/17/2019 15:13
 Lab File ID: (1) 09171907.D Lab File ID: (2) _____
 Date Analyzed: (1) 09/17/2019 15:13 Date Analyzed: (2) _____
 Instrument ID: (1) SEA047 Instrument ID: (2) _____
 GC Column: (1) RTX-VRX ID: 0.45 (mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 580-311446/10	09/17/2019 15:44	
	LCSD 580-311446/11	09/17/2019 16:14	
EQB-1-W-190911	580-89096-1	09/17/2019 17:45	
Trip Blank	580-89096-7	09/17/2019 18:16	
MW-8RR-W-190911	580-89096-2	09/17/2019 19:16	
MW-1R-W-190911	580-89096-3	09/17/2019 19:47	
MW-2R-W-190911	580-89096-4	09/17/2019 20:48	
MW-9-W-190911	580-89096-5	09/17/2019 21:18	
BD-1-W-190911	580-89096-6	09/17/2019 21:49	

FORM VIII
GASOLINE RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Sample No.: STD1000 580-307784/8 Date Analyzed: 08/07/2019 15:38
 Instrument ID: SEA047 GC Column: RTX-VRX ID: 0.45 (mm)
 Lab File ID (Standard): 08071908.D Heated Purge: (Y/N) N
 Calibration ID: 28085

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFT	BFB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				6.12	9.70	
UPPER LIMIT				6.17	9.75	
LOWER LIMIT				6.07	9.65	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD1000 580-307784/8 ICRT		08/07/2019 15:38	08071908.D	6.12	9.70	
ICV 580-307784/13		08/07/2019 18:10	08071913.D	6.12	9.70	

TFT = Trifluorotoluene (Surr)
 BFB = 4-Bromofluorobenzene (Surr)

TFT RT Limit = ± 0.05 minutes of surrogate RT
 BFB RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
GASOLINE RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Sample No.: CCVRT 580-311446/8 Date Analyzed: 09/17/2019 14:43
 Instrument ID: SEA047 GC Column: RTX-VRX ID: 0.45 (mm)
 Lab File ID (Standard): 09171906.D Heated Purge: (Y/N) N
 Calibration ID: 28085

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFT	BFB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				6.12	9.70	
UPPER LIMIT				6.17	9.75	
LOWER LIMIT				6.07	9.65	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-311446/8		09/17/2019 14:43	09171906.D	6.12	9.70	
MB 580-311446/9		09/17/2019 15:13	09171907.D	6.11	9.70	
LCS 580-311446/10		09/17/2019 15:44	09171908.D	6.12	9.70	
LCSD 580-311446/11		09/17/2019 16:14	09171909.D	6.12	9.70	
580-89096-1	EQB-1-W-190911	09/17/2019 17:45	09171912.D	6.12	9.70	
580-89096-7	Trip Blank	09/17/2019 18:16	09171913.D	6.11	9.70	
580-89096-2	MW-8RR-W-190911	09/17/2019 19:16	09171915.D	6.12	9.70	
580-89096-3	MW-1R-W-190911	09/17/2019 19:47	09171916.D	6.11	9.70	
CCV 580-311446/19		09/17/2019 20:17	09171917.D	6.12	9.70	
580-89096-4	MW-2R-W-190911	09/17/2019 20:48	09171918.D	6.11	9.70	
580-89096-5	MW-9-W-190911	09/17/2019 21:18	09171919.D	6.11	9.70	
580-89096-6	BD-1-W-190911	09/17/2019 21:49	09171920.D	6.12	9.70	
CCV 580-311446/30		09/18/2019 01:51	09171928.D	6.12	9.70	

TFT = Trifluorotoluene (Surr)
 BFB = 4-Bromofluorobenzene (Surr)

TFT RT Limit = ± 0.05 minutes of surrogate RT
 BFB RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: EQB-1-W-190911 Lab Sample ID: 580-89096-1
 Matrix: Water Lab File ID: 09171912.D
 Analysis Method: AK101 Date Collected: 09/11/2019 12:30
 Sample wt/vol: 5 (mL) Date Analyzed: 09/17/2019 17:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311446 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	94		50-150
460-00-4	4-Bromofluorobenzene (Surr)	98		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-8RR-W-190911 Lab Sample ID: 580-89096-2
 Matrix: Water Lab File ID: 09171915.D
 Analysis Method: AK101 Date Collected: 09/11/2019 13:10
 Sample wt/vol: 5 (mL) Date Analyzed: 09/17/2019 19:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311446 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	100		50-150
460-00-4	4-Bromofluorobenzene (Surr)	92		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-1R-W-190911 Lab Sample ID: 580-89096-3
 Matrix: Water Lab File ID: 09171916.D
 Analysis Method: AK101 Date Collected: 09/11/2019 14:10
 Sample wt/vol: 5 (mL) Date Analyzed: 09/17/2019 19:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311446 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	102		50-150
460-00-4	4-Bromofluorobenzene (Surr)	99		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-2R-W-190911 Lab Sample ID: 580-89096-4
 Matrix: Water Lab File ID: 09171918.D
 Analysis Method: AK101 Date Collected: 09/11/2019 15:00
 Sample wt/vol: 5 (mL) Date Analyzed: 09/17/2019 20:48
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311446 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.25		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	114		50-150
460-00-4	4-Bromofluorobenzene (Surr)	126		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-9-W-190911 Lab Sample ID: 580-89096-5
 Matrix: Water Lab File ID: 09171919.D
 Analysis Method: AK101 Date Collected: 09/11/2019 16:10
 Sample wt/vol: 5 (mL) Date Analyzed: 09/17/2019 21:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311446 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	110		50-150
460-00-4	4-Bromofluorobenzene (Surr)	98		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: BD-1-W-190911 Lab Sample ID: 580-89096-6
 Matrix: Water Lab File ID: 09171920.D
 Analysis Method: AK101 Date Collected: 09/11/2019 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 09/17/2019 21:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311446 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	113		50-150
460-00-4	4-Bromofluorobenzene (Surr)	97		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: Trip Blank Lab Sample ID: 580-89096-7
 Matrix: Water Lab File ID: 09171913.D
 Analysis Method: AK101 Date Collected: 09/11/2019 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 09/17/2019 18:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311446 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	98		50-150
460-00-4	4-Bromofluorobenzene (Surr)	97		50-150

FORM VI
 GASOLINE RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
 RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 307784

SDG No.: _____

Instrument ID: SEA047 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2019 13:36 Calibration End Date: 08/07/2019 17:39 Calibration ID: 28085

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-307784/12	08071912.D
Level 2	STD100 580-307784/11	08071911.D
Level 3	STD250 580-307784/10	08071910.D
Level 4	STD500 580-307784/9	08071909.D
Level 5	STD1000 580-307784/8	08071908.D
Level 6	STD5000 580-307784/7	08071907.D
Level 7	STD10000 580-307784/6	08071906.D
Level 8	STD15000 580-307784/5	08071905.D
Level 9	STD25000 580-307784/4	08071904.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Gasoline Range Organics (GRO)-C6-C10	6.857	6.857	6.857	6.857	6.857	6.857	6.857	6.857	6.857		3.397 - 10.317	6.857
Trifluorotoluene (Surr)	6.123	6.123	6.120	6.117	6.120	6.120	6.120	+++++	+++++		6.017 - 6.217	6.120
4-Bromofluorobenzene (Surr)	9.703	9.707	9.703	9.700	9.703	9.700	+++++	+++++	+++++		9.600 - 9.800	9.703

FORM VI
 GASOLINE RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
 CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 307784

SDG No.: _____

Instrument ID: SEA047 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2019 13:36 Calibration End Date: 08/07/2019 17:39 Calibration ID: 28085

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-307784/12	08071912.D
Level 2	STD100 580-307784/11	08071911.D
Level 3	STD250 580-307784/10	08071910.D
Level 4	STD500 580-307784/9	08071909.D
Level 5	STD1000 580-307784/8	08071908.D
Level 6	STD5000 580-307784/7	08071907.D
Level 7	STD10000 580-307784/6	08071906.D
Level 8	STD15000 580-307784/5	08071905.D
Level 9	STD25000 580-307784/4	08071904.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Gasoline Range Organics (GRO)-C6-C10	12038 7405.3 7018.0	10491 6938.2	8445.9 7014.3	8009.6 7307.3	Lin1	294512.097	7072.33229			6.2			1.0000			0.9900
Trifluorotoluene (Surr)	9118.2 8225.4 ++++	8268.2 8293.6	8325.8 8172.3	7925.4 ++++	Ave		8332.71451			25.00	4.5	25.0				
4-Bromofluorobenzene (Surr)	5732.5 5914.6 ++++	5817.8 7214.3	5916.2 ++++	5615.7 ++++	Ave		6035.15667			25.00	9.8	25.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
 GASOLINE RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 307784

SDG No.: _____

Instrument ID: SEA047 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2019 13:36 Calibration End Date: 08/07/2019 17:39 Calibration ID: 28085

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-307784/12	08071912.D
Level 2	STD100 580-307784/11	08071911.D
Level 3	STD250 580-307784/10	08071910.D
Level 4	STD500 580-307784/9	08071909.D
Level 5	STD1000 580-307784/8	08071908.D
Level 6	STD5000 580-307784/7	08071907.D
Level 7	STD10000 580-307784/6	08071906.D
Level 8	STD15000 580-307784/5	08071905.D
Level 9	STD25000 580-307784/4	08071904.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Gasoline Range Organics (GRO)-C6-C10	Lin1	601881	1049146	2111487	4004795	7405266	50.0	100	250	500	1000
		34690981	70143084	109609904	175449772		5000	10000	15000	25000	
Trifluorotoluene (Surr)	Ave	182292	330597	499349	633778	822210	20.0	40.0	60.0	80.0	100.0
		1243549	1633802	++++	++++		150	200	++++	++++	
4-Bromofluorobenzene (Surr)	Ave	573249	581779	591617	561566	591458	100	100	100	100	100
		721425	++++	++++	++++		100	++++	++++	++++	

Curve Type Legend:

Ave = Average
 Lin1 = Linear 1/conc

FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: ICV 580-307784/13 Calibration Date: 08/07/2019 18:10
 Instrument ID: SEA047 Calib Start Date: 08/07/2019 13:36
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/07/2019 17:39
 Lab File ID: 08071913.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline Range Organics (GRO)-C6-C10	Lin1		6929		938	1000	-6.2	25.0
Trifluorotoluene (Surr)	Ave	8333	8556		61.6	60.0	2.7	25.0
4-Bromofluorobenzene (Surr)	Ave	6035	5916		98.0	100	-2.0	25.0

FORM VII
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: ICV 580-307784/13 Calibration Date: 08/07/2019 18:10
 Instrument ID: SEA047 Calib Start Date: 08/07/2019 13:36
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/07/2019 17:39
 Lab File ID: 08071913.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.86	3.40	10.32
Trifluorotoluene (Surr)	6.12	6.02	6.22
4-Bromofluorobenzene (Surr)	9.70	9.60	9.80

FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-311446/8 Calibration Date: 09/17/2019 14:43
 Instrument ID: SEA047 Calib Start Date: 08/07/2019 13:36
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/07/2019 17:39
 Lab File ID: 09171906.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline Range Organics (GRO)-C6-C10	Lin1		6618		894	1000	-10.6	25.0
Trifluorotoluene (Surr)	Ave	8333	8427		60.7	60.0	1.1	25.0
4-Bromofluorobenzene (Surr)	Ave	6035	5779		95.8	100	-4.2	25.0

FORM VII
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-311446/8 Calibration Date: 09/17/2019 14:43
 Instrument ID: SEA047 Calib Start Date: 08/07/2019 13:36
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/07/2019 17:39
 Lab File ID: 09171906.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.87	3.39	10.34
Trifluorotoluene (Surr)	6.12	6.02	6.22
4-Bromofluorobenzene (Surr)	9.70	9.60	9.80

FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-311446/19 Calibration Date: 09/17/2019 20:17
 Instrument ID: SEA047 Calib Start Date: 08/07/2019 13:36
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/07/2019 17:39
 Lab File ID: 09171917.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline Range Organics (GRO)-C6-C10	Lin1		6817		922	1000	-7.8	25.0
Trifluorotoluene (Surr)	Ave	8333	8500		61.2	60.0	2.0	25.0
4-Bromofluorobenzene (Surr)	Ave	6035	6172		102	100	2.3	25.0

FORM VII
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-311446/19 Calibration Date: 09/17/2019 20:17
 Instrument ID: SEA047 Calib Start Date: 08/07/2019 13:36
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/07/2019 17:39
 Lab File ID: 09171917.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.87	3.39	10.34
Trifluorotoluene (Surr)	6.12	6.01	6.21
4-Bromofluorobenzene (Surr)	9.70	9.60	9.80

FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-311446/30 Calibration Date: 09/18/2019 01:51
 Instrument ID: SEA047 Calib Start Date: 08/07/2019 13:36
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/07/2019 17:39
 Lab File ID: 09171928.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline Range Organics (GRO)-C6-C10	Lin1		6645		898	1000	-10.2	25.0
Trifluorotoluene (Surr)	Ave	8333	8424		60.6	60.0	1.1	25.0
4-Bromofluorobenzene (Surr)	Ave	6035	5871		97.3	100	-2.7	25.0

FORM VII
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-311446/30 Calibration Date: 09/18/2019 01:51
 Instrument ID: SEA047 Calib Start Date: 08/07/2019 13:36
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/07/2019 17:39
 Lab File ID: 09171928.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.87	3.39	10.34
Trifluorotoluene (Surr)	6.12	6.01	6.21
4-Bromofluorobenzene (Surr)	9.70	9.60	9.80

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-311446/9
 Matrix: Water Lab File ID: 09171907.D
 Analysis Method: AK101 Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 09/17/2019 15:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311446 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	123		50-150
460-00-4	4-Bromofluorobenzene (Surr)	98		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-311446/10
 Matrix: Water Lab File ID: 09171908.D
 Analysis Method: AK101 Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 09/17/2019 15:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311446 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.942		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	103		50-150
460-00-4	4-Bromofluorobenzene (Surr)	103		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-311446/11
 Matrix: Water Lab File ID: 09171909.D
 Analysis Method: AK101 Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 09/17/2019 16:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 311446 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.972		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	103		50-150
460-00-4	4-Bromofluorobenzene (Surr)	101		50-150

GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA047 Start Date: 08/07/2019 13:06

Analysis Batch Number: 307784 End Date: 08/07/2019 19:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-307784/3		08/07/2019 13:06	1		RTX-VRX 0.45 (mm)
STD25000 580-307784/4 IC		08/07/2019 13:36	1	08071904.D	RTX-VRX 0.45 (mm)
STD15000 580-307784/5 IC		08/07/2019 14:07	1	08071905.D	RTX-VRX 0.45 (mm)
STD10000 580-307784/6 IC		08/07/2019 14:37	1	08071906.D	RTX-VRX 0.45 (mm)
STD5000 580-307784/7 IC		08/07/2019 15:08	1	08071907.D	RTX-VRX 0.45 (mm)
STD1000 580-307784/8 ICRT		08/07/2019 15:38	1	08071908.D	RTX-VRX 0.45 (mm)
STD500 580-307784/9 IC		08/07/2019 16:08	1	08071909.D	RTX-VRX 0.45 (mm)
STD250 580-307784/10 IC		08/07/2019 16:39	1	08071910.D	RTX-VRX 0.45 (mm)
STD100 580-307784/11 IC		08/07/2019 17:09	1	08071911.D	RTX-VRX 0.45 (mm)
STD50 580-307784/12 IC		08/07/2019 17:39	1	08071912.D	RTX-VRX 0.45 (mm)
ICV 580-307784/13		08/07/2019 18:10	1	08071913.D	RTX-VRX 0.45 (mm)
ZZZZZ		08/07/2019 18:40	1		RTX-VRX 0.45 (mm)
ZZZZZ		08/07/2019 19:10	1		RTX-VRX 0.45 (mm)
ZZZZZ		08/07/2019 19:41	1		RTX-VRX 0.45 (mm)

GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA047 Start Date: 09/17/2019 14:13

Analysis Batch Number: 311446 End Date: 09/18/2019 03:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-311446/7		09/17/2019 14:13	1	09171905.D	RTX-VRX 0.45 (mm)
CCVRT 580-311446/8		09/17/2019 14:43	1	09171906.D	RTX-VRX 0.45 (mm)
MB 580-311446/9		09/17/2019 15:13	1	09171907.D	RTX-VRX 0.45 (mm)
LCS 580-311446/10		09/17/2019 15:44	1	09171908.D	RTX-VRX 0.45 (mm)
LCSD 580-311446/11		09/17/2019 16:14	1	09171909.D	RTX-VRX 0.45 (mm)
ZZZZZ		09/17/2019 16:44	1		RTX-VRX 0.45 (mm)
580-89096-1		09/17/2019 17:45	1	09171912.D	RTX-VRX 0.45 (mm)
580-89096-7		09/17/2019 18:16	1	09171913.D	RTX-VRX 0.45 (mm)
580-89096-2		09/17/2019 19:16	1	09171915.D	RTX-VRX 0.45 (mm)
580-89096-3		09/17/2019 19:47	1	09171916.D	RTX-VRX 0.45 (mm)
CCV 580-311446/19		09/17/2019 20:17	1	09171917.D	RTX-VRX 0.45 (mm)
580-89096-4		09/17/2019 20:48	1	09171918.D	RTX-VRX 0.45 (mm)
580-89096-5		09/17/2019 21:18	1	09171919.D	RTX-VRX 0.45 (mm)
580-89096-6		09/17/2019 21:49	1	09171920.D	RTX-VRX 0.45 (mm)
CCV 580-311446/30		09/18/2019 01:51	1	09171928.D	RTX-VRX 0.45 (mm)
CCV 580-311446/34		09/18/2019 03:53	1		RTX-VRX 0.45 (mm)

GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Batch Number: 307784 Batch Start Date: 08/07/19 13:06 Batch Analyst: Vaughan, Dmitra C

Batch Method: AK101 Batch End Date: 08/14/19 14:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	BFBGRO ARCHON 00034	GRO BTEXBlend 00010	GRO_LCS 00054	Methanol 1L 00032
STD25000 580-307784/4 IC		AK101		5 mL	5 mL	1 uL		1250 uL	1250 uL
STD15000 580-307784/5 IC		AK101		5 mL	5 mL	1 uL		750 uL	1750 uL
STD10000 580-307784/6 IC		AK101		5 mL	5 mL	1 uL		500 uL	2000 uL
STD5000 580-307784/7 IC		AK101		5 mL	5 mL	1 uL		250 uL	2250 uL
STD1000 580-307784/8 ICRT		AK101		5 mL	5 mL	1 uL		50 uL	2450 uL
STD500 580-307784/9 IC		AK101		5 mL	5 mL	1 uL		25 uL	2475 uL
STD250 580-307784/10 IC		AK101		5 mL	5 mL	1 uL		12.5 uL	2500 uL
STD100 580-307784/11 IC		AK101		5 mL	5 mL	1 uL		5 uL	2500 uL
STD50 580-307784/12 IC		AK101		5 mL	5 mL	1 uL		2.5 uL	2500 uL
ICV 580-307784/13		AK101		5 mL	5 mL	1 uL	50 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00037				
STD25000 580-307784/4 IC		AK101		1 uL					
STD15000 580-307784/5 IC		AK101		1 uL					
STD10000 580-307784/6 IC		AK101		50 uL					
STD5000 580-307784/7 IC		AK101		37.5 uL					
STD1000 580-307784/8 ICRT		AK101		25 uL					
STD500 580-307784/9 IC		AK101		20 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Batch Number: 307784 Batch Start Date: 08/07/19 13:06 Batch Analyst: Vaughan, Dmitra C

Batch Method: AK101 Batch End Date: 08/14/19 14:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00037				
STD250 580-307784/10 IC		AK101		15 uL					
STD100 580-307784/11 IC		AK101		10 uL					
STD50 580-307784/12 IC		AK101		5 uL					
ICV 580-307784/13		AK101			2500 uL				

Batch Notes	
Pipette/Syringe/Dispenser ID	C25I, B50M, B100S, A500V, A1000X, C2500J
Vial Lot Number	0103701E

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Batch Number: 311446 Batch Start Date: 09/17/19 14:13 Batch Analyst: Limwiroj, Thanyawan 1

Batch Method: AK101 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFBGRO ARCHON 00034	GRO_LCS 00055	RT_GRO_CUS 00021
RTC 580-311446/7		AK101		5 mL	5 mL		1 uL		22 uL
CCVRT 580-311446/8		AK101		5 mL	5 mL		1 uL	25 uL	
MB 580-311446/9		AK101		5 mL	5 mL		1 uL		
LCS 580-311446/10		AK101		5 mL	5 mL		1 uL	25 uL	
LCSD 580-311446/11		AK101		5 mL	5 mL		1 uL	25 uL	
580-89096-C-1	EQB-1-W-190911	AK101	T	5 mL	5 mL	<2 SU	1 uL		
580-89096-A-7	Trip Blank	AK101	T	5 mL	5 mL	<2 SU	1 uL		
580-89096-C-2	MW-8RR-W-190911	AK101	T	5 mL	5 mL	<2 SU	1 uL		
580-89096-C-3	MW-1R-W-190911	AK101	T	5 mL	5 mL	<2 SU	1 uL		
CCV 580-311446/19		AK101		5 mL	5 mL		1 uL	25 uL	
580-89096-C-4	MW-2R-W-190911	AK101	T	5 mL	5 mL	<2 SU	1 uL		
580-89096-C-5	MW-9-W-190911	AK101	T	5 mL	5 mL	<2 SU	1 uL		
580-89096-C-6	BD-1-W-190911	AK101	T	5 mL	5 mL	<2 SU	1 uL		
CCV 580-311446/30		AK101		5 mL	5 mL		1 uL	25 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00039				
RTC 580-311446/7		AK101			1250 uL				
CCVRT 580-311446/8		AK101			1250 uL				
MB 580-311446/9		AK101		10.75 uL					
LCS 580-311446/10		AK101			1250 uL				
LCSD 580-311446/11		AK101			1250 uL				
580-89096-C-1	EQB-1-W-190911	AK101	T	10.75 uL					
580-89096-A-7	Trip Blank	AK101	T	10.75 uL					
580-89096-C-2	MW-8RR-W-190911	AK101	T	10.75 uL					
580-89096-C-3	MW-1R-W-190911	AK101	T	10.75 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Batch Number: 311446 Batch Start Date: 09/17/19 14:13 Batch Analyst: Limwiroj, Thanyawan 1

Batch Method: AK101 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00039			
CCV 580-311446/19		AK101			1250 uL			
580-89096-C-4	MW-2R-W-190911	AK101	T	10.75 uL				
580-89096-C-5	MW-9-W-190911	AK101	T	10.75 uL				
580-89096-C-6	BD-1-W-190911	AK101	T	10.75 uL				
CCV 580-311446/30		AK101			1250 uL			

Batch Notes	
pH Indicator ID	pH 0.0-6.0 lot#6901002
Vial Lot Number	Vial lot #0103701E

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8011

**EDB, DBCP, and 1,2,3-TCP (GC) by
Method 8011**

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): ZB-624short ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	12DBP1 #
EQB-1-W-190911	580-89096-1	111
MW-8RR-W-190911	580-89096-2	94
MW-1R-W-190911	580-89096-3	109
MW-2R-W-190911	580-89096-4	106
MW-9-W-190911	580-89096-5	107
BD-1-W-190911	580-89096-6	163 X
Trip Blank	580-89096-7	109
	MB 580-312350/2-A	109
	LCS 580-312350/3-A	113
	LCSD 580-312350/4-A	117
	LLCS 580-312350/5-A	115

12DBP = 1,2-Dibromopropane

QC LIMITS
60-140

Column to be used to flag recovery values

FORM II 8011

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 46I092619a018.D

Lab ID: LCS 580-312350/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,2,3-Trichloropropane	0.0571	0.0479	84	60-140	
Ethylene Dibromide	0.0571	0.0645	113	60-140	

Column to be used to flag recovery and RPD values

FORM III
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 46I092619a019.D
 Lab ID: LCS D 580-312350/4-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS D CONCENTRATION (ug/L)	LCS D % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,2,3-Trichloropropane	0.0571	0.0475	83	1	20	60-140	
Ethylene Dibromide	0.0571	0.0637	111	1	20	60-140	

Column to be used to flag recovery and RPD values

FORM III
GC SEMI VOA LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 46I092619a020.D

Lab ID: LLCS 580-312350/5-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
1,2,3-Trichloropropane	0.0114	0.00985 J	86	60-140	
Ethylene Dibromide	0.0114	0.0108	94	60-140	

Column to be used to flag recovery and RPD values

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: MB 580-312350/2-A
 Matrix: Water Date Extracted: 09/25/2019 20:09
 Lab File ID: (1) 46I092619a017.D Lab File ID: (2) 46I092619a017.D
 Date Analyzed: (1) 09/26/2019 16:47 Date Analyzed: (2) 09/26/2019 16:47
 Instrument ID: (1) TAC046 Instrument ID: (2) TAC046
 GC Column: (1) ZB-624short ID: 0.18 (mm) GC Column: (2) RTX-VRX ID: 0.45 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE	
		ANALYZED 1	ANALYZED 2
	LCS 580-312350/3-A	09/26/2019 17:04	09/26/2019 17:04
	LCSD 580-312350/4-A	09/26/2019 17:22	09/26/2019 17:22
	LLCS 580-312350/5-A	09/26/2019 17:38	09/26/2019 17:38
EQB-1-W-190911	580-89096-1	09/26/2019 17:54	09/26/2019 17:54
MW-8RR-W-190911	580-89096-2	09/26/2019 18:10	09/26/2019 18:10
MW-1R-W-190911	580-89096-3	09/26/2019 18:27	09/26/2019 18:27
MW-2R-W-190911	580-89096-4	09/26/2019 18:43	09/26/2019 18:43
MW-9-W-190911	580-89096-5	09/26/2019 18:59	09/26/2019 18:59
BD-1-W-190911	580-89096-6	09/26/2019 19:15	09/26/2019 19:15
Trip Blank	580-89096-7	09/26/2019 19:48	09/26/2019 19:48

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-312350/3-A
 Instrument ID (1): TAC046 Instrument ID (2): TAC046
 Date Analyzed (1): 09/26/2019 17:04 Date Analyzed (2): 09/26/2019 17:04
 GC Column (1): ZB-624short ID: 0.18(mm) GC Column (2): RTX-VRX ID: 0.45(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Ethylene Dibromide	1		4.79	4.76	4.82	0.0645		12.5
	2		4.75	4.72	4.78	0.0569		
1,2,3-Trichloropropane	1		5.49	5.46	5.52	0.0479		5.3
	2		5.35	5.32	5.38	0.0455		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-312350/4-A
 Instrument ID (1): TAC046 Instrument ID (2): TAC046
 Date Analyzed (1): 09/26/2019 17:22 Date Analyzed (2): 09/26/2019 17:22
 GC Column (1): ZB-624short ID: 0.18(mm) GC Column (2): RTX-VRX ID: 0.45(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Ethylene Dibromide	1		4.79	4.76	4.82	0.0637		4.3
	2		4.75	4.72	4.78	0.0610		
1,2,3-Trichloropropane	1		5.49	5.46	5.52	0.0475		11.3
	2		5.36	5.32	5.38	0.0424		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LLCS 580-312350/5-A
 Instrument ID (1): TAC046 Instrument ID (2): TAC046
 Date Analyzed (1): 09/26/2019 17:38 Date Analyzed (2): 09/26/2019 17:38
 GC Column (1): ZB-624short ID: 0.18(mm) GC Column (2): RTX-VRX ID: 0.45(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Ethylene Dibromide	1		4.79	4.76	4.82	0.0108		52.6
	2		4.75	4.72	4.78	0.0185		
1,2,3-Trichloropropane	1		5.49	5.46	5.52	0.00985		7.0
	2		5.35	5.32	5.38	0.0106		

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: EQB-1-W-190911 Lab Sample ID: 580-89096-1
 Matrix: Water Lab File ID: 46I092619a021.D
 Analysis Method: 8011 Date Collected: 09/11/2019 12:30
 Extraction Method: 8011 Date Extracted: 09/25/2019 20:09
 Sample wt/vol: 36(mL) Date Analyzed: 09/26/2019 17:54
 Con. Extract Vol.: 2(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-624short ID: 0.18(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	ND		0.029	0.0078
106-93-4	Ethylene Dibromide	ND		0.0097	0.0019

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	111		60-140

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-8RR-W-190911 Lab Sample ID: 580-89096-2
 Matrix: Water Lab File ID: 46I092619a022.D
 Analysis Method: 8011 Date Collected: 09/11/2019 13:10
 Extraction Method: 8011 Date Extracted: 09/25/2019 20:09
 Sample wt/vol: 36.2 (mL) Date Analyzed: 09/26/2019 18:10
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	ND		0.029	0.0077
106-93-4	Ethylene Dibromide	ND		0.0097	0.0019

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	94		60-140

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-1R-W-190911 Lab Sample ID: 580-89096-3
 Matrix: Water Lab File ID: 46I092619a023.D
 Analysis Method: 8011 Date Collected: 09/11/2019 14:10
 Extraction Method: 8011 Date Extracted: 09/25/2019 20:09
 Sample wt/vol: 36.3 (mL) Date Analyzed: 09/26/2019 18:27
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	ND		0.029	0.0077
106-93-4	Ethylene Dibromide	ND		0.0096	0.0019

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	109		60-140

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-2R-W-190911 Lab Sample ID: 580-89096-4
 Matrix: Water Lab File ID: 46I092619a024.D
 Analysis Method: 8011 Date Collected: 09/11/2019 15:00
 Extraction Method: 8011 Date Extracted: 09/25/2019 20:09
 Sample wt/vol: 36.4 (mL) Date Analyzed: 09/26/2019 18:43
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	ND		0.029	0.0077
106-93-4	Ethylene Dibromide	ND		0.0096	0.0019

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	106		60-140

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-9-W-190911 Lab Sample ID: 580-89096-5
 Matrix: Water Lab File ID: 46I092619a025.D
 Analysis Method: 8011 Date Collected: 09/11/2019 16:10
 Extraction Method: 8011 Date Extracted: 09/25/2019 20:09
 Sample wt/vol: 36.3 (mL) Date Analyzed: 09/26/2019 18:59
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	ND		0.029	0.0077
106-93-4	Ethylene Dibromide	ND		0.0096	0.0019

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	107		60-140

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: BD-1-W-190911 Lab Sample ID: 580-89096-6
 Matrix: Water Lab File ID: 46I092619a026.D
 Analysis Method: 8011 Date Collected: 09/11/2019 00:00
 Extraction Method: 8011 Date Extracted: 09/25/2019 20:09
 Sample wt/vol: 36.2 (mL) Date Analyzed: 09/26/2019 19:15
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	ND		0.029	0.0077
106-93-4	Ethylene Dibromide	ND		0.0097	0.0019

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	163	X	60-140

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: Trip Blank Lab Sample ID: 580-89096-7
 Matrix: Water Lab File ID: 46I092619a028.D
 Analysis Method: 8011 Date Collected: 09/11/2019 00:00
 Extraction Method: 8011 Date Extracted: 09/25/2019 20:09
 Sample wt/vol: 36.3 (mL) Date Analyzed: 09/26/2019 19:48
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	ND		0.029	0.0077
106-93-4	Ethylene Dibromide	ND		0.0096	0.0019

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	109		60-140

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311558

SDG No.: _____

Instrument ID: TAC046 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 13:10 Calibration End Date: 09/18/2019 15:23 Calibration ID: 28238

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-311558/3	46I091819a005.D
Level 2	IC 580-311558/4	46I091819a006.D
Level 3	IC 580-311558/5	46I091819a007.D
Level 4	IC 580-311558/6	46I091819a008.D
Level 5	IC 580-311558/7	46I091819a009.D
Level 6	ICIS 580-311558/8	46I091819a010.D
Level 7	IC 580-311558/9	46I091819a011.D
Level 8	IC 580-311558/10	46I091819a012.D
Level 9	IC 580-311558/11	46I091819a013.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	RT WINDOW	AVG RT
Ethylene Dibromide	4.793	4.791	4.792	4.791	4.790	4.790	4.791	4.791	4.791	4.762 - 4.822	4.791
1,2,3-Trichloropropane	+++++	+++++	5.487	5.489	5.487	5.487	5.488	5.488	5.487	5.457 - 5.517	5.488
1,2-Dibromo-3-Chloropropane	6.609	6.605	6.606	6.603	6.605	6.604	6.604	6.605	6.605	6.576 - 6.636	6.605
1,2-Dibromopropane	5.056	5.057	5.056	5.056	5.055	5.055	5.056	5.056	5.056	5.026 - 5.086	5.056

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311558

SDG No.: _____

Instrument ID: TAC046 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 13:10 Calibration End Date: 09/18/2019 15:23 Calibration ID: 28238

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-311558/3	46I091819a005.D
Level 2	IC 580-311558/4	46I091819a006.D
Level 3	IC 580-311558/5	46I091819a007.D
Level 4	IC 580-311558/6	46I091819a008.D
Level 5	IC 580-311558/7	46I091819a009.D
Level 6	ICIS 580-311558/8	46I091819a010.D
Level 7	IC 580-311558/9	46I091819a011.D
Level 8	IC 580-311558/10	46I091819a012.D
Level 9	IC 580-311558/11	46I091819a013.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Ethylene Dibromide	5280179 2842795 2202546	4396611 2487038	4316973 2355210	3792352 2255702	Lin1	186259.650	2222413.32			17.2			0.9980			0.9900
1,2,3-Trichloropropane	++++ 247980 180682	++++ 224730	179648 220439	234234 196176	LinF		185950.561			20.9			0.9940			0.9900
1,2-Dibromo-3-Chloropropane	3406968 3252830 3040039	3708770 3220606	4139266 3232347	3802912 3129481	Lin1	58303.2282	3091738.03			13.1			0.9990			0.9900
1,2-Dibromopropane	2677050 1928800 1822931	2638536 1877686	2592515 1661070	2549314 1759160	Lin	16942.9682	1802915.97			29.9			0.9990			0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311558

SDG No.: _____

Instrument ID: TAC046 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 13:10 Calibration End Date: 09/18/2019 15:23 Calibration ID: 28238

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-311558/3	46I091819a005.D
Level 2	IC 580-311558/4	46I091819a006.D
Level 3	IC 580-311558/5	46I091819a007.D
Level 4	IC 580-311558/6	46I091819a008.D
Level 5	IC 580-311558/7	46I091819a009.D
Level 6	ICIS 580-311558/8	46I091819a010.D
Level 7	IC 580-311558/9	46I091819a011.D
Level 8	IC 580-311558/10	46I091819a012.D
Level 9	IC 580-311558/11	46I091819a013.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Ethylene Dibromide	Lin1	265989	310071	434935	668639	1432058	0.0504	0.0705	0.101	0.176	0.504
		2505691	5932184	11363100	22190654		1.01	2.52	5.04	10.1	
1,2,3-Trichloropropane	LinF	++++	++++	17875	40786	123370	++++	++++	0.0995	0.174	0.498
		223606	548343	975974	1797783		0.995	2.49	4.98	9.95	
1,2-Dibromo-3-Chloropropane	Lin1	171626	261561	417031	670501	1638613	0.0504	0.0705	0.101	0.176	0.504
		3244761	8141473	15764763	30628391		1.01	2.52	5.04	10.1	
1,2-Dibromopropane	Lin	267705	369395	518503	892260	1928800	0.100	0.140	0.200	0.350	1.00
		3755371	8305350	17591601	36458612		2.00	5.00	10.0	20.0	

Curve Type Legend:

Lin = Linear
Lin1 = Linear 1/conc
LinF = Linear forced zero

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311558

SDG No.: _____

Instrument ID: TAC046 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 13:10 Calibration End Date: 09/18/2019 15:23 Calibration ID: 28239

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-311558/3	46I091819a005.D
Level 2	IC 580-311558/4	46I091819a006.D
Level 3	IC 580-311558/5	46I091819a007.D
Level 4	IC 580-311558/6	46I091819a008.D
Level 5	IC 580-311558/7	46I091819a009.D
Level 6	ICIS 580-311558/8	46I091819a010.D
Level 7	IC 580-311558/9	46I091819a011.D
Level 8	IC 580-311558/10	46I091819a012.D
Level 9	IC 580-311558/11	46I091819a013.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	RT WINDOW	AVG RT
Ethylene Dibromide	4.752	4.749	4.750	4.751	4.750	4.750	4.750	4.751	4.751	4.720 - 4.780	4.750
1,2,3-Trichloropropane	+++++	+++++	5.355	5.356	5.356	5.354	5.354	5.355	5.356	5.325 - 5.385	5.355
1,2-Dibromo-3-Chloropropane	6.440	6.440	6.440	6.441	6.439	6.439	6.436	6.440	6.440	6.410 - 6.470	6.439
1,2-Dibromopropane	5.062	5.062	5.062	5.062	5.061	5.061	5.062	5.062	5.062	5.032 - 5.092	5.062

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311558

SDG No.: _____

Instrument ID: TAC046 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 13:10 Calibration End Date: 09/18/2019 15:23 Calibration ID: 28239

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-311558/3	46I091819a005.D
Level 2	IC 580-311558/4	46I091819a006.D
Level 3	IC 580-311558/5	46I091819a007.D
Level 4	IC 580-311558/6	46I091819a008.D
Level 5	IC 580-311558/7	46I091819a009.D
Level 6	ICIS 580-311558/8	46I091819a010.D
Level 7	IC 580-311558/9	46I091819a011.D
Level 8	IC 580-311558/10	46I091819a012.D
Level 9	IC 580-311558/11	46I091819a013.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Ethylene Dibromide	2945151 2408437 2348368	2718738 2565997	3272020 2296977	3100052 2338317	LinF		2346072.52			21.2			1.0000			0.9900
1,2,3-Trichloropropane	++++ 228197 193606	++++ 218580	244442 198113	210808 178962	Lin	7708.50353	190191.032			11.1			0.9980			0.9900
1,2-Dibromo-3-Chloropropane	570759 2897580 3393795	1637065 3303846	2015404 3415885	3091244 3401390	Lin2	-137347.57	3449736.52			6.0			0.9950			0.9900
1,2-Dibromopropane	4017980 2101386 2090088	3212664 2106357	3799170 1931138	3410903 2138154	Lin1	233908.031	2058600.95			20.8			0.9970			0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 311558

SDG No.: _____

Instrument ID: TAC046 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 13:10 Calibration End Date: 09/18/2019 15:23 Calibration ID: 28239

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-311558/3	46I091819a005.D
Level 2	IC 580-311558/4	46I091819a006.D
Level 3	IC 580-311558/5	46I091819a007.D
Level 4	IC 580-311558/6	46I091819a008.D
Level 5	IC 580-311558/7	46I091819a009.D
Level 6	ICIS 580-311558/8	46I091819a010.D
Level 7	IC 580-311558/9	46I091819a011.D
Level 8	IC 580-311558/10	46I091819a012.D
Level 9	IC 580-311558/11	46I091819a013.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Ethylene Dibromide	LinF	148362	191739	329656	546578	1213250	0.0504	0.0705	0.101	0.176	0.504
		2585242	5785510	11779273	23659807		1.01	2.52	5.04	10.1	
1,2,3-Trichloropropane	Lin	++++	++++	24322	36707	113528	++++	++++	0.0995	0.174	0.498
		217487	492805	890334	1926379		0.995	2.49	4.98	9.95	
1,2-Dibromo-3-Chloropropane	Lin2	28752	115454	203052	545025	1459656	0.0504	0.0705	0.101	0.176	0.504
		3328625	8603760	17134503	34192483		1.01	2.52	5.04	10.1	
1,2-Dibromopropane	Lin1	401798	449773	759834	1193816	2101386	0.100	0.140	0.200	0.350	1.00
		4212713	9655689	21381540	41801754		2.00	5.00	10.0	20.0	

Curve Type Legend:

Lin = Linear
Lin1 = Linear 1/conc
Lin2 = Linear 1/conc^2
LinF = Linear forced zero

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: ICV 580-311558/12 Calibration Date: 09/18/2019 15:39
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 09/18/2019 15:23
 Lab File ID: 46I091819a014.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		2306300		0.954	1.00	-4.6	20.0
1,2,3-Trichloropropane	LinF		222068		1.19	1.00	19.4	20.0
1,2-Dibromo-3-Chloropropane	Lin1		2975642		0.944	1.00	-5.6	20.0
1,2-Dibromopropane	Lin		1977024		2.18	2.00	9.2	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: ICV 580-311558/12 Calibration Date: 09/18/2019 15:39
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 09/18/2019 15:23
 Lab File ID: 46I091819a014.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	4.79	4.76	4.82
1,2,3-Trichloropropane	5.49	5.46	5.52
1,2-Dibromo-3-Chloropropane	6.61	6.57	6.63
1,2-Dibromopropane	5.06	5.03	5.09

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: ICV 580-311558/12 Calibration Date: 09/18/2019 15:39
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 09/18/2019 15:23
 Lab File ID: 46I091819a014.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	LinF		2278217		0.971	1.00	-2.9	20.0
1,2,3-Trichloropropane	Lin		160138		0.801	1.00	-19.9	20.0
1,2-Dibromo-3-Chloropropane	Lin2		3042324		0.922	1.00	-7.8	20.0
1,2-Dibromopropane	Lin1		2580879		2.39	2.00	19.7	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: ICV 580-311558/12 Calibration Date: 09/18/2019 15:39
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 09/18/2019 15:23
 Lab File ID: 46I091819a014.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	4.75	4.72	4.78
1,2,3-Trichloropropane	5.36	5.32	5.38
1,2-Dibromo-3-Chloropropane	6.44	6.41	6.47
1,2-Dibromopropane	5.06	5.03	5.09

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-312350/1-A Calibration Date: 09/26/2019 16:32
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 09/18/2019 15:23
 Lab File ID: 46I092619a016.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		2602		0.0626	0.0576	8.8	20.0
1,2,3-Trichloropropane	LinF		149.3		0.0456	0.0569	-19.7	20.0
1,2-Dibromo-3-Chloropropane	Lin1		3315		0.0607	0.0576	5.4	20.0
1,2-Dibromopropane	Lin		1885		0.119	0.114	4.1	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-312350/1-A Calibration Date: 09/26/2019 16:32
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 09/18/2019 15:23
 Lab File ID: 46I092619a016.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	4.79	4.76	4.82
1,2,3-Trichloropropane	5.49	5.46	5.52
1,2-Dibromo-3-Chloropropane	6.61	6.57	6.63
1,2-Dibromopropane	5.06	5.03	5.09

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-312350/1-A Calibration Date: 09/26/2019 16:32
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 09/18/2019 15:23
 Lab File ID: 46I092619a016.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	LinF		2594		0.0637	0.0576	10.6	20.0
1,2,3-Trichloropropane	Lin		314.9		0.0918	0.0569	61.5*	20.0
1,2-Dibromo-3-Chloropropane	Lin2		3329		0.0578	0.0576	0.4	20.0
1,2-Dibromopropane	Lin1		2589		0.137	0.114	20.1*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-312350/1-A Calibration Date: 09/26/2019 16:32
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 09/18/2019 15:23
 Lab File ID: 46I092619a016.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	4.75	4.72	4.78
1,2,3-Trichloropropane	5.36	5.32	5.38
1,2-Dibromo-3-Chloropropane	6.44	6.41	6.47
1,2-Dibromopropane	5.06	5.03	5.09

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-312350/1-A Calibration Date: 09/26/2019 19:32
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 09/18/2019 15:23
 Lab File ID: 46I092619a027.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		2590133		0.0623	0.0576	8.2	20.0
1,2,3-Trichloropropane	LinF		128508		0.0393	0.0569	-30.9*	20.0
1,2-Dibromo-3-Chloropropane	Lin1		3079669		0.0563	0.0576	-2.3	20.0
1,2-Dibromopropane	Lin		1839961		0.116	0.114	1.6	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-312350/1-A Calibration Date: 09/26/2019 19:32
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 09/18/2019 15:23
 Lab File ID: 46I092619a027.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	4.79	4.76	4.82
1,2,3-Trichloropropane	5.49	5.46	5.52
1,2-Dibromo-3-Chloropropane	6.61	6.57	6.63
1,2-Dibromopropane	5.06	5.03	5.09

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-312350/1-A Calibration Date: 09/26/2019 19:32
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 09/18/2019 15:23
 Lab File ID: 46I092619a027.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	LinF		2650904		0.0651	0.0576	13.0	20.0
1,2,3-Trichloropropane	Lin		193521		0.0555	0.0569	-2.3	20.0
1,2-Dibromo-3-Chloropropane	Lin2		2847316		0.0498	0.0576	-13.5	20.0
1,2-Dibromopropane	Lin1		2699087		0.143	0.114	25.4*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-312350/1-A Calibration Date: 09/26/2019 19:32
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 09/18/2019 15:23
 Lab File ID: 46I092619a027.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	4.75	4.72	4.78
1,2,3-Trichloropropane	5.36	5.32	5.38
1,2-Dibromo-3-Chloropropane	6.44	6.41	6.47
1,2-Dibromopropane	5.06	5.03	5.09

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-312350/1-A Calibration Date: 09/26/2019 20:04
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 09/18/2019 15:23
 Lab File ID: 46I092619a029.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		2466303		0.0591	0.0576	2.7	20.0
1,2,3-Trichloropropane	LinF		155695		0.0476	0.0569	-16.3	20.0
1,2-Dibromo-3-Chloropropane	Lin1		3212607		0.0587	0.0576	2.0	20.0
1,2-Dibromopropane	Lin		1882097		0.119	0.114	3.9	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-312350/1-A Calibration Date: 09/26/2019 20:04
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 09/18/2019 15:23
 Lab File ID: 46I092619a029.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	4.79	4.76	4.82
1,2,3-Trichloropropane	5.49	5.46	5.52
1,2-Dibromo-3-Chloropropane	6.61	6.57	6.63
1,2-Dibromopropane	5.06	5.03	5.09

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-312350/1-A Calibration Date: 09/26/2019 20:04
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 09/18/2019 15:23
 Lab File ID: 46I092619a029.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	LinF		2695494		0.0661	0.0576	14.9	20.0
1,2,3-Trichloropropane	Lin		216680		0.0625	0.0569	9.9	20.0
1,2-Dibromo-3-Chloropropane	Lin2		3115427		0.0543	0.0576	-5.7	20.0
1,2-Dibromopropane	Lin1		2687058		0.143	0.114	24.8*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-312350/1-A Calibration Date: 09/26/2019 20:04
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 09/18/2019 15:23
 Lab File ID: 46I092619a029.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	4.75	4.72	4.78
1,2,3-Trichloropropane	5.36	5.32	5.38
1,2-Dibromo-3-Chloropropane	6.44	6.41	6.47
1,2-Dibromopropane	5.06	5.03	5.09

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-312350/2-A
 Matrix: Water Lab File ID: 46I092619a017.D
 Analysis Method: 8011 Date Collected: _____
 Extraction Method: 8011 Date Extracted: 09/25/2019 20:09
 Sample wt/vol: 35 (mL) Date Analyzed: 09/26/2019 16:47
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	ND		0.030	0.0080
106-93-4	Ethylene Dibromide	ND		0.010	0.0020

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	109		60-140

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-312350/3-A
 Matrix: Water Lab File ID: 46I092619a018.D
 Analysis Method: 8011 Date Collected: _____
 Extraction Method: 8011 Date Extracted: 09/25/2019 20:09
 Sample wt/vol: 35 (mL) Date Analyzed: 09/26/2019 17:04
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	0.0479		0.030	0.0080
106-93-4	Ethylene Dibromide	0.0645		0.010	0.0020

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	113		60-140

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-312350/4-A
 Matrix: Water Lab File ID: 46I092619a019.D
 Analysis Method: 8011 Date Collected: _____
 Extraction Method: 8011 Date Extracted: 09/25/2019 20:09
 Sample wt/vol: 35 (mL) Date Analyzed: 09/26/2019 17:22
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	0.0475		0.030	0.0080
106-93-4	Ethylene Dibromide	0.0637		0.010	0.0020

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	117		60-140

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LLCS 580-312350/5-A
 Matrix: Water Lab File ID: 46I092619a020.D
 Analysis Method: 8011 Date Collected: _____
 Extraction Method: 8011 Date Extracted: 09/25/2019 20:09
 Sample wt/vol: 35 (mL) Date Analyzed: 09/26/2019 17:38
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	0.00985	J	0.030	0.0080
106-93-4	Ethylene Dibromide	0.0108		0.010	0.0020

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	115		60-140

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, SeattleJob No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC046Start Date: 09/18/2019 13:10Analysis Batch Number: 311558End Date: 09/18/2019 15:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 580-311558/3		09/18/2019 13:10	1	46I091819a005.D	ZB-624short 0.18 (mm)
IC 580-311558/3		09/18/2019 13:10	1	46I091819a005.D	RTX-VRX 0.45 (mm)
IC 580-311558/4		09/18/2019 13:30	1	46I091819a006.D	ZB-624short 0.18 (mm)
IC 580-311558/4		09/18/2019 13:30	1	46I091819a006.D	RTX-VRX 0.45 (mm)
IC 580-311558/5		09/18/2019 13:46	1	46I091819a007.D	ZB-624short 0.18 (mm)
IC 580-311558/5		09/18/2019 13:46	1	46I091819a007.D	RTX-VRX 0.45 (mm)
IC 580-311558/6		09/18/2019 14:03	1	46I091819a008.D	ZB-624short 0.18 (mm)
IC 580-311558/6		09/18/2019 14:03	1	46I091819a008.D	RTX-VRX 0.45 (mm)
IC 580-311558/7		09/18/2019 14:19	1	46I091819a009.D	ZB-624short 0.18 (mm)
IC 580-311558/7		09/18/2019 14:19	1	46I091819a009.D	RTX-VRX 0.45 (mm)
ICIS 580-311558/8		09/18/2019 14:35	1	46I091819a010.D	ZB-624short 0.18 (mm)
ICIS 580-311558/8		09/18/2019 14:35	1	46I091819a010.D	RTX-VRX 0.45 (mm)
IC 580-311558/9		09/18/2019 14:51	1	46I091819a011.D	ZB-624short 0.18 (mm)
IC 580-311558/9		09/18/2019 14:51	1	46I091819a011.D	RTX-VRX 0.45 (mm)
IC 580-311558/10		09/18/2019 15:07	1	46I091819a012.D	ZB-624short 0.18 (mm)
IC 580-311558/10		09/18/2019 15:07	1	46I091819a012.D	RTX-VRX 0.45 (mm)
IC 580-311558/11		09/18/2019 15:23	1	46I091819a013.D	ZB-624short 0.18 (mm)
IC 580-311558/11		09/18/2019 15:23	1	46I091819a013.D	RTX-VRX 0.45 (mm)
ICV 580-311558/12		09/18/2019 15:39	1	46I091819a014.D	ZB-624short 0.18 (mm)
ICV 580-311558/12		09/18/2019 15:39	1	46I091819a014.D	RTX-VRX 0.45 (mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Instrument ID: TAC046 Start Date: 09/26/2019 16:32

Analysis Batch Number: 312456 End Date: 09/26/2019 20:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 580-312350/1-A		09/26/2019 16:32	1	46I092619a016.D	ZB-624short 0.18 (mm)
CCV 580-312350/1-A		09/26/2019 16:32	1	46I092619a016.D	RTX-VRX 0.45 (mm)
MB 580-312350/2-A		09/26/2019 16:47	1	46I092619a017.D	ZB-624short 0.18 (mm)
MB 580-312350/2-A		09/26/2019 16:47	1	46I092619a017.D	RTX-VRX 0.45 (mm)
LCS 580-312350/3-A		09/26/2019 17:04	1	46I092619a018.D	ZB-624short 0.18 (mm)
LCS 580-312350/3-A		09/26/2019 17:04	1	46I092619a018.D	RTX-VRX 0.45 (mm)
LCSD 580-312350/4-A		09/26/2019 17:22	1	46I092619a019.D	ZB-624short 0.18 (mm)
LCSD 580-312350/4-A		09/26/2019 17:22	1	46I092619a019.D	RTX-VRX 0.45 (mm)
LLCS 580-312350/5-A		09/26/2019 17:38	1	46I092619a020.D	ZB-624short 0.18 (mm)
LLCS 580-312350/5-A		09/26/2019 17:38	1	46I092619a020.D	RTX-VRX 0.45 (mm)
580-89096-1		09/26/2019 17:54	1	46I092619a021.D	ZB-624short 0.18 (mm)
580-89096-1		09/26/2019 17:54	1	46I092619a021.D	RTX-VRX 0.45 (mm)
580-89096-2		09/26/2019 18:10	1	46I092619a022.D	ZB-624short 0.18 (mm)
580-89096-2		09/26/2019 18:10	1	46I092619a022.D	RTX-VRX 0.45 (mm)
580-89096-3		09/26/2019 18:27	1	46I092619a023.D	ZB-624short 0.18 (mm)
580-89096-3		09/26/2019 18:27	1	46I092619a023.D	RTX-VRX 0.45 (mm)
580-89096-4		09/26/2019 18:43	1	46I092619a024.D	ZB-624short 0.18 (mm)
580-89096-4		09/26/2019 18:43	1	46I092619a024.D	RTX-VRX 0.45 (mm)
580-89096-5		09/26/2019 18:59	1	46I092619a025.D	ZB-624short 0.18 (mm)
580-89096-5		09/26/2019 18:59	1	46I092619a025.D	RTX-VRX 0.45 (mm)
580-89096-6		09/26/2019 19:15	1	46I092619a026.D	ZB-624short 0.18 (mm)
580-89096-6		09/26/2019 19:15	1	46I092619a026.D	RTX-VRX 0.45 (mm)
CCV 580-312350/1-A		09/26/2019 19:32	1	46I092619a027.D	ZB-624short 0.18 (mm)
CCV 580-312350/1-A		09/26/2019 19:32	1	46I092619a027.D	RTX-VRX 0.45 (mm)
580-89096-7		09/26/2019 19:48	1	46I092619a028.D	ZB-624short 0.18 (mm)
580-89096-7		09/26/2019 19:48	1	46I092619a028.D	RTX-VRX 0.45 (mm)
CCV 580-312350/1-A		09/26/2019 20:04	1	46I092619a029.D	ZB-624short 0.18 (mm)
CCV 580-312350/1-A		09/26/2019 20:04	1	46I092619a029.D	RTX-VRX 0.45 (mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Batch Number: 312350 Batch Start Date: 09/25/19 20:09 Batch Analyst: Guerra, Fernando C

Batch Method: 8011 Batch End Date: 09/25/19 20:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ResidualChloCheck	ReceivedpH
CCV 580-312350/1		8011, 8011				35 mL	2 mL	no	7.0 SU
MB 580-312350/2		8011, 8011				35 mL	2 mL	no	7.0 SU
LCS 580-312350/3		8011, 8011				35 mL	2 mL	no	7.0 SU
LCSD 580-312350/4		8011, 8011				35 mL	2 mL	no	7.0 SU
LLCS 580-312350/5		8011, 8011				35 mL	2 mL	no	7.0 SU
580-89096-J-1	EQB-1-W-190911	8011, 8011	T	62.278 g	26.231 g	36 mL	2 mL	no	7.0 SU
580-89096-I-2	MW-8RR-W-190911	8011, 8011	T	62.335 g	26.110 g	36.2 mL	2 mL	no	7.0 SU
580-89096-I-3	MW-1R-W-190911	8011, 8011	T	62.420 g	26.170 g	36.3 mL	2 mL	no	7.0 SU
580-89096-J-4	MW-2R-W-190911	8011, 8011	T	62.739 g	26.304 g	36.4 mL	2 mL	no	7.0 SU
580-89096-J-5	MW-9-W-190911	8011, 8011	T	62.567 g	26.221 g	36.3 mL	2 mL	no	7.0 SU
580-89096-I-6	BD-1-W-190911	8011, 8011	T	62.365 g	26.156 g	36.2 mL	2 mL	no	7.0 SU
580-89096-E-7	Trip Blank	8011, 8011	T	62.662 g	26.331 g	36.3 mL	2 mL	no	7.0 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	EmulFormed	504/8011_IC 00105	504/8011 Sspk 00092	504/8011 Ssur 00092		
CCV 580-312350/1		8011, 8011		no	10 uL				
MB 580-312350/2		8011, 8011		no			10 uL		
LCS 580-312350/3		8011, 8011		no		10 uL	10 uL		
LCSD 580-312350/4		8011, 8011		no		10 uL	10 uL		
LLCS 580-312350/5		8011, 8011		no		2 uL	10 uL		
580-89096-J-1	EQB-1-W-190911	8011, 8011	T	no			10 uL		
580-89096-I-2	MW-8RR-W-190911	8011, 8011	T	no			10 uL		
580-89096-I-3	MW-1R-W-190911	8011, 8011	T	no			10 uL		
580-89096-J-4	MW-2R-W-190911	8011, 8011	T	no			10 uL		
580-89096-J-5	MW-9-W-190911	8011, 8011	T	no			10 uL		
580-89096-I-6	BD-1-W-190911	8011, 8011	T	no			10 uL		
580-89096-E-7	Trip Blank	8011, 8011	T	no			10 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Batch Number: 312350 Batch Start Date: 09/25/19 20:09 Batch Analyst: Guerra, Fernando C

Batch Method: 8011 Batch End Date: 09/25/19 20:30

Batch Notes	
Balance ID	SEA232
Batch Comment	8011 h2o prep Viald by JCM
Analyst ID - Extraction	JCM
NaCl ID	NaCl_00020, 2311937
Pipette/Syringe/Dispenser ID	10uL, 10mL volumetric pipette
Prep Solvent ID	2440387
Analyst ID - Spike Analyst	JCM
Analyst ID - Spike Witness Analyst	FCG
Sufficient Volume for Batch QC	MB, LCS, LCSD, LLCS
Vial Lot Number	0318301D

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method AK102 and 103

Alaska - Diesel Range Organics &
Residual Range Organics (GC) by
Method AK102 and AK103

FORM II
DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (2): _____ ID: _____

Client Sample ID	Lab Sample ID	OTPH #
EQB-1-W-190911	580-89096-1	72
MW-8RR-W-190911	580-89096-2	65
MW-1R-W-190911	580-89096-3	66
MW-2R-W-190911	580-89096-4	70
MW-9-W-190911	580-89096-5	63
BD-1-W-190911	580-89096-6	71
	MB 580-312207/1-A	72
	LCS 580-312207/2-A	86
	LCSD 580-312207/3-A	93

OTPH = o-Terphenyl

QC LIMITS
50-150

Column to be used to flag recovery values

FORM II AK102 & 103

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 005F0501.D

Lab ID: LCS 580-312207/2-A Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
DRO (nC10-<nC25)	2.00	1.66	83	75-125	

Column to be used to flag recovery and RPD values

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 006F0601.D

Lab ID: LCSD 580-312207/3-A Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
DRO (nC10-<nC25)	2.00	1.71	85	3	20	75-125	

Column to be used to flag recovery and RPD values

FORM III AK102 & 103

FORM IV
DIESEL RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab File ID: 004F0401.D Lab Sample ID: MB 580-312207/1-A
 Matrix: Water Date Extracted: 09/24/2019 16:14
 Instrument ID: SEA012 Date Analyzed: 09/25/2019 12:26
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-312207/2-A	005F0501.D	09/25/2019 12:48
	LCSD 580-312207/3-A	006F0601.D	09/25/2019 13:11
EQB-1-W-190911	580-89096-1	012F1201.D	09/25/2019 15:27
MW-8RR-W-190911	580-89096-2	013F1301.D	09/25/2019 15:50
MW-1R-W-190911	580-89096-3	015F1501.D	09/25/2019 16:35
MW-2R-W-190911	580-89096-4	016F1601.D	09/25/2019 16:57
MW-9-W-190911	580-89096-5	017F1701.D	09/25/2019 17:20
BD-1-W-190911	580-89096-6	018F1801.D	09/25/2019 17:42

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Sample No.: ICRT 580-296035/7 Date Analyzed: 03/11/2019 20:27
 Instrument ID: SEA012 GC Column: ZB-1HT ID: 0.25 (mm)
 Lab File ID (Standard): 007F0701.D Heated Purge: (Y/N) N
 Calibration ID: 27513

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				OTPH	NTC	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				5.09	7.49	
UPPER LIMIT				5.14	7.54	
LOWER LIMIT				5.04	7.44	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
ICRT 580-296035/7		03/11/2019 20:27	007F0701.D	5.09	7.49	
ICV 580-296035/13		03/11/2019 22:37	013F1301.D	5.08	7.50	

OTPH = o-Terphenyl
 NTC = n-Triacontane-d62

OTPH RT Limit = ± 0.05 minutes of surrogate RT
 NTC RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Sample No.: CCVRT 580-312267/3 Date Analyzed: 09/25/2019 12:03
 Instrument ID: SEA012 GC Column: ZB-1HT ID: 0.25 (mm)
 Lab File ID (Standard): 003F0301.D Heated Purge: (Y/N) N
 Calibration ID: 27513

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				OTPH		
				RT #		
CONTINUING CALIBRATION SURROGATE				5.03		
UPPER LIMIT				5.08		
LOWER LIMIT				4.98		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-312267/3		09/25/2019 12:03	003F0301.D	5.03		
MB 580-312207/1-A		09/25/2019 12:26	004F0401.D	5.03		
LCS 580-312207/2-A		09/25/2019 12:48	005F0501.D	5.03		
LCSD 580-312207/3-A		09/25/2019 13:11	006F0601.D	5.03		
580-89096-1	EQB-1-W-190911	09/25/2019 15:27	012F1201.D	5.03		
580-89096-2	MW-8RR-W-190911	09/25/2019 15:50	013F1301.D	5.03		
CCV 580-312267/14		09/25/2019 16:12	014F1401.D	5.03		
580-89096-3	MW-1R-W-190911	09/25/2019 16:35	015F1501.D	5.03		
580-89096-4	MW-2R-W-190911	09/25/2019 16:57	016F1601.D	5.03		
580-89096-5	MW-9-W-190911	09/25/2019 17:20	017F1701.D	5.03		
580-89096-6	BD-1-W-190911	09/25/2019 17:42	018F1801.D	5.02		
CCV 580-312267/25		09/25/2019 20:20	025F2501.D	5.03		

OTPH = o-Terphenyl

OTPH RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: EQB-1-W-190911 Lab Sample ID: 580-89096-1
 Matrix: Water Lab File ID: 012F1201.D
 Analysis Method: AK102 & 103 Date Collected: 09/11/2019 12:30
 Extraction Method: 3510C Date Extracted: 09/24/2019 16:14
 Sample wt/vol: 247.8 (mL) Date Analyzed: 09/25/2019 15:27
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312267 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	ND		0.11	0.076

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	72		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-8RR-W-190911 Lab Sample ID: 580-89096-2
 Matrix: Water Lab File ID: 013F1301.D
 Analysis Method: AK102 & 103 Date Collected: 09/11/2019 13:10
 Extraction Method: 3510C Date Extracted: 09/24/2019 16:14
 Sample wt/vol: 243.4(mL) Date Analyzed: 09/25/2019 15:50
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312267 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.16		0.11	0.077

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	65		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-1R-W-190911 Lab Sample ID: 580-89096-3
 Matrix: Water Lab File ID: 015F1501.D
 Analysis Method: AK102 & 103 Date Collected: 09/11/2019 14:10
 Extraction Method: 3510C Date Extracted: 09/24/2019 16:14
 Sample wt/vol: 246.6(mL) Date Analyzed: 09/25/2019 16:35
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312267 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.16		0.11	0.076

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	66		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-2R-W-190911 Lab Sample ID: 580-89096-4
 Matrix: Water Lab File ID: 016F1601.D
 Analysis Method: AK102 & 103 Date Collected: 09/11/2019 15:00
 Extraction Method: 3510C Date Extracted: 09/24/2019 16:14
 Sample wt/vol: 241.2 (mL) Date Analyzed: 09/25/2019 16:57
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312267 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.67		0.11	0.078

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	70		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: MW-9-W-190911 Lab Sample ID: 580-89096-5
 Matrix: Water Lab File ID: 017F1701.D
 Analysis Method: AK102 & 103 Date Collected: 09/11/2019 16:10
 Extraction Method: 3510C Date Extracted: 09/24/2019 16:14
 Sample wt/vol: 246.2 (mL) Date Analyzed: 09/25/2019 17:20
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312267 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	ND		0.11	0.076

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: BD-1-W-190911 Lab Sample ID: 580-89096-6
 Matrix: Water Lab File ID: 018F1801.D
 Analysis Method: AK102 & 103 Date Collected: 09/11/2019 00:00
 Extraction Method: 3510C Date Extracted: 09/24/2019 16:14
 Sample wt/vol: 247.1(mL) Date Analyzed: 09/25/2019 17:42
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312267 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.16		0.11	0.076

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		50-150

TestAmerica Seattle

Data File: \\chromna\Seattle\ChromData\SEA012\20190311-64170.b\002F0201.D

Injection Date: 11-Mar-2019 18:38:16

Instrument ID: SEA012

Lims ID: RTC

Client ID:

Operator ID: SYSTEM

ALS Bottle#: 2

Worklist Smp#: 2

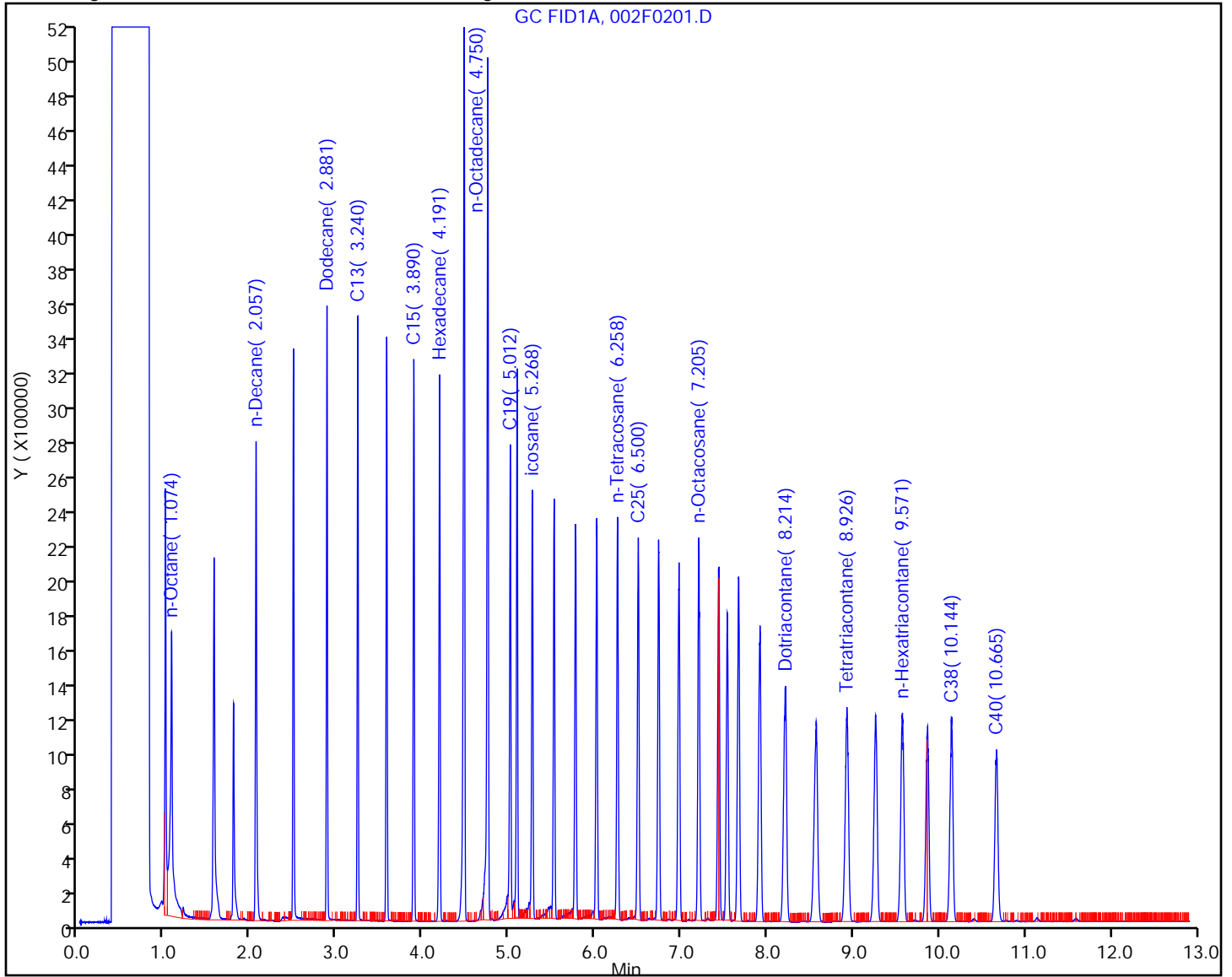
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-Front_SEA012

Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 296035

SDG No.: _____

Instrument ID: SEA012 GC Column: ZB-1HT ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2019 18:59 Calibration End Date: 03/11/2019 22:15 Calibration ID: 27513

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-296035/12	012F1201.D
Level 2	IC 580-296035/11	011F1101.D
Level 3	IC 580-296035/10	010F1001.D
Level 4	IC 580-296035/9	009F0901.D
Level 5	IC 580-296035/8	008F0801.D
Level 6	ICRT 580-296035/7	007F0701.D
Level 7	IC 580-296035/6	006F0601.D
Level 8	IC 580-296035/5	005F0501.D
Level 9	IC 580-296035/4	004F0401.D
Level 10	IC 580-296035/3	003F0301.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	RT WINDOW	AVG RT
DRO (nC10-<nC25)	4.257	4.257	4.257	4.257	4.257	4.257	4.257	4.257	4.257	4.257	1.993 - 6.435	4.257
RRO (nC25-nC36)	8.112	8.112	8.112	8.112	8.112	8.112	8.112	8.112	8.112	8.112	6.435 - 9.656	8.112
o-Terphenyl	5.080	5.081	5.079	5.082	5.083	5.086	5.091	5.098	5.121	+++++	5.056 - 5.116	5.089
n-Triacontane-d62	7.478	7.472	7.481	7.495	7.501	7.494	7.510	7.514	7.568	7.596	7.444 - 7.544	7.511

FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 296035

SDG No.: _____

Instrument ID: SEA012 GC Column: ZB-1HT ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2019 18:59 Calibration End Date: 03/11/2019 22:15 Calibration ID: 27513

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-296035/12	012F1201.D
Level 2	IC 580-296035/11	011F1101.D
Level 3	IC 580-296035/10	010F1001.D
Level 4	IC 580-296035/9	009F0901.D
Level 5	IC 580-296035/8	008F0801.D
Level 6	ICRT 580-296035/7	007F0701.D
Level 7	IC 580-296035/6	006F0601.D
Level 8	IC 580-296035/5	005F0501.D
Level 9	IC 580-296035/4	004F0401.D
Level 10	IC 580-296035/3	003F0301.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
DRO (nC10-<nC25)	355238 173916 170994	213423 147963 146949	191787 147826	163965 163703	Lin1	1729471.42	154923.929			10.9			0.9950			0.9900
RRO (nC25-nC36)	189127 93830 86937	118446 78256 70995	100603 78123	91940 85162	Lin2	1033361.12	79831.9820			9.5			0.9900			0.9900
o-Terphenyl	184664 179373 160913	163195 147874 +++++	158583 144211	158506 156394	Ave		161523.635			8.2		25.0				
n-Triacontane-d62	143581 140680 136999	125955 122188 120998	119961 120743	119818 135681	Ave		128660.432			7.4		25.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1 Analy Batch No.: 296035

SDG No.: _____

Instrument ID: SEA012 GC Column: ZB-1HT ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2019 18:59 Calibration End Date: 03/11/2019 22:15 Calibration ID: 27513

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-296035/12	012F1201.D
Level 2	IC 580-296035/11	011F1101.D
Level 3	IC 580-296035/10	010F1001.D
Level 4	IC 580-296035/9	009F0901.D
Level 5	IC 580-296035/8	008F0801.D
Level 6	ICRT 580-296035/7	007F0701.D
Level 7	IC 580-296035/6	006F0601.D
Level 8	IC 580-296035/5	005F0501.D
Level 9	IC 580-296035/4	004F0401.D
Level 10	IC 580-296035/3	003F0301.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
DRO (nC10-<nC25)	Lin1	3552384	4268468	9589346	16396524	34783133	10.0	20.0	50.0	100	200
		73981305	147825508	327406754	854968658	1469486409	500	1000	2000	5000	10000
RRO (nC25-nC36)	Lin2	1891267	2368920	5030153	9194023	18765902	10.0	20.0	50.0	100	200
		39127903	78122999	170324143	434684945	709950341	500	1000	2000	5000	10000
o-Terphenyl	Ave	73570	130034	315897	631486	1429245	0.398	0.797	1.99	3.98	7.97
		2945652	5745367	12461507	32053826	+++++	19.9	39.8	79.7	199	+++++
n-Triacontane-d62	Ave	57662	101167	240881	481191	1129945	0.402	0.803	2.01	4.02	8.03
		2453542	4849024	10897911	27509342	48592926	20.1	40.2	80.3	201	402

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc
Lin2 = Linear 1/conc^2

Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA012\20190925-67649.b\002F0201.D

Injection Date: 25-Sep-2019 11:41:04

Instrument ID: SEA012

Lims ID: RTC

Client ID:

Operator ID: SYSTEM

ALS Bottle#: 2

Worklist Smp#: 2

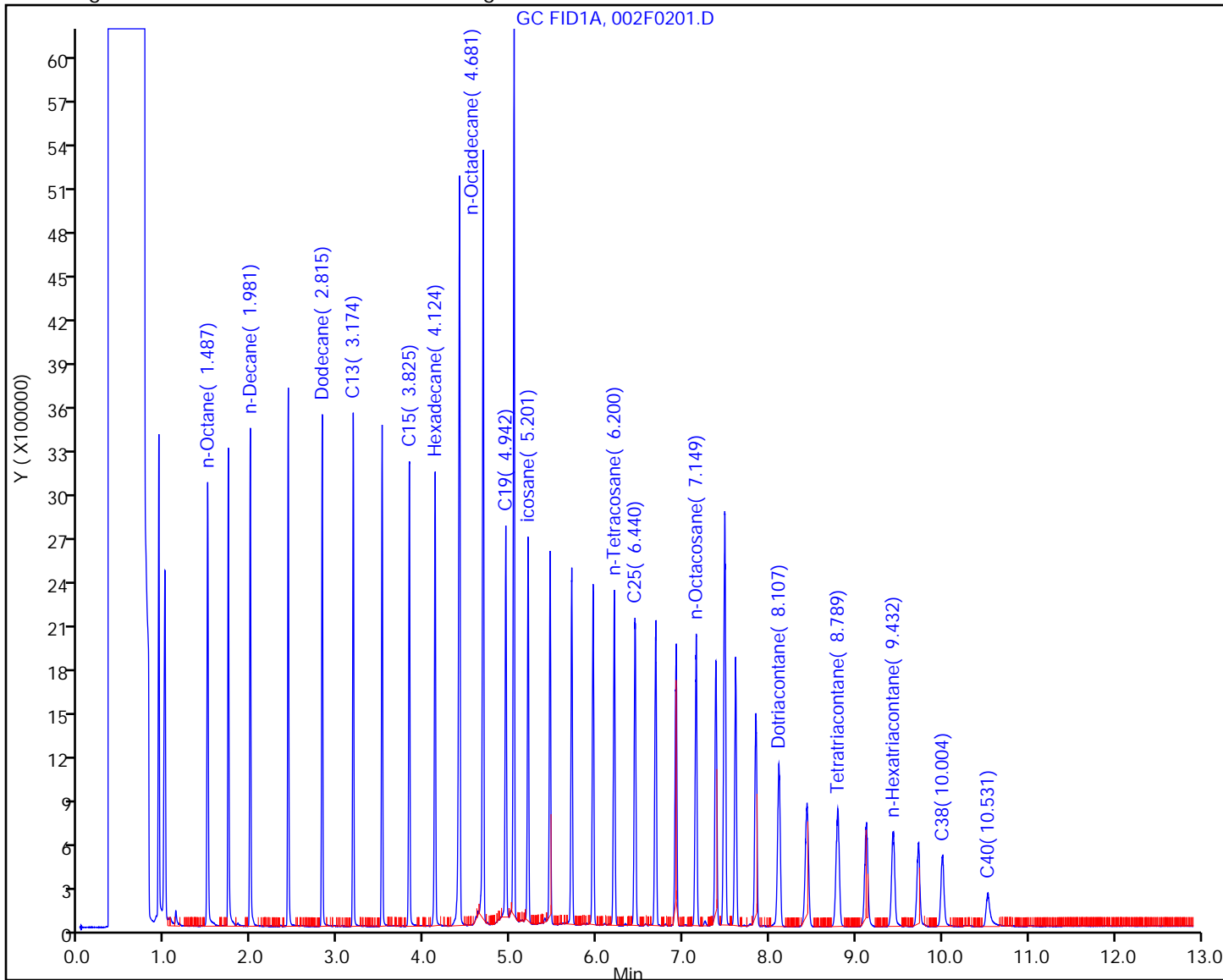
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-Front_SEA012

Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: ICV 580-296035/13 Calibration Date: 03/11/2019 22:37
 Instrument ID: SEA012 Calib Start Date: 03/11/2019 18:59
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 03/11/2019 22:15
 Lab File ID: 013F1301.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin1		155361		490	500	-2.0	25.0
RRO (nC25-nC36)	Lin2		78942		481	500	-3.7	25.0
o-Terphenyl	Ave	161524	154954		19.6	20.4	-4.1	25.0
n-Triacontane-d62	Ave	128660	125419		19.5	20.0	-2.5	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: ICV 580-296035/13 Calibration Date: 03/11/2019 22:37
 Instrument ID: SEA012 Calib Start Date: 03/11/2019 18:59
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 03/11/2019 22:15
 Lab File ID: 013F1301.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.26	1.99	6.44
RRO (nC25-nC36)	8.11	6.44	9.66
o-Terphenyl	5.08	5.05	5.11
n-Triacontane-d62	7.50	7.45	7.55

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-312267/3 Calibration Date: 09/25/2019 12:03
 Instrument ID: SEA012 Calib Start Date: 03/11/2019 18:59
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 03/11/2019 22:15
 Lab File ID: 003F0301.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin1		162734		514	500	2.8	25.0
RRO (nC25-nC36)	Lin2		81892		500	500	-0.0	25.0
o-Terphenyl	Ave	161524	190748		11.8	9.96	18.1	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-312267/3 Calibration Date: 09/25/2019 12:03
 Instrument ID: SEA012 Calib Start Date: 03/11/2019 18:59
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 03/11/2019 22:15
 Lab File ID: 003F0301.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.15	1.92	6.37
RRO (nC25-nC36)	7.92	6.37	9.56
o-Terphenyl	5.03	5.00	5.06

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-312267/14 Calibration Date: 09/25/2019 16:12
 Instrument ID: SEA012 Calib Start Date: 03/11/2019 18:59
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 03/11/2019 22:15
 Lab File ID: 014F1401.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin1		164241		519	500	3.8	25.0
RRO (nC25-nC36)	Lin2		84492		516	500	3.2	25.0
o-Terphenyl	Ave	161524	190444		11.7	9.96	17.9	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-312267/14 Calibration Date: 09/25/2019 16:12
 Instrument ID: SEA012 Calib Start Date: 03/11/2019 18:59
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 03/11/2019 22:15
 Lab File ID: 014F1401.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.15	1.92	6.37
RRO (nC25-nC36)	7.92	6.37	9.56
o-Terphenyl	5.03	5.00	5.06

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-312267/25 Calibration Date: 09/25/2019 20:20
 Instrument ID: SEA012 Calib Start Date: 03/11/2019 18:59
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 03/11/2019 22:15
 Lab File ID: 025F2501.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin1		160124		506	500	1.1	25.0
RRO (nC25-nC36)	Lin2		81871		500	500	-0.0	25.0
o-Terphenyl	Ave	161524	182636		11.3	9.96	13.1	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Lab Sample ID: CCV 580-312267/25 Calibration Date: 09/25/2019 20:20
 Instrument ID: SEA012 Calib Start Date: 03/11/2019 18:59
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 03/11/2019 22:15
 Lab File ID: 025F2501.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.15	1.92	6.37
RRO (nC25-nC36)	7.92	6.37	9.56
o-Terphenyl	5.03	5.00	5.06

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-312207/1-A
 Matrix: Water Lab File ID: 004F0401.D
 Analysis Method: AK102 & 103 Date Collected: _____
 Extraction Method: 3510C Date Extracted: 09/24/2019 16:14
 Sample wt/vol: 250 (mL) Date Analyzed: 09/25/2019 12:26
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312267 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	ND		0.11	0.075

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	72		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-312207/2-A
 Matrix: Water Lab File ID: 005F0501.D
 Analysis Method: AK102 & 103 Date Collected: _____
 Extraction Method: 3510C Date Extracted: 09/24/2019 16:14
 Sample wt/vol: 250 (mL) Date Analyzed: 09/25/2019 12:48
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312267 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	1.66		0.11	0.075

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	86		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-312207/3-A
 Matrix: Water Lab File ID: 006F0601.D
 Analysis Method: AK102 & 103 Date Collected: _____
 Extraction Method: 3510C Date Extracted: 09/24/2019 16:14
 Sample wt/vol: 250 (mL) Date Analyzed: 09/25/2019 13:11
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 312267 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	1.71		0.11	0.075

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	93		50-150

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA012 Start Date: 03/11/2019 18:38

Analysis Batch Number: 296035 End Date: 03/11/2019 22:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-296035/2		03/11/2019 18:38	1		ZB-1HT 0.25 (mm)
IC 580-296035/3		03/11/2019 18:59	1	003F0301.D	ZB-1HT 0.25 (mm)
IC 580-296035/4		03/11/2019 19:21	1	004F0401.D	ZB-1HT 0.25 (mm)
IC 580-296035/5		03/11/2019 19:43	1	005F0501.D	ZB-1HT 0.25 (mm)
IC 580-296035/6		03/11/2019 20:05	1	006F0601.D	ZB-1HT 0.25 (mm)
ICRT 580-296035/7		03/11/2019 20:27	1	007F0701.D	ZB-1HT 0.25 (mm)
IC 580-296035/8		03/11/2019 20:49	1	008F0801.D	ZB-1HT 0.25 (mm)
IC 580-296035/9		03/11/2019 21:10	1	009F0901.D	ZB-1HT 0.25 (mm)
IC 580-296035/10		03/11/2019 21:32	1	010F1001.D	ZB-1HT 0.25 (mm)
IC 580-296035/11		03/11/2019 21:54	1	011F1101.D	ZB-1HT 0.25 (mm)
IC 580-296035/12		03/11/2019 22:15	1	012F1201.D	ZB-1HT 0.25 (mm)
ICV 580-296035/13		03/11/2019 22:37	1	013F1301.D	ZB-1HT 0.25 (mm)

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Instrument ID: SEA012 Start Date: 09/25/2019 11:41

Analysis Batch Number: 312267 End Date: 09/25/2019 20:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-312267/2		09/25/2019 11:41	1	002F0201.D	ZB-1HT 0.25 (mm)
CCVRT 580-312267/3		09/25/2019 12:03	1	003F0301.D	ZB-1HT 0.25 (mm)
MB 580-312207/1-A		09/25/2019 12:26	1	004F0401.D	ZB-1HT 0.25 (mm)
LCS 580-312207/2-A		09/25/2019 12:48	1	005F0501.D	ZB-1HT 0.25 (mm)
LCSD 580-312207/3-A		09/25/2019 13:11	1	006F0601.D	ZB-1HT 0.25 (mm)
ZZZZZ		09/25/2019 13:33	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/25/2019 13:56	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/25/2019 14:18	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/25/2019 14:41	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/25/2019 15:04	1		ZB-1HT 0.25 (mm)
580-89096-1		09/25/2019 15:27	1	012F1201.D	ZB-1HT 0.25 (mm)
580-89096-2		09/25/2019 15:50	1	013F1301.D	ZB-1HT 0.25 (mm)
CCV 580-312267/14		09/25/2019 16:12	1	014F1401.D	ZB-1HT 0.25 (mm)
580-89096-3		09/25/2019 16:35	1	015F1501.D	ZB-1HT 0.25 (mm)
580-89096-4		09/25/2019 16:57	1	016F1601.D	ZB-1HT 0.25 (mm)
580-89096-5		09/25/2019 17:20	1	017F1701.D	ZB-1HT 0.25 (mm)
580-89096-6		09/25/2019 17:42	1	018F1801.D	ZB-1HT 0.25 (mm)
CCV 580-312267/25		09/25/2019 20:20	1	025F2501.D	ZB-1HT 0.25 (mm)

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Batch Number: 312207 Batch Start Date: 09/24/19 16:14 Batch Analyst: Linna, Troy 1

Batch Method: 3510C Batch End Date: 09/24/19 20:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 580-312207/1		3510C, AK102 & 103				250 mL	1 mL	7.0 SU	2.0 SU
LCS 580-312207/2		3510C, AK102 & 103				250 mL	1 mL	7.0 SU	2.0 SU
LCS 580-312207/3		3510C, AK102 & 103				250 mL	1 mL	7.0 SU	2.0 SU
580-89096-A-1	EQB-1-W-190911	3510C, AK102 & 103	T	00415.18 g	00167.43 g	247.8 mL	1 mL	2.0 SU	2.0 SU
580-89096-B-2	MW-8RR-W-190911	3510C, AK102 & 103	T	00409.32 g	00165.94 g	243.4 mL	1 mL	2.0 SU	2.0 SU
580-89096-B-3	MW-1R-W-190911	3510C, AK102 & 103	T	00413.44 g	00166.88 g	246.6 mL	1 mL	2.0 SU	2.0 SU
580-89096-A-4	MW-2R-W-190911	3510C, AK102 & 103	T	00408.63 g	00167.48 g	241.2 mL	1 mL	2.0 SU	2.0 SU
580-89096-B-5	MW-9-W-190911	3510C, AK102 & 103	T	00412.08 g	00165.85 g	246.2 mL	1 mL	2.0 SU	2.0 SU
580-89096-B-6	BD-1-W-190911	3510C, AK102 & 103	T	00413.51 g	00166.45 g	247.1 mL	1 mL	2.0 SU	2.0 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	TPH_Water_Spk 00022	TPH_WaterSurr 00049				
MB 580-312207/1		3510C, AK102 & 103			100 uL				
LCS 580-312207/2		3510C, AK102 & 103		100 uL	100 uL				
LCS 580-312207/3		3510C, AK102 & 103		100 uL	100 uL				
580-89096-A-1	EQB-1-W-190911	3510C, AK102 & 103	T		100 uL				
580-89096-B-2	MW-8RR-W-190911	3510C, AK102 & 103	T		100 uL				
580-89096-B-3	MW-1R-W-190911	3510C, AK102 & 103	T		100 uL				
580-89096-A-4	MW-2R-W-190911	3510C, AK102 & 103	T		100 uL				
580-89096-B-5	MW-9-W-190911	3510C, AK102 & 103	T		100 uL				
580-89096-B-6	BD-1-W-190911	3510C, AK102 & 103	T		100 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89096-1

SDG No.: _____

Batch Number: 312207 Batch Start Date: 09/24/19 16:14 Batch Analyst: Linna, Troy 1

Batch Method: 3510C Batch End Date: 09/24/19 20:00

Batch Notes	
Balance ID	SEA225
Batch Comment	Vialed By: PRO
Analyst ID - Concentration	PRO
Concentration 1 Corrected Temperature	70-75 Degrees C
Concentration 2 Corrected Temperature	17.8 Degrees C
Equipment ID - Concentration 1	Steam Bath #1
Equipment ID - Concentration 2	Turbovap 5
Analyst ID - Extraction	TL/PRO
Filter ID	2416954
Method/Fraction	3510C_LVI/ NWTPH_Dx/AK102_103
Na2SO4 ID	2400382
Pipette/Syringe/Dispenser ID	MP1
Prep Solvent ID	2450659
Prep Solvent Volume Used	120 mL
Analyst ID - Spike Analyst	TL
Sufficient Volume for Batch QC	MB, LCS, LCSD
Thermometer ID - Concentration 1	61013-040-1
Thermometer ID - Concentration 2	digital readout
Concentration 1 Uncorrected Temperature	70-75 Degrees C
Concentration 2 Uncorrected Temperature	20.0 Degrees C
Vial Lot Number	19049222

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Regulatory Program: DW NPDES RCRA Other:

Client Contact: **Aracelis** Project Manager: **Nicole Monroe** Date: **9.11.19** COC No: **249676**
 Tel/Fax: **503 - 785 - 7414** Lab Contact: **Dund Bradburn** Carrier: **_____** of **1** COCs
 Analysis Turnaround Time: CALENDAR DAYS WORKING DAYS
 TAT if different from Below: Standard
 2 weeks 1 week 2 days 1 day

Company Name: **Aracelis** Address: **111 SW Columbia St Suite 670**
 City/State/Zip: **Portland OR 97201** Phone: **503 - 220 - 8201** Fax: **_____**
 Project Name: **Chevron 97324** Site: **4417 Lake Otis Pkwy Anchorage AK**
 P.O.#: **30010566**

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)		Perform MS/MSD (Y/N)		Sample Specific Notes:
						VOC 8260	GR0 AK 101	DE0 AK 102	PAH 8270	
EQB-1-W-190911	9.11.19	1230	G	W	10	X	X	X	X	
MW-8RR-W-190911	9.11.19	1310	G	W	10	X	X	X	X	
MW-1R-W-190911	9.11.19	1410	G	W	10	X	X	X	X	
MW-2R-W-190911	9.11.19	1500	G	W	12	X	X	X	X	
MW-9-W-190911	9.11.19	1610	G	W	10	X	X	X	X	
D-1-W-190911	9.11.19	-	G	W	10	X	X	X	X	
Rip Blank	-	-	-	W	5	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____
 Possible Hazard Identification: _____
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:
Type III Data Package

Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: 4.7	Therm ID No.:
Received by: Aracelis	Company: Aracelis	Received by: TA-AK	Company: TA-AK
Date/Time: 9.12.19/10900	Date/Time: 9/12/19	Date/Time: 9:00	Date/Time: 9:00
Received by: _____	Company: _____	Received in Laboratory by: _____	Company: _____
Date/Time: _____	Date/Time: _____	Date/Time: _____	Date/Time: _____

TestAmerica Anchorage

2000 N. International Airport Road
Suite A10

Anchorage, AK 99502

Phone: 907.563.9200 Fax: 907.563.9210

Chain of Custody Record


249676

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: DW NPDES RCRA Other:

Client Contact		Project Manager: <u>Nicole Monroe</u>		Site Contact: <u>David Braundon</u>		Date: <u>9.11.19</u>		COC No: <u>249676</u>			
Company Name: <u>Aradis</u>		Tel/Fax: <u>503-785-9414</u>		Lab Contact: <u>Andrew P. Lela</u>		Carrier: _____		1 of 1 COCs			
Address: <u>111 SW Columbia St Suite 670</u>		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) VOC 8260 GRO AK 101 DRD AK 102 PAH 8270 EDB TCP 12.3 8011		Sampler: <u>DB</u>		For Lab Use Only:			
City/State/Zip: <u>Portland OR 97201</u>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS				Walk-in Client: _____					
Phone: <u>503-720-8201</u>		TAT if different from Below <u>Standard</u>				 580-89096 Chain of Custody					
Fax: _____		<input type="checkbox"/> 2 weeks									
Project Name: <u>Chevron 97324</u>		<input type="checkbox"/> 1 week									
Site: <u>4417 Lake Otis Pkwy Anchorage AK</u>		<input type="checkbox"/> 2 days									
PO# <u>30010566</u>		<input type="checkbox"/> 1 day									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:				
<u>EQB-1-W-190911</u>		<u>9.11.19</u>	<u>1230</u>	<u>G</u>	<u>W</u>	<u>10</u>	X	X	X	X	
<u>MW-8RR-W-190911</u>		<u>9.11.19</u>	<u>1310</u>	<u>G</u>	<u>W</u>	<u>10</u>	X	X	X	X	
<u>MW-1R-W-190911</u>		<u>9.11.19</u>	<u>1410</u>	<u>G</u>	<u>W</u>	<u>10</u>	X	X	X	X	
<u>MW-2R-W-190911</u>		<u>9.11.19</u>	<u>1500</u>	<u>G</u>	<u>W</u>	<u>12</u>	X	X	X	X	
<u>MW-9-W-190911</u>		<u>9.11.19</u>	<u>1610</u>	<u>G</u>	<u>W</u>	<u>10</u>	X	X	X	X	
<u>BD-1-W-190911</u>		<u>9.11.19</u>	<u>-</u>	<u>G</u>	<u>W</u>	<u>10</u>	X	X	X	X	
<u>Trip Blank</u>		<u>-</u>	<u>-</u>	<u>-</u>	<u>W</u>	<u>5</u>	X	X	X	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other											
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments: <u>Type III Data Package</u>											
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: <u>4.7</u>		Therm ID No.:					
Relinquished by: <u>[Signature]</u>		Company: <u>Aradis</u>		Date/Time: <u>9.12.19/0900</u>		Received by: <u>[Signature]</u>		Company: <u>TA-AK</u>		Date/Time: <u>9/12/19 9:00</u>	
Relinquished by: <u>[Signature]</u>		Company: <u>TA-AK</u>		Date/Time: <u>9/12/19 12:00</u>		Received by: <u>[Signature]</u>		Company: <u>TASEA</u>		Date/Time: <u>9/13/19 1000</u>	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:		Date/Time:	

IR4 = 1.1 / 1.4

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 580-89096-1

Login Number: 89096
List Number: 1
Creator: Pilch, Andrew C

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX D

ADEC Data Review Checklist



Laboratory Data Review Checklist

Completed By:

Suresh PR

Title:

Project Chemist

Date:

October 25, 2019

CS Report Name:

Second Semiannual 2019 Groundwater Monitoring Report

Report Date:

September 30, 2019

Consultant Firm:

ARCADIS U.S., Inc

Laboratory Name:

Eurofins TestAmerica, Seattle, WA

Laboratory Report Number:

580-89096-1

ADEC File Number:

2100.26.008

Hazard Identification Number:

23885

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No

Comments:

Yes.

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No

Comments:

Samples were not transferred to another lab.

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No

Comments:

Yes.

b. Correct Analyses requested?

Yes No

Comments:

Yes.

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No

Comments:

Yes.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No

Comments:

Yes.

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No

Comments:

Yes.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No

Comments:

No discrepancies.

e. Data quality or usability affected?

Yes No

Comments:

Data quality/usability was not affected.

4. Case Narrative

a. Present and understandable?

Yes No

Comments:

Yes.

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No

Comments:

Yes.

c. Were all corrective actions documented?

Yes No

Comments:

Yes.

d. What is the effect on data quality/usability according to the case narrative?

Yes No

Comments:

Data quality/usability was not affected.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No

Comments:

Yes.

b. All applicable holding times met?

Yes No

Comments:

Yes.

c. All soils reported on a dry weight basis?

Yes No

Comments:

No soil samples were submitted for analysis.

d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

Yes No

Comments:

Yes.

e. Data quality or usability affected?

Yes No

Comments:

Data quality/usability was not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No

Comments:

Yes.

ii. All method blank results less than Method Detection Limit (MDL)?

Yes No

Comments:

The compound hexachlorobutadiene (0.126 J ug/L) was detected below the reporting limit in preparation blank batch 311960 for method EPA SW-846 8260C SIM. The associated sample results were non-detect and hence qualification was not required.

The compound naphthalene (0.412 J and 0.149J ug/L) was detected below the reporting limit in preparation blank batches 311960 and 312081 respectively. A blank action level was established at five times of the reported blank concentration. The naphthalene result in samples MW-1R-W-190911, MW-8RR-W-190911, BD-1-W-190911 and MW-9-W-190911 were qualified as non-detect (UB) at the reporting limit.

iii. If above MDL, what samples are affected?

Yes No

Comments:

Naphthalene result in samples MW-1R-W-190911, MW-8RR-W-190911, BD-1-W-190911 and MW-9-W-190911 qualified as non-detect (UB) at the reporting limit.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No

Comments:

Yes.

v. Data quality or usability affected?

Yes No

Comments:

The method blank contaminations are considered minor and would result in the non-detect of the associated data. The reported data should still consider as usable.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No

Comments:

Yes.

- ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No

Comments:

Metals/Inorganic analysis was not requested for submitted samples.

- iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No

Comments:

The LCSD recovery for 1,3-dichlorobenzene was less than the control limit in batch 312211 for method EPA SW-846 8260C. The compound 1,3-dichlorobenzene in samples MW-2R-W-190911, MW-8RR-W-190911, MW-9-W-190911, BD-1-W-190911 and MW-1R-W-190911 were non-detect and qualified as estimated (UJ).

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No

Comments:

The RPDs between LCS/LCSD were above the control limit for compounds 1,2,4-trichlorobenzene, 4-chlorotoluene, bromobenzene and n-propylbenzene for method EPA SW-846 8260C. These compound result in samples MW-2R-W-190911, MW-8RR-W-190911, MW-9-W-190911, BD-1-W-190911 and MW-1R-W-190911 were qualified as estimated (J/UJ).

The RPDs between LCS/LCSD were above the control limit for compounds 1,1,2,2-tetrachloroethane and naphthalene for method EPA SW-846 8260C SIM. The compound 1,1,2,2-tetrachloroethane result in samples MW-2R-W-190911, MW-8RR-W-190911, BD-1-W-190911, MW-1R-W-190911 and MW-9-W-190911 were qualified as estimated (UJ). The naphthalene result in samples MW-1R-W-190911 and MW-2R-W-190911 were qualified as estimated (J).

The RPD between LCS/LCSD was above the control limit for compound naphthalene for method 8270D SIM. The compound naphthalene result in sample MW-2R-W-190911 qualified as estimated (J).

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Yes No

Comments:

MW-1R-W-190911, MW-2R-W-190911, MW-8RR-W-190911, MW-9-W-190911 and BD-1-W-190911

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No

Comments:

Yes.

vii. Data quality or usability affected?

Yes No

Comments:

The LCSD and RPD exceedances were considered as minor and would result in the estimation of the associated data. The reported data should still consider as usable.

c. Matrix spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No

Comments:

MS/MSD analysis was not requested on project specific sample.

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No

Comments:

No.

iii. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No

Comments:

No.

iv. If %R or RPD is outside of acceptable limits, what samples are affected?

Yes No

Comments:

No.

v. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No

Comments:

No.

vi. Data quality or usability affected? (use comment box to explain)

Yes No

Comments:

No.

d. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No

Comments:

Yes

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes No

Comments:

The surrogate 1,2-Dibromopropane recovery was exceeded the control limit in sample BD-1-W-190911 for the method 8011. The associated results were non-detect and hence qualification was not required.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes No

Comments:

No.

iv. Data quality or usability affected? (use comment box to explain)

Yes No

Comments:

Data quality/usability was not affected.

e. Trip blank – Volatile analyses only (GRO, BTEX, etc): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No

Comments:

Yes.

ii. All results less than MDL?

Yes No

Comments:

The compounds 1,4-dichlorobenzene (0.014 J ug/l), hexachlorobutadiene (0.032 ug/l), naphthalene (0.095 ug/l) and tetrachloroethene (0.020 ug/l) were detected below the reporting limit in Trip Blank-W-190911 sample. A blank action level was established at five times of the reported blank concentration. These compound results in associated samples were qualified as non-detect (UB) at the reporting limit.

iii. If above MDL, what samples are affected?

Yes No

Comments:

The compound 1,4-dichlorobenzene result in sample MW-9-W-190911; naphthalene result in samples MW-1R-W-190911, MW-8RR-W-190911, BD-1-W-190911 and MW-9-W-190911; and tetrachloroethene result in samples MW-1R-W-190911 and MW-2R-W-190911 were qualified as non-detect at the reporting limit.

iv. Data quality or usability affected?

Yes No

Comments:

The trip blank contamination considered as minor and would result in the non-detect of the associated data. The reported data should still consider as usable.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No

Comments:

Yes.

ii. Submitted blind to lab?

Yes No

Comments:

BD-1-W-190911 was collected from MW-8RR-W-190911.

- iii. Precision – All relative percent differences (RPD) less than specified DQOs?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No

Comments:

Yes.

- iv. Data quality or usability affected?

Yes No

Comments:

Data quality/usability was not affected.

- g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below).

Yes No

Equipment blank sample was collected as EQB-1-W-190911

- i. If above MDL, what samples are affected?

Yes No

Comments:

The compound toluene (1.1 ug/l) was detected in an equipment blank sample EQB-1-W-190911 for method EPA SW-846 8260C. A blank action level was established at five times of the reported blank concentration. The toluene result in associated samples were non-detect and hence qualification was not required.

The compounds 1,2-dichloroethane (0.054 ug/l), benzene (0.013 ug/l), chloroform (0.095 ug/l) and naphthalene (0.030 ug/l) were detected below the reporting limit in an equipment blank sample EQB-1-W-190911 for method EPA SW-846 8260C SIM. A blank action level was established at five times of the detected blank concentration. These compound result in associated samples were qualified as non-detect (UB) at the reporting limit.

- ii. Data quality or usability affected?

The benzene compound results in samples MW-8RR-W-190911, BD-1-W-190911 and MW-9-W-190911; chloroform result in samples MW-8RR-W-190911 and MW-9-W-190911; and naphthalene result in samples MW-1R-W-190911, MW-8RR-W-190911, BD-1-W-190911 and MW-9-W-190911 were qualified as non-detect (UB) at the reporting limit.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No

Comments:

Yes.
