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

Subject:  
2019 Second Semi Annual Groundwater Monitoring Report

Dear Mr. Weimer,

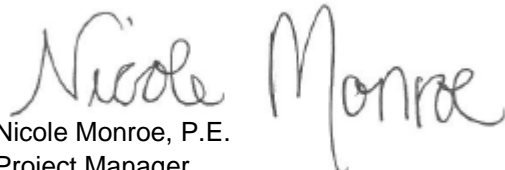
On behalf of Chevron Environmental Management Company (Chevron), Arcadis US, Inc. (Arcadis) has prepared the attached *2019 Groundwater Monitoring Report* for the second semi-annual groundwater sampling event for the following facility:

<u>Chevron Branded</u> <u>Station No.</u>	<u>ADEC File No.</u>	<u>Hazard ID:</u>	<u>Location</u>
351860	2100.38.503	4692	5138 Old Seward Highway. Anchorage, Alaska

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

Sincerely,

Arcadis U.S., Inc.

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

Copies:  
Tim Bishop (*electronic copy*)  
Steve Wuerth

ENVIRONMENT

Date:  
December 31, 2019

Contact:  
Nicole Monroe

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503.785.9414

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Our ref:  
30015193

Chevron Environmental Management Company

# **2019 SECOND SEMI-ANNUAL GROUNDWATER MONITORING REPORT**

Chevron Site No. 351860  
5138 Old Seward Highway  
Anchorage, Alaska  
ADEC File No. 2100.38.503  
Hazard ID:4692

December 31, 2019

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## 2019 SECOND SEMI- ANNUAL GROUNDWATER MONITORING REPORT



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Evan Wujcik  
Environmental Engineer



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Max Elias  
Environmental Scientist



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Nicole Monroe, P.E  
Project Manager  
EV-149409

### Former Chevron Branded Service Station 351860

5138 Old Seward Highway  
Anchorage, Alaska

ADEC File ID: 2100.38.053  
Hazard ID: 4692

Prepared for:

Chevron Environmental Management  
Company

Prepared by:

Arcadis U.S., Inc.  
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Our Ref.:

30015193

Date:

December 31, 2019

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

Facility No:	<u>Chevron Site No. 351860</u>	Address:	<u>5138 old Seward Highway, Anchorage, Alaska</u>
Arcadis Contact Person / Phone No.:	<u>Nicole Monroe / 503-785-9414</u>		
Arcadis Project No.:	<u>30015193</u>		
Primary Agency/Regulatory ID No.:	<u>Alaska Department of Environmental Conservation (ADEC) / Robert Weimer /ADEC file ID: 2100.38.053</u>		

**WORK CONDUCTED THIS PERIOD [Second Half 2019]:**

1. Conducted semi-annual groundwater monitoring activities on September 16, 2019.
2. Prepared the 2019 Second *Semi-Annual Status Report*.

**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>	
Is Light Non-Aqueous Phase Liquid (LNAPL) Present On-site:	<u>No</u>	
Cumulative LNAPL Recovered to Date:	<u>0.0</u>	(gallons)
Approximate Depth to Groundwater:	<u>5.23 to 7.55</u>	(feet below top of casing)
Approximate Groundwater Elevation:	<u>103.04 to 104.68</u>	(feet relative to corresponding datum)
Groundwater Flow Direction	<u>Southeast</u>	
Groundwater Gradient	<u>0.003</u>	(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 No. 351860, located at 5138 Old Seward Highway, Anchorage, Alaska (the site). The site location and site plan are shown 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)]. A site background and a historical site summary 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 16, 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-1 through MW-10 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 event is to the southeast. Current and historical groundwater depth-to-water and elevation data are included in Table 1 and Table 2 respectively. A groundwater elevation contour map is presented as Figure 3.

## 2.3 Groundwater Sampling Methods

The second semi-annual groundwater monitoring event was conducted on September 16, 2019. Groundwater samples were collected from monitoring wells MW-2 through MW-10 using a low flow sampling method. MW-1 had insufficient volume to collect a sample.

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  $\pm 0.2\text{ C}^\circ$ ),
- $\pm 0.1$  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. Field notes documenting the first and second-annual event are presented in Appendix C.

Groundwater samples collected from monitoring wells MW-2 through MW-10 were submitted to the analytical laboratory for the following analyses:

- Lead by Method 6010C
- Nitrate and Sulfate by Method EPA 300.0

Additionally, groundwater sampled from MW-2, MW-3, and MW-6 through MW-10 were analyzed for the following analyses:

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX), by United States Environmental Protection Agency (USEPA) method 8260C
- Total Petroleum Hydrocarbons-Gasoline range organics (TPH-g) by Alaska method AK101
- Total Petroleum Hydrocarbons-Diesel range organics (TPH-d) by Alaska method AK102-SV 4/8/02



A groundwater duplicate sample was collected from monitoring well MW-5. The duplicate sample was analyzed for lead, methane, nitrate, and sulfate. The duplicate sample was 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. Historical groundwater analytical results are summarized in Table 2. Historical groundwater poly aromatic hydrocarbons analytical data is included as Table 3. Current and historical results for monitored natural attenuation (MNA) parameters are summarized in Table 4.

## **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 second semi-annual event. 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), laboratory control sample / laboratory control sample duplicate (LCS/LCSD) and field duplicate (FD) were within the control limits.

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

### **3.2 Accuracy**

The percent recoveries for LCS/LCSD and surrogates were within the control limits.

The MS / MSD recovery exceedances were observed for analyte sulfate in sample MW-2-W-190916. The associated result was qualified as estimated.

The accuracy of the data, as measured by laboratory quality control (QC) indicators, suggest that the DQOs were met with exception of 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 indicates groundwater flow directions, southeast, which is generally consistent with the historical. During the second semi-annual 2019 groundwater monitoring events, groundwater samples were collected for analysis from monitoring wells MW-2 through MW-10. Analytical results from the monitoring wells are generally consistent with historical data.

Groundwater monitoring will continue in accordance with the current semi-annual schedule. The first semi-annual sampling event 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**

Chevron Site 351860  
5138 Old Seward Highway  
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)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	Lead (mg/L)
<b>Groundw</b>							<b>2.2</b>	<b>1.5</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.015</b>
<b>MW-1</b>	9/16/2019	111.18	NAVD88	7.55	0.00	103.63				Insufficient water in well to sample			
<b>MW-2</b>	9/16/2019	110.92	NAVD88	6.24	0.00	104.68	< 0.10	<b>1.4</b>	< 0.00053	< 0.00039	< 0.0005	<0.00114	0.027 J
<b>MW-3</b>	9/16/2019	110.51	NAVD88	6.00	0.00	104.51	< 0.10	<b>0.5</b>	< 0.00053	< 0.00039	< 0.0005	<0.00114	< 0.0027
<b>MW-4</b>	9/16/2019	110.79	NAVD88	6.35	0.00	104.44	--	--	--	--	--	--	<b>0.0058 J</b>
<b>MW-5</b>	9/16/2019	111.03	NAVD88	6.61	0.00	104.42	-- [--]	-- [--]	-- [--]	-- [--]	-- [--]	-- [--]	<b>0.0029 J [0.0035 J]</b>
<b>MW-6</b>	9/16/2019	109.75	NAVD88	5.23	0.00	104.52	< 0.10	<b>0.5</b>	<b>0.008</b>	< 0.002 B	<b>0.0016 J</b>	<b>0.01164 J</b>	<b>0.0040 J</b>
<b>MW-7</b>	9/16/2019	110.43	NAVD88	5.97	0.00	104.46	<b>1.3</b>	<b>1.3</b>	<b>0.0095</b>	<b>0.011</b>	<b>0.079</b>	<b>0.351 D</b>	<b>0.0028 J</b>
<b>MW-8</b>	9/16/2019	110.39	NAVD88	5.99	0.00	104.40	<b>4.7</b>	<b>1.4</b>	<b>0.02</b>	<b>0.0037</b>	<b>0.2 D</b>	<b>0.098 D</b>	<b>0.011 J</b>
<b>MW-9</b>	9/16/2019	109.76	NAVD88	5.26	0.00	104.50	<b>5.3</b>	<b>0.94</b>	<b>0.0044</b>	<b>0.02</b>	<b>0.14 D</b>	<b>1.09 D</b>	< 0.0027
<b>MW-10</b>	9/16/2019	110.29	NAVD88	7.25	0.00	103.04	<b>0.82</b>	<b>0.54</b>	<b>0.017</b>	< 0.002 B	<b>0.0025 J</b>	<b>0.19072 DJ</b>	<b>0.0030 J</b>
<b>QA (EQB)</b>	9/16/2019	--	--	--	--	--	< 0.10	< 0.088	< 0.00053	<b>0.00072 J</b>	< 0.0005	<0.00114	< 0.0027
<b>QA (TB)</b>	9/16/2019	--	--	--	--	--	< 0.10	--	< 0.00053	< 0.00039	< 0.0005	<0.00114	--

**Notes:**

ID = Identification  
 MW = Groundwater monitoring well  
 TOC = Top of casing  
 DTW = Depth to groundwater  
 ft bTOC = Feet below top of casing  
 ft = Feet  
 GW Elev = Groundwater elevation  
 mg/L = Milligrams per liter  
 <0.00053 = Not detected at or above the method detection limit (MDL)

TPH-g = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to Alaska Series Method AK101  
 TPH-d = Total petroleum hydrocarbons, diesel range by LUFT GC/MS according to Alaska Series Method AK102-SV 4/8/02  
 Samples analyzed by USEPA Method 8260C:  
 Benzene, toluene, ethylbenzene and total xylenes (collectively BTEX)  
 Lead by Method 6010C

**Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level**

**Bold** = Value exceeds MDL  
 -- = Not Available or Not Analysed  
 LNAPL = Light Non-Aqueous Phase Liquid  
 [ ] = Blind Duplicate Sample Result  
 NADV88 = North American Vertical Datum of 1988  
 QA (EQB) = Quality Assurance (Equipment Blank)  
 QA (TB) = Quality Assurance (Trip Blank)  
 J = The compound was positively identified; however, the associated numerical value is an estimated concentration only  
 D = The result reported from diluted analysis  
 B = Compound considered non-detect at the listed value due to associated blank contamination  
 ADEC = Alaska Department of Environmental Conservation

**Table 2. Historical Groundwater Gauging and Analytical Results  
Fourth Quarter 2007 to Current**

Chevron Site 351860  
5138 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft msl)	DTW (ft btoc)	LNAPL			TPH-g (mg/L)	TPH-d (mg/L)	TPH-r (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Lead (mg/L)	Comments
				Thickness (ft)	GWE (ft)										
		<b>ADEC Groundwater Cleanup Levels</b>				<b>2.2</b>	<b>1.5</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.015</b>		
MW-1	12/18/2007	110.47	4.88	--	105.59	--	<b>0.566</b>	--	--	--	--	--	--	--	
MW-1	5/26/2009	117.14	4.24	--	112.90	<0.01	<b>0.89</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.00012</b>		
MW-1	9/24/2009	117.14	5.09	--	112.05	<0.010	<b>1.3 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.237</b>		
MW-1	11/9/2009	117.14	5.82	--	111.32	<0.010	<b>1.0 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0336</b>		
MW-1	3/1/2010	110.43	7.87	--	102.56	<0.010	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0688</b>		
MW-1	5/7/2010	110.43	4.15	--	106.28	<0.010	<b>0.51</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0216</b>		
MW-1	07/19/2010	110.43	4.83	--	105.60	<0.010	<b>1.1</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0206</b>		
MW-1	10/4/2010	110.43	5.19	--	105.24	<0.010	<b>1.0 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0148 J</b>		
MW-1	4/19/2011	110.43	5	--	105.43	--	--	--	--	--	--	--	<0.0069		
MW-1	6/7/2011	110.43	4.71	--	105.72	--	--	--	--	--	--	--	<0.0022 UJ		
MW-1	9/16/2011	110.43	4.8	--	105.63	--	--	--	--	--	--	--	<b>0.0611</b>		
MW-1	10/31/2011	110.43	5.39	--	105.04	--	--	--	--	--	--	--	--		
MW-1	11/1/2011	--	--	--	--	--	--	--	--	--	--	--	<b>0.0836</b>		
MW-1	6/20/2012	110.43	4.28	--	106.15	--	--	--	--	--	--	--	<b>0.0041 J</b>		
MW-1	9/19/2012	110.43	4.32	--	106.11	--	--	--	--	--	--	--	<0.0051		
MW-1	11/7/2012	110.43	4.94	--	105.49	--	--	--	--	--	--	--	--		
MW-1	6/8/2013	110.43	4.13	--	106.3	--	--	--	--	--	--	--	--		
MW-1	6/9/2013	--	--	--	--	--	--	--	--	--	--	--	<b>0.0029 J</b>		
MW-1	6/9/2013	--	--	--	--	--	--	--	--	--	--	--	<0.0012	collected via hydrasleeve	
MW-1	8/18/2013	110.43	4.43	--	106	--	--	--	--	--	--	--	--		
MW-1	8/20/2013	--	--	--	--	--	--	--	--	--	--	--	<b>0.021</b>		
MW-1	11/04/2013	110.43	4.2	--	106.23	--	--	--	--	--	--	--	--		
MW-1	6/5/2014	110.43	4.46	--	105.97	--	--	--	--	--	--	--	<b>0.0023 J</b>		
MW-1	9/22/2014	110.43	3.92	--	106.51	--	--	--	--	--	--	--	<b>0.0028 J</b>		
MW-1	4/30/2015	110.43	4.49	--	105.94	--	--	--	--	--	--	--	<0.0047		
MW-1	9/22/2015	110.34	4.43	--	105.91	--	--	--	--	--	--	--	--		
MW-1	11/10/2015	110.34	4.34	--	106	--	--	--	--	--	--	--	--		
MW-1	6/07/2016	110.43	4.49	--	105.94	--	--	--	--	--	--	--	<0.0051		
MW-1	9/19/2016	110.43	4.21	--	106.22	--	--	--	--	--	--	--	<0.0062		
MW-1	6/02/2017	110.43	4.2	--	106.23	--	--	--	--	--	--	--	<0.0062		
MW-1	8/17/2017	110.79	3.93	--	106.86	--	--	--	--	--	--	--	<b>0.0069 J / 0.0109 J</b>		
MW-1	6/19/2018	110.79	4.12	--	106.67	--	--	--	--	--	--	--	<0.0071		
MW-1	11/1/2018	110.79	4.25	--	106.54	--	--	--	--	--	--	--	<0.0071		
MW-1	9/16/2019	111.18	7.55	0.00	103.63	--	--	--	--	--	--	--	--	Insufficient water in well to sample	
MW-2	12/18/2007	110.44	5.13	--	105.31	--	<b>3.76</b>	<b>0.535</b>	--	--	--	--	--		
MW-2	5/27/2009	117.06	4.65	--	112.41	<b>0.14</b>	<b>11</b>	--	<0.0005	<0.0005	<b>0.0009</b>	<b>0.0019</b>	<b>0.022</b>		
MW-2	9/24/2009	117.06	5.43	--	111.63	<b>0.031 J</b>	<b>3.1</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>1</b>		
MW-2	11/9/2009	117.06	5.84	--	111.22	<0.010	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.239</b>		
MW-2	3/1/2010	110.34	7.25	--	103.09	<b>0.026 J</b>	<b>2.3 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	--		
MW-2	5/7/2010	110.34	4.58	--	105.76	<b>0.12</b>	<b>22</b>	--	<0.0005	<0.0005	<b>0.0037</b>	<b>0.0032 J</b>	<b>0.084</b>		
MW-2	7/19/2010	110.34	5.19	--	105.15	<b>0.079 J</b>	<b>1.8</b>	--	<0.0005	<0.0005	<0.0005	<b>0.0022 J</b>	<b>0.0526</b>		
MW-2	10/4/2010	110.34	5.25	--	105.09	<b>0.055 J</b>	<b>3.7</b>	--	<0.0005	<0.0005	<0.0005	<b>0.0018 J</b>	<b>0.0276</b>		

**Table 2. Historical Groundwater Gauging and Analytical Results  
Fourth Quarter 2007 to Current**

Chevron Site 351860  
5138 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft msl)	DTW (ft btoc)	LNAPL		TPH-g (mg/L)	TPH-d (mg/L)	TPH-r (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Lead (mg/L)	Comments
				Thickness (ft)	GWE (ft)									
<b>ADEC Groundwater Cleanup Levels</b>						<b>2.2</b>	<b>1.5</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.015</b>	
MW-2	4/19/2011	110.34	5.79	--	104.55	--	--	--	--	--	--	--	--	
MW-2	4/20/2011	--	--	--	--	<b>0.017 J</b>	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	
MW-2	6/7/2011	110.34	5	--	105.34	<b>0.071 J</b>	<b>6.5</b>	--	<0.0005	<0.0005	<b>0.0008 J</b>	<b>0.0036 J</b>	<b>0.171 J</b>	
MW-2	9/16/2011	110.34	5.1	--	105.24	<0.050	<b>1.8 J</b>	--	<0.0025	<0.0025	<0.0025	<b>0.0084 J</b>	<b>0.351</b>	
MW-2	10/31/2011	110.34	5.55	--	104.79	--	--	--	--	--	--	--	--	
MW-2	11/1/2011	--	--	--	--	<0.010	<b>5.5</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0571</b>	
MW-2	6/20/2012	110.34	4.58	--	105.76	<0.010	<b>2.5</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0103 J</b>	
MW-2	9/19/2012	110.34	3.4	--	106.94	<0.010	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0858</b>	
MW-2	11/7/2012	110.34	4.92	--	105.42	<0.010	<b>0.56 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0925</b>	
MW-2	6/8/2013	110.34	4.42	--	105.92	--	--	--	--	--	--	--	--	
MW-2	6/9/2013	--	--	--	--	<0.050	<b>11</b>	--	<0.00024	<0.00023	<0.00024	<0.00072	<b>0.0053 J</b>	
MW-2	6/9/2013	--	--	--	--	<0.050	<b>4.3</b>	--	<0.00024	<0.00023	<0.00024	<0.00072	<0.0012	collected via hydrasleeve
MW-2	8/18/2013	110.34	4.81	--	105.53	--	--	--	--	--	--	--	--	
MW-2	8/20/2013	--	--	--	--	<0.050	<b>0.12 J</b>	--	<0.00024	<0.00023	<0.00024	<0.00072	<b>0.065</b>	
MW-2	11/04/2013	110.34	4.67	--	105.67	--	--	--	--	--	--	--	--	
MW-2	11/08/2013	--	--	--	--	<0.050	<b>1.5</b>	--	<0.00024	<0.00023	<0.00024	<0.00072	<b>0.14</b>	
MW-2	6/5/2014	110.34	4.47	--	105.87	<0.050	<b>2</b>	--	<b>0.00026 J</b>	<0.00011	<0.00016	<0.00040	<b>0.014</b>	
MW-2	9/22/2014	110.34	4.49	--	105.85	<0.050	<b>0.12 J</b>	--	<0.00015	<0.00011	<0.00016	<0.00040	<b>0.032</b>	
MW-2	4/30/2015	110.34	4.69	--	105.65	<b>0.24</b>	<b>18</b>	--	<0.0005	<0.0005	<0.0017	<0.0030	<b>0.0096 J</b>	
MW-2	9/22/2015	110.34	4.76	--	105.58	<0.010	<b>0.62 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.389</b>	
MW-2	11/10/2015	110.34	4.81	--	105.53	<0.010	<b>0.35 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0886</b>	
MW-2	6/07/2016	110.34	7.37	--	102.97	<0.010	<b>1.2</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0051	
MW-2	9/19/2016	110.34	4.74	--	105.60	<0.010	<b>1.1 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0158 J / 0.0356</b>	
MW-2	6/02/2017	110.34	4.66	--	105.68	<b>0.046 J</b>	<b>4.6</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0062	
MW-2	8/18/2017	110.5	4.19	--	106.31	<0.010	<b>0.11 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0060	
MW-2	6/19/2018	110.50	4.43	--	106.07	<0.010	<b>0.98 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0071	TOC adjusted for 1" cut in order for lid to be placed back on.
MW-2	11/1/2018	110.5	7.89	--	102.61	<0.014	<b>0.28</b>	--	<0.0002	<0.0002	<0.0002	<0.0005	<b>0.0076 J</b>	
MW-2	4/24/2019	110.5	5.56	0.00	105.36	<b>0.063 J [0.072 J]</b>	<b>9.9 [9.5]</b>	--	< 0.0002 [ $<0.0002$ ]	< 0.0002 [ $<0.0002$ ]	< 0.0004 [ $<0.0004$ ]	< 0.001 [ $<0.001$ ]	<b>0.0074 J [<math>&lt; 0.0071</math>]</b>	DTW taken from Well Survey on 6/3/2019
MW-2	9/16/2019	110.92	6.24	0.00	104.68	< 0.10	--	<b>1.4</b>	< 0.00053	< 0.00039	< 0.0005	<0.00114	<b>0.027 J</b>	
MW-3	5/27/2009	116.47	5.37	--	111.1	<0.01	<b>0.47</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.000091</b>	
MW-3	9/24/2009	116.47	6.3	--	110.17	<0.010	<b>0.67</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0557</b>	
MW-3	11/9/2009	116.47	6.2	--	110.27	<0.010	<b>0.48</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0153</b>	
MW-3	3/3/2010	109.76	6.74	--	103.02	<0.010	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0192</b>	
MW-3	5/7/2010	109.76	5.57	--	104.19	<0.010	<b>0.63</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0105 J</b>	
MW-3	7/19/2010	109.76	5.89	--	103.87	<0.010	<b>0.47</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0145 J</b>	
MW-3	10/4/2010	109.76	6.12	--	103.64	<0.010	<b>0.43</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0101 J</b>	
MW-3	4/19/2011	109.76	3.64	--	106.12	--	--	--	--	--	--	--	--	
MW-3	4/20/2011	--	--	--	--	<b>0.012 J</b>	<b>0.72</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0073 J</b>	
MW-3	6/7/2011	109.76	5.88	--	103.88	--	--	--	--	--	--	--	--	
MW-3	9/16/2011	109.76	6.09	--	103.67	<0.010	<b>0.46</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0146 J</b>	
MW-3	10/31/2011	109.76	6.34	--	103.42	--	--	--	--	--	--	--	--	
MW-3	6/20/2012	109.76	5	--	104.76	<0.010	<b>2.6</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0418</b>	
MW-3	9/19/2012	109.76	4.41	--	105.35	<0.010	<b>1.3</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0448</b>	

**Table 2. Historical Groundwater Gauging and Analytical Results  
Fourth Quarter 2007 to Current**

Chevron Site 351860  
5138 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft msl)	DTW (ft btoc)	LNAPL			TPH-g (mg/L)	TPH-d (mg/L)	TPH-r (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Lead (mg/L)	Comments
				Thickness (ft)	GWE (ft)										
<b>ADEC Groundwater Cleanup Levels</b>						<b>2.2</b>	<b>1.5</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.015</b>		
MW-3	11/7/2012	109.76	4.6	--	105.16	<0.010	<b>0.99</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.037</b>		
MW-3	6/8/2013	109.76	4.42	--	105.34	--	--	--	--	--	--	--	--		
MW-3	6/9/2013	--	--	--	--	<0.050	<b>0.48 J</b>	--	<0.00024	<0.00023	<0.00024	<0.00072	<0.0012		
MW-3	6/9/2013	--	--	--	--	<0.050	<b>0.67</b>	--	<0.00024	<0.00023	<0.00024	<0.00072	<b>0.0037 J</b>	collected via hydrasleeve	
MW-3	8/18/2013	109.76	5.45	--	104.31	--	--	--	--	--	--	--	--		
MW-3	8/20/2013	--	--	--	--	<0.050	<b>0.29 J</b>	--	<0.00024	<0.00023	<0.00024	<0.00072	<b>0.018</b>		
MW-3	11/04/2013	109.76	5.04	--	104.72	--	--	--	--	--	--	--	--		
MW-3	6/5/2014	109.76	5.51	--	104.25	<0.050	<b>0.36 J</b>	--	<0.00015	<0.00011	<0.00016	<0.00040	<b>0.0030 J</b>		
MW-3	9/22/2014	109.76	4.93	--	104.83	<0.050	<b>0.27 J</b>	--	<0.00015	<0.00011	<0.00016	<0.00040	<b>0.0028 J</b>		
MW-3	4/30/2015	109.76	6.06	--	103.7	<b>0.043 J</b>	<b>0.16 J</b>	--	<0.0005	<0.0005	<0.0005	<b>0.0020 J</b>	<0.0047		
MW-3	9/22/2015	109.76	5.48	--	104.28	--	--	--	--	--	--	--	--		
MW-3	11/10/2015	109.76	5.76	--	104	--	--	--	--	--	--	--	--		
MW-3	6/07/2016	109.76	5.39	--	104.37	<0.010	<b>0.58</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0051		
MW-3	9/19/2016	109.76	5.35	--	104.41	<0.010	<b>0.56</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0062		
MW-3	6/02/2017	109.76	5.72	--	104.04	<0.010	<b>0.7</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0062		
MW-3	8/17/2017	110.1	4.76	--	105.34	<0.010	<b>0.35 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0060		
MW-3	6/20/2018	110.1	4.87	--	105.23	<0.010	<b>0.46 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0207 J</b>		
MW-3	11/1/2018	110.1	5.53	--	104.57	<0.014	<b>0.27</b>	--	<0.0002	<0.0002	<0.0002	<0.0005	<0.0071		
MW-3	4/24/2019	110.51	5.43	0.00	105.08	< 0.014	< 0.37BJ	--	< 0.0002	< 0.0002	< 0.0004	< 0.001	< 0.0071	DTW taken from Well Survey on 6/3/2019	
MW-3	9/16/2019	110.51	6.00	0.00	104.51	< 0.10	--	<b>0.5</b>	< 0.00053	< 0.00039	< 0.0005	<0.00114	< 0.0027		
MW-4	12/18/2007	110.05	5.88	--	104.17	--	--	--	--	--	--	--	--		
MW-4	9/24/2009	116.71	6.59	--	110.12	<0.010 / 0.012 J	<b>0.20 J / 0.20 J</b>	--	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0015 / <0.0015	<b>0.0757 / 0.0729</b>		
MW-4	11/9/2009	116.71	6.49	--	110.22	<0.010	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0526</b>		
MW-4	3/3/2010	110.00	6.98	--	103.02	<0.010	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0129 J</b>		
MW-4	5/7/2010	110	5.92	--	104.08	<0.010	<b>0.21 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0088 J</b>		
MW-4	7/19/2010	110	6.2	--	103.8	<0.010	<b>0.16 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0275</b>		
MW-4	10/4/2010	110	6.38	--	103.62	<0.010	<b>0.12 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0378</b>		
MW-4	4/19/2011	110	3.86	--	106.14	--	--	--	--	--	--	--	<0.0069		
MW-4	6/7/2011	110	6.14	--	103.86	--	--	--	--	--	--	--	<0.0022 UJ		
MW-4	9/16/2011	110	6.39	--	103.61	--	--	--	--	--	--	--	<b>0.0134 J</b>		
MW-4	10/31/2011	110	6.58	--	103.42	--	--	--	--	--	--	--	--		
MW-4	11/1/2011	--	--	--	--	--	--	--	--	--	--	--	<b>0.0578</b>		
MW-4	6/20/2012	110	5.32	--	104.68	--	--	--	--	--	--	--	<b>0.0061 J</b>		
MW-4	9/19/2012	110	4.76	--	105.24	--	--	--	--	--	--	--	<0.0051		
MW-4	11/7/2012	110	4.89	--	105.11	--	--	--	--	--	--	--	--		
MW-4	6/8/2013	110	5.57	--	104.43	--	--	--	--	--	--	--	--		
MW-4	6/9/2013	--	--	--	--	--	--	--	--	--	--	--	<b>0.0021 J</b>		
MW-4	6/9/2013	--	--	--	--	--	--	--	--	--	--	--	<0.0012	collected via hydrasleeve	
MW-4	8/18/2013	110	5.36	--	104.64	--	--	--	--	--	--	--	--		
MW-4	8/20/2013	--	--	--	--	--	--	--	--	--	--	--	<0.0064 J		
MW-4	11/04/2013	110	5.45	--	104.55	--	--	--	--	--	--	--	--		
MW-4	6/5/2014	110	5.94	--	104.06	--	--	--	--	--	--	--	<b>0.0020 J</b>		
MW-4	9/22/2014	110	5.41	--	104.59	--	--	--	--	--	--	--	<0.0018		



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Fourth Quarter 2007 to Current**

Chevron Site 351860  
5138 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft msl)	DTW (ft btoc)	LNAPL			TPH-g (mg/L)	TPH-d (mg/L)	TPH-r (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Lead (mg/L)	Comments
				Thickness (ft)	GWE (ft)										
<b>ADEC Groundwater Cleanup Levels</b>						<b>2.2</b>	<b>1.5</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.015</b>		
MW-4	4/30/2015	110	6.48	--	103.52	--	--	--	--	--	--	--	--	<0.0047	
MW-4	9/22/2015	110	5.91	--	104.09	--	--	--	--	--	--	--	--	--	
MW-4	11/10/2015 <sup>3</sup>	110	6.17	--	103.83	--	--	--	--	--	--	--	--	--	
MW-4	6/07/2016	110	5.81	--	104.19	--	--	--	--	--	--	--	--	<0.0051	
MW-4	9/20/2016	110	5.92	--	104.08	--	--	--	--	--	--	--	--	<0.0062	
MW-4	6/02/2017	110	6.1	--	103.9	--	--	--	--	--	--	--	--	<0.0062	
MW-4	8/18/2017	110.35	5.23	--	105.12	--	--	--	--	--	--	--	--	<0.0060	
MW-4	6/20/2018	110.35	5.26	--	105.09	--	--	--	--	--	--	--	--	<b>0.0176 J</b>	
MW-4	11/1/2018	110.35	5.87	--	104.48	--	--	--	--	--	--	--	--	<0.0071	
MW-4	4/24/2019	110.79	5.81	0.00	104.98	--	--	--	--	--	--	--	--	< 0.0071	DTW taken from Well Survey on 6/3/2019
MW-4	9/16/2019	110.79	6.35	0.00	104.44	--	--	--	--	--	--	--	--	<b>0.0058 J</b>	
MW-5	12/18/2007	110.37	6.17	--	104.2	--	--	--	--	--	--	--	--	--	
MW-5	5/27/2009	117.01	5.98	--	111.03	<0.01	<b>0.088</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	--	<b>0.00025</b>	
MW-5	9/24/2009	117.01	6.88	--	110.13	<0.010	<b>0.16 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	--	<b>0.0906</b>	
MW-5	11/9/2009	117.01	6.78	--	110.23	<0.010	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0015	--	<b>0.0525</b>	
MW-5	3/3/2010	110.30	7.23	--	103.07	<0.010	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0015	--	<b>0.0237</b>	
MW-5	5/7/2010	110.3	6.24	--	104.06	<0.010	<b>0.16 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	--	<b>0.0159</b>	
MW-5	7/19/2010	110.3	6.48	--	103.82	<0.010	<b>0.49</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	--	<b>0.0474</b>	
MW-5	4/19/2011	110.3							Ice in Well						
MW-5	6/7/2011	110.3	5.39	--	104.91	--	--	--	--	--	--	--	--	<b>0.0398 J</b>	
MW-5	9/16/2011	110.3	6.62	--	103.68	--	--	--	--	--	--	--	--	<b>0.0145 J</b>	
MW-5	10/31/2011	110.3	6.84	--	103.46	--	--	--	--	--	--	--	--	--	
MW-5	11/1/2011	--	--	--	--	--	--	--	--	--	--	--	--	<b>0.0034 J</b>	
MW-5	6/20/2012	110.3	5.55	--	104.75	--	--	--	--	--	--	--	--	<b>0.0069 J</b>	
MW-5	9/19/2012	110.3	5.03	--	105.27	--	--	--	--	--	--	--	--	<0.0051	
MW-5	11/7/2012	110.3	5.13	--	105.17	--	--	--	--	--	--	--	--	--	
MW-5	6/8/2013	110.3	5.31	--	104.99	--	--	--	--	--	--	--	--	--	
MW-5	6/9/2013	--	--	--	--	--	--	--	--	--	--	--	--	<0.0012	
MW-5	6/9/2013	--	--	--	--	--	--	--	--	--	--	--	--	<0.0012	collected via hydrasleeve
MW-5	8/18/2013	110.3	6.11	--	104.19	--	--	--	--	--	--	--	--	--	
MW-5	8/20/2013	--	--	--	--	--	--	--	--	--	--	--	--	<0.0021 J	
MW-5	11/04/2013	110.3	5.41	--	104.89	--	--	--	--	--	--	--	--	--	
MW-5	6/5/2014	110.3	6.2	--	104.1	--	--	--	--	--	--	--	--	<b>0.0027 J</b>	
MW-5	9/22/2014	110.3	5.63	--	104.67	--	--	--	--	--	--	--	--	<b>0.0020 J</b>	
MW-5	4/30/2015	110.3	6.75	--	103.55	--	--	--	--	--	--	--	--	<0.0047	
MW-5	9/22/2015	110.3	6.16	--	104.14	--	--	--	--	--	--	--	--	--	
MW-5	11/10/2015	110.3	6.41	--	103.89	--	--	--	--	--	--	--	--	--	
MW-5	6/07/2016	110.3	6.07	--	104.23	--	--	--	--	--	--	--	--	<0.0051	
MW-5	9/19/2016	110.3	6.01	--	104.29	--	--	--	--	--	--	--	--	<0.0062	
MW-5	6/02/2017	110.3	6.35	--	103.95	--	--	--	--	--	--	--	--	<0.0062	
MW-5	8/18/2017	110.66	5.49	--	105.17	--	--	--	--	--	--	--	--	<0.0060	
MW-5	6/20/2018	110.66	5.5	--	105.16	--	--	--	--	--	--	--	--	<b>0.0183 J</b>	
MW-5	11/1/2018	110.66	6.1	--	104.56	--	--	--	--	--	--	--	--	<0.0071	

**Table 2. Historical Groundwater Gauging and Analytical Results  
Fourth Quarter 2007 to Current**

Chevron Site 351860  
5138 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft msl)	DTW (ft btoc)	LNAPL		TPH-g (mg/L)	TPH-d (mg/L)	TPH-r (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Lead (mg/L)	Comments
				Thickness (ft)	GWE (ft)									
<b>ADEC Groundwater Cleanup Levels</b>						<b>2.2</b>	<b>1.5</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.015</b>	
MW-5	4/24/2019	111.03	6.05	0.00	104.98	--	--	--	--	--	--	--	< 0.0071	DTW taken from Well Survey on 6/3/2019
MW-5	9/16/2019	111.03	6.61	0.00	104.42	-- [--]	--	-- [--]	-- [--]	-- [--]	-- [--]	-- [--]	<b>0.0029 J [0.0035 J]</b>	
MW-6	12/18/2007	109.19	5.04	--	104.15	<b>0.31</b>	--	--	<b>0.037</b>	<b>0.002</b>	--	<b>0.03</b>	--	
MW-6	5/27/2009	115.78	4.8	--	110.98	<b>0.35</b>	<b>0.31</b>	--	<b>0.041</b>	<b>0.0015</b>	<b>0.0029</b>	<b>0.044</b>	<b>0.00027</b>	
MW-6	9/24/2009	115.78	5.68	--	110.1	<b>0.31</b>	<0.50	--	<b>0.035</b>	<b>0.0019 J</b>	<b>0.0005 J</b>	<b>0.042</b>	<b>0.171</b>	
MW-6	11/9/2009	115.78	5.6	--	110.18	<b>0.65</b>	<b>1.2 J</b>	--	<b>0.03</b>	<b>0.0021</b>	<b>0.0082</b>	<b>0.074</b>	<b>0.0757</b>	
MW-6	3/3/2010	109.08	--	--	--	--	--	--	--	--	--	--	--	
MW-6	5/7/2010	109.08	5	--	104.08	<b>0.27</b>	<b>0.55</b>	--	<b>0.036</b>	<b>0.0015 J</b>	<b>0.0012 J</b>	<b>0.036</b>	<b>0.0386</b>	
MW-6	7/19/2010	109.08	5.29	--	103.79	<b>0.21</b>	<b>0.91</b>	--	<b>0.027</b>	<b>0.0014 J</b>	<0.0005	<b>0.033</b>	<b>0.0438</b>	
MW-6	10/4/2010	109.08	5.45	--	103.63	<b>0.19</b>	<b>0.29</b>	--	<b>0.02</b>	<b>0.0011 J</b>	<0.0005	<b>0.026</b>	<b>0.0724</b>	
MW-6	4/20/2011	109.08	4.78	--	104.3	<b>1.7</b>	--	--	<b>0.016</b>	<b>0.0062</b>	<b>0.025</b>	<b>0.11</b>	--	
MW-6	6/7/2011	109.08	5.18	--	103.9	<b>0.27</b>	<b>0.37</b>	--	<b>0.027</b>	<b>0.0013 J</b>	<b>0.0011 J</b>	<b>0.029</b>	<b>0.0339 J</b>	
MW-6	9/16/2011	109.08	5.38	--	103.7	<b>0.18</b>	<b>0.74</b>	--	<b>0.02</b>	<b>0.0011 J</b>	<0.0005	<b>0.029</b>	<b>0.072</b>	
MW-6	10/31/2011	109.08	5.61	--	103.47	--	--	--	--	--	--	--	--	
MW-6	11/1/2011	--	--	--	--	<b>0.16</b>	<0.25	--	<b>0.021</b>	<b>0.0012 J</b>	<0.0005	<b>0.031</b>	<b>0.155</b>	
MW-6	6/20/2012	109.08	4.34	--	104.74	<b>0.22</b>	<b>0.68</b>	--	<b>0.016</b>	<b>0.0008 J</b>	<b>0.0009 J</b>	<b>0.019</b>	<b>0.0084 J</b>	
MW-6	9/19/2012	109.08	3.56	--	105.52	<b>0.2</b>	<b>0.35</b>	--	<b>0.017</b>	<b>0.0014 J</b>	<b>0.0051</b>	<b>0.038</b>	<b>0.0209</b>	
MW-6	11/7/2012	109.08	3.95	--	105.13	<b>0.15</b>	<b>0.31</b>	--	<b>0.022</b>	<b>0.0007 J</b>	<0.0005	<b>0.013</b>	<b>0.0412</b>	
MW-6	6/8/2013	109.08	4.08	--	105	--	--	--	--	--	--	--	--	
MW-6	6/10/2013	--	--	--	--	<b>0.14</b>	<b>0.32 J</b>	--	<b>0.022</b>	<b>0.00024 J</b>	<b>0.0014</b>	<b>0.0097</b>	<b>0.0059 J</b>	
MW-6	6/10/2013	--	--	--	--	<b>0.13</b>	<b>0.58</b>	--	<b>0.021</b>	<b>0.00031 J</b>	<0.00024	<b>0.007</b>	<0.0012	collected via hydrasleeve
MW-6	8/18/2013	109.08	4.9	--	104.18	--	--	--	--	--	--	--	--	
MW-6	8/20/2013	--	--	--	--	<b>0.23</b>	<b>0.61</b>	--	<b>0.02</b>	<b>0.00096 J</b>	<0.00024	<b>0.024</b>	<b>0.043</b>	
MW-6	6/5/2014	109.08	4.93	--	104.15	<b>0.14</b>	<b>0.28 J</b>	--	<b>0.012</b>	<b>0.00056 J</b>	<b>0.0011</b>	<b>0.017</b>	<b>0.0024 J</b>	
MW-6	9/22/2014	109.08	4.34	--	104.74	<b>0.21</b>	<b>0.27 J</b>	--	<b>0.013</b>	<b>0.00081 J</b>	<b>0.00092 J</b>	<b>0.027</b>	<0.0018	
MW-6	4/30/2015	109.08	5.51	--	103.57	<b>0.25</b>	<b>0.38</b>	--	<b>0.02</b>	<b>0.001 J</b>	<b>0.0012 J</b>	<b>0.028</b>	<0.0047	
MW-6	9/22/2015	109.08	4.96	--	104.12	<b>0.15</b>	<b>0.099 J</b>	--	<b>0.012</b>	<b>0.0008 J</b>	<0.0005	<b>0.022</b>	<0.0051	
MW-6	11/10/2015	109.08	5.18	--	103.9	<b>0.13</b>	<b>0.47</b>	--	<b>0.013</b>	<b>0.0007 J</b>	<0.0005	<b>0.019</b>	<0.0051	
MW-6	6/08/2016	109.08	4.91	--	104.17	<b>0.51</b>	<b>0.64</b>	--	<b>0.013</b>	<b>0.001</b>	<b>0.014</b>	<b>0.067</b>	<0.0051	
MW-6	9/20/2016	109.08	4.79	--	104.29	<b>0.098 J</b>	<b>0.43</b>	--	<b>0.008</b>	<0.0005	<b>0.0009 J</b>	<b>0.016</b>	<0.0062	
MW-6	6/02/2017	109.08	5.1	--	103.98	<b>0.04 J</b>	<b>0.41</b>	--	<b>0.005</b>	<0.0005	<0.0005	<b>0.003</b>	<0.0062	
MW-6	8/18/2017	109.38	4.01	--	105.37	<b>0.15</b>	<b>0.24 J</b>	--	<b>0.006</b>	<0.0005	<b>0.006</b>	<b>0.014</b>	<0.0060	
MW-6	6/20/2018	109.38	4.18	--	105.2	<b>0.1</b>	<b>0.22 J</b>	--	<b>0.009</b>	<0.0005	<0.0005	<b>0.012</b>	<b>0.0151 J</b>	
MW-6	11/2/2018	109.38	4.84	--	104.54	<b>0.11</b>	<b>0.26</b>	--	<b>0.011</b>	<b>0.0005 J</b>	<0.0002	<b>0.015</b>	<b>0.015</b>	
MW-6	4/24/2019	109.75	4.78	0.00	104.97	<b>0.31</b>	< 0.49B	--	<b>0.004</b>	< 0.001B	<b>0.009</b>	<b>0.019</b>	< 0.0071	DTW taken from Well Survey on 6/3/2019
MW-6	9/16/2019	109.75	5.23	0.00	104.52	< 0.10	--	<b>0.5</b>	<b>0.008</b>	< 0.002B	<b>0.0016 J</b>	<b>0.01164 J</b>	<b>0.0040 J</b>	
MW-7	12/18/2007	109.79	5.63	--	104.16	<b>2.97 / 2.95</b>	<b>1.16 / 1.1</b>	<0.41 / 0.465	<b>0.006 / 0.007</b>	<b>0.044 / 0.033</b>	<b>0.052 / 0.049</b>	<b>0.415 / 0.385</b>	--	
MW-7	5/27/2009	116.42	5.43	--	110.99	<b>0.088</b>	<b>4.1</b>	--	<b>0.0031</b>	<b>0.0009</b>	<b>0.0032</b>	<b>0.016</b>	<b>0.0179</b>	
MW-7	9/24/2009	116.42	6.34	--	110.08	<b>1.7</b>	<b>2.4 J</b>	--	<b>0.022</b>	<b>0.0043</b>	<b>0.026</b>	<b>0.12</b>	<b>0.118</b>	
MW-7	11/9/2009	116.42	6.23	--	110.19	<b>1.4</b>	<b>2.1 J</b>	--	<b>0.029</b>	<b>0.0047</b>	<b>0.049</b>	<b>0.22</b>	<b>0.0862</b>	
MW-7	3/3/2010	109.71	6.72	--	102.99	<b>1.1 / 1.1</b>	<b>0.66 J / 0.60 J</b>	--	<b>0.0094 / 0.0091</b>	<b>0.001 J / 0.001 J</b>	<b>0.024 / 0.024</b>	<b>0.13 / 0.13</b>	<b>0.0144 J / 0.0162</b>	
MW-7	5/7/2010	109.71	5.65	--	104.06	<0.010	<b>0.6</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	<b>0.0129 J</b>	

**Table 2. Historical Groundwater Gauging and Analytical Results  
Fourth Quarter 2007 to Current**

Chevron Site 351860  
5138 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft msl)	DTW (ft btoc)	LNAPL			TPH-g (mg/L)	TPH-d (mg/L)	TPH-r (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Lead (mg/L)	Comments
				Thickness (ft)	GWE (ft)										
<b>ADEC Groundwater Cleanup Levels</b>							<b>2.2</b>	<b>1.5</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.015</b>	
MW-7	7/19/2010	109.71	5.94	--	103.77	0.011 J	5.1 J	--	0.0023	0.0006 J	<0.0005	<0.0015	0.0202		
MW-7	10/4/2010	109.71	5.13	--	104.58	0.046 J	2.3	--	0.0036	<0.0005	0.0016 J	0.0057	0.0273		
MW-7	4/20/2011	109.71	5.62	--	104.09	0.019 J	5.2	--	<0.0005	<0.0005	<0.0005	<0.0015	<0.0069		
MW-7	6/7/2011	109.71	5.81	--	103.9	0.57	4.4 J	--	0.0051	0.0008 J	0.039	0.12	0.0173 J		
MW-7	9/16/2011	109.71	6.06	--	103.65	0.050 J	2.2	--	0.0006 J	<0.0005	0.0011 J	0.0028 J	0.0456		
MW-7	10/31/2011	109.71	6.27	--	103.44	--	--	--	--	--	--	--	--		
MW-7	11/1/2011	--	--	--	--	0.25	2.1	--	0.01	0.0011 J	0.017	0.06	0.0191		
MW-7	6/20/2012	109.71	5.01	--	104.7	0.97	2.6	--	0.0065	0.028	0.033	0.093	0.0061 J		
MW-7	9/19/2012	109.71	4.41	--	105.3	1.9	1.8	--	0.017	0.064	0.057	0.28	<0.0051		
MW-7	11/7/2012	109.71	4.58	--	105.13	2.6	2.1	--	0.021	0.05	0.077	0.32	0.0125 J		
MW-7	6/8/2013	109.71	4.75	--	104.96	--	--	--	--	--	--	--	--		
MW-7	6/10/2013	--	--	--	--	1.3 J	3.3	--	0.0059	0.011	0.044	0.2	<0.0012		
MW-7	6/10/2013	--	--	--	--	1	2.4	--	0.0048	0.0053	0.03	0.13	0.0025 J	collected via hydrasleeve	
MW-7	8/18/2013	109.71	5.54	--	104.17	--	--	--	--	--	--	--	--		
MW-7	8/20/2013	--	--	--	--	<0.050	1.2	--	<0.00024	<0.00023	<0.00024	<0.00072	0.011		
MW-7	11/4/2013	109.71	5.14	--	104.57	--	--	--	--	--	--	--	--		
MW-7	11/8/2013	--	--	--	--	<0.050	2.8	--	0.00058 J	<0.00023	<0.00024	<0.00072	0.0048 J		
MW-7	6/5/2014	109.71	5.57	--	104.14	0.25	1.3	--	0.0045	0.018	0.011	0.047	0.0026 J		
MW-7	9/22/2014	109.71	5.01	--	104.7	1.6	1.2	--	0.0074	0.014	0.05	0.25	0.0024 J		
MW-7	4/30/2015	109.71	6.14	--	103.57	2.5	1.4	--	0.016	0.19	0.13	0.48	<0.0047		
MW-7	9/22/2015	109.71	5.54	--	104.17	0.43	0.3	--	0.0023	0.0009 J	0.0062	0.082	<0.0051		
MW-7	11/10/2015	109.71	6.86	--	102.85	0.12	2	--	0.002	0.0008 J	0.004	0.017	0.0065 J		
MW-7	6/7/2016	109.71	5.43	--	104.28	1.3 / 1.4	2.3 / 2.2	--	0.006 / 0.007	0.012 / 0.012	0.047 / 0.049	0.23 / 0.24	<0.0051		
MW-7	9/20/2016	109.71	5.46	--	104.25	0.14	0.73	--	0.001	0.001	0.004	0.023	<0.0062		
MW-7	6/2/2017	109.71	5.74	--	103.97	0.084 J	2.1	--	0.001	<0.0005	0.003	0.009	<0.0062		
MW-7	8/18/2017	110.06	4.81	--	105.25	2.3	2.0 J	--	0.012	0.039	0.11	0.5	<0.0060		
MW-7	6/19/2018	110.06	4.89	--	105.17	1.2 / 1.2	1.6 J / 1.6 J	--	0.005 / 0.005	0.002 / 0.002	0.039 / 0.036	0.16 / 0.14	<0.0071 / 0.0179 J		
MW-7	11/02/2018	110.06	5.5	--	104.56	0.23	1.3	--	0.001	0.0007 J	0.005	0.02	<0.0071		
MW-7	4/24/2019	110.43	5.45	0.00	104.98	0.13	2.5	--	0.002	0.006	0.006	0.026	< 0.0071	DTW taken from Well Survey on 6/3/2019	
MW-7	9/16/2019	110.43	5.97	0.00	104.46	1.3	--	1.3	0.0095	0.011	0.079	0.351 D	0.0028 J		
MW-8	9/24/2009	--	6.42	--	--	10	4.4	--	0.066	0.075	0.29	1.5	0.0397		
MW-8	11/9/2009	--	6.33	--	--	6	4.1	--	0.11	0.035	0.087	0.51	0.0685		
MW-8	3/3/2010	109.75	--	--	--	--	--	--	--	--	--	--	--		
MW-8	5/7/2010	109.75	5.77	--	103.98	5.7 / 6.5	2.6 / 2.7	--	0.091 / 0.090	0.099 / 0.097	0.14 / 0.14	0.66 / 0.65	0.0412 / 0.0290		
MW-8	7/19/2010	109.75	6.06	--	103.69	7	7.1	--	0.081	0.15	0.28	1.4	0.0666		
MW-8	10/4/2010	109.75	6.23	--	103.52	3.3	1.1	--	0.12	0.065	0.08	0.43	0.0154		
MW-8	4/19/2011	109.75	4.74	--	105.01	--	--	--	--	--	--	--	--		
MW-8	4/20/2011	--	--	--	--	7.7	2.8	--	0.03	0.091	0.27	1.2	0.0254		
MW-8	6/7/2011	109.75	5.91	--	103.84	25	5.5	--	0.17	0.53	1.1	5.1	0.0301 J		
MW-8	9/16/2011	109.75	6.15	--	103.6	3.3	2.9	--	0.1	0.13	0.21	0.96	0.0308		
MW-8	10/31/2011	109.75	6.38	--	103.37	--	--	--	--	--	--	--	--		
MW-8	11/1/2011	--	--	--	--	3.8 / 2.9	0.91 J / 1.7 J	--	0.11 / 0.11	0.066 J / 0.037 J	0.13 J / 0.086 J	0.69 J / 0.49 J	0.0229 / 0.0242		
MW-8	6/20/2012	109.75	5.11	--	104.64	2.5	2.2	--	0.061	0.027	0.078	0.33	0.0061 J		

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Fourth Quarter 2007 to Current**

Chevron Site 351860  
5138 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft msl)	DTW (ft btoc)	LNAPL			TPH-g (mg/L)	TPH-d (mg/L)	TPH-r (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Lead (mg/L)	Comments
				Thickness (ft)	GWE (ft)										
<b>ADEC Groundwater Cleanup Levels</b>							<b>2.2</b>	<b>1.5</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.015</b>	
MW-8	9/19/2012	109.75	4.55	--	105.2	1.6	2.2	--	0.043	0.0047	0.021	0.1	<0.0051		
MW-8	11/7/2012	109.75	4.65	--	105.1	2.3	0.87	--	0.1	0.0061	0.037	0.25	0.0076 J		
MW-8	6/8/2013	109.75	4.85	--	104.9	--	--	--	--	--	--	--	--		
MW-8	6/10/2013	--	--	--	--	7.4	3.1	--	0.03	0.055	0.24	1.5	0.0036 J		
MW-8	6/10/2013	--	--	--	--	8.2	2.9	--	0.032	0.075	0.34	1.6	0.0019 J	collected via hydrasleeve	
MW-8	8/18/2013	109.75	5.66	--	104.09	--	--	--	--	--	--	--	--		
MW-8	8/20/2013	--	--	--	--	1.9	1.9	--	0.0013	0.0036	0.048	0.28	0.018		
MW-8	11/4/2013	109.75	5.25	--	104.5	--	--	--	--	--	--	--	--		
MW-8	11/8/2013	--	--	--	--	1.6	1.1	--	0.09	0.002	0.032	0.17	0.0022 J		
MW-8	6/5/2014	109.75	5.73	--	104.02	5.2 J	2	--	0.026	0.025	0.2	1.1	0.0037 J		
MW-8	9/22/2014	109.75	5.15	--	104.6	1.5	0.76	--	0.01	0.0013 J	0.028	0.15	0.0026 J		
MW-8	4/30/2015	109.75	6.2	--	103.61	6.1	1.7	--	0.045	0.0089	0.18	0.71	<0.0047		
MW-8	9/22/2015	109.66	5.68	--	103.98	3.6	1.8	--	0.027	0.0087	0.18	0.77	<0.0051		
MW-8	11/10/2015	109.66	5.85	--	103.81	4.9	2.1	--	0.047	<0.005	0.13	0.66	0.0097 J		
MW-8	6/8/2016	109.75	5.57	--	104.18	4.4	2.4	--	0.013	0.007	0.1	0.5	<0.0051		
MW-8	9/20/2016	109.75	5.46	--	104.29	4.5	2.8	--	0.016	0.003 J	0.13	0.66	<0.0062		
MW-8	6/02/2017	109.75	5.79	--	103.96	11	1.7 J	--	0.031	0.016	0.33	1.8	0.0088 J		
MW-8	8/18/2017	109.98	4.89	--	105.09	5.3	1.4 J	--	0.015	0.006	0.18	0.81	0.0086 J		
MW-8	6/19/2018	109.98	4.91	--	105.07	5.7	1.8 J	--	0.008	0.003 J	0.19	0.78	<0.0071		
MW-8	11/2/2018	109.98	5.53	--	104.45	5.5 / 5.3	1.4 / 1.5	--	0.045 / 0.046	0.003 J / 0.003 J	0.19 / 0.18	0.85 / 0.83	0.0142 J / 0.0159		
MW-8	4/24/2019	110.39	5.48	0.00	104.91	0.93	< 0.45BJ	--	0.0005 J	< 0.0002	0.012	0.056	< 0.0071	DTW taken from Well Survey on 6/3/2019	
MW-8	9/16/2019	110.39	5.99	0.00	104.40	4.7	--	1.4	0.02	0.0037	0.2 D	0.098 D	0.011 J		
MW-9	9/24/2009	--	5.84	--	--	31	2.6	--	0.057	0.61	1.2	8	0.0883		
MW-9	11/9/2009	--	5.76	--	--	26 / 30	5.1 / 4.7	--	0.053 / 0.057	0.38 / 0.47	0.91 / 1.1	6.2 / 8.0	0.0817 J / 0.0484 J		
MW-9	3/3/2010	109.18	--	--	--	--	--	--	--	--	--	--	--		
MW-9	5/7/2010	109.18	5.13	--	104.05	38	2.7	--	0.053	0.6	1.1	9	0.0221		
MW-9	7/19/2010	109.18	5.45	--	103.73	27 / 23	7.3 / 5.7	--	0.050 / 0.044	0.20 / 0.17	0.88 / 0.73	7.0 / 5.9	0.0395 J / 0.0746 J		
MW-9	10/4/2010	109.18	5.62	--	103.56	39 / 38	<2.4 UJ / <2.7 UJ	--	0.076 / 0.072	0.46 / 0.39	1.2 / 1.2	8.5 / 8.2	0.0112 J / 0.0204 J		
MW-9	4/20/2011	109.18	4.9	--	104.28	11 / 9.3	2.2 J / 2.2 J	--	0.030 / 0.027	0.13 J / 0.095 J	0.24 / 0.20	2.4 / 1.9	0.0358 / 0.0378		
MW-9	6/7/2011	109.18	5.3	--	103.88	9.5 / 9.9	2.8 / 2.8	--	0.024 / 0.026	0.066 / 0.070	0.29 / 0.30	2.2 / 2.3	0.0751 J / 0.0221 J		
MW-9	9/16/2011	109.18	5.53	--	103.65	26 / 21	3.4 / 3.7	--	0.068 / 0.052	0.21 J / 0.12 J	1.0 J / 0.66 J	7.6 J / 5.2 J	0.0405 / 0.0497		
MW-9	10/31/2011	109.18	5.75	--	103.43	--	--	--	--	--	--	--	--		
MW-9	11/1/2011	--	--	--	--	18	2.0 J	--	0.047	0.11	0.74	4.4	0.0304		
MW-9	6/20/2012	109.18	4.47	--	104.71	19 / 23	3.3 / 3.1	--	0.042 / 0.049	0.11 / 0.14	0.51 / 0.60	3.9 / 4.7	0.0112 J / 0.0067 J		
MW-9	9/19/2012	109.18	3.65	--	105.53	7.7 / 8.1	2.1 / 1.6	--	0.019 / 0.021	0.071 / 0.072	0.18 / 0.20	1.6 / 1.7	0.0104 J / 0.0067 J		
MW-9	11/7/2012	109.18	4.18	--	105	10 / 9.5	1.8 / 1.7	--	0.029 / 0.027	0.037 / 0.034	0.15 / 0.14	1.2 / 1.1	0.0164 / 0.0244		
MW-9	6/8/2013	109.18	4.25	--	104.93	--	--	--	--	--	--	--	--		
MW-9	6/9/2013	--	--	--	--	7.8 / 8.6	1.6 / 1.5	--	0.014 / 0.013	0.051 / 0.057	0.15 / 0.15	1.2 J / 1.4	0.0041 J / 0.0046 J		
MW-9	6/9/2013	--	--	--	--	12.1 / 15.7	2.0 J / 2.7 J	--	0.017 J / 0.0080 J	0.14 / 0.15	0.33 J / 0.25	2.8 J / 2.7	0.0062 J / 0.0046 J	collected via hydrasleeve	
MW-9	8/18/2013	109.18	5.07	--	104.11	--	--	--	--	--	--	--	--		
MW-9	8/20/2013	--	--	--	--	17.7 J / 8.0 J	2.2 / 2.2	--	0.017 / 0.012	0.11 J / 0.055 J	0.33 J / 0.17 J	3.3 J / 1.6 J	0.040 / 0.032		
MW-9	11/4/2013	109.18	4.68	--	104.50	--	--	--	--	--	--	--	--		
MW-9	11/08/2013	--	--	--	--	17.0 / 11.3	1.3 J / 2.2 J	--	0.016 / 0.010	0.10 J / 0.048 J	0.42 J / 0.20 J	3.6 J / 1.6 J	0.017 / 0.020		

**Table 2. Historical Groundwater Gauging and Analytical Results  
Fourth Quarter 2007 to Current**

Chevron Site 351860  
5138 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft msl)	DTW (ft btoc)	LNAPL		TPH-g (mg/L)	TPH-d (mg/L)	TPH-r (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Lead (mg/L)	Comments
				Thickness (ft)	GWE (ft)									
<b>ADEC Groundwater Cleanup Levels</b>						<b>2.2</b>	<b>1.5</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.015</b>	
MW-9	6/5/2014	109.18	5.15	--	104.03	4.9 J / 5.2	1.2 / 1.2	--	0.0078 / 0.0080	0.031 / 0.028	0.13 / 0.12	1.0 / 1.0	0.0024 J / 0.0025 J	
MW-9	9/22/2014	109.18	4.52	--	104.66	7.4 / 7.3	1.1 / 1.2	--	0.0088 / 0.0084	0.036 / 0.034	0.17 / 0.16	1.4 / 1.3	0.0030 J / 0.0029 J	
MW-9	4/30/2015	109.18	5.62	--	102.98	7.3 / 8.5	2.0 / 2.3	--	0.026 / 0.028	0.040 / 0.052	0.13 / 0.18	0.80 J / 1.4 J	<0.0047 / <0.0047	
MW-9	9/22/2015	109.18	5.01	--	104.17	7.6 / 7.2	1.4 / 1.3	--	0.021 / 0.022	0.044 / 0.043	0.20 / 0.20	1.8 / 1.7	<0.0051 / <0.0051	
MW-9	11/10/2015	109.18	5.37	--	103.81	4.7 / 4.5	1.1 / 1.1	--	0.012 / 0.012	0.007 J / 0.007	0.065 / 0.068	0.49 / 0.51	<0.0051 / <0.0051	
MW-9	6/8/2016	109.18	4.98	--	104.2	6.2 / 6.1	1.3 / 1.2	--	0.008 J / 0.009 J	0.035 / 0.034	0.15 / 0.15	1.1 / 1.2	<0.0051 / <0.0051	
MW-9	9/20/2016	109.18	5.09	--	104.09	10 / 11	1.9 / 1.9	--	<0.010 / <0.010	0.035 / 0.037	0.21 / 0.21	1.9 / 1.9	<0.0062 / <0.0062	
MW-9	6/02/2017	109.18	5.25	--	103.93	11 / 10	1.7 / 1.3	--	0.009 J / 0.008 J	0.043 / 0.048	0.22 / 0.24	2.3 / 2	<0.0062 / <0.0062	
MW-9	8/18/2017	109.41	4.1	--	105.31	9.2 / 8.8	1.4 J / 1.4 J	--	0.003 J / 0.003 J	0.025 / 0.023	0.20 / 0.19	1.7 / 1.6	<0.0060 / <0.0060	
MW-9	6/20/2018	109.41	4.27	--	105.14	4.8 / 4.6	0.67 J / 0.63 J	--	0.003 J / 0.003 J	0.015 / 0.014	0.079 / 0.082	0.65 / 0.63	<0.0071 / 0.0144 J	
MW-9	11/1/2018	109.41	4.96	--	104.45	7.4 / 7.1	0.93 / 0.90	--	0.004 J / 0.004 J	0.019 / 0.019	0.14 / 0.14	1.2 / 1.2	<0.0071 / <0.0071	
MW-9	4/24/2019	109.76	4.81	0.00	104.95	6.0	0.72	--	0.004	0.022	0.12	0.72 D	< 0.0071	DTW taken from Well Survey on 6/3/2019
MW-9	9/16/2019	109.76	5.26	0.00	104.50	5.3	--	0.94	0.0044	0.02	0.14 D	1.09 D	< 0.0027	
MW-10	8/18/2017	110.29	6.7	--	103.59	0.76	0.42 J	--	0.015	0.0005 J	0.002	0.15	<0.0060	
MW-10	6/19/2018	110.29	6.07	--	104.22	0.71	0.23 J	--	0.009	<0.0005	0.003	0.092	<0.0071	
MW-10	11/1/2018	110.29	6.75	--	103.54	0.7	0.35	--	0.011	0.0004 J	0.002	0.15	0.0080 J	
MW-10	4/24/2019	110.29	6.65	0.00	103.64	0.92	< 0.39B	--	0.012	< 0.001B	0.007	0.15	< 0.0071	
MW-10	9/16/2019	110.29	7.25	0.00	103.04	0.82	--	0.54	0.017	< 0.002 B	0.0025 J	0.19072 DJ	0.0030 J	
Trip Blank	5/27/2009	--	--	--	--	<0.01	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	
Trip Blank	9/24/2009	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	
Trip Blank	9/24/2009	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	
Trip Blank	11/9/2009	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	
Trip Blank	3/1/2010	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	
Trip Blank	5/7/2010	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	
Trip Blank	7/19/2010	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	
Trip Blank	10/4/2010	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	
Trip Blank	4/20/2011	--	--	--	--	<0.010 / <0.010	--	--	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0015 / <0.0015	--	
Trip Blank	6/7/2011	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	
Trip Blank	9/16/2011	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	
Trip Blank	11/1/2011	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	
Trip Blank	6/20/2012	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	
Trip Blank	9/19/2012	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	
Trip Blank	11/7/2012	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	
Trip Blank-1	6/9/2013	--	--	--	--	<0.050	--	--	<0.00024	<0.00023	<0.00024	<0.00072	--	
Trip Blank-2	6/9/2013	--	--	--	--	<0.050	--	--	<0.00024	<0.00023	<0.00024	<0.00072	--	
Trip Blank-3	6/9/2013	--	--	--	--	<0.050	--	--	<0.00024	<0.00023	<0.00024	<0.00072	--	
Trip Blank-4	6/9/2013	--	--	--	--	<0.050	--	--	<0.00024	<0.00023	<0.00024	<0.00072	--	
Trip Blank	6/10/2013	--	--	--	--	<0.050	--	--	<0.00024	<0.00023	<0.00024	<0.00072	--	
Trip Blank	8/20/2013	--	--	--	--	<0.050	--	--	<0.00024	<0.00023	<0.00024	<0.00072	--	
Trip Blank-1	11/8/2013	--	--	--	--	<0.050	--	--	<0.00024	<0.00023	<0.00024	<0.00072	--	
Trip Blank-2	11/8/2013	--	--	--	--	<0.050	--	--	<0.00024	<0.00023	<0.00024	<0.00072	--	
Trip Blank	6/5/2014	--	--	--	--	<0.050	--	--	<0.00015	<0.00011	<0.00016	<0.00040	--	

**Table 2. Historical Groundwater Gauging and Analytical Results  
Fourth Quarter 2007 to Current**

Chevron Site 351860  
5138 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft msl)	DTW (ft btoc)	LNAPL			TPH-g (mg/L)	TPH-d (mg/L)	TPH-r (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Lead (mg/L)	Comments
				Thickness (ft)	GWE (ft)										
<b>ADEC Groundwater Cleanup Levels</b>							<b>2.2</b>	<b>1.5</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.015</b>	
Trip Blank	9/22/2014	--	--	--	--	<0.050	--	--	<0.00015	<0.00011	<0.00016	<0.00040	--		
Trip Blank	4/30/2015	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--		
Trip Blank	9/22/2015	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--		
Trip Blank	6/8/2016	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--		
Trip Blank	9/20/2016	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--		
Trip Blank	6/2/2017	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--		
Trip Blank	8/18/2017	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--		
Trip Blank	6/20/2018	--	--	--	--	<0.010	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--		
Trip Blank	11/2/2018	--	--	--	--	<0.014	--	--	<0.0002	<0.0002	<0.0002	<b>0.0005 U</b>	--		
Trip Blank	4/24/2019	--	--	--	--	< 0.014	--	--	< 0.0002	< 0.0002	< 0.0004	< 0.001	--		
QA (TB)	9/16/2019	--	--	--	--	< 0.10	--	--	< 0.00053	< 0.00039	< 0.0005	<0.00114			
QA (EQB)	9/16/2019	--	--	--	--	< 0.10	--	< 0.088	< 0.00053	<b>0.00072 J</b>	< 0.0005	<0.00114	< 0.0027		
<b>Per the ADEC, MW-6 from Chevron Facility 9-5414 is included on this table and is down gradient from the site.</b>															
MW-6	6/13/2011	110.61	7.8	--	102.81	<b>0.012</b>	<b>3.7</b>	--	<0.005	<0.0005	<0.0005	<0.0015	--		
MW-6	9/15/2011	110.61	7.99	--	102.62	<b>0.01</b>	<b>2.8</b>	--	<0.005	<0.0005	<0.0005	<0.0015	--		
MW-6	3/21/2012							WELL UNDER SNOW PILE							
MW-6	6/20/2012	110.1	7.29	--	103.81	--	<b>1.5</b>	--	--	--	--	--	--		
MW-6	7/05/2012	--	--	--	--	<0.010	--	--	<0.005	<0.0005	<0.0005	<0.0015	--		
MW-6	9/19/2012	110.1	6.76	--	104.34	<0.010	<b>0.81</b>	--	<0.0005	<0.0005	<0.0005	<0.0015	--		
MW-6	6/9/2013	110.1	6.99	--	104.11	<0.050	<b>1.4</b>	--	<0.00024	<0.00023	<0.00024	<0.00072	<b>0.025</b>		
MW-6	6/9/2013	110.1	6.99	--	104.11	<0.050	<b>2.1</b>	--	<0.00024	<0.00023	<0.00024	<0.00072	<b>0.0024 J</b>	collected via hydrasleeve	
MW-6	8/18/2013	110.1	6.61	--	104.49	--	--	--	--	--	--	--	--		
MW-6	8/20/2013	--	--	--	--	<0.050	<b>2.1</b>	--	<0.00024	<0.00023	<0.00024	<0.00072	<b>0.023</b>		
MW-6	5/12/2014	110.1	7.65	--	103.45	<0.1	<b>0.89</b>	--	<0.001	<0.001	<0.001	<0.003	--		
MW-6	5/12/2014	110.1	7.65	--	103.45	<0.1	<b>1.6</b>	--	<0.001	<0.001	<0.001	<0.003	--	collected via hydrasleeve	
MW-6	9/12/2014	110.1	5.5	--	105.56	<0.1	<b>0.89</b>	--	<0.001	<0.001	<0.001	<0.003	--		
MW-6	9/22/2015	110.1	7.62	--	102.48	<0.1	<b>1.4</b>	--	<0.001	<0.001	<0.001	<0.001	<0.0150		
MW-6	11/09/2015	110.1	8.31	--	101.79	<0.010	<b>0.63</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0051		
MW-6	6/7/2016	111.1	7.88	--	103.22	<0.010	<b>0.0013</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	--		
MW-6	9/21/2016	111.1	7.44	--	103.66	<0.010	<b>2.7</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	--		
MW-6	6/1/2017	111.1	7.45	--	103.65	<0.010	<b>3</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
MW-6	8/16/2017	111.1	7.88	--	103.22	<0.010	<b>1.7 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	--		
MW-6	6/18/2018	111.1	6.91	--	104.19	<0.010	<b>2.4 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	--		
MW-6	10/31/2018	111.1	7.58	--	103.52	<0.014	<b>2.4 J</b>	--	<0.0002	<0.0002	<0.0002	<0.0005	--		
MW-6	5/14/2019	111.16	7.44	0.00	103.72	<b>0.77 J</b>	< 0.014	--	< 0.0002	< 0.0002	< 0.0004	< 0.001	--		
MW-6	9/17/2019	111.16	8.08	0.00	103.08	<0.1	<b>1.2</b>	--	--	< 0.00020 B	< 0.00020 B	<0.00050 B	--		

**Table 2. Historical Groundwater Gauging and Analytical Results  
Fourth Quarter 2007 to Current**

Chevron Site 351860  
5138 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft msl)	LNAPL			TPH-g (mg/L)	TPH-d (mg/L)	TPH-r (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Lead (mg/L)	Comments
			DTW (ft btoc)	Thickness (ft)	GWE (ft)									
<b>ADEC Groundwater Cleanup Levels</b>					<b>2.2</b>	<b>1.5</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.015</b>		

**Notes:**

ID = Identification

MW = Groundwater monitoring well

TOC = Top of casing

DTW = Depth to groundwater

ft bTOC = Feet below top of casing

ft = Feet

GW Elev = Groundwater elevation

mg/L = Milligrams per liter

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

**Bold and Shaded** = Value exceeds ADEC Groundwater Cleanup Level

**Bold** = Value exceeds MDL

-- = Not Available or Not Analysed

LNAPL = Light Non-Aqueous Phase Liquid

[BD] = Blind Duplicate Sample

NADV88 = North American Vertical Datum of 1988

QA (EQB) = Quality Assurance (Equipment Blank)

QA (TB) = Quality Assurance (Trip Blank)

ADEC = Alaska Department of Environmental Conservation

TPH-g = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to Alaska Series Method AK101

TPH-d = Total petroleum hydrocarbons, diesel range by LUFT GC/MS according to Alaska Series Method AK102-SV 4/8/02

TPH-r = Total petroleum hydrocarbons, residual range organics by LUFT GC/MS according to Alaska Series Method AK102-SV 4/8/02

Samples analyzed by USEPA Method 8260C:

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

Lead by USEPA Method 6010C

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

UJ = The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation

D = The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect

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

**Table 3. Historical Groundwater Poly Aromatic Hydrocarbons Analytical Data**  
 Chevron Site 351860  
 5138 Old Seward Highway  
 Anchorage, Alaska

Well ID	Sample Date	Acenaphthene mg/L	Acenaphthylene mg/L	Anthracene mg/L	Benzo(a)anthracene mg/L	Benzo(a)pyrene mg/L	Benzo(b)fluoranthene mg/L	Benzo(g,h,i)perylene mg/L	Benzo(k)fluoranthene mg/L	Chrysene mg/L	Dibenz(a,h)anthracene mg/L	Fluoranthene mg/L	Fluorene mg/L	Indeno[1,2,3-cd]pyrene mg/L	Naphthalene mg/L	Phenanthrene mg/L	Pyrene mg/L
ADEC Groundwater Cleanup Levels		0.53	0.26	0.043	0.0012	0.00034	0.00034	0.00026	0.0008	0.002	0.00034	0.26	0.29	0.0019	0.0017	0.17	0.12
MW-2	09/19/2016	<b>0.00014 J</b>	<0.00011	<0.00011	<b>0.00041 J</b>	<b>0.00069</b>	<b>0.00013</b>	<b>0.000070</b>	<b>0.00053 J</b>	<b>0.00015</b>	<b>0.00012 J</b>	<b>0.000099</b>	<b>0.00022 J</b>	<b>0.00039 J</b>	<0.00032	<b>0.000084</b>	<b>0.00018</b>
MW-6	09/20/2016	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<b>0.00005 J</b>	<0.00010	<b>0.000011 J</b>	<0.00010	<0.00010	<b>0.00064</b>	<0.00030	<0.00010
MW-7	09/20/2016	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<b>0.00027</b>	<b>0.000028</b>	<0.000094
MW-8	05/07/2010	<b>0.00016 J / 0.000017 J</b>	<0.00010 / <0.00010	<0.00010 / <0.00010	<0.00010 / <0.00010	<0.00010 / <0.00010	<0.00010 / <0.00010	<0.00010 / <b>0.000011 J</b>	<0.00010 / <0.00010	<0.00010 / <0.00010	<0.00010 / <0.00010	<0.00010 / <b>0.000012 J</b>	<b>0.00037 J / 0.000033 J</b>	<0.00010 / <0.00010	<b>0.021 J / 0.030 J</b>	<b>0.00034 J / 0.000031 J</b>	<0.00010 / <b>0.00013 J</b>
MW-8	07/19/2010	<b>0.00030 J</b>	<0.00010	<b>0.00015 J</b>	<b>0.00019 J</b>	<b>0.00012 J</b>	<b>0.000034 J</b>	<b>0.00015 J</b>	<b>0.00011 J</b>	<b>0.00055 J</b>	<b>0.000068 J</b>	<b>0.000051 J</b>	<0.00010	<0.00010	<b>0.013 J</b>	<b>0.00014 J</b>	<b>0.000051 J</b>
MW-8	09/20/2016	<b>0.00035 J</b>	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<b>0.00043 J</b>	<0.000029	<0.000097
MW-9	05/07/2010	<b>0.00066</b>	<b>0.00021 J</b>	<b>0.00033 J</b>	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<b>0.00013 J</b>	<0.00011	<b>0.00024 J</b>	<b>0.00035</b>	<0.00011	<b>0.031</b>	<b>0.00015</b>	<b>0.00025 J</b>
MW-9	07/19/2010	<b>0.00012 J / 0.00014 J</b>	<0.00060 / <0.00010	<b>0.00074 J / 0.000061 J</b>	<b>0.00016 J / 0.000030 J</b>	<b>0.00011 J / 0.000017 J</b>	<b>0.00029 J / 0.000047 J</b>	<b>0.00017 J / 0.000023 J</b>	<0.00010 / <0.00010	<b>0.00066 J / 0.000079 J</b>	<0.00010 / <0.00010	<b>0.00010 J / 0.00017 J</b>	<b>0.00070 J / 0.00095 J</b>	<0.00010 / <0.00010	<b>0.026 J / 0.032 J</b>	<b>0.00064 J / 0.00071 J</b>	<b>0.00012 J / 0.00017 J</b>
MW-9	09/20/2016	<b>0.00073 / 0.00062</b>	<b>&lt;0.000097 / 0.00014 J</b>	<b>0.00013 J / 0.000012 J</b>	<0.000097 / <0.000097	<0.000097 / <0.000097	<0.000097 / <0.000097	<0.000097 / <0.000097	<0.000097 / <0.000097	<0.000097 / <0.000097	<0.000097 / <0.000097	<b>0.00010 J / &lt;0.000097</b>	0.00023 / 0.00021	<0.000097 / <0.000097	<b>0.020 / 0.020</b>	<b>0.00011 / 0.00011</b>	<b>0.00012 J / 0.00014 J</b>

**Notes:**  
 ID = Identification  
 MW = Groundwater monitoring well  
 mg/L = Milligrams per liter  
 <0.0002 = Not detected at or above the method detection limit (MDL)  
**Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level**  
**Bold = Value exceeds MDL**  
 -- = Not Available or Not Analysed  
 J = The compound was positively identified; however, the associated numerical value is an estimated concentration only  
 ADEC = Alaska Department of Environmental Conservation  
 PAHs = poly aromatic hydrocarbons by Method SW8270



**Table 4. Historical MNA Analytical Results  
Fourth Quarter 2007 to Current**

Chevron Site 351860  
5138 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	Methane (mg/L)	Nitrogen, Nitrate as N (mg/L)	Sulfate (SO <sub>4</sub> ) (mg/L)	Ferrous Iron (mg/L)	Total Alkalinity (mg CaCO <sub>3</sub> /L)	Phenolphthalein Alkalinity (mg/L)	Comments
MW-1	12/18/2007	--	--	--	--	--	--	
MW-1	5/26/2009	<b>0.012</b>	<0.25	<b>14.4</b>	--	<b>392</b>	<0.46	
MW-1	9/24/2009	<0.0050	<b>1.8 J</b>	<b>9.1</b>	--	<b>529</b>	<0.46	
MW-1	11/9/2009	--	--	--	--	--	--	
MW-1	3/1/2010	--	--	--	--	--	--	
MW-1	5/7/2010	--	--	--	--	--	--	
MW-1	07/19/2010	--	--	--	--	--	--	
MW-1	10/4/2010	--	--	--	--	--	--	
MW-1	4/19/2011	--	--	--	--	--	--	
MW-1	6/7/2011	--	--	--	--	--	--	
MW-1	9/16/2011	--	--	--	--	--	--	
MW-1	10/31/2011	--	--	--	--	--	--	
MW-1	11/1/2011	--	--	--	--	--	--	
MW-1	6/20/2012	--	--	--	--	--	--	
MW-1	9/19/2012	--	--	--	--	--	--	
MW-1	11/7/2012	--	--	--	--	--	--	
MW-1	6/8/2013	--	--	--	--	--	--	
MW-1	6/9/2013	<b>0.018</b>	<b>0.21 J</b>	<b>9.6 J</b>	--	<b>326</b>	--	
MW-1	6/9/2013	<0.0033	<b>0.33 J</b>	<b>7.2 J</b>	--	<b>322</b>	--	collected via hydrasleeve
MW-1	8/18/2013	--	--	--	--	--	--	
MW-1	8/20/2013	<b>0.0038 J</b>	<0.050 J	<1.2	--	<b>387</b>	--	
MW-1	11/04/2013	--	--	--	--	--	--	
MW-1	6/5/2014	<0.0033	<b>0.12 J</b>	<1.2	--	<b>419</b>	--	
MW-1	9/22/2014	<b>0.048</b>	<0.050 J	<1.2 R	--	<b>507</b>	--	
MW-1	4/30/2015	<b>0.081</b>	<b>2.7 J</b>	<b>18.7</b>	--	<b>372</b>	<0.70	
MW-1	9/22/2015	--	--	--	--	--	--	
MW-1	11/10/2015	--	--	--	--	--	--	
MW-1	6/07/2016	<0.0030	<0.25J	<b>9.9</b>	--	<b>297</b>	<1.7	
MW-1	9/19/2016	--	R	<b>15.8</b>	--	<b>587</b>	--	
MW-1	6/02/2017	<b>0.0086</b>	<b>0.71 J</b>	<b>10.2</b>	--	<b>382</b>	--	
MW-1	8/17/2017	<b>0.022 / 0.023</b>	R / R	<b>9.3 / 9.0</b>	--	<b>272 / 283</b>	--	
MW-1	6/19/2018	<b>0.018</b>	<b>0.49 J</b>	<b>15</b>	--	<b>305</b>	--	
MW-1	11/1/2018	<b>0.04</b>	<b>0.67 J</b>	<b>10.8</b>	--	<b>516</b>	--	
MW-1	4/24/2019	<b>0.26</b>	<b>0.84 J</b>	<b>20.9</b>	<b>0.154</b>	<b>345</b>	< 1.7	
MW-1	9/16/2019	--	--	--	--	--	--	
MW-2	12/18/2007	--	--	--	--	--	--	
MW-2	5/27/2009	<b>0.021</b>	<0.25	<b>24.6</b>	--	<b>318</b>	<0.46	
MW-2	9/24/2009	<b>0.64</b>	<0.040 UJ	<b>15.9</b>	--	<b>399</b>	<0.46	
MW-2	11/9/2009	--	--	--	--	--	--	
MW-2	3/1/2010	--	--	--	--	--	--	
MW-2	5/7/2010	--	--	--	--	--	--	
MW-2	7/19/2010	--	--	--	--	--	--	
MW-2	10/4/2010	--	--	--	--	--	--	
MW-2	4/19/2011	--	--	--	--	--	--	
MW-2	4/20/2011	--	--	--	--	--	--	
MW-2	6/7/2011	--	--	--	--	--	--	
MW-2	9/16/2011	--	--	--	--	--	--	
MW-2	10/31/2011	--	--	--	--	--	--	
MW-2	11/1/2011	--	--	--	--	--	--	
MW-2	6/20/2012	--	--	--	--	--	--	
MW-2	9/19/2012	--	--	--	--	--	--	
MW-2	11/7/2012	--	<0.25	--	--	--	--	
MW-2	6/8/2013	--	--	--	--	--	--	
MW-2	6/9/2013	<b>0.25</b>	<0.050 J	<b>16.7 J</b>	--	<b>236</b>	--	
MW-2	6/9/2013	<b>0.049</b>	<b>0.22 J</b>	<b>14.1 J</b>	--	<b>201</b>	--	collected via hydrasleeve
MW-2	8/18/2013	--	--	--	--	--	--	
MW-2	8/20/2013	<0.0033	<b>0.70 J</b>	<b>3.8 J</b>	--	<b>16</b>	--	
MW-2	11/04/2013	--	--	--	--	--	--	
MW-2	11/08/2013	<b>0.0053 J</b>	<b>0.56 J</b>	<b>4</b>	--	<b>16.6</b>	--	

**Table 4. Historical MNA Analytical Results  
Fourth Quarter 2007 to Current**

Chevron Site 351860  
5138 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	Methane (mg/L)	Nitrogen, Nitrate as N (mg/L)	Sulfate (SO <sub>4</sub> ) (mg/L)	Ferrous Iron (mg/L)	Total Alkalinity (mg CaCO <sub>3</sub> /L)	Phenolphthalein Alkalinity (mg/L)	Comments
MW-2	6/5/2014	<0.0033	<0.050 J	9.3	--	296	--	
MW-2	9/22/2014	0.043	0.12 J	15.6 J	--	36.2	--	
MW-2	4/30/2015	0.039	<0.040 J	64.8	--	271	<0.70	
MW-2	9/22/2015	0.011	0.53	3.5 J	--	32.8	<0.70	
MW-2	11/10/2015	0.0067	<0.25 J	5.5	--	51	<0.70	
MW-2	6/07/2016	<0.0030	<0.25J	7.3	--	113	<1.7	
MW-2	9/19/2016	0.0078	R	2.3 J	--	20.7	--	
MW-2	6/02/2017	0.032	R	29.9	--	239	--	
MW-2	8/18/2017	0.045	R	<1.5	--	51.4	--	
MW-2	6/19/2018	0.022	<0.25 J	7.5	--	224	--	
MW-2	11/1/2018	0.24	R	<1.5	--	225	--	
MW-2	4/24/2019	< 0.003	0.75 J	25.2	0.0255 J	171	< 1.7	
MW-2	9/16/2019	0.14	< 0.20 BJ	8.7 J	--	--	--	
MW-3	5/27/2009	0.0057	3.6	36.1	--	248	<0.46	
MW-3	9/24/2009	0.11	0.10 J	33	--	354	<0.46	
MW-3	11/9/2009	--	--	--	--	--	--	
MW-3	3/3/2010	--	--	--	--	--	--	
MW-3	5/7/2010	--	--	--	--	--	--	
MW-3	7/19/2010	--	--	--	--	--	--	
MW-3	10/4/2010	--	--	--	--	--	--	
MW-3	4/19/2011	--	--	--	--	--	--	
MW-3	4/20/2011	--	--	--	--	--	--	
MW-3	6/7/2011	--	--	--	--	--	--	
MW-3	9/16/2011	--	--	--	--	--	--	
MW-3	10/31/2011	--	--	--	--	--	--	
MW-3	6/20/2012	--	--	--	--	--	--	
MW-3	9/19/2012	--	--	--	--	--	--	
MW-3	11/7/2012	--	1.3	--	--	--	--	
MW-3	6/8/2013	--	--	--	--	--	--	
MW-3	6/9/2013	<0.0033	0.40 J	18.4 J	--	263	--	
MW-3	6/9/2013	<0.0033	0.43 J	20.1 J	--	261	--	collected via hydrasleeve
MW-3	8/18/2013	--	--	--	--	--	--	
MW-3	8/20/2013	<0.0033	0.17 J	24.9 J	--	291	--	
MW-3	11/04/2013	--	--	--	--	--	--	
MW-3	6/5/2014	<0.0033	1.5 J	23.4	--	331	--	
MW-3	9/22/2014	0.014	0.16 J	28.8 J	--	394	--	
MW-3	4/30/2015	0.012	1.9	24.4	--	286	<0.70	
MW-3	9/22/2015	--	--	--	--	--	--	
MW-3	11/10/2015	--	--	--	--	--	--	
MW-3	6/07/2016	0.013	2.4	29.5	--	347	<1.7	
MW-3	9/19/2016	0.0053	0.46 J	26	--	378	--	
MW-3	6/02/2017	0.11	2.6 J	28.8	--	319	--	
MW-3	8/17/2017	0.0085	0.98 J	21.7	--	321	--	
MW-3	6/20/2018	<0.0030	3.6 J	27.9	--	300	--	
MW-3	11/1/2018	<0.0030	R	19	--	388	--	
MW-3	4/24/2019	< 0.003	1.6 J	16.3 J	0.116 J	273	< 1.7	
MW-3	9/16/2019	0.45	< 0.20 BJ	14	--	--	--	
MW-4	12/18/2007	--	--	--	--	--	--	
MW-4	9/24/2009	4.7 / 4.4	0.041 J / 0.047 J	7.9 / 7.7	--	322 / 319	<0.46 / <0.46	
MW-4	11/9/2009	--	--	--	--	--	--	
MW-4	3/3/2010	--	--	--	--	--	--	
MW-4	5/7/2010	--	--	--	--	--	--	
MW-4	7/19/2010	--	--	--	--	--	--	
MW-4	10/4/2010	--	--	--	--	--	--	
MW-4	4/19/2011	--	--	--	--	--	--	
MW-4	6/7/2011	--	--	--	--	--	--	
MW-4	9/16/2011	--	--	--	--	--	--	
MW-4	10/31/2011	--	--	--	--	--	--	
MW-4	11/1/2011	--	--	--	--	--	--	

**Table 4. Historical MNA Analytical Results  
Fourth Quarter 2007 to Current**

Chevron Site 351860  
5138 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	Methane (mg/L)	Nitrogen, Nitrate as N (mg/L)	Sulfate (SO <sub>4</sub> ) (mg/L)	Ferrous Iron (mg/L)	Total Alkalinity (mg CaCO <sub>3</sub> /L)	Phenolphthalein Alkalinity (mg/L)	Comments
MW-4	6/20/2012	--	--	--	--	--	--	
MW-4	9/19/2012	--	--	--	--	--	--	
MW-4	11/7/2012	--	--	--	--	--	--	
MW-4	6/8/2013	--	--	--	--	--	--	
MW-4	6/9/2013	<0.0033	1.2 J	24.0 J	--	175	--	
MW-4	6/9/2013	<0.0033	1.2 J	23.5 J	--	174	--	collected via hydrasleeve
MW-4	8/18/2013	--	--	--	--	--	--	
MW-4	8/20/2013	0.0059 J	0.23 J	33.4 J	--	252	--	
MW-4	11/04/2013	--	--	--	--	--	--	
MW-4	6/5/2014	0.079	1.2 J	22.3	--	264	--	
MW-4	9/22/2014	<0.0033	1.4 J	25.5 J	--	286	--	
MW-4	4/30/2015	0.26	3.3 J	22.1	--	246	<0.70	
MW-4	9/22/2015	--	--	--	--	--	--	
MW-4	11/10/2015	--	--	--	--	--	--	
MW-4	6/07/2016	0.95	0.8	11.8	--	321	<1.7	
MW-4	9/20/2016	--	0.72 J	19.5	--	320	--	
MW-4	6/02/2017	0.11	3.5 J	24.3	--	228	--	
MW-4	8/18/2017	0.0095	2.8 J	27.9	--	244	--	
MW-4	6/20/2018	0.0084	2.8 J	28.4	--	204	--	
MW-4	11/1/2018	0.022	1.4 J	28.3	--	260	--	
MW-4	4/24/2019	0.0074	0.8	8.2	1.26	216	< 1.7	
MW-4	9/16/2019	2.1	< 0.20 BJ	3.4	--	--	--	
MW-5	12/18/2007	--	--	--	--	--	--	
MW-5	5/27/2009	1.7	1.4	14.3	--	281	<0.46	
MW-5	9/24/2009	4	<0.040 UJ	6.9	--	310	<0.46	
MW-5	11/9/2009	--	--	--	--	--	--	
MW-5	3/3/2010	--	--	--	--	--	--	
MW-5	5/7/2010	--	--	--	--	--	--	
MW-5	7/19/2010	--	--	--	--	--	--	
MW-5	4/19/2011	--	--	--	--	--	--	
MW-5	6/7/2011	--	--	--	--	--	--	
MW-5	9/16/2011	--	--	--	--	--	--	
MW-5	10/31/2011	--	--	--	--	--	--	
MW-5	11/1/2011	--	--	--	--	--	--	
MW-5	6/20/2012	--	--	--	--	--	--	
MW-5	9/19/2012	--	--	--	--	--	--	
MW-5	11/7/2012	--	--	--	--	--	--	
MW-5	6/8/2013	--	--	--	--	--	--	
MW-5	6/9/2013	<0.0033	1.1 J	21.1 J	--	227	--	
MW-5	6/9/2013	<0.0033	1.1 J	21.1 J	--	220	--	collected via hydrasleeve
MW-5	8/18/2013	--	--	--	--	--	--	
MW-5	8/20/2013	0.0044 J	0.34 J	27.3 J	--	303	--	
MW-5	11/04/2013	--	--	--	--	--	--	
MW-5	6/5/2014	2.4	0.39 J	9.4	--	314	--	
MW-5	9/22/2014	0.62	0.80 J	23.9 J	--	336	--	
MW-5	4/30/2015	4.3	1.1 J	6.2	--	297	<0.70	
MW-5	9/22/2015	--	--	--	--	--	--	
MW-5	11/10/2015	--	--	--	--	--	--	
MW-5	6/07/2016	4.4	<0.25	<1.5	--	331	<1.7	
MW-5	9/19/2016	--	0.34 J	16.1	--	352	--	
MW-5	6/02/2017	0.32	1.7 J	15.8	--	276	--	
MW-5	8/18/2017	0.24	1.9 J	26	--	284	--	
MW-5	6/20/2018	0.0035 J	2.9 J	29.2	--	246	--	
MW-5	11/1/2018	0.14	1.1 J	16.6 J	--	324	--	
MW-5	4/24/2019	0.13	1.5	11.2	0.672	242	< 1.7	
MW-5	9/16/2019	3.4 [3.7]	< 0.20 BJ [ $< 0.20$ BJ]	< 1.2 B [ $< 1.2$ B]	--	--	--	
MW-6	12/18/2007	--	--	--	--	--	--	
MW-6	5/27/2009	2.8	<0.25	2.1	--	317	<0.46	
MW-6	9/24/2009	9.1	<0.040 UJ	2.8 J	--	313	<0.46	

**Table 4. Historical MNA Analytical Results  
Fourth Quarter 2007 to Current**

Chevron Site 351860  
5138 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	Methane (mg/L)	Nitrogen, Nitrate as N (mg/L)	Sulfate (SO <sub>4</sub> ) (mg/L)	Ferrous Iron (mg/L)	Total Alkalinity (mg CaCO <sub>3</sub> /L)	Phenolphthalein Alkalinity (mg/L)	Comments
MW-6	11/9/2009	--	--	--	--	--	--	
MW-6	3/3/2010	--	--	--	--	--	--	
MW-6	5/7/2010	--	--	--	--	--	--	
MW-6	7/19/2010	--	--	--	--	--	--	
MW-6	10/4/2010	--	--	--	--	--	--	
MW-6	4/20/2011	--	--	--	--	--	--	
MW-6	6/7/2011	--	--	--	--	--	--	
MW-6	9/16/2011	--	--	--	--	--	--	
MW-6	10/31/2011	--	--	--	--	--	--	
MW-6	11/1/2011	--	--	--	--	--	--	
MW-6	6/20/2012	--	--	--	--	--	--	
MW-6	9/19/2012	--	--	--	--	--	--	
MW-6	11/7/2012	--	<0.25	--	--	--	--	
MW-6	6/8/2013	--	--	--	--	--	--	
MW-6	6/10/2013	5.5	<0.050 J	<1.2	--	292	--	
MW-6	6/10/2013	5.6	<0.050 J	<1.2	--	293	--	collected via hydrasleeve
MW-6	8/18/2013	--	--	--	--	--	--	
MW-6	8/20/2013	7.3	<0.050 J	<1.2	--	304	--	
MW-6	6/5/2014	4.8	<0.050 J	2.7	--	345	--	
MW-6	9/22/2014	6	<0.050 J	<1.2 R	--	294	--	
MW-6	4/30/2015	8.5	<0.040	<1.5	--	315	<0.70	
MW-6	9/22/2015	7.4	<0.25	<1.5	--	303	<0.70	
MW-6	11/10/2015	6.2	<0.25	<1.5	--	293	<0.70	
MW-6	6/08/2016	4.5	<0.25	<1.5	--	264	<1.7	
MW-6	9/20/2016	3.5	<0.25 J	<1.5	--	328 J	--	
MW-6	6/02/2017	0.48	R	<1.5	--	299	--	
MW-6	8/18/2017	5.3	R	4.7 J	--	220	--	
MW-6	6/20/2018	8.2 J	<0.25 J	<1.5	--	298	--	
MW-6	11/2/2018	8	R	<1.5 J	--	304	--	
MW-6	4/24/2019	3.5	0.42 J	11.3	13.9	160	< 1.7	
MW-6	9/16/2019	5	< 0.20 BJ	< 1.2 B	--	--	--	
MW-7	12/18/2007	--	--	--	--	--	--	
MW-7	5/27/2009	0.39	1	37.9	--	247	<0.46	
MW-7	9/24/2009	3.1	<0.040 UJ	10	--	329	<0.46	
MW-7	11/9/2009	--	--	--	--	--	--	
MW-7	3/3/2010	--	--	--	--	--	--	
MW-7	5/7/2010	--	--	--	--	--	--	
MW-7	7/19/2010	--	--	--	--	--	--	
MW-7	10/4/2010	--	--	--	--	--	--	
MW-7	4/20/2011	--	--	--	--	--	--	
MW-7	6/7/2011	--	--	--	--	--	--	
MW-7	9/16/2011	--	--	--	--	--	--	
MW-7	10/31/2011	--	--	--	--	--	--	
MW-7	11/1/2011	--	--	--	--	--	--	
MW-7	6/20/2012	--	--	--	--	--	--	
MW-7	9/19/2012	--	--	--	--	--	--	
MW-7	11/7/2012	--	<0.25	--	--	--	--	
MW-7	6/8/2013	--	--	--	--	--	--	
MW-7	6/10/2013	2.2	0.078 J	19.2 J	--	227	--	
MW-7	6/10/2013	1.8	<0.050 J	17.6 J	--	235	--	collected via hydrasleeve
MW-7	8/18/2013	--	--	--	--	--	--	
MW-7	8/20/2013	0.12	1.1 J	21.7 J	--	197	--	
MW-7	11/4/2013	--	--	--	--	--	--	
MW-7	11/8/2013	<0.0033	0.36 J	21	--	248	--	
MW-7	6/5/2014	0.48	0.22 J	17.1	--	256	--	
MW-7	9/22/2014	2.8	0.22 J	<1.2 R	--	331	--	
MW-7	4/30/2015	5.3	0.17	9.6	--	310	<0.70	
MW-7	9/22/2015	1.8	2.5	19.6	--	295	<0.70	
MW-7	11/10/2015	0.72	0.52 J	18.3	--	261	<0.70	
MW-7	6/7/2016	1.8	<0.25 J	3.9 J	--	339	<1.7	

**Table 4. Historical MNA Analytical Results  
Fourth Quarter 2007 to Current**

Chevron Site 351860  
5138 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	Methane (mg/L)	Nitrogen, Nitrate as N (mg/L)	Sulfate (SO <sub>4</sub> ) (mg/L)	Ferrous Iron (mg/L)	Total Alkalinity (mg CaCO <sub>3</sub> /L)	Phenolphthalein Alkalinity (mg/L)	Comments
MW-7	9/20/2016	0.76	1.3 J	23.9	--	315	--	
MW-7	6/2/2017	0.35	1.3 J	23.3	--	285	--	
MW-7	8/18/2017	2.2	R	<1.5	--	330	--	
MW-7	6/19/2018	1.3 / 1.4	<0.25 J / <0.25 J	3.5 J / 3.5 J	--	310 / 306	--	
MW-7	11/02/2018	0.71	1.7 J	26.3 J	--	260	--	
MW-7	4/24/2019	0.44	1.5	20.6	0.878	253	< 1.7	
MW-7	9/16/2019	1.9	< 0.20 BJ	< 1.2 B	--	--	--	
MW-8	9/24/2009	1.7	<0.040 UJ	4.2 J	--	357	<0.46	
MW-8	11/9/2009	--	--	--	--	--	--	
MW-8	3/3/2010	--	--	--	--	--	--	
MW-8	5/7/2010	--	--	--	--	--	--	
MW-8	7/19/2010	--	--	--	--	--	--	
MW-8	10/4/2010	--	--	--	--	--	--	
MW-8	4/19/2011	--	--	--	--	--	--	
MW-8	4/20/2011	--	--	--	--	--	--	
MW-8	6/7/2011	--	--	--	--	--	--	
MW-8	9/16/2011	--	--	--	--	--	--	
MW-8	10/31/2011	--	--	--	--	--	--	
MW-8	11/1/2011	--	--	--	--	--	--	
MW-8	6/20/2012	--	--	--	--	--	--	
MW-8	9/19/2012	--	--	--	--	--	--	
MW-8	11/7/2012	--	<0.25	--	--	--	--	
MW-8	6/8/2013	--	--	--	--	--	--	
MW-8	6/10/2013	2.8	<0.050 J	13.6	--	246	--	
MW-8	6/10/2013	3	<0.050 J	12.7	--	243	--	collected via hydrasleeve
MW-8	8/18/2013	--	--	--	--	--	--	
MW-8	8/20/2013	0.33	1.6 J	22.9 J	--	273	--	
MW-8	11/4/2013	--	--	--	--	--	--	
MW-8	11/8/2013	2	0.88 J	10.5	--	263	--	
MW-8	6/5/2014	1.4	0.075 J	2.9	--	316	--	
MW-8	9/22/2014	0.45	2.4 J	28.3 J	--	302	--	
MW-8	4/30/2015	5.4	0.2	2.5 J	--	348	<0.70	
MW-8	9/22/2015	1.7	3.5	18.7	--	325	<0.70	
MW-8	11/10/2015	2.6	<0.25 J	3.9 J	--	371	<0.70	
MW-8	6/8/2016	1.9 J	<0.25	<1.5	--	331	<1.7	
MW-8	9/20/2016	3.5	2.5 J	15.9	--	371 J	--	
MW-8	6/02/2017	1	0.5 J	24	--	294	--	
MW-8	8/18/2017	1.8	R	4.0 J	--	317	--	
MW-8	6/19/2018	1.3	<0.25 J	<1.5	--	300	--	
MW-8	11/2/2018	2.2 / 2.3	R / R	<1.5 J / <1.5 J	--	339 / 338	--	
MW-8	4/24/2019	0.022	5.5	37.3	2.73	284	< 1.7	
MW-8	9/16/2019	1.6	< 0.20 BJ	< 2.5 B	--	--	--	
MW-9	9/24/2009	6	<0.040 UJ	3.0 J	--	353	<0.46	
MW-9	11/9/2009	--	--	--	--	--	--	
MW-9	3/3/2010	--	--	--	--	--	--	
MW-9	5/7/2010	--	--	--	--	--	--	
MW-9	7/19/2010	--	--	--	--	--	--	
MW-9	10/4/2010	--	--	--	--	--	--	
MW-9	4/20/2011	--	--	--	--	--	--	
MW-9	6/7/2011	--	--	--	--	--	--	
MW-9	9/16/2011	--	--	--	--	--	--	
MW-9	10/31/2011	--	--	--	--	--	--	
MW-9	11/1/2011	--	--	--	--	--	--	
MW-9	6/20/2012	--	--	--	--	--	--	
MW-9	9/19/2012	--	--	--	--	--	--	
MW-9	11/7/2012	--	<0.25 / <0.25	--	--	--	--	
MW-9	6/8/2013	--	--	--	--	--	--	
MW-9	6/9/2013	1.7 / 1.6	0.058 J / !--	9.4 J / 9.8 J	--	146 / 153	--	
MW-9	6/9/2013	1.2 / 1.3	<0.050 J / <0.050 J	11.8 J / 12.4 J	--	124 / 129	--	collected via hydrasleeve

**Table 4. Historical MNA Analytical Results  
Fourth Quarter 2007 to Current**

Chevron Site 351860  
5138 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	Methane (mg/L)	Nitrogen, Nitrate as N (mg/L)	Sulfate (SO <sub>4</sub> ) (mg/L)	Ferrous Iron (mg/L)	Total Alkalinity (mg CaCO <sub>3</sub> /L)	Phenolphthalein Alkalinity (mg/L)	Comments
MW-9	8/18/2013	--	--	--	--	--	--	
MW-9	8/20/2013	2.7 / 3.5	<0.050 J / <0.050 J	7.4 J / 8.0 J	--	164 / 165	--	
MW-9	11/4/2013	--	--	--	--	--	--	
MW-9	11/08/2013	1.4 / 1.8	0.061 J / 0.057 J	<1.2 / <1.2	--	180 / 196	--	
MW-9	6/5/2014	3.9 / 3.8	<0.050 J / <0.050 J	<1.2 / <1.2	--	221 / 229	--	
MW-9	9/22/2014	4.4 / 3.7	0.15 J / 0.15 J	2.1 J / 2.3 J	--	176 / 177	--	
MW-9	4/30/2015	5.0 / 4.6	<0.040 / <0.040	3.2 J / 3.9 J	--	210 / 195	<0.70 / <0.70	
MW-9	9/22/2015	2.9 / 2.9	<0.25 / <0.25	<1.5 / <1.5	--	147 / 153	<0.70 / <0.70	
MW-9	11/10/2015	5.4 / 5.2	<0.25 / <0.25	<1.5 / <1.5	--	202 / 202	<0.70 / <0.70	
MW-9	6/8/2016	3.4 / 3.6	<0.25 / <0.25	5.1 / 4.8 J	--	143 / 174	<1.7 / <1.7	
MW-9	9/20/2016	0.87 / 0.65	<0.25 J / <0.25 J	2.8 J / 2.3 J	--	188 J / 186 J	--	
MW-9	6/02/2017	2.7 / 2.2	R / R	7.4 / 6.6	--	175 / 174	--	
MW-9	8/18/2017	0.64 / 0.64	1.4 J / 1.4 J	5.4 / 4.8 J	--	125 / 126	--	
MW-9	6/20/2018	1.2 / 1.1	0.85 J / 0.85 J	8.8 / 9.0	--	141 / 144	--	
MW-9	11/1/2018	1.6 / 1.6	R / R	<1.5 J / <1.5 J	--	124 / 128	--	
MW-9	4/24/2019	0.87	0.57	6	3.11	102	< 1.7	
MW-9	9/16/2019	0.88	< 0.020 J	< 2.2 B	--	--	--	
MW-10	8/18/2017	2.7	R	13.2	--	305	--	
MW-10	6/19/2018	1.9	<0.25 J	16.9	--	285	--	
MW-10	11/1/2018	1.5	R	27	--	327	--	
MW-10	4/24/2019	2.4	2	82.9	13.1	304	< 1.7	
MW-10	9/16/2019	2.8	< 0.20 BJ	< 1.3 B	--	--	--	
QA (TB)	5/27/2009	--	--	--	--	--	--	
QA (TB)	9/24/2009	--	--	--	--	--	--	
QA (TB)	9/24/2009	--	--	--	--	--	--	
QA (TB)	11/9/2009	--	--	--	--	--	--	
QA (TB)	3/1/2010	--	--	--	--	--	--	
QA (TB)	5/7/2010	--	--	--	--	--	--	
QA (TB)	7/19/2010	--	--	--	--	--	--	
QA (TB)	10/4/2010	--	--	--	--	--	--	
QA (TB)	4/20/2011	--	--	--	--	--	--	
QA (TB)	6/7/2011	--	--	--	--	--	--	
QA (TB)	9/16/2011	--	--	--	--	--	--	
QA (TB)	11/1/2011	--	--	--	--	--	--	
QA (TB)	6/20/2012	--	--	--	--	--	--	
QA (TB)	9/19/2012	--	--	--	--	--	--	
QA (TB)	11/7/2012	--	--	--	--	--	--	
QA (TB-1)	6/9/2013	--	--	--	--	--	--	
QA (TB-2)	6/9/2013	--	--	--	--	--	--	
QA (TB-3)	6/9/2013	--	--	--	--	--	--	
QA (TB-4)	6/9/2013	--	--	--	--	--	--	
QA (TB)	6/10/2013	--	--	--	--	--	--	
QA (TB)	8/20/2013	--	--	--	--	--	--	
QA (TB-1)	11/8/2013	--	--	--	--	--	--	
QA (TB-2)	11/8/2013	--	--	--	--	--	--	
QA (TB)	6/5/2014	--	--	--	--	--	--	
QA (TB)	9/22/2014	--	--	--	--	--	--	
QA (TB)	4/30/2015	--	--	--	--	--	--	
QA (TB)	9/22/2015	--	--	--	--	--	--	
QA (TB)	6/8/2016	--	--	--	--	--	--	
QA (TB)	9/20/2016	--	--	--	--	--	--	
QA (TB)	6/2/2017	--	--	--	--	--	--	
QA (TB)	8/18/2017	<0.0030	--	--	--	--	--	
QA (TB)	6/20/2018	--	--	--	--	--	--	
QA (TB)	11/2/2018	<0.0030	--	--	--	--	--	
QA (TB)	4/24/2019	--	--	--	--	--	--	
QA (TB)	9/16/2019	< 0.00025	--	--	--	--	--	
QA (EQB)	9/16/2019	< 0.00025	0.034 J	0.53 J	--	--	--	

**Table 4. Historical MNA Analytical Results  
Fourth Quarter 2007 to Current**

Chevron Site 351860  
5138 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	Methane (mg/L)	Nitrogen, Nitrate as N (mg/L)	Sulfate (SO <sub>4</sub> ) (mg/L)	Ferrous Iron (mg/L)	Total Alkalinity (mg CaCO <sub>3</sub> /L)	Phenolphthalein Alkalinity (mg/L)	Comments
<b>Per the ADEC, MW-6 from Chevron Facility 9-5414 is included on this table and is down gradient from the site.</b>								
MW-6	6/13/2011	--	--	--	--	--	--	
MW-6	9/15/2011	--	--	--	--	--	--	
MW-6	3/21/2012	--	--	--	--	--	--	
MW-6	6/20/2012	--	--	--	--	--	--	
MW-6	7/05/2012	--	--	--	--	--	--	
MW-6	9/19/2012	--	--	--	--	--	--	
MW-6	6/9/2013	<b>10</b>	<0.050 J	<b>18.7 J</b>	--	<b>414</b>	--	
MW-6	6/9/2013	<b>6.5</b>	<0.050 J	<b>27.0 J</b>	--	<b>329</b>	--	collected via hydrasleeve
MW-6	8/18/2013	--	--	--	--	--	--	
MW-6	8/20/2013	<b>13.1 J</b>	<0.050 J	<b>33.4 J</b>	--	<b>338</b>	--	
MW-6	5/12/2014	--	--	--	--	--	--	
MW-6	5/12/2014	--	--	--	--	--	--	collected via hydrasleeve
MW-6	9/12/2014	--	--	--	--	--	--	
MW-6	9/22/2015	--	--	--	--	--	--	
MW-6	11/09/2015	--	--	--	--	--	--	
MW-6	6/7/2016	--	--	--	--	--	--	
MW-6	9/21/2016	--	--	--	--	--	--	
MW-6	6/1/2017	--	--	--	--	--	--	
MW-6	8/16/2017	--	--	--	--	--	--	
MW-6	6/18/2018	--	--	--	--	--	--	
MW-6	10/31/2018	--	--	--	--	--	--	
MW-6	5/14/2019	--	--	--	--	--	--	
MW-6	9/17/2019	--	--	--	--	--	--	

**Notes:**

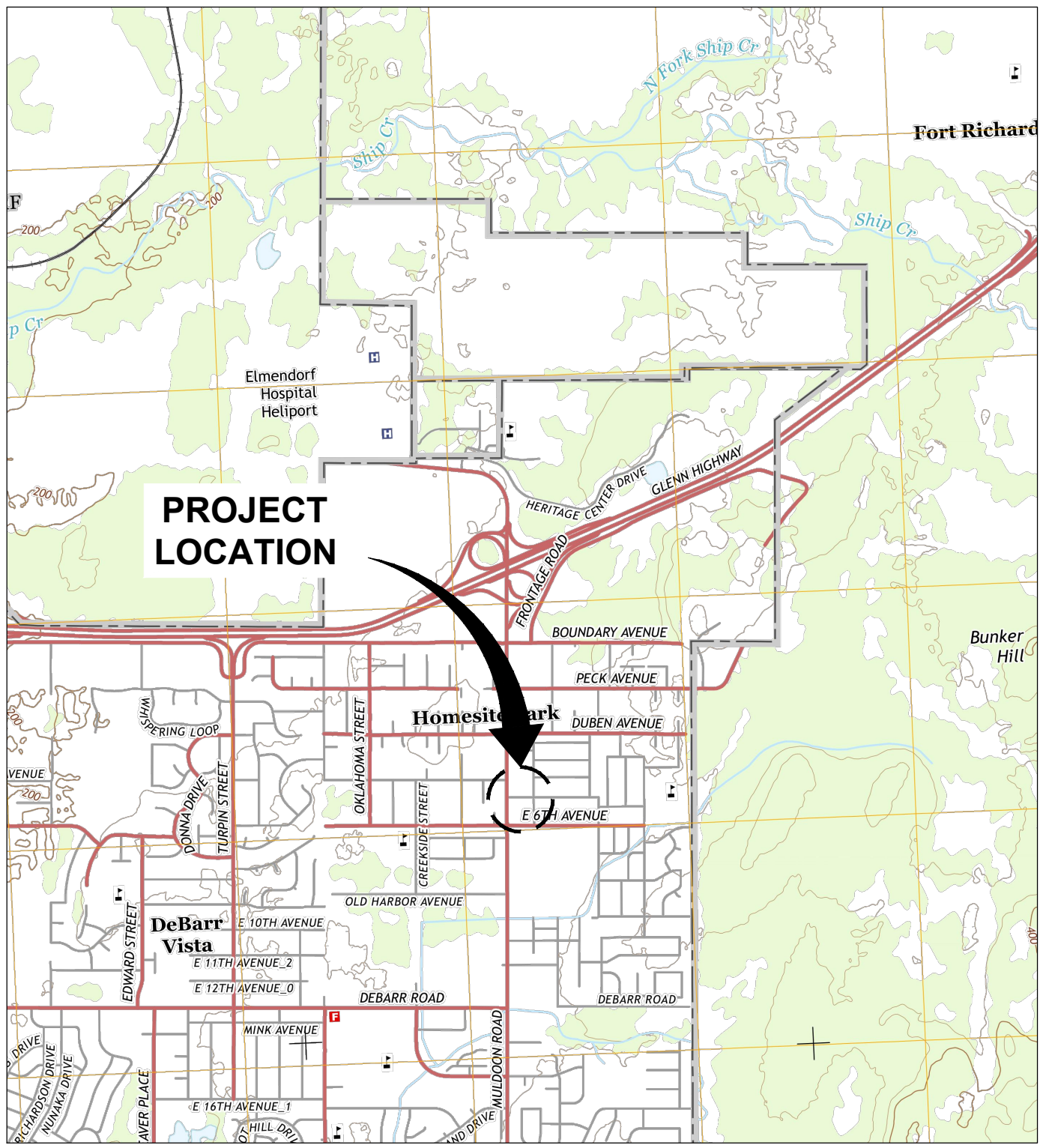
MNA = Monitored Natural Attenuation  
 ID = Identification  
 MW = Groundwater monitoring well  
 GW Elev = Groundwater elevation  
 mg/L = Milligrams per liter  
 mg CaCO<sub>3</sub>/L = milligrams of Calcium Carbonate per liter  
 <0.0002 = Not detected at or above the method detection limit (MDL)  
**Bold** = Value exceeds the MDL  
 [ ] = Blank Duplicate Sample  
 QA (EQB) = Quality Assurance (Equipment Blank)  
 QA (TB) = Quality Assurance (Trip Blank)  
 ADEC = Alaska Department of Environmental Conservation  
 Nitrate and Sulfate by USEPA Method 300  
 Ferrous Iron by USEPA Method B-2011  
 Total Alkalinity and Pheolpthalien Alakinity by USEPA Method B-2011  
 B = Compound considered non-detect at the listed value due to associated blank contamination  
 J = The compound was positively identified; however, the associated numerical value is an estimated concentration only

# FIGURES





CITY:\(Read) DIV\GROUP\Project DB\Read) LD\Opt) PIC\Opt) PM\Read) TM\Opt) L\YR\Opt\ON\OFF=REF\*  
 C:\Users\maged8191\OneDrive\Documents\ANNA - CHEVRON CORPORATION\Project Files\351860 - Chevron AK2019\GWR\AK000.188001-DWG\GWM-2019-FIG-1-SITE LOC.dwg LAYOUT: 1 SAVED: 8/20/2019 11:11 AM ACADVER: 23.1S (LMS TECH) PAGES: 10 PAGESETUP: ---- PLOTSTYLETABLE: PLT\FULL.CTB  
 PLOTTED: 12/19/2019 2:22 PM BY: NADIGERA, CHIDAMBARA

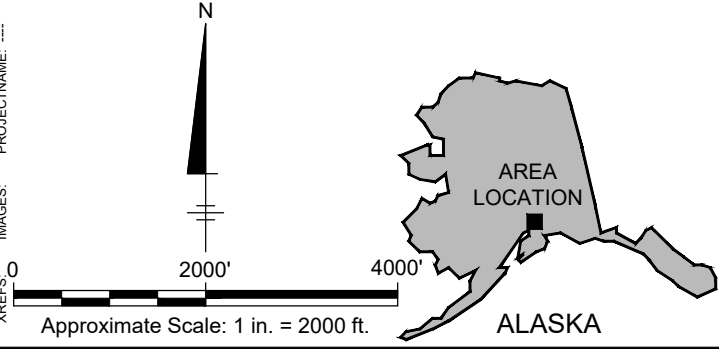


**PROJECT  
LOCATION**

**Homesite**

**DeBarr  
Vista**

REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., ANCHORAGE A-8 NE, ALASKA, 2019, NAD83.

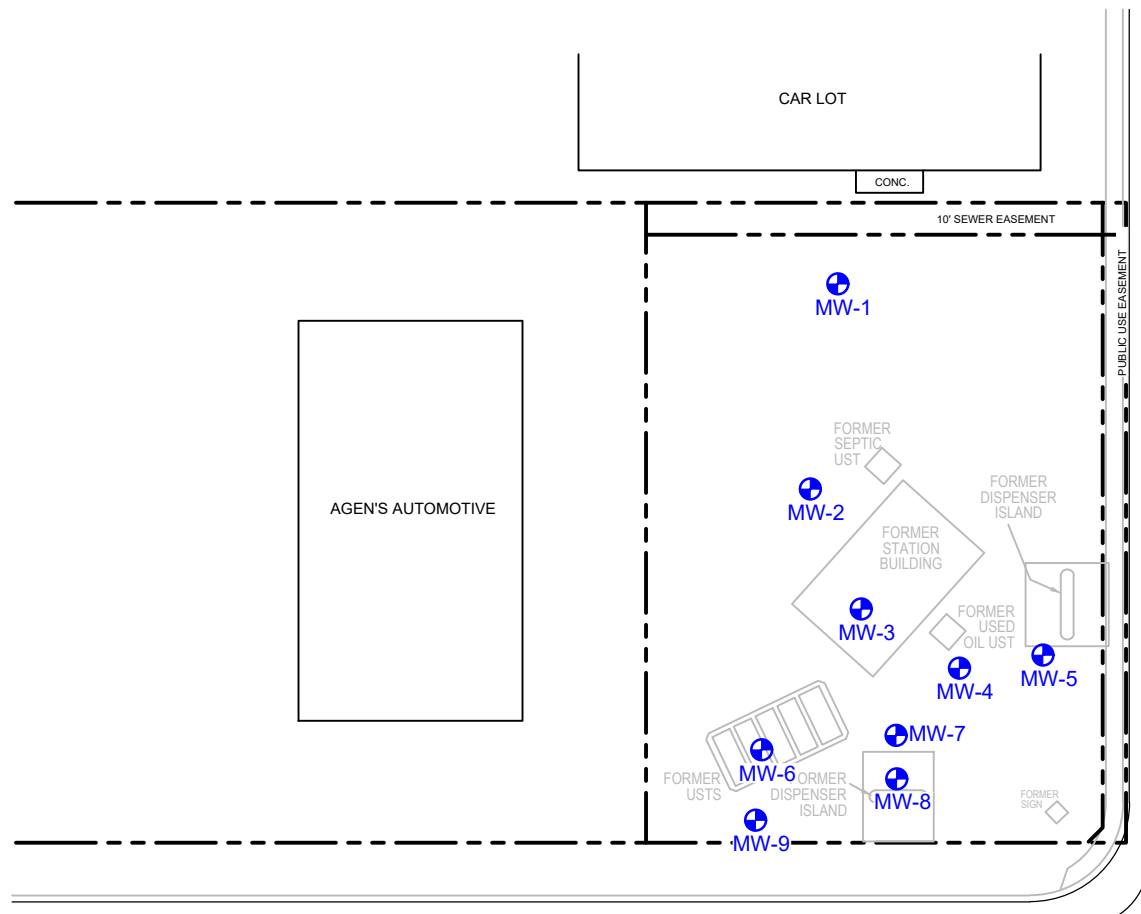


CHEVRON SITE 351860  
 5138 OLD SEWARD HIGHWAY,  
 ANCHORAGE, ALASKA

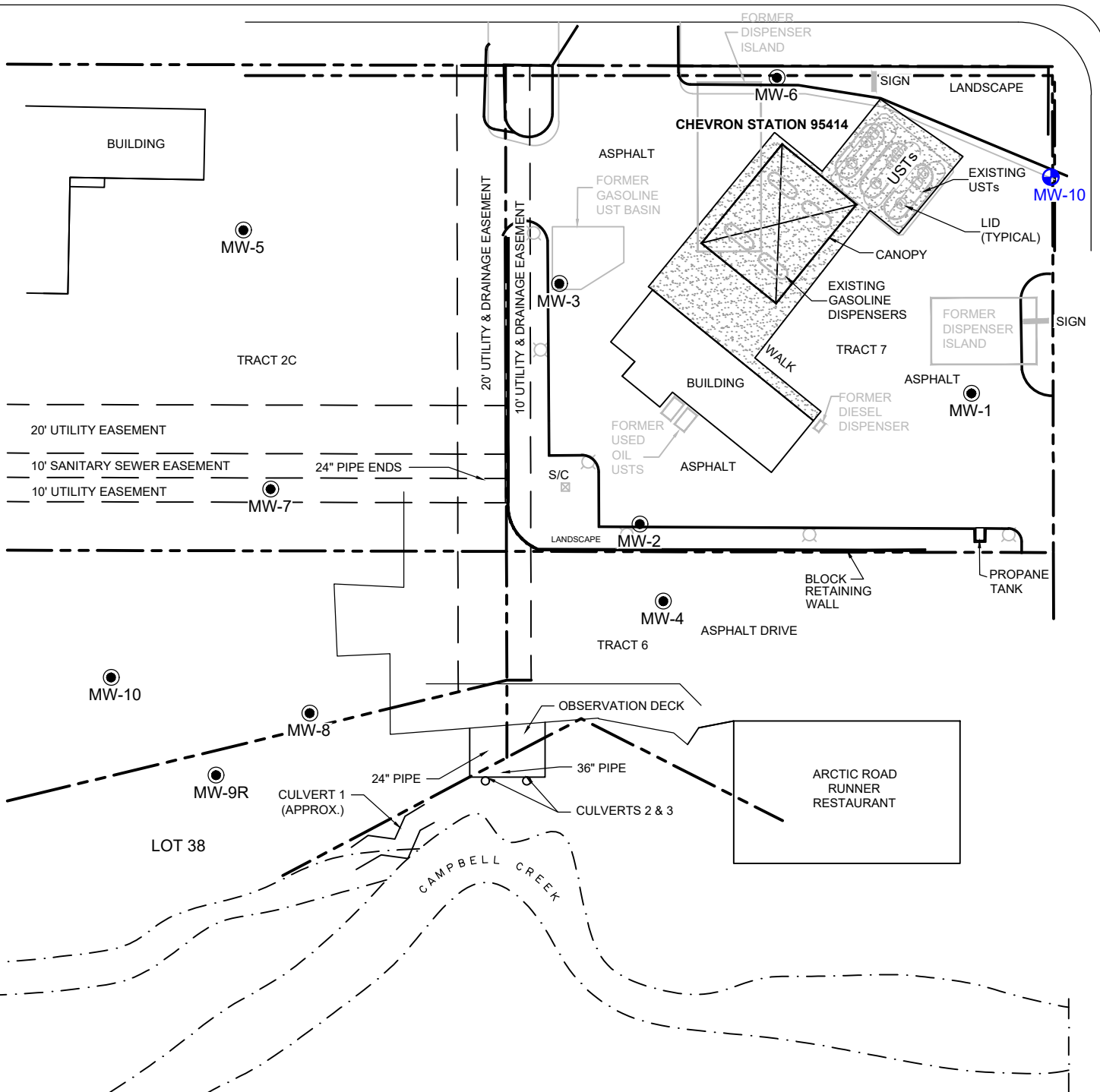
**SITE LOCATION MAP**

FIGURE  
**1**

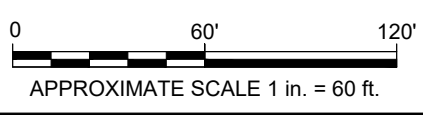
XREFS: IMAGES: PROJECTNAME: ---



INTERNATIONAL AIRPORT ROAD



OLD SEWARD HIGHWAY



**LEGEND**

- MW-3 GROUNDWATER MONITORING WELL FOR CHEVRON SITE 351860
- MW-4 GROUNDWATER MONITORING WELL FOR CHEVRON SITE 95414
- APPROXIMATE PROPERTY LINE
- EASEMENT
- RETAINING WALL
- CREEK
- LIGHT POLE
- SUMP

**NOTE:**

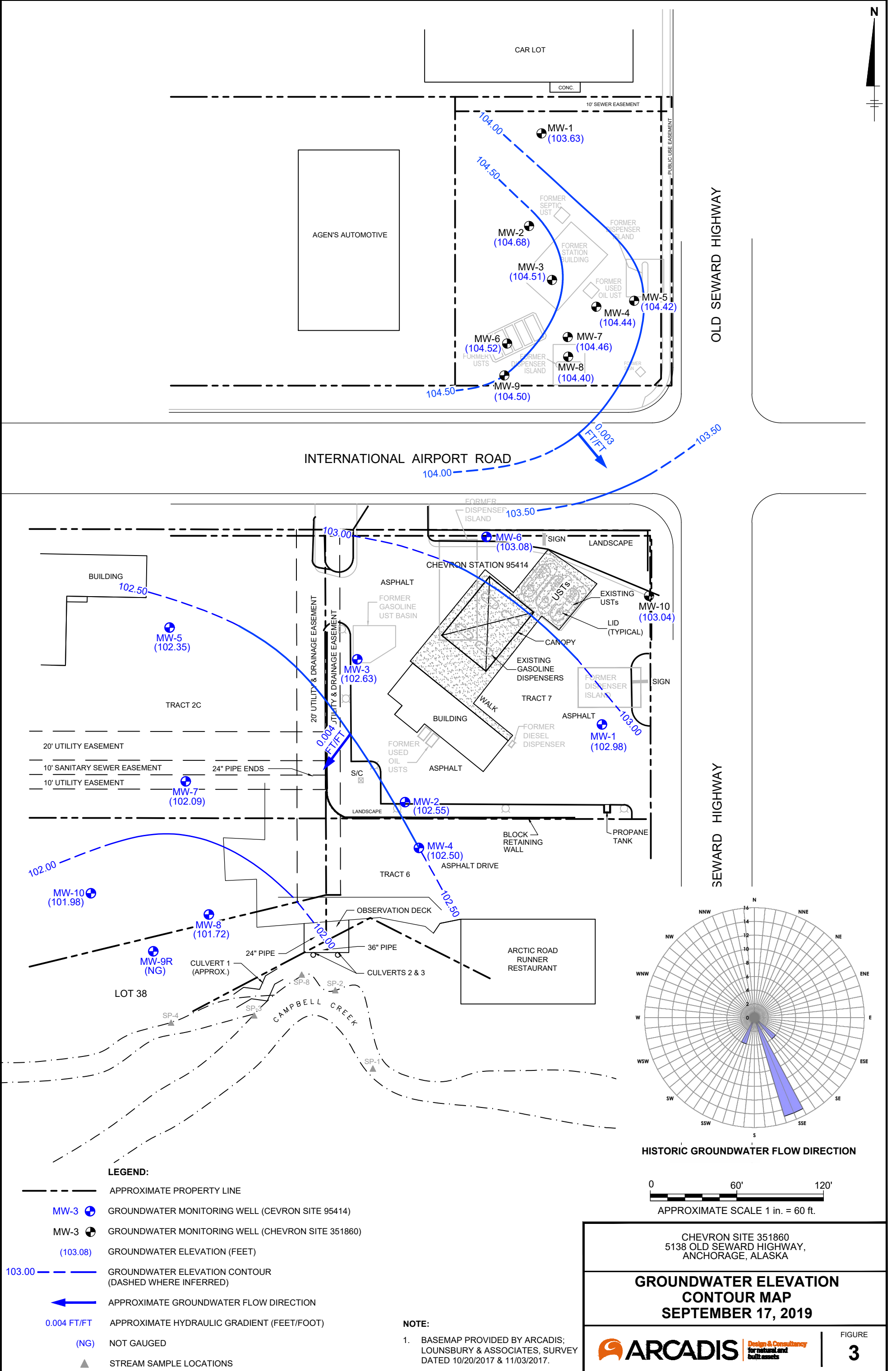
1. BASEMAP PROVIDED BY ARCADIS; LOUNSBURY & ASSOCIATES, SURVEY DATED 10/20/2017 & 11/03/2017.

CHEVRON SITE 351860  
 5138 OLD SEWARD HIGHWAY,  
 ANCHORAGE, ALASKA

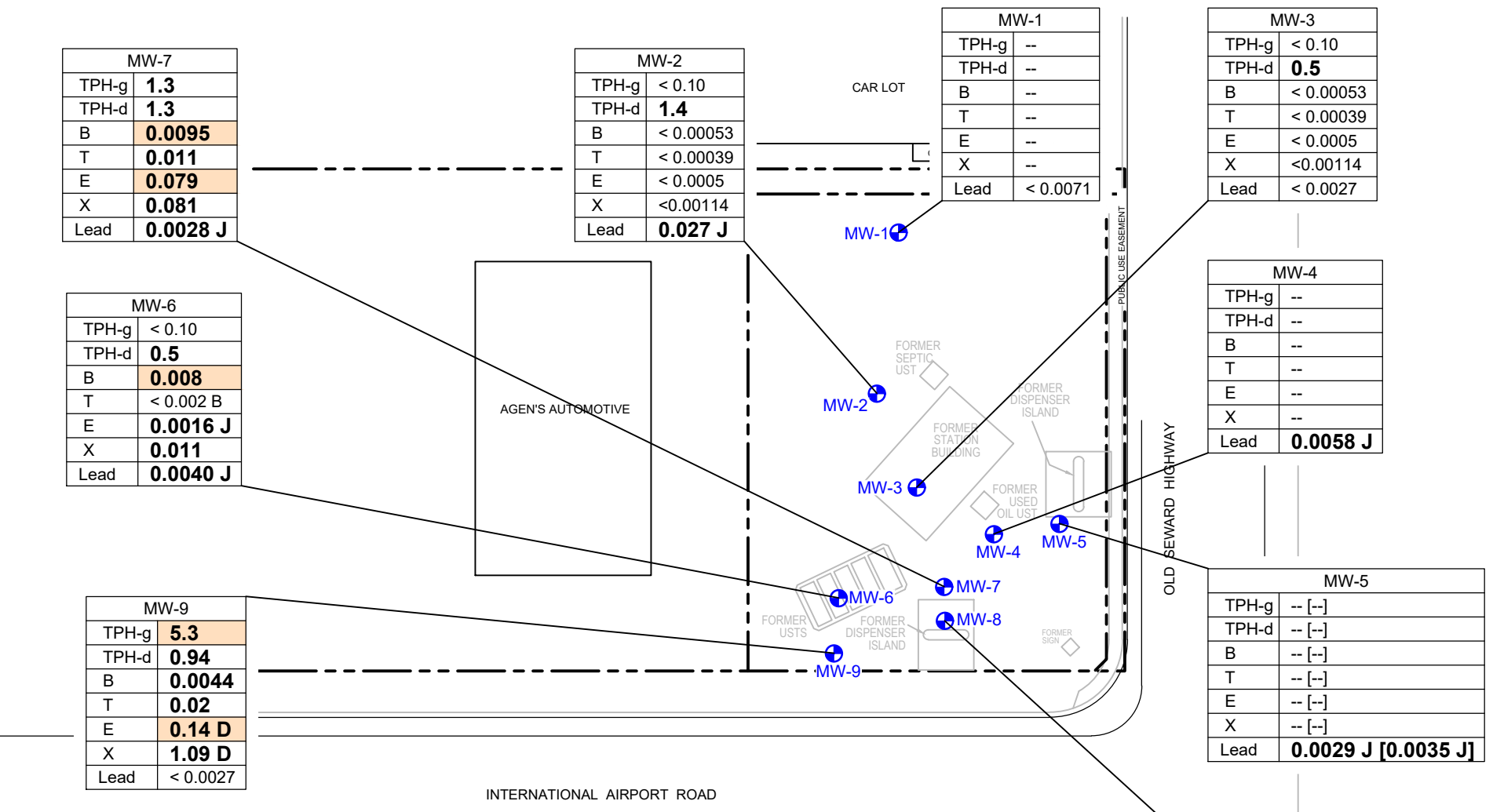
**SITE PLAN**



FIGURE  
**2**



XREFS: IMAGES: PROJECTNAME: ----



MW-7	
TPH-g	<b>1.3</b>
TPH-d	<b>1.3</b>
B	<b>0.0095</b>
T	<b>0.011</b>
E	<b>0.079</b>
X	<b>0.081</b>
Lead	<b>0.0028 J</b>

MW-2	
TPH-g	< 0.10
TPH-d	<b>1.4</b>
B	< 0.00053
T	< 0.00039
E	< 0.0005
X	< 0.00114
Lead	<b>0.027 J</b>

MW-1	
TPH-g	--
TPH-d	--
B	--
T	--
E	--
X	--
Lead	< 0.0071

MW-3	
TPH-g	< 0.10
TPH-d	<b>0.5</b>
B	< 0.00053
T	< 0.00039
E	< 0.0005
X	< 0.00114
Lead	< 0.0027

MW-6	
TPH-g	< 0.10
TPH-d	<b>0.5</b>
B	<b>0.008</b>
T	< 0.002 B
E	<b>0.0016 J</b>
X	<b>0.011</b>
Lead	<b>0.0040 J</b>

MW-4	
TPH-g	--
TPH-d	--
B	--
T	--
E	--
X	--
Lead	<b>0.0058 J</b>

MW-9	
TPH-g	<b>5.3</b>
TPH-d	<b>0.94</b>
B	<b>0.0044</b>
T	<b>0.02</b>
E	<b>0.14 D</b>
X	<b>1.09 D</b>
Lead	< 0.0027

MW-5	
TPH-g	-- [--]
TPH-d	-- [--]
B	-- [--]
T	-- [--]
E	-- [--]
X	-- [--]
Lead	<b>0.0029 J [0.0035 J]</b>

MW-8	
TPH-g	<b>4.7</b>
TPH-d	<b>1.4</b>
B	<b>0.02</b>
T	<b>0.0037</b>
E	<b>0.2 D</b>
X	<b>0.98 D</b>
Lead	<b>0.011 J</b>

MW-10	
TPH-g	<b>0.82</b>
TPH-d	<b>0.54</b>
B	<b>0.017</b>
T	< 0.002 B
E	<b>0.0025 J</b>
X	<b>0.19072 DJ</b>
Lead	<b>0.0030 J</b>

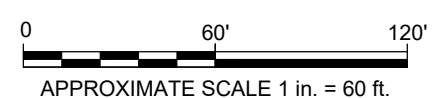
WELL ID	MW-7	
	TPH-g	<b>1.3</b>
	TPH-d	<b>1.3</b>
	B	<b>0.0095</b>
	T	<b>0.011</b>
	E	<b>0.079</b>
	X	<b>0.081</b>
	Lead	<b>0.0028 J</b>
CONCENTRATION IN (mg/L)		
ANALYTE		

**LEGEND**

- APPROXIMATE PROPERTY LINE
- MW-3 (blue circle with dot) GROUNDWATER MONITORING WELL FOR CHEVRON SITE 351860
- MW-4 (black circle with dot) GROUNDWATER MONITORING WELL FOR CHEVRON SITE 95414
- 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
- BOLD** VALUE EXCEEDS MDL
- BOLD** VALUE EXCEEDS ADEC GROUNDWATER CLEANUP LEVEL
- < 0.0005 NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
- J THE COMPOUND WAS POSITIVELY IDENTIFIED; HOWEVER, THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY
- (NS) NOT SAMPLED
- D THE RESULT REPORTED FROM DILUTED ANALYSIS
- [ ] DUPLICATE RESULTS
- NOT AVAILABLE
- B COMPOUND CONSIDERED NON-DETECT AT THE LISTED VALUE DUE TO ASSOCIATED BLANK CONTAMINATION

**NOTE:**

1. ALL CONCENTRATIONS ARE IN MILLIGRAMS PER LITER (mg/L)
2. BASEMAP PROVIDED BY ARCADIS; LOUNSBURY & ASSOCIATES, SURVEY DATED 10/20/2017 & 11/03/2017.



CHEVRON SITE 351860  
5138 OLD SEWARD HIGHWAY,  
ANCHORAGE, ALASKA

**GROUNDWATER ANALYTICAL  
RESULT MAP  
SEPTEMBER 16, 2019**

**ARCADIS** Design & Consultancy  
for natural and  
built assets

FIGURE  
**4**

# APPENDIX A



**Chevron Environmental  
Management Company**

## **Appendix A:**

### **Site History and Background**

**Former Chevron Facility 351860**

5138 Old Seward Highway

Anchorage, Alaska

ADEC File No: 2100.38.503

HAZARD ID No: 4692

November 4, 2019

## Appendix A: 351860 Site Description and Background

# 1 351860 SITE BACKGROUND AND HISTORY

## 1.1 Site Description and Vicinity

Former Chevron Facility 351860 is located at 5138 Old Seward Highway in Anchorage, Alaska. Currently, the site is a paved parking lot with a drive through coffee shop. 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.

Texaco operated a retail service station from 1969 until 1984. The site was decommissioned in 1985, at which time four 4,000 gal. gasoline underground storage tanks (USTs), one 10,000 gal. diesel UST, one used oil UST, two dispenser islands, two service bays, product lines and the station building were removed from the property.

## 1.2 Site History

In 1985, four 4,000 gal. gasoline underground storage tanks (USTs), one 10,000 gal. diesel UST, one used oil UST, two dispenser islands, two service bays, product lines and the station building were removed from the site. The vent lines and electrical conduits were abandoned and remain in place.

# 2 SITE CHARACTERIZATIONS

There are currently nine groundwater monitoring wells located onsite (MW-1 through MW-9) and one groundwater monitoring well located offsite to the south (MW-10).

# 3 CURRENT SITE MONITORING ACTIVITIES

The site currently has a network of ten groundwater monitoring wells which are monitored and sampled semiannually: onsite wells MW-1 through MW-9, and offsite well MW-10. An additional offsite groundwater monitoring well associated with Chevron Site 95414 (MW-6) is located downgradient of the site, and is monitored and sampled concurrently with MW-1 through MW-10. Historically, concentrations of volatile organic compounds (VOCs), gasoline range organics (GRO), diesel range organics (DRO), and lead 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 2007 until present, static groundwater depths at the site have ranged between 3.40 to 7.87 feet below top of casing (ft btoc). Historic ground water flow is to the southeast.

## 5 REFERENCES

GHD Inc. 2018. First Semiannual 2018 Groundwater Monitoring Report Former Pineapple's Texaco/ Chevron Site 351860, 5138 Old Seward Highway, Anchorage, AK. August 20



# APPENDIX B



# Daily Log

Project Name 351860 Project Number 351860 Page 1 of 1

Site Location <sup>SL38</sup> ~~SL38~~ Old Seward Hwy Anchorage AK Date 9/16/19

Field Personnel D. Beaudoin, E. Wycik  
2SA19 GW sampling event

Time	Description of Activities				
0900	Arrive on site, contact PM				
	site operations closed on monday's				
0915	Gauge wells				
	well ID	AP	DTW	TD	notes
	mw-1	0.0	7.55	7.6	not enough water to sample
	mw-2	0.0	6.24	9.1	
	mw-3	0.0	6.00	9.1	
	mw-4	0.0	6.35	9.7	
	mw-5	0.0	6.61	9.6	
	mw-6	0.0	5.23	12.5	
	mw-7	0.0	5.97	9.3	
	mw-8	0.0	5.99	12.9	
	mw-9	0.0	5.24	14.4	
	mw-10	0.0	7.25	14.6	
	BD-1-W-140916 collected at mw-5				
	MW-1 not enough water to sample				
	mw-4 and mw-5 sampled for Lead 6010, Nitrate/Sulfate EPA 300,				
	Alkalinity 2320B, Methane RSK 175M				
	mw-2, mw-3, mw-6 through mw-10 sampled for BTEX 8260, GRO 4110				
	DRO At 102, Lead 6010, Nitrate/sulfate EPA 300, Alkalinity 2320B,				
	Methane RSK 175M				
1630	Depart site.				

**GROUNDWATER SAMPLING FORM**



Project No. 351860 Well ID MW-7 Page 1 of 1  
 Project Name/Location 5138 Old Seward Hwy Anchorage AK Date 9-16-19  
 Measuring Pt. Description TOC Screen Setting (ft-bmp) — Casing Diameter (in.) 2 Weather cloudy  
 Static Water Level (ft-bmp) 5.97 Total Depth (ft-bmp) 9.3 Water Column (ft) 3.33 Gallons in Well 0.53  
 MP Elevation — Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Sample Method Low Flow  
 Pump On/Off 1100/ Volumes Purged — Centrifugal —  
 Sample Time: Label 1130 Gallons Purged 3900 Submersible —  
 Purge Start 1100 Other Bladder  
 Purge End 1117 Replicate/Code No. — Sampled by JB

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	
1105	5	200	6.04	1000	6.29	0.784	182	10.52	15.06	-42	cloudy		
1108	8	200	6.02	1600	6.26	0.777	53.3	2.37	15.05	-42			
1111	11	200	6.02	2200	6.25	0.774	25.3	2.10	15.05	-43			
1114	14	200	6.03	2800	6.24	0.772	166	1.99	15.07	-44			
1117	17	200	6.03	3400	6.24	0.771	13.2	1.97	15.07	-44			
Stabilization Calculations (±)						✓		✓		✓			
Stabilization Criteria						± 0.1 s.u.	± 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
BTEX 8260	40 mL VOA	3	HCl
GR0 AK 101	40 mL VOA	3	HCl
DR0 AK 102	250 mL Amber	2	HCl
Lead 600	250 mL HDPE	1	HNO3
nitrate / sulfate EPA 30	250 mL HDPE	1	—
Alkalinity 2050 B 2320 B	40 mL VOA	2	HCl
methane RS15 12M			

Comments

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

**Well Information**

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

**GROUNDWATER SAMPLING FORM**



Project No. 351860 Well ID mw-4 Page 1 of 1  
 Project Name/Location S138 Old Seward Hwy Anchorage AK Date 9.16.19  
 Measuring Pt. Description TOC Screen Setting (ft-bmp) - Casing Diameter (in.) 2 Weather cloudy  
 Static Water Level (ft-bmp) 6.35 Total Depth (ft-bmp) 9.7 Water Column (ft) 3.35 Gallons in Well 0.54  
 MP Elevation - Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Sample Method Low Flow  
 Pump On/Off 10:08/10:33 Volumes Purged - Centrifugal - Submersible - Other Bladder  
 Sample Time: Label 1030 Purge Start 10:13 Purge End 10:22 Replicate/Code No. - Sampled by DB

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) ± 0.5	Redox (mV) ± 10mV	Appearance								
											Color	Odor							
1013	5	200	6.45	1000	6.46	0.879	-	5.71	13.94	-80	Brown	new							
1016	8	200	6.43	1600	6.47	0.892	97.9	5.25	13.90	-78	Cloudy	new							
1019	11	200	6.40	2200	6.50	0.894	45.6	5.26	13.89	-76	Clear	new							
1022	14	200	6.45	2800	6.51	0.894	312	5.19	13.88	-75	Clear	new							
Stabilization Calculations (±)																			
Stabilization Criteria												± 0.1 s.u.	± 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
Lead 6010	250 mL HDPE	1	HNO <sub>3</sub>
nitrate / sulfate EPA 300	250 mL HDPE	1	-
Alkalinity 2320B			
methane RSK 175M	40 mL VOA	2	-

Comments

Well Casing Volumes	1"	1.5"	2"	3"	3.5"	4"	6"
Gallons/Foot	0.04	0.09	0.16	0.26	0.50	0.85	1.47
	0.06						

**Well Information**

Well Location: See site map 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

**GROUNDWATER SAMPLING FORM**



Project No. 351860 Well ID MW-10 Page 1 of 1  
 Project Name/Location 5138 Old Seward Hwy Anchorage AK Date 9/16/19  
 Measuring Pt. Description TOC Screen Setting (ft-bmp)      Casing Diameter (in.) 2 Weather cloudy  
 Static Water Level (ft-bmp) 7.25 Total Depth (ft-bmp) 14.6 Water Column (ft) 7.35 Gallons in Well 1.18  
 MP Elevation      Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Sample Method Low Flow  
 Pump On/Off 1420 / 1430 Volumes Purged      Centrifugal       
 Sample Time: Label 1445 mL Gallons Purged 2400 Other Bladder Submersible       
 Purge Start 1423 Replicate/Code No.      Sampled by EW  
 Purge End 1432

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						
1423	3	200	7.23	600	6.55	1.07	123	0.25	13.87	-65								
1426	6	200	7.25	1200	6.56	1.04	46.5	0.09	13.89	-65								
1429	9	200	7.26	1800	6.56	1.03	31.4	0.05	13.93	-65								
1432	12	200	7.26	2400	6.56	1.02	22.7	0.02	13.96	-66								
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
BTEX 9260	40 mL VOA	3	HCl
GLA AK 101	40 mL VOA	3	HCl
OKO AK 102	250 mL Amber	2	HCl
Lead 60B	250 mL HDPE	1	HNO3
Nitrate/sulfate EPA 300	250 mL HDPE	1	-
Alkalinity 2B20 B			
Methane RSK 175M	40 mL VOA	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" = 0.78	3" = 0.37	4" = 0.65	

**Well Information**

Well Location: see site map 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: 310

**GROUNDWATER SAMPLING FORM**



Project No. 351860 Well ID MW-2 Page 1 of 1  
 Project Name/Location 5138 rd Seward Hwy Anchorage AK Date 9.16.19  
 Measuring Pt. Description TOC Screen Setting (ft-bmp) — Casing Diameter (in.) 2 Weather cloudy  
 Static Water Level (ft-bmp) 6.24 Total Depth (ft-bmp) 9.1 Water Column (ft) 2.86 Gallons in Well 0.46  
 MP Elevation — Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Sample Method Low Flow  
 Pump On/Off 1330 / 1400 Volumes Purged — Centrifugal — Submersible — Other Bladder  
 Sample Time: Label 1350 Purge Start 1333 Purge End 1342 ml Gallons Purged 2400 Replicate/Code No. — Sampled by EW

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						
1333	3	200	6.22	600	5.81	0.300	105	0.27	15.70	49								
1336	6	200	6.21	1200	5.74	0.287	136	0.18	15.70	49								
1339	9	200	6.23	1800	5.70	0.290	150	0.13	15.69	51								
1342	12	200	6.23	2400	5.66	0.291	141	0.11	15.70	54								
Stabilization Calculations (±)																		
Stabilization Criteria											± 0.1 s.u.	± 3%	± 10% or within 1 NTU (1)	± 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
BTEX 8760	40mL VOA	3	HCl
GRO AK 101	40mL VOA	3	HCl
DRO AK 102	250mL Amber	2	HCl
Lead 6010	250mL HDPE	1	HNO <sub>3</sub>
Nitrate / Nitrite EPA 300	250mL HDPE	1	—
Alkalinity 2320B			
Methane RSK 175M	40mL VOA	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" = 0.65

**Well Information**

Well Location: see site map 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

**GROUNDWATER SAMPLING FORM**



Project No. 351860 Well ID MW-3 Page 1 of 1  
 Project Name/Location 5136 Old Seward Hwy Anchorage AK Date 9-16-19  
 Measuring Pt. Description TOC Screen Setting (ft-bmp) — Casing Diameter (in.) 2 Weather cloudy  
 Static Water Level (ft-bmp) 6.00 Total Depth (ft-bmp) 9.1 Water Column (ft) 3.1 Gallons in Well 0.50 Well Material  PVC  SS  
 MP Elevation — Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Sample Method Low Flow  
 Pump On/Off 1255/1330 Volumes Purged — Centrifugal  Submersible  Other Bladder  
 Sample Time: Label 1320 Gallons Purged 3400 Replicate/Code No. — Sampled by DB  
 Purge Start 1300  
 Purge End 1312

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ±0.1	Cond. (µMhos/cm) (µS/cm) ±3%	Turbidity (NTU) ±10%	DO (mg/L) (ppm) ±10%	Temp. (°C) (°F) ±3%	Redox (mV) ±10mV	Appearance						
											Color	Odor					
1300	5	200	6.10	1000	6.37	0.872	49.0	0.16	15-12	-28	Clear	None					
1303	8	200	6.09	1600	6.45	0.854	19.8	0.04	14.97	-34	Clear	None					
1306	11	200	6.11	2200	6.57	0.839	9.6	0.10	14.88	-41	Clear	None					
1309	14	200	6.09	2800	6.59	0.831	3.9	0.11	14.85	-41	Clear	None					
1312	17	200	6.10	3400	6.62	0.828	1.8	0.09	14.85	-42	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
BTEX 9260	40mL VOA	3	He1
GRO AK 101	40mL VOA	3	He1
DRU AK 102	350 mL Amber	2	He1
Lead 6010	250mL HDPE	1	HNO3
Nitrate/sulfate EPA 300	250mL HDPE	1	—
Alkalinity 2320B	40mL VOA	2	He1
Methane RSK 175M			

Comments

**Well Casing Volumes**

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

**Well Information**

Well Location: See site map 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: 3710

**GROUNDWATER SAMPLING FORM**



Project No. 351860 Well ID MW-6 Page 1 of 1  
 Project Name/Location S138 Old Sand Hwy Anthony AR Date 9.16.19  
 Measuring Pt. Description TOC Screen Setting (ft-bmp) - Casing Diameter (in.) 2 Weather cloudy  
 Static Water Level (ft-bmp) 5.23 Total Depth (ft-bmp) 12.5 Water Column (ft) 7.27 Gallons in Well 116  
 MP Elevation - Pump Intake (ft-bmp) -2 Purge Method: Low Flow Sample Method Low Flow  
 Pump On/Off 1225 Volumes Purged - Centrifugal - Submersible - Other Bladder  
 Sample Time: Label 1245 Purge Start 1230 Purge End 1242 Gallons Purged 3400 Replicate/Code No. - Sampled by DB

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					
1230	5	200	5.35	1000	6.13	0.880	529	0.35	14.16	-37	Clear	None					
1233	8	200	5.32	1600	6.22	0.852	389	0.18	14.18	-44	Clear	None					
1236	11	200	5.33	2200	6.30	0.877	262	0.08	14.22	-52	Clear	None					
1239	14	200	5.35	2800	6.35	0.876	166	0.03	14.27	-56	Clear	None					
1242	17	200	5.33	3400	6.39	0.875	142	0.01	14.30	-58	Clear	None					
Stabilization Calculations (±)																	
Stabilization Criteria												± 0.1 s.u.	± 3%	± 10% or within 1 NTU	± 10%	± 3%	± 10 mV

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

Constituents Sampled	Container	Number	Preservative
BTEX 8267	40 mL WVA	3	HCl
GRB 176101	40 mL WVA	3	HCl
DRB AK 107	250 mL Amber	2	HCl
Lead 601D	250 mL HDPE	1	HNO3
Nitrate/sulfate EPA 300	250 mL HDPE	1	-
Alkalinity 2320B	40 mL WVA	2	HCl
metals RSK 1750M			

Comments \_\_\_\_\_

Well Casing Volumes	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.60	6" = 1.47
Gallons/Foot	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

**Well Information**

Well Location: see site map 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



**GROUNDWATER SAMPLING FORM**



Project No. 351860 Well ID MW-9 Page 1 of 1  
 Project Name/Location 5138 Old Seward Hwy Anchorage AK Date 9.16.19  
 Measuring Pt. Description TOC Screen Setting (ft-bmp) — Casing Diameter (in.) 2 Weather cloudy  
 Static Water Level (ft-bmp) 5.26 Total Depth (ft-bmp) 14.4 Water Column (ft) 9.14 Gallons in Well 1.46  
 MP Elevation — Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Sample Method Low Flow  
 Pump On/Off 1149/ Volumes Purged — Centrifugal — Submersible — Other Bladder  
 Sample Time: Label 1215 Purge Start — Purge End — ml Purged 4000 Gallons Purged — Replicate/Code No. — Sampled by DB

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					
1154	5	200	5.29	1000	6.59	0.482	392	—	13.67	-60	Clear	None					
1157	8	200	5.28	1600	6.37	0.341	120	—	13.99	-34	Clear	None					
1200	11	200	5.29	2200	6.30	0.315	61.0	—	14.12	-29	Clear	None					
1203	14	200	5.26	2800	6.26	0.299	49.9	—	14.17	-29	Clear	None					
1206	17	200	5.29	3400	6.24	0.295	46.7	—	14.19	-29	Clear	None					
1209	15	200	5.28	4000	6.24	0.293	45.9	—	14.19	-28	Clear	None					
Stabilization Calculations (±)																	
Stabilization Criteria												±0.1 s.u.	±3%	±10% or within 1 NTU or	±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
BTEX 3260	40 mL VOA	3	HCl
GRO AK 101	40 mL VOA	3	HCl
DRO AK 103	250 mL Amber	2	HCl
Lead 6010	250 mL HDPE	1	HNO <sub>3</sub>
nitrate / sulfate EPA 350	250 mL HDPE	1	—
Alkalinity 2320 B	40 mL VOA	2	HCl
methane LSK 175M			

Comments

Well Casing Volumes	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.60	6" = 1.47
Gallons/Foot	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

**Well Information**

Well Location: <u>see site map</u>	Well Locked at Arrival: <u>Yes</u> / No
Condition of Well: <u>Good</u>	Well Locked at Departure: <u>Yes</u> / No
Well Completion: <u>Flush Mount</u> / Stick Up	Key Number To Well: <u>3910</u>

**GROUNDWATER SAMPLING FORM**



Project No. 351860 Well ID MW-8 Page 1 of 1  
 Project Name/Location S738 Old Seward Hwy Anheuser BK Date 9.16.19  
 Measuring Pt. Description TOC Screen Setting (ft-bmp) - Casing Diameter (in.) 2 Weather cloudy  
 Static Water Level (ft-bmp) 5.99 Total Depth (ft-bmp) 13.9 Water Column (ft) 7.9 Gallons in Well 1.26  
 MP Elevation - Pump Intake (ft-bmp) -2 Purge Method: Low Flow Sample Method Low Flow  
 Pump On/Off 1130 / 1200 Volumes Purged - Centrifugal -  
 Sample Time: Label 1150 Gallons Purged 2400 Other Bladder  
 Purge Start 1133 Replicate/Code No. - Sampled by DB  
 Purge End 1142

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
1133	3	200	6.0	600	6.45	0.769	759	0.35	14.49	-24		
1136	6	200	5.99	1200	6.45	0.724	653	0.36	14.53	-29		
1139	9	200	6.0	1800	6.46	0.731	563	0.38	14.66	-35		
1142	12	200	5.99	2400	6.47	0.741	497	0.37	14.64	-41		
Stabilization Calculations (±)					✓		✓	✓	✓			
Stabilization Criteria					± 0.1 s.u.	± 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
BTEX 8760	40 mL VOA	3	HCl
GRO AK 101	40 mL VOA	3	HCl
DRO AK 102	250 mL Amber	2	HCl
Lead 6010	250 mL HDPE	1	HNO3
nitrate/sulfate EIA 300	250 mL HDPE	1	-
Alkalinity 8320B	40 mL VOA	2	HCl
methane RSK 175M			

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" = 0.65	

**Well Information**

Well Location: see site map Well Locked at Arrival: Yes / No  
 Condition of Well: \_\_\_\_\_ Well Locked at Departure: Yes / No  
 Well Completion: Flush Mount / Stick Up Key Number To Well: \_\_\_\_\_

**GROUNDWATER SAMPLING FORM**



Project No. 35860 Well ID MW-5 Page 1 of 1  
 Project Name/Location 538 Old Seward Hwy Anchorage AK Date 9.16.19  
 Measuring Pt. Description TOL Screen Setting (ft-bmp) - Casing Diameter (in.) 2 Weather cloudy  
 Static Water Level (ft-bmp) 6.61 Total Depth (ft-bmp) 9.6 Water Column (ft) 3 Gallons in Well 0.45  
 MP Elevation - Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Sample Method Low Flow  
 Pump On/Off 1010 / Volumes Purged - Centrifugal - Submersible - Other Bladder  
 Sample Time: Label 1030 Purge Start 1013 Purge End 1021 Gallons Purged 2400 Replicate/Code No. BD-1-W-10916 Sampled by EW

Time	Minutes Elapsed	Rate (gpm) (mL/min) 200mL/min ±	Depth to Water (ft) -0.3	Gallons Purged	pH ±0.1	Cond. (µMhos) (µmS/cm) ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10%	Temp. (°C/°F) ±3%	Redox (mV) ±10mV	Appearance							
											Color	Odor						
1013	3	200	6.6	600	4.65	0.002	121	10.52	13.78	265								
1016	6	200	6.6	1200	6.05	0.002	127	10.43	13.80	250								
1019	9	200	6.6	1800	6.12	0.002	130	10.38	13.83	243								
1021	12	200	6.6	2400	6.10	0.002	125	10.31	13.84	243								
Stabilization Calculations (±)																		
Stabilization Criteria											±0.1 s.u.	±3%	±10% or within 1 NTU (C)	±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
Lead 6010	250mL HDPE	1	HNO <sub>3</sub>
nitrate/sulfate EPA 300	250mL HDPE	1	-
methane RSK 175M	40mL WA	2	HCl
Alkalinity 2320B			

Comments

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.60	6" = 1.47
	1.25" = 0.06	2" = 0.30	3" = 0.37	4" = 0.65	

**Well Information**

Well Location: RC old map Well Locked at Arrival: Yes / No  
 Condition of Well: Flush Mount / Stick Up Well Locked at Departure: Yes / No  
 Well Completion: Flush Mount / Stick Up Key Number To Well: \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other:

<b>Client Contact</b> Company Name: <u>Arctic</u> Address: <u>11 SW Columbia St Suite 670</u> City/State/Zip: <u>Portland OR 97201</u> Phone: <u>503-270-1201</u> Fax: <u>-</u>		<b>Project Manager:</b> <u>Nicole Mauer</u> Tel/Fax: <u>503-285-9419</u> Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <u>Standard</u> <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<b>Site Contact:</b> <u>David Brandon</u> Date: <u>7/16/19</u> <b>Carrier:</b> <u>COCs</u>	
<b>Company Name:</b> <u>Arctic</u> Address: <u>11 SW Columbia St Suite 670</u> City/State/Zip: <u>Portland OR 97201</u> Phone: <u>503-270-1201</u> Fax: <u>-</u>		<b>Project Name:</b> <u>Chuan 351560</u> Site: <u>S154 OH Sound Hwy Anchorage AK</u> PO # <u>30010207</u>		COC No: <u>249707</u> of <u>1</u> COCs Sampler: <u>DB 60</u> For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:	
<b>Sample Identification</b>		Filtered Sample (Y/N)		Perform MS / MSD (Y/N)	
Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:
9.16.19	1020	G	W	12	
9.16.19	1030	G	W	4	
9.16.19	1030	G	W	4	
9.16.19	1130	G	W	12	
9.16.19	1150	G	W	12	
9.16.19	1215	G	W	12	
9.16.19	1245	G	W	12	
9.16.19	1320	G	W	12	
9.16.19	1350	G	W	12	
9.16.19	1445	G	W	12	
-	-	-	W	4	
-	-	-	W	6	

**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

**Special Instructions/QC Requirements & Comments:**  
Type III Data Package

Custody Seals Intact:  Yes  No

Relinquished by: Sam Taylor Company: Arctic's Date/Time: 7/16/19 1:30

Relinquished by: Sam Taylor Company: Arctic's Date/Time: 7/16/19 1:30

Relinquished by: Sam Taylor Company: Arctic's Date/Time: 7/16/19 1:30

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

Cooler Temp. (°C): Obs'd: 4.6, 2.0 Therm ID No.: \_\_\_\_\_

Received by: Sam Taylor Company: Arctic's Date/Time: 7/17/19 8:40

Received by: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received in Laboratory by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

# APPENDIX C



## ANALYTICAL REPORT

Job Number: 580-89231-1

Job Description: Chevron Site 351860 Anchorage, Alaska

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



Approved for release.  
Elaine M Walker  
Project Manager II  
10/4/2019 2:49 PM

---

Elaine M Walker, Project Manager II  
5755 8th Street East, Tacoma, WA, 98424  
(253)248-4972  
elaine.walker@testamericainc.com  
10/04/2019

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This report shall not be reproduced except in full, without prior express written approval by the laboratory. The results relate only to the item(s) tested and the sample(s) as received by the laboratory.

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](http://www.testamericainc.com)

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# Definitions/Glossary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

## Qualifiers

### GC/MS 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 VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

### Metals

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.

### General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## 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 351860 Anchorage, Alaska**  
**Report Number: 580-89231-1**

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**

Twelve samples were received on 9/17/2019 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.6° C and 5.0° C.

#### **Receipt Exceptions**

The following samples were received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less (Nitrate). As such, the laboratory had insufficient time remaining to perform the analysis within holding time: EQB-1-W-190916 (580-89231-1), MW-4-W-190916 (580-89231-2), MW-5-W-190916 (580-89231-3), MW-7-W-190916 (580-89231-4), MW-8-W-190916 (580-89231-5), MW-9-W-190916 (580-89231-6), MW-6-W-190916 (580-89231-7), MW-3-W-190916 (580-89231-8), MW-2-W-190916 (580-89231-9), MW-10-W-190916 (580-89231-10) and BD-1-W-190916 (580-89231-11).

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-190916 (580-89231-1), MW-7-W-190916 (580-89231-4), MW-8-W-190916 (580-89231-5), MW-9-W-190916 (580-89231-6), MW-6-W-190916 (580-89231-7), MW-3-W-190916 (580-89231-8), MW-2-W-190916 (580-89231-9), MW-10-W-190916 (580-89231-10) and Trip Blank\_190916 (580-89231-12) were analyzed for volatile organic compounds (GC-MS) in accordance with 8260C. The samples were analyzed on 09/29/2019 and 09/30/2019.

The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-7-W-190916 (580-89231-4), MW-8-W-190916 (580-89231-5), MW-9-W-190916 (580-89231-6) and MW-10-W-190916 (580-89231-10). Elevated reporting limits (RLs) are provided.

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

#### **GASOLINE RANGE ORGANICS**

Samples EQB-1-W-190916 (580-89231-1), MW-7-W-190916 (580-89231-4), MW-8-W-190916 (580-89231-5), MW-9-W-190916 (580-89231-6), MW-6-W-190916 (580-89231-7), MW-3-W-190916 (580-89231-8), MW-2-W-190916 (580-89231-9), MW-10-W-190916 (580-89231-10) and Trip Blank\_190916 (580-89231-12) were analyzed for gasoline range organics in accordance with State of Alaska Method AK101. The samples were analyzed on 09/19/2019, 09/24/2019 and 09/30/2019.

Surrogate 4-Bromofluorobenzene (Surr) recovery for the following sample was outside control limits: MW-9-W-190916 (580-89231-6). Evidence of matrix interference is present; 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.

#### **DISSOLVED GASES**

Samples EQB-1-W-190916 (580-89231-1), MW-4-W-190916 (580-89231-2), MW-5-W-190916 (580-89231-3), MW-7-W-190916 (580-89231-4), MW-8-W-190916 (580-89231-5), MW-9-W-190916 (580-89231-6), MW-6-W-190916 (580-89231-7), MW-3-W-190916 (580-89231-8), MW-2-W-190916 (580-89231-9), MW-10-W-190916 (580-89231-10), BD-1-W-190916 (580-89231-11) and Trip Blank\_190916 (580-89231-12) were analyzed for dissolved gases in accordance with RSK\_175. The samples were analyzed on 09/24/2019 and 09/25/2019.

No 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-190916 (580-89231-1), MW-7-W-190916 (580-89231-4), MW-8-W-190916 (580-89231-5), MW-9-W-190916 (580-89231-6), MW-6-W-190916 (580-89231-7), MW-3-W-190916 (580-89231-8), MW-2-W-190916 (580-89231-9) and MW-10-W-190916 (580-89231-10) were analyzed for diesel and residual range organics in accordance with State of Alaska Method AK102 and AK103.** The samples were prepared on 09/27/2019 and analyzed on 09/28/2019.

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-7-W-190916 (580-89231-4), MW-8-W-190916 (580-89231-5), MW-9-W-190916 (580-89231-6), MW-6-W-190916 (580-89231-7), MW-3-W-190916 (580-89231-8), MW-2-W-190916 (580-89231-9) and MW-10-W-190916 (580-89231-10).

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

#### **METALS (ICP)**

**Samples EQB-1-W-190916 (580-89231-1), MW-4-W-190916 (580-89231-2), MW-5-W-190916 (580-89231-3), MW-7-W-190916 (580-89231-4), MW-8-W-190916 (580-89231-5), MW-9-W-190916 (580-89231-6), MW-6-W-190916 (580-89231-7), MW-3-W-190916 (580-89231-8), MW-2-W-190916 (580-89231-9), MW-10-W-190916 (580-89231-10) and BD-1-W-190916 (580-89231-11) were analyzed for Metals (ICP) in accordance with 6010D.** The samples were prepared on 09/26/2019 and analyzed on 09/27/2019.

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

#### **ALKALINITY**

**Samples EQB-1-W-190916 (580-89231-1), MW-4-W-190916 (580-89231-2), MW-5-W-190916 (580-89231-3), MW-7-W-190916 (580-89231-4), MW-8-W-190916 (580-89231-5), MW-9-W-190916 (580-89231-6), MW-6-W-190916 (580-89231-7), MW-3-W-190916 (580-89231-8), MW-2-W-190916 (580-89231-9), MW-10-W-190916 (580-89231-10) and BD-1-W-190916 (580-89231-11) were analyzed for alkalinity in accordance with SM20 2320B.** The samples were analyzed on 09/29/2019.

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

#### **ANIONS**

**Samples EQB-1-W-190916 (580-89231-1), MW-4-W-190916 (580-89231-2), MW-5-W-190916 (580-89231-3), MW-7-W-190916 (580-89231-4), MW-8-W-190916 (580-89231-5), MW-9-W-190916 (580-89231-6), MW-6-W-190916 (580-89231-7), MW-3-W-190916 (580-89231-8), MW-2-W-190916 (580-89231-9), MW-10-W-190916 (580-89231-10) and BD-1-W-190916 (580-89231-11) were analyzed for anions in accordance with EPA Method 300.0.** The samples were analyzed on 09/30/2019.

Sulfate failed the recovery criteria high for the MS of sample MW-2-W-190916MS (580-89231-9) in batch 580-313012. Sulfate failed the recovery criteria high for the MSD of sample MW-2-W-190916MSD (580-89231-9) in batch 580-313012. The associated LCS/LCSD recoveries met acceptance limits.

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

#### **ANIONS**

**Samples EQB-1-W-190916 (580-89231-1), MW-4-W-190916 (580-89231-2), MW-5-W-190916 (580-89231-3), MW-7-W-190916 (580-89231-4), MW-8-W-190916 (580-89231-5), MW-9-W-190916 (580-89231-6), MW-6-W-190916 (580-89231-7), MW-3-W-190916 (580-89231-8), MW-2-W-190916 (580-89231-9), MW-10-W-190916 (580-89231-10) and BD-1-W-190916 (580-89231-11) were analyzed for anions in accordance with EPA Method 300.0.** The samples were analyzed on 09/18/2019 and 09/19/2019.

The following samples were received outside of holding time for Nitrate: EQB-1-W-190916 (580-89231-1), MW-4-W-190916 (580-89231-2), MW-5-W-190916 (580-89231-3), MW-7-W-190916 (580-89231-4), MW-8-W-190916 (580-89231-5), MW-9-W-190916 (580-89231-6), MW-6-W-190916 (580-89231-7), MW-3-W-190916 (580-89231-8), MW-2-W-190916 (580-89231-9), MW-10-W-190916 (580-89231-10) and BD-1-W-190916 (580-89231-11).

No additional 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 351860 Anchorage, Alaska

Job ID: 580-89231-1

## Client Sample ID: EQB-1-W-190916

## Lab Sample ID: 580-89231-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.72	J	2.0	0.39	ug/L	1		8260C	Total/NA
Nitrate as N	0.034	J H	0.20	0.020	mg/L	1		300.0	Total/NA
Sulfate	0.53	J	1.2	0.26	mg/L	1		300.0	Total/NA

## Client Sample ID: MW-4-W-190916

## Lab Sample ID: 580-89231-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	2.1		1.0	0.50	mg/L	1		RSK-175	Total/NA
Lead	0.0058	J	0.030	0.0027	mg/L	1		6010D	Total Recoverable
Nitrate as N	0.073	J H	0.20	0.020	mg/L	1		300.0	Total/NA
Sulfate	3.4		1.2	0.26	mg/L	1		300.0	Total/NA
Alkalinity	340		5.0	5.0	mg/L	1		SM 2320B	Total/NA

## Client Sample ID: MW-5-W-190916

## Lab Sample ID: 580-89231-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	3.4		1.0	0.50	mg/L	1		RSK-175	Total/NA
Lead	0.0029	J	0.030	0.0027	mg/L	1		6010D	Total Recoverable
Nitrate as N	0.033	J H	0.20	0.020	mg/L	1		300.0	Total/NA
Sulfate	0.80	J	1.2	0.26	mg/L	1		300.0	Total/NA
Alkalinity	310		5.0	5.0	mg/L	1		SM 2320B	Total/NA

## Client Sample ID: MW-7-W-190916

## Lab Sample ID: 580-89231-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	9.5		3.0	0.53	ug/L	1		8260C	Total/NA
Toluene	11		2.0	0.39	ug/L	1		8260C	Total/NA
Ethylbenzene	79		3.0	0.50	ug/L	1		8260C	Total/NA
o-Xylene	81		2.0	0.39	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene - DL	270		30	7.5	ug/L	10		8260C	Total/NA
Gasoline Range Organics (GRO) -C6-C10	1.3		0.25	0.10	mg/L	1		AK101	Total/NA
Methane (TCD)	1.9		1.0	0.50	mg/L	1		RSK-175	Total/NA
DRO (nC10-<nC25)	1.3		0.11	0.078	mg/L	1		AK102 & 103	Total/NA
Lead	0.0028	J	0.030	0.0027	mg/L	1		6010D	Total Recoverable
Nitrate as N	0.031	J H	0.20	0.020	mg/L	1		300.0	Total/NA
Sulfate	1.1	J	1.2	0.26	mg/L	1		300.0	Total/NA
Alkalinity	330		5.0	5.0	mg/L	1		SM 2320B	Total/NA

## Client Sample ID: MW-8-W-190916

## Lab Sample ID: 580-89231-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	20		3.0	0.53	ug/L	1		8260C	Total/NA
Toluene	3.7		2.0	0.39	ug/L	1		8260C	Total/NA
Ethylbenzene - DL	200		30	5.0	ug/L	10		8260C	Total/NA
m-Xylene & p-Xylene - DL	790		30	7.5	ug/L	10		8260C	Total/NA
o-Xylene - DL	190		20	3.9	ug/L	10		8260C	Total/NA
Gasoline Range Organics (GRO) -C6-C10	4.7		0.25	0.10	mg/L	1		AK101	Total/NA
Methane (TCD)	1.6		1.0	0.50	mg/L	1		RSK-175	Total/NA
DRO (nC10-<nC25)	1.4		0.12	0.082	mg/L	1		AK102 & 103	Total/NA

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

## Client Sample ID: MW-8-W-190916 (Continued)

## Lab Sample ID: 580-89231-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.011	J	0.030	0.0027	mg/L	1		6010D	Total Recoverable
Nitrate as N	0.066	J H	0.20	0.020	mg/L	1		300.0	Total/NA
Sulfate	2.5		1.2	0.26	mg/L	1		300.0	Total/NA
Alkalinity	310		5.0	5.0	mg/L	1		SM 2320B	Total/NA

## Client Sample ID: MW-9-W-190916

## Lab Sample ID: 580-89231-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.4		3.0	0.53	ug/L	1		8260C	Total/NA
Toluene	20		2.0	0.39	ug/L	1		8260C	Total/NA
Ethylbenzene - DL	140		30	5.0	ug/L	10		8260C	Total/NA
m-Xylene & p-Xylene - DL	830		30	7.5	ug/L	10		8260C	Total/NA
o-Xylene - DL	260		20	3.9	ug/L	10		8260C	Total/NA
Gasoline Range Organics (GRO) -C6-C10	5.3		0.25	0.10	mg/L	1		AK101	Total/NA
Methane (FID)	0.88		0.00099	0.00025	mg/L	1		RSK-175	Total/NA
DRO (nC10-<nC25)	0.94		0.11	0.076	mg/L	1		AK102 & 103	Total/NA
Sulfate	2.2		1.2	0.26	mg/L	1		300.0	Total/NA
Alkalinity	120		5.0	5.0	mg/L	1		SM 2320B	Total/NA

## Client Sample ID: MW-6-W-190916

## Lab Sample ID: 580-89231-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	8.0		3.0	0.53	ug/L	1		8260C	Total/NA
Toluene	0.57	J	2.0	0.39	ug/L	1		8260C	Total/NA
Ethylbenzene - RA	1.6	J	3.0	0.50	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene - RA	11		3.0	0.75	ug/L	1		8260C	Total/NA
o-Xylene - RA	0.64	J	2.0	0.39	ug/L	1		8260C	Total/NA
Methane (TCD)	5.0		1.0	0.50	mg/L	1		RSK-175	Total/NA
DRO (nC10-<nC25)	0.50		0.11	0.076	mg/L	1		AK102 & 103	Total/NA
Lead	0.0040	J	0.030	0.0027	mg/L	1		6010D	Total Recoverable
Nitrate as N	0.031	J H	0.20	0.020	mg/L	1		300.0	Total/NA
Sulfate	1.2		1.2	0.26	mg/L	1		300.0	Total/NA
Alkalinity	290		5.0	5.0	mg/L	1		SM 2320B	Total/NA

## Client Sample ID: MW-3-W-190916

## Lab Sample ID: 580-89231-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (FID)	0.45		0.00099	0.00025	mg/L	1		RSK-175	Total/NA
DRO (nC10-<nC25)	0.50		0.11	0.076	mg/L	1		AK102 & 103	Total/NA
Nitrate as N	0.035	J H	0.20	0.020	mg/L	1		300.0	Total/NA
Sulfate	14		1.2	0.26	mg/L	1		300.0	Total/NA
Alkalinity	360		5.0	5.0	mg/L	1		SM 2320B	Total/NA

## Client Sample ID: MW-2-W-190916

## Lab Sample ID: 580-89231-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (FID)	0.14		0.00099	0.00025	mg/L	1		RSK-175	Total/NA
DRO (nC10-<nC25)	1.4		0.13	0.086	mg/L	1		AK102 & 103	Total/NA
Lead	0.027	J	0.030	0.0027	mg/L	1		6010D	Total Recoverable
Nitrate as N	0.042	J H	0.20	0.020	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

## Client Sample ID: MW-2-W-190916 (Continued)

## Lab Sample ID: 580-89231-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	8.7	F1	1.2	0.26	mg/L	1		300.0	Total/NA
Alkalinity	290		5.0	5.0	mg/L	1		SM 2320B	Total/NA

## Client Sample ID: MW-10-W-190916

## Lab Sample ID: 580-89231-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	17		3.0	0.53	ug/L	1		8260C	Total/NA
Toluene	0.85	J	2.0	0.39	ug/L	1		8260C	Total/NA
Ethylbenzene	2.5	J	3.0	0.50	ug/L	1		8260C	Total/NA
o-Xylene	0.72	J	2.0	0.39	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene - DL	190		30	7.5	ug/L	10		8260C	Total/NA
Gasoline Range Organics (GRO) -C6-C10	0.82		0.25	0.10	mg/L	1		AK101	Total/NA
Methane (TCD)	2.8		1.0	0.50	mg/L	1		RSK-175	Total/NA
DRO (nC10-<nC25)	0.54		0.11	0.077	mg/L	1		AK102 & 103	Total/NA
Lead	0.0030	J	0.030	0.0027	mg/L	1		6010D	Total Recoverable
Nitrate as N	0.030	J H	0.20	0.020	mg/L	1		300.0	Total/NA
Sulfate	1.3		1.2	0.26	mg/L	1		300.0	Total/NA
Alkalinity	310		5.0	5.0	mg/L	1		SM 2320B	Total/NA

## Client Sample ID: BD-1-W-190916

## Lab Sample ID: 580-89231-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	3.7		1.0	0.50	mg/L	1		RSK-175	Total/NA
Lead	0.0035	J	0.030	0.0027	mg/L	1		6010D	Total Recoverable
Nitrate as N	0.034	J H	0.20	0.020	mg/L	1		300.0	Total/NA
Sulfate	0.81	J	1.2	0.26	mg/L	1		300.0	Total/NA
Alkalinity	310		5.0	5.0	mg/L	1		SM 2320B	Total/NA

## Client Sample ID: Trip Blank\_190916

## Lab Sample ID: 580-89231-12

No Detections.

This Detection Summary does not include radiochemical test results.



# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

**Client Sample ID: EQB-1-W-190916**

**Lab Sample ID: 580-89231-1**

Date Collected: 09/16/19 10:00

Matrix: Water

Date Received: 09/17/19 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.0	0.53	ug/L			09/29/19 02:31	1
<b>Toluene</b>	<b>0.72</b>	<b>J</b>	2.0	0.39	ug/L			09/29/19 02:31	1
Ethylbenzene	ND		3.0	0.50	ug/L			09/29/19 02:31	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			09/29/19 02:31	1
o-Xylene	ND		2.0	0.39	ug/L			09/29/19 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		09/29/19 02:31	1
Trifluorotoluene (Surr)	103		80 - 120		09/29/19 02:31	1
4-Bromofluorobenzene (Surr)	101		80 - 120		09/29/19 02:31	1
Dibromofluoromethane (Surr)	100		80 - 120		09/29/19 02:31	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 126		09/29/19 02:31	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			09/19/19 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	69		50 - 150		09/19/19 15:41	1
4-Bromofluorobenzene (Surr)	94		50 - 150		09/19/19 15:41	1

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (FID)	ND		0.00099	0.00025	mg/L			09/24/19 17:14	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		0.13	0.088	mg/L		09/27/19 12:13	09/28/19 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150	09/27/19 12:13	09/28/19 18:31	1

**Method: 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.030	0.0027	mg/L		09/26/19 11:20	09/27/19 16:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Nitrate as N</b>	<b>0.034</b>	<b>J H</b>	0.20	0.020	mg/L			09/18/19 17:09	1
<b>Sulfate</b>	<b>0.53</b>	<b>J</b>	1.2	0.26	mg/L			09/30/19 13:43	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	ND		5.0	5.0	mg/L			09/29/19 13:57	1

**Client Sample ID: MW-4-W-190916**

**Lab Sample ID: 580-89231-2**

Date Collected: 09/16/19 10:30

Matrix: Water

Date Received: 09/17/19 08:40

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane (TCD)</b>	<b>2.1</b>		1.0	0.50	mg/L			09/24/19 17:27	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

**Client Sample ID: MW-4-W-190916**

**Lab Sample ID: 580-89231-2**

Date Collected: 09/16/19 10:30

Matrix: Water

Date Received: 09/17/19 08:40

**Method: 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0058	J	0.030	0.0027	mg/L		09/26/19 11:20	09/27/19 17:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.073	J H	0.20	0.020	mg/L			09/19/19 10:59	1
Sulfate	3.4		1.2	0.26	mg/L			09/30/19 13:55	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	340		5.0	5.0	mg/L			09/29/19 13:57	1

**Client Sample ID: MW-5-W-190916**

**Lab Sample ID: 580-89231-3**

Date Collected: 09/16/19 10:30

Matrix: Water

Date Received: 09/17/19 08:40

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	3.4		1.0	0.50	mg/L			09/24/19 17:40	1

**Method: 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0029	J	0.030	0.0027	mg/L		09/26/19 11:20	09/27/19 17:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	J H	0.20	0.020	mg/L			09/19/19 11:10	1
Sulfate	0.80	J	1.2	0.26	mg/L			09/30/19 14:42	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	310		5.0	5.0	mg/L			09/29/19 13:57	1

**Client Sample ID: MW-7-W-190916**

**Lab Sample ID: 580-89231-4**

Date Collected: 09/16/19 11:30

Matrix: Water

Date Received: 09/17/19 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	9.5		3.0	0.53	ug/L			09/29/19 02:56	1
Toluene	11		2.0	0.39	ug/L			09/29/19 02:56	1
Ethylbenzene	79		3.0	0.50	ug/L			09/29/19 02:56	1
o-Xylene	81		2.0	0.39	ug/L			09/29/19 02:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120					09/29/19 02:56	1
Trifluorotoluene (Surr)	102		80 - 120					09/29/19 02:56	1
4-Bromofluorobenzene (Surr)	101		80 - 120					09/29/19 02:56	1
Dibromofluoromethane (Surr)	97		80 - 120					09/29/19 02:56	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 126					09/29/19 02:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	270		30	7.5	ug/L			09/30/19 20:15	10

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

**Client Sample ID: MW-7-W-190916**

**Lab Sample ID: 580-89231-4**

Date Collected: 09/16/19 11:30

Matrix: Water

Date Received: 09/17/19 08:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		09/30/19 20:15	10
Trifluorotoluene (Surr)	103		80 - 120		09/30/19 20:15	10
4-Bromofluorobenzene (Surr)	101		80 - 120		09/30/19 20:15	10
Dibromofluoromethane (Surr)	99		80 - 120		09/30/19 20:15	10
1,2-Dichloroethane-d4 (Surr)	105		80 - 126		09/30/19 20:15	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	1.3		0.25	0.10	mg/L			09/19/19 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	99		50 - 150		09/19/19 16:42	1
4-Bromofluorobenzene (Surr)	106		50 - 150		09/19/19 16:42	1

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	1.9		1.0	0.50	mg/L			09/24/19 17:56	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)	1.3		0.11	0.078	mg/L		09/27/19 12:13	09/28/19 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150		09/27/19 12:13	09/28/19 18:51

**Method: 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0028	J	0.030	0.0027	mg/L		09/26/19 11:20	09/27/19 17:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.031	J H	0.20	0.020	mg/L			09/19/19 11:22	1
Sulfate	1.1	J	1.2	0.26	mg/L			09/30/19 15:05	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	330		5.0	5.0	mg/L			09/29/19 13:57	1

**Client Sample ID: MW-8-W-190916**

**Lab Sample ID: 580-89231-5**

Date Collected: 09/16/19 11:50

Matrix: Water

Date Received: 09/17/19 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	20		3.0	0.53	ug/L			09/29/19 03:21	1
Toluene	3.7		2.0	0.39	ug/L			09/29/19 03:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		09/29/19 03:21	1
Trifluorotoluene (Surr)	102		80 - 120		09/29/19 03:21	1
4-Bromofluorobenzene (Surr)	105		80 - 120		09/29/19 03:21	1
Dibromofluoromethane (Surr)	96		80 - 120		09/29/19 03:21	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 126		09/29/19 03:21	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

**Client Sample ID: MW-8-W-190916**

**Lab Sample ID: 580-89231-5**

Date Collected: 09/16/19 11:50

Matrix: Water

Date Received: 09/17/19 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	200		30	5.0	ug/L	-		09/30/19 20:40	10
m-Xylene & p-Xylene	790		30	7.5	ug/L	-		09/30/19 20:40	10
o-Xylene	190		20	3.9	ug/L	-		09/30/19 20:40	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120		09/30/19 20:40	10
Trifluorotoluene (Surr)	105		80 - 120		09/30/19 20:40	10
4-Bromofluorobenzene (Surr)	103		80 - 120		09/30/19 20:40	10
Dibromofluoromethane (Surr)	99		80 - 120		09/30/19 20:40	10
1,2-Dichloroethane-d4 (Surr)	104		80 - 126		09/30/19 20:40	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	4.7		0.25	0.10	mg/L	-		09/19/19 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	108		50 - 150		09/19/19 17:12	1
4-Bromofluorobenzene (Surr)	137		50 - 150		09/19/19 17:12	1

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	1.6		1.0	0.50	mg/L	-		09/24/19 18:09	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)	1.4		0.12	0.082	mg/L	-	09/27/19 12:13	09/28/19 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	62		50 - 150		09/27/19 12:13	09/28/19 19:12

**Method: 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.011	J	0.030	0.0027	mg/L	-	09/26/19 11:20	09/27/19 17:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.066	J H	0.20	0.020	mg/L	-		09/19/19 11:34	1
Sulfate	2.5		1.2	0.26	mg/L	-		09/30/19 15:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	310		5.0	5.0	mg/L	-		09/29/19 13:57	1

**Client Sample ID: MW-9-W-190916**

**Lab Sample ID: 580-89231-6**

Date Collected: 09/16/19 12:15

Matrix: Water

Date Received: 09/17/19 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.4		3.0	0.53	ug/L	-		09/29/19 03:47	1
Toluene	20		2.0	0.39	ug/L	-		09/29/19 03:47	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

**Client Sample ID: MW-9-W-190916**

**Lab Sample ID: 580-89231-6**

**Date Collected: 09/16/19 12:15**

**Matrix: Water**

**Date Received: 09/17/19 08:40**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		09/29/19 03:47	1
Trifluorotoluene (Surr)	103		80 - 120		09/29/19 03:47	1
4-Bromofluorobenzene (Surr)	105		80 - 120		09/29/19 03:47	1
Dibromofluoromethane (Surr)	97		80 - 120		09/29/19 03:47	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 126		09/29/19 03:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	140		30	5.0	ug/L			09/30/19 21:05	10
m-Xylene & p-Xylene	830		30	7.5	ug/L			09/30/19 21:05	10
o-Xylene	260		20	3.9	ug/L			09/30/19 21:05	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		09/30/19 21:05	10
Trifluorotoluene (Surr)	104		80 - 120		09/30/19 21:05	10
4-Bromofluorobenzene (Surr)	104		80 - 120		09/30/19 21:05	10
Dibromofluoromethane (Surr)	99		80 - 120		09/30/19 21:05	10
1,2-Dichloroethane-d4 (Surr)	105		80 - 126		09/30/19 21:05	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	5.3		0.25	0.10	mg/L			09/19/19 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	95		50 - 150		09/19/19 17:43	1
4-Bromofluorobenzene (Surr)	152	X	50 - 150		09/19/19 17:43	1

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (FID)	0.88		0.00099	0.00025	mg/L			09/24/19 18:22	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)	0.94		0.11	0.076	mg/L		09/27/19 12:13	09/28/19 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	76		50 - 150		09/27/19 12:13	09/28/19 19:32

**Method: 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.030	0.0027	mg/L		09/26/19 11:20	09/27/19 17:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND	H	0.20	0.020	mg/L			09/19/19 11:46	1
Sulfate	2.2		1.2	0.26	mg/L			09/30/19 15:52	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	120		5.0	5.0	mg/L			09/29/19 13:57	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

**Client Sample ID: MW-6-W-190916**

**Lab Sample ID: 580-89231-7**

Date Collected: 09/16/19 12:45

Matrix: Water

Date Received: 09/17/19 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	8.0		3.0	0.53	ug/L			09/29/19 04:11	1
Toluene	0.57	J	2.0	0.39	ug/L			09/29/19 04:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120					09/29/19 04:11	1
Trifluorotoluene (Surr)	104		80 - 120					09/29/19 04:11	1
4-Bromofluorobenzene (Surr)	103		80 - 120					09/29/19 04:11	1
Dibromofluoromethane (Surr)	99		80 - 120					09/29/19 04:11	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 126					09/29/19 04:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.6	J	3.0	0.50	ug/L			09/30/19 16:33	1
m-Xylene & p-Xylene	11		3.0	0.75	ug/L			09/30/19 16:33	1
o-Xylene	0.64	J	2.0	0.39	ug/L			09/30/19 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120					09/30/19 16:33	1
Trifluorotoluene (Surr)	101		80 - 120					09/30/19 16:33	1
4-Bromofluorobenzene (Surr)	100		80 - 120					09/30/19 16:33	1
Dibromofluoromethane (Surr)	98		80 - 120					09/30/19 16:33	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 126					09/30/19 16:33	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			09/24/19 01:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	102		50 - 150					09/24/19 01:27	1
4-Bromofluorobenzene (Surr)	99		50 - 150					09/24/19 01:27	1

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	5.0		1.0	0.50	mg/L			09/25/19 16:52	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)	0.50		0.11	0.076	mg/L		09/27/19 12:13	09/28/19 19:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	82		50 - 150				09/27/19 12:13	09/28/19 19:52	1

## Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0040	J	0.030	0.0027	mg/L		09/26/19 11:20	09/27/19 17:20	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.031	J H	0.20	0.020	mg/L			09/19/19 11:58	1
Sulfate	1.2		1.2	0.26	mg/L			09/30/19 16:04	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

## Client Sample ID: MW-6-W-190916

Lab Sample ID: 580-89231-7

Date Collected: 09/16/19 12:45

Matrix: Water

Date Received: 09/17/19 08:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	290		5.0	5.0	mg/L			09/29/19 13:57	1

## Client Sample ID: MW-3-W-190916

Lab Sample ID: 580-89231-8

Date Collected: 09/16/19 13:20

Matrix: Water

Date Received: 09/17/19 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.0	0.53	ug/L			09/29/19 04:36	1
Toluene	ND		2.0	0.39	ug/L			09/29/19 04:36	1
Ethylbenzene	ND		3.0	0.50	ug/L			09/29/19 04:36	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			09/29/19 04:36	1
o-Xylene	ND		2.0	0.39	ug/L			09/29/19 04:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		09/29/19 04:36	1
Trifluorotoluene (Surr)	104		80 - 120		09/29/19 04:36	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/29/19 04:36	1
Dibromofluoromethane (Surr)	100		80 - 120		09/29/19 04:36	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 126		09/29/19 04:36	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			09/19/19 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	113		50 - 150		09/19/19 19:14	1
4-Bromofluorobenzene (Surr)	96		50 - 150		09/19/19 19:14	1

### Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (FID)	0.45		0.00099	0.00025	mg/L			09/25/19 17:05	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)	0.50		0.11	0.076	mg/L		09/27/19 12:13	09/28/19 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150	09/27/19 12:13	09/28/19 20:32	1

### Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.030	0.0027	mg/L		09/26/19 11:20	09/27/19 17:23	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.035	J H	0.20	0.020	mg/L			09/19/19 12:09	1
Sulfate	14		1.2	0.26	mg/L			09/30/19 16:27	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	360		5.0	5.0	mg/L			09/29/19 13:57	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

**Client Sample ID: MW-2-W-190916**

**Lab Sample ID: 580-89231-9**

Date Collected: 09/16/19 13:50

Matrix: Water

Date Received: 09/17/19 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.0	0.53	ug/L			09/29/19 05:01	1
Toluene	ND		2.0	0.39	ug/L			09/29/19 05:01	1
Ethylbenzene	ND		3.0	0.50	ug/L			09/29/19 05:01	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			09/29/19 05:01	1
o-Xylene	ND		2.0	0.39	ug/L			09/29/19 05:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		09/29/19 05:01	1
Trifluorotoluene (Surr)	103		80 - 120		09/29/19 05:01	1
4-Bromofluorobenzene (Surr)	101		80 - 120		09/29/19 05:01	1
Dibromofluoromethane (Surr)	99		80 - 120		09/29/19 05:01	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 126		09/29/19 05:01	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			09/19/19 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	109		50 - 150		09/19/19 19:44	1
4-Bromofluorobenzene (Surr)	95		50 - 150		09/19/19 19:44	1

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (FID)	0.14		0.00099	0.00025	mg/L			09/25/19 17:17	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)	1.4		0.13	0.086	mg/L		09/27/19 12:13	09/28/19 20:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	79		50 - 150		09/27/19 12:13	09/28/19 20:52

**Method: 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.027	J	0.030	0.0027	mg/L		09/26/19 11:20	09/27/19 17:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.042	J H	0.20	0.020	mg/L			09/19/19 12:21	1
Sulfate	8.7	F1	1.2	0.26	mg/L			09/30/19 17:14	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	290		5.0	5.0	mg/L			09/29/19 13:57	1

**Client Sample ID: MW-10-W-190916**

**Lab Sample ID: 580-89231-10**

Date Collected: 09/16/19 14:45

Matrix: Water

Date Received: 09/17/19 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	17		3.0	0.53	ug/L			09/29/19 05:26	1
Toluene	0.85	J	2.0	0.39	ug/L			09/29/19 05:26	1

Eurofins TestAmerica, Seattle



# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

**Client Sample ID: MW-10-W-190916**

**Lab Sample ID: 580-89231-10**

Date Collected: 09/16/19 14:45

Matrix: Water

Date Received: 09/17/19 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	2.5	J	3.0	0.50	ug/L			09/29/19 05:26	1
o-Xylene	0.72	J	2.0	0.39	ug/L			09/29/19 05:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120					09/29/19 05:26	1
Trifluorotoluene (Surr)	103		80 - 120					09/29/19 05:26	1
4-Bromofluorobenzene (Surr)	104		80 - 120					09/29/19 05:26	1
Dibromofluoromethane (Surr)	99		80 - 120					09/29/19 05:26	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 126					09/29/19 05:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	190		30	7.5	ug/L			09/30/19 21:30	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120					09/30/19 21:30	10
Trifluorotoluene (Surr)	104		80 - 120					09/30/19 21:30	10
4-Bromofluorobenzene (Surr)	101		80 - 120					09/30/19 21:30	10
Dibromofluoromethane (Surr)	99		80 - 120					09/30/19 21:30	10
1,2-Dichloroethane-d4 (Surr)	106		80 - 126					09/30/19 21:30	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	0.82		0.25	0.10	mg/L			09/19/19 20:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	111		50 - 150					09/19/19 20:15	1
4-Bromofluorobenzene (Surr)	110		50 - 150					09/19/19 20:15	1

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	2.8		1.0	0.50	mg/L			09/25/19 17:30	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)	0.54		0.11	0.077	mg/L		09/27/19 12:13	09/28/19 21:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	82		50 - 150				09/27/19 12:13	09/28/19 21:13	1

**Method: 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0030	J	0.030	0.0027	mg/L		09/26/19 11:20	09/27/19 17:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.030	J H	0.20	0.020	mg/L			09/19/19 12:33	1
Sulfate	1.3		1.2	0.26	mg/L			09/30/19 17:49	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	310		5.0	5.0	mg/L			09/29/19 13:57	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

**Client Sample ID: BD-1-W-190916**

**Lab Sample ID: 580-89231-11**

Date Collected: 09/16/19 00:00

Matrix: Water

Date Received: 09/17/19 08:40

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	3.7		1.0	0.50	mg/L			09/25/19 18:14	1

**Method: 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0035	J	0.030	0.0027	mg/L		09/26/19 11:20	09/27/19 17:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.034	J H	0.20	0.020	mg/L			09/19/19 12:44	1
Sulfate	0.81	J	1.2	0.26	mg/L			09/30/19 18:12	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	310		5.0	5.0	mg/L			09/29/19 13:57	1

**Client Sample ID: Trip Blank\_190916**

**Lab Sample ID: 580-89231-12**

Date Collected: 09/16/19 00:00

Matrix: Water

Date Received: 09/17/19 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.0	0.53	ug/L			09/29/19 01:16	1
Toluene	ND		2.0	0.39	ug/L			09/29/19 01:16	1
Ethylbenzene	ND		3.0	0.50	ug/L			09/29/19 01:16	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			09/29/19 01:16	1
o-Xylene	ND		2.0	0.39	ug/L			09/29/19 01:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		09/29/19 01:16	1
Trifluorotoluene (Surr)	104		80 - 120		09/29/19 01:16	1
4-Bromofluorobenzene (Surr)	101		80 - 120		09/29/19 01:16	1
Dibromofluoromethane (Surr)	99		80 - 120		09/29/19 01:16	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 126		09/29/19 01:16	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			09/30/19 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	96		50 - 150		09/30/19 15:41	1
4-Bromofluorobenzene (Surr)	87		50 - 150		09/30/19 15:41	1

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (FID)	ND		0.00099	0.00025	mg/L			09/25/19 18:28	1

# Default Detection Limits

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

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

Analyte	RL	MDL	Units
Benzene	3.0	0.53	ug/L
Ethylbenzene	3.0	0.50	ug/L
m-Xylene & p-Xylene	3.0	0.75	ug/L
o-Xylene	2.0	0.39	ug/L
Toluene	2.0	0.39	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: RSK-175 - Dissolved Gases (GC)

Analyte	RL	MDL	Units
Methane (FID)	0.00099	0.00025	mg/L
Methane (TCD)	1.0	0.50	mg/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

## Method: 6010D - Metals (ICP) - Total Recoverable

Prep: 3005A

Analyte	RL	MDL	Units
Lead	0.030	0.0027	mg/L

## General Chemistry

Analyte	RL	MDL	Units
Nitrate as N	0.20	0.020	mg/L
Sulfate	1.2	0.26	mg/L
Alkalinity	5.0	5.0	mg/L

# Surrogate Summary

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

## 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)				
		TOL (80-120)	TFT (80-120)	BFB (80-120)	DBFM (80-120)	DCA (80-126)
580-89231-1	EQB-1-W-190916	102	103	101	100	105
580-89231-4	MW-7-W-190916	103	102	101	97	104
580-89231-4 - DL	MW-7-W-190916	104	103	101	99	105
580-89231-5	MW-8-W-190916	103	102	105	96	104
580-89231-5 - DL	MW-8-W-190916	105	105	103	99	104
580-89231-6	MW-9-W-190916	104	103	105	97	104
580-89231-6 - DL	MW-9-W-190916	104	104	104	99	105
580-89231-7	MW-6-W-190916	104	104	103	99	105
580-89231-7 - RA	MW-6-W-190916	102	101	100	98	105
580-89231-8	MW-3-W-190916	102	104	102	100	104
580-89231-9	MW-2-W-190916	102	103	101	99	103
580-89231-10	MW-10-W-190916	103	103	104	99	103
580-89231-10 - DL	MW-10-W-190916	103	104	101	99	106
580-89231-12	Trip Blank_190916	102	104	101	99	105
LCS 580-312709/3	Lab Control Sample	100	104	101	100	104
LCS 580-312759/3	Lab Control Sample	100	102	101	100	105
LCSD 580-312709/4	Lab Control Sample Dup	101	103	101	99	104
LCSD 580-312759/4	Lab Control Sample Dup	101	101	102	99	103
MB 580-312709/6	Method Blank	103	103	102	100	107
MB 580-312759/6	Method Blank	103	101	98	97	106

### Surrogate Legend

TOL = Toluene-d8 (Surr)  
 TFT = Trifluorotoluene (Surr)  
 BFB = 4-Bromofluorobenzene (Surr)  
 DBFM = Dibromofluoromethane (Surr)  
 DCA = 1,2-Dichloroethane-d4 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TFT1 (50-150)	BFB1 (50-150)
580-89231-1	EQB-1-W-190916	69	94
580-89231-4	MW-7-W-190916	99	106
580-89231-5	MW-8-W-190916	108	137
580-89231-6	MW-9-W-190916	95	152 X
580-89231-7	MW-6-W-190916	102	99
580-89231-8	MW-3-W-190916	113	96
580-89231-9	MW-2-W-190916	109	95
580-89231-10	MW-10-W-190916	111	110
LCS 580-311731/10	Lab Control Sample	103	100
LCS 580-312058/10	Lab Control Sample	103	96
LCSD 580-311731/11	Lab Control Sample Dup	102	102
LCSD 580-312058/11	Lab Control Sample Dup	101	98
MB 580-311731/9	Method Blank	122	96
MB 580-312058/9	Method Blank	116	97

### Surrogate Legend

TFT = Trifluorotoluene (Surr)

# Surrogate Summary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 351860 Anchorage, Alaska  
BFB = 4-Bromofluorobenzene (Surr)

Job ID: 580-89231-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TFT2 (50-150)	BFB2 (50-150)
580-89231-12	Trip Blank_190916	96	87
LCS 580-312781/8	Lab Control Sample	97	95
LCSD 580-312781/18	Lab Control Sample Dup	97	91
MB 580-312781/7	Method Blank	95	87

### Surrogate Legend

TFT = Trifluorotoluene (Surr)

BFB = 4-Bromofluorobenzene (Surr)

## 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)
580-89231-1	EQB-1-W-190916	75
580-89231-4	MW-7-W-190916	78
580-89231-5	MW-8-W-190916	62
580-89231-6	MW-9-W-190916	76
580-89231-7	MW-6-W-190916	82
580-89231-8	MW-3-W-190916	75
580-89231-9	MW-2-W-190916	79
580-89231-10	MW-10-W-190916	82
LCS 580-312548/2-A	Lab Control Sample	78
LCSD 580-312548/3-A	Lab Control Sample Dup	77
MB 580-312548/1-A	Method Blank	91

### Surrogate Legend

OTPH = o-Terphenyl

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

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

**Lab Sample ID: MB 580-312709/6**

**Matrix: Water**

**Analysis Batch: 312709**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.0	0.53	ug/L			09/29/19 00:51	1
Toluene	ND		2.0	0.39	ug/L			09/29/19 00:51	1
Ethylbenzene	ND		3.0	0.50	ug/L			09/29/19 00:51	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			09/29/19 00:51	1
o-Xylene	ND		2.0	0.39	ug/L			09/29/19 00:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		09/29/19 00:51	1
Trifluorotoluene (Surr)	103		80 - 120		09/29/19 00:51	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/29/19 00:51	1
Dibromofluoromethane (Surr)	100		80 - 120		09/29/19 00:51	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 126		09/29/19 00:51	1

**Lab Sample ID: LCS 580-312709/3**

**Matrix: Water**

**Analysis Batch: 312709**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	9.04		ug/L		90	75 - 121
Toluene	10.0	9.38		ug/L		94	80 - 120
Ethylbenzene	10.0	9.30		ug/L		93	80 - 120
m-Xylene & p-Xylene	10.0	9.37		ug/L		94	80 - 120
o-Xylene	10.0	9.66		ug/L		97	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		80 - 120
Trifluorotoluene (Surr)	104		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	104		80 - 126

**Lab Sample ID: LCSD 580-312709/4**

**Matrix: Water**

**Analysis Batch: 312709**

**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
Benzene	10.0	8.71		ug/L		87	75 - 121	4	14
Toluene	10.0	8.81		ug/L		88	80 - 120	6	19
Ethylbenzene	10.0	8.77		ug/L		88	80 - 120	6	14
m-Xylene & p-Xylene	10.0	8.91		ug/L		89	80 - 120	5	14
o-Xylene	10.0	9.32		ug/L		93	80 - 120	4	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 120
Trifluorotoluene (Surr)	103		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

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

**Lab Sample ID: LCSD 580-312709/4**  
**Matrix: Water**  
**Analysis Batch: 312709**

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

Surrogate	LCS D %Recovery	LCS D Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		80 - 126

**Lab Sample ID: MB 580-312759/6**  
**Matrix: Water**  
**Analysis Batch: 312759**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		3.0	0.50	ug/L			09/30/19 13:09	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			09/30/19 13:09	1
o-Xylene	ND		2.0	0.39	ug/L			09/30/19 13:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		09/30/19 13:09	1
Trifluorotoluene (Surr)	101		80 - 120		09/30/19 13:09	1
4-Bromofluorobenzene (Surr)	98		80 - 120		09/30/19 13:09	1
Dibromofluoromethane (Surr)	97		80 - 120		09/30/19 13:09	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 126		09/30/19 13:09	1

**Lab Sample ID: LCS 580-312759/3**  
**Matrix: Water**  
**Analysis Batch: 312759**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	10.0	9.53		ug/L		95	80 - 120
m-Xylene & p-Xylene	10.0	9.53		ug/L		95	80 - 120
o-Xylene	10.0	9.87		ug/L		99	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		80 - 120
Trifluorotoluene (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	105		80 - 126

**Lab Sample ID: LCSD 580-312759/4**  
**Matrix: Water**  
**Analysis Batch: 312759**

**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
Ethylbenzene	10.0	9.36		ug/L		94	80 - 120	2	14
m-Xylene & p-Xylene	10.0	9.55		ug/L		95	80 - 120	0	14
o-Xylene	10.0	9.96		ug/L		100	80 - 120	1	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 120
Trifluorotoluene (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

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

**Lab Sample ID: LCSD 580-312759/4**  
**Matrix: Water**  
**Analysis Batch: 312759**

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

Surrogate	LCS D %Recovery	LCS D Qualifier	Limits
Dibromofluoromethane (Surr)	99		80 - 120
1,2-Dichloroethane-d4 (Surr)	103		80 - 126

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

**Lab Sample ID: MB 580-311731/9**  
**Matrix: Water**  
**Analysis Batch: 311731**

**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			09/19/19 13:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	122		50 - 150		09/19/19 13:19	1
4-Bromofluorobenzene (Surr)	96		50 - 150		09/19/19 13:19	1

**Lab Sample ID: LCS 580-311731/10**  
**Matrix: Water**  
**Analysis Batch: 311731**

**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	0.970		mg/L		97	77 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Trifluorotoluene (Surr)	103		50 - 150
4-Bromofluorobenzene (Surr)	100		50 - 150

**Lab Sample ID: LCSD 580-311731/11**  
**Matrix: Water**  
**Analysis Batch: 311731**

**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	0.991		mg/L		99	77 - 123	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Trifluorotoluene (Surr)	102		50 - 150
4-Bromofluorobenzene (Surr)	102		50 - 150

**Lab Sample ID: MB 580-312058/9**  
**Matrix: Water**  
**Analysis Batch: 312058**

**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			09/23/19 14:48	1



# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

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

**Lab Sample ID: MB 580-312058/9**  
**Matrix: Water**  
**Analysis Batch: 312058**

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

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Trifluorotoluene (Surr)	116		50 - 150		09/23/19 14:48	1
4-Bromofluorobenzene (Surr)	97		50 - 150		09/23/19 14:48	1

**Lab Sample ID: LCS 580-312058/10**  
**Matrix: Water**  
**Analysis Batch: 312058**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Trifluorotoluene (Surr)	103		50 - 150
4-Bromofluorobenzene (Surr)	96		50 - 150

**Lab Sample ID: LCSD 580-312058/11**  
**Matrix: Water**  
**Analysis Batch: 312058**

**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

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Trifluorotoluene (Surr)	101		50 - 150
4-Bromofluorobenzene (Surr)	98		50 - 150

**Lab Sample ID: MB 580-312781/7**  
**Matrix: Water**  
**Analysis Batch: 312781**

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/30/19 14:04	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Trifluorotoluene (Surr)	95		50 - 150		09/30/19 14:04	1
4-Bromofluorobenzene (Surr)	87		50 - 150		09/30/19 14:04	1

**Lab Sample ID: LCS 580-312781/8**  
**Matrix: Water**  
**Analysis Batch: 312781**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

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

**Lab Sample ID: LCS 580-312781/8**  
**Matrix: Water**  
**Analysis Batch: 312781**

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Trifluorotoluene (Surr)	97		50 - 150
4-Bromofluorobenzene (Surr)	95		50 - 150

**Lab Sample ID: LCSD 580-312781/18**  
**Matrix: Water**  
**Analysis Batch: 312781**

**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	0.892		mg/L		89	77 - 123	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Trifluorotoluene (Surr)	97		50 - 150
4-Bromofluorobenzene (Surr)	91		50 - 150

## Method: RSK-175 - Dissolved Gases (GC)

**Lab Sample ID: MB 440-570503/8**  
**Matrix: Water**  
**Analysis Batch: 570503**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (FID)	ND		0.00099	0.00025	mg/L			09/24/19 13:01	1
Methane (TCD)	ND		1.0	0.50	mg/L			09/24/19 13:01	1

**Lab Sample ID: LCS 440-570503/4**  
**Matrix: Water**  
**Analysis Batch: 570503**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane (TCD)	4.19	4.49		mg/L		107	80 - 120

**Lab Sample ID: LCS 440-570503/6**  
**Matrix: Water**  
**Analysis Batch: 570503**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane (FID)	0.0839	0.0878		mg/L		105	80 - 120

**Lab Sample ID: LCSD 440-570503/5**  
**Matrix: Water**  
**Analysis Batch: 570503**

**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
Methane (TCD)	4.19	4.44		mg/L		106	80 - 120	1	20

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

## Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 440-570503/7  
Matrix: Water  
Analysis Batch: 570503

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
Methane (FID)	0.0839	0.0841		mg/L		100	80 - 120	4	20

Lab Sample ID: MB 440-570783/9  
Matrix: Water  
Analysis Batch: 570783

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (FID)	ND		0.00099	0.00025	mg/L			09/25/19 14:28	1
Methane (TCD)	ND		1.0	0.50	mg/L			09/25/19 14:28	1

Lab Sample ID: LCS 440-570783/5  
Matrix: Water  
Analysis Batch: 570783

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane (TCD)	4.19	4.52		mg/L		108	80 - 120

Lab Sample ID: LCS 440-570783/7  
Matrix: Water  
Analysis Batch: 570783

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane (FID)	0.0839	0.0890		mg/L		106	80 - 120

Lab Sample ID: LCSD 440-570783/6  
Matrix: Water  
Analysis Batch: 570783

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
Methane (TCD)	4.19	4.43		mg/L		106	80 - 120	2	20

Lab Sample ID: LCSD 440-570783/8  
Matrix: Water  
Analysis Batch: 570783

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
Methane (FID)	0.0839	0.0894		mg/L		107	80 - 120	0	20

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

Lab Sample ID: MB 580-312548/1-A  
Matrix: Water  
Analysis Batch: 312623

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 312548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		0.11	0.075	mg/L		09/27/19 12:12	09/28/19 13:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	91		50 - 150	09/27/19 12:12	09/28/19 13:09	1

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

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

(Continued)

**Lab Sample ID: LCS 580-312548/2-A**

**Matrix: Water**

**Analysis Batch: 312623**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 312548**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
DRO (nC10-<nC25)	2.00	1.79		mg/L		90	75 - 125
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>o</i> -Terphenyl	78		50 - 150				

**Lab Sample ID: LCSD 580-312548/3-A**

**Matrix: Water**

**Analysis Batch: 312623**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 312548**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
DRO (nC10-<nC25)	2.00	1.76		mg/L		88	75 - 125	2	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>o</i> -Terphenyl	77		50 - 150						

## Method: 6010D - Metals (ICP)

**Lab Sample ID: MB 580-312402/24-A**

**Matrix: Water**

**Analysis Batch: 312784**

**Client Sample ID: Method Blank**

**Prep Type: Total Recoverable**

**Prep Batch: 312402**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.030	0.0027	mg/L		09/26/19 11:21	09/27/19 16:26	1

**Lab Sample ID: LCS 580-312402/25-A**

**Matrix: Water**

**Analysis Batch: 312784**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total Recoverable**

**Prep Batch: 312402**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	1.00	0.974		mg/L		97	80 - 120

**Lab Sample ID: LCSD 580-312402/26-A**

**Matrix: Water**

**Analysis Batch: 312784**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total Recoverable**

**Prep Batch: 312402**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	1.00	1.03		mg/L		103	80 - 120	5	20

**Lab Sample ID: 580-89231-1 MS**

**Matrix: Water**

**Analysis Batch: 312784**

**Client Sample ID: EQB-1-W-190916**

**Prep Type: Total Recoverable**

**Prep Batch: 312402**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lead	ND		1.00	0.974		mg/L		97	80 - 120

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

## Method: 6010D - Metals (ICP) (Continued)

**Lab Sample ID: 580-89231-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 312784**

**Client Sample ID: EQB-1-W-190916**  
**Prep Type: Total Recoverable**  
**Prep Batch: 312402**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND		1.00	0.967		mg/L		97	80 - 120	1	20

**Lab Sample ID: 580-89231-1 DU**  
**Matrix: Water**  
**Analysis Batch: 312784**

**Client Sample ID: EQB-1-W-190916**  
**Prep Type: Total Recoverable**  
**Prep Batch: 312402**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	ND		ND		mg/L		NC	20

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 580-311693/3**  
**Matrix: Water**  
**Analysis Batch: 311693**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.20	0.020	mg/L			09/18/19 10:42	1

**Lab Sample ID: LCS 580-311693/4**  
**Matrix: Water**  
**Analysis Batch: 311693**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.00	5.08		mg/L		102	90 - 110

**Lab Sample ID: LCSD 580-311693/5**  
**Matrix: Water**  
**Analysis Batch: 311693**

**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
Nitrate as N	5.00	5.08		mg/L		102	90 - 110	0	15

**Lab Sample ID: 580-89231-1 MS**  
**Matrix: Water**  
**Analysis Batch: 311693**

**Client Sample ID: EQB-1-W-190916**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.034	J H	5.00	5.24		mg/L		104	90 - 110

**Lab Sample ID: MB 580-313012/15**  
**Matrix: Water**  
**Analysis Batch: 313012**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.2	0.26	mg/L			09/30/19 12:06	1

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: LCS 580-313012/16**  
**Matrix: Water**  
**Analysis Batch: 313012**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	51.7		mg/L		103	90 - 110

**Lab Sample ID: LCSD 580-313012/17**  
**Matrix: Water**  
**Analysis Batch: 313012**

**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
Sulfate	50.0	51.8		mg/L		104	90 - 110	0	15

**Lab Sample ID: 580-89231-9 MS**  
**Matrix: Water**  
**Analysis Batch: 313012**

**Client Sample ID: MW-2-W-190916**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	8.7	F1	50.0	65.9	F1	mg/L		114	90 - 110

**Lab Sample ID: 580-89231-9 MSD**  
**Matrix: Water**  
**Analysis Batch: 313012**

**Client Sample ID: MW-2-W-190916**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	8.7	F1	50.0	66.0	F1	mg/L		114	90 - 110	0	15

## Method: SM 2320B - Alkalinity

**Lab Sample ID: LCS 580-312687/2**  
**Matrix: Water**  
**Analysis Batch: 312687**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	101		mg/L		101	85 - 115

**Lab Sample ID: 580-89231-1 DU**  
**Matrix: Water**  
**Analysis Batch: 312687**

**Client Sample ID: EQB-1-W-190916**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	ND		ND		mg/L		NC	17

# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

## GC/MS VOA

### Analysis Batch: 312709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89231-1	EQB-1-W-190916	Total/NA	Water	8260C	
580-89231-4	MW-7-W-190916	Total/NA	Water	8260C	
580-89231-5	MW-8-W-190916	Total/NA	Water	8260C	
580-89231-6	MW-9-W-190916	Total/NA	Water	8260C	
580-89231-7	MW-6-W-190916	Total/NA	Water	8260C	
580-89231-8	MW-3-W-190916	Total/NA	Water	8260C	
580-89231-9	MW-2-W-190916	Total/NA	Water	8260C	
580-89231-10	MW-10-W-190916	Total/NA	Water	8260C	
580-89231-12	Trip Blank_190916	Total/NA	Water	8260C	
MB 580-312709/6	Method Blank	Total/NA	Water	8260C	
LCS 580-312709/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 580-312709/4	Lab Control Sample Dup	Total/NA	Water	8260C	

### Analysis Batch: 312759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89231-4 - DL	MW-7-W-190916	Total/NA	Water	8260C	
580-89231-5 - DL	MW-8-W-190916	Total/NA	Water	8260C	
580-89231-6 - DL	MW-9-W-190916	Total/NA	Water	8260C	
580-89231-7 - RA	MW-6-W-190916	Total/NA	Water	8260C	
580-89231-10 - DL	MW-10-W-190916	Total/NA	Water	8260C	
MB 580-312759/6	Method Blank	Total/NA	Water	8260C	
LCS 580-312759/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 580-312759/4	Lab Control Sample Dup	Total/NA	Water	8260C	

## GC VOA

### Analysis Batch: 311731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89231-1	EQB-1-W-190916	Total/NA	Water	AK101	
580-89231-4	MW-7-W-190916	Total/NA	Water	AK101	
580-89231-5	MW-8-W-190916	Total/NA	Water	AK101	
580-89231-6	MW-9-W-190916	Total/NA	Water	AK101	
580-89231-8	MW-3-W-190916	Total/NA	Water	AK101	
580-89231-9	MW-2-W-190916	Total/NA	Water	AK101	
580-89231-10	MW-10-W-190916	Total/NA	Water	AK101	
MB 580-311731/9	Method Blank	Total/NA	Water	AK101	
LCS 580-311731/10	Lab Control Sample	Total/NA	Water	AK101	
LCSD 580-311731/11	Lab Control Sample Dup	Total/NA	Water	AK101	

### Analysis Batch: 312058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89231-7	MW-6-W-190916	Total/NA	Water	AK101	
MB 580-312058/9	Method Blank	Total/NA	Water	AK101	
LCS 580-312058/10	Lab Control Sample	Total/NA	Water	AK101	
LCSD 580-312058/11	Lab Control Sample Dup	Total/NA	Water	AK101	

### Analysis Batch: 312781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89231-12	Trip Blank_190916	Total/NA	Water	AK101	
MB 580-312781/7	Method Blank	Total/NA	Water	AK101	
LCS 580-312781/8	Lab Control Sample	Total/NA	Water	AK101	

# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

## GC VOA (Continued)

### Analysis Batch: 312781 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 580-312781/18	Lab Control Sample Dup	Total/NA	Water	AK101	

### Analysis Batch: 570503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89231-1	EQB-1-W-190916	Total/NA	Water	RSK-175	
580-89231-2	MW-4-W-190916	Total/NA	Water	RSK-175	
580-89231-3	MW-5-W-190916	Total/NA	Water	RSK-175	
580-89231-4	MW-7-W-190916	Total/NA	Water	RSK-175	
580-89231-5	MW-8-W-190916	Total/NA	Water	RSK-175	
580-89231-6	MW-9-W-190916	Total/NA	Water	RSK-175	
MB 440-570503/8	Method Blank	Total/NA	Water	RSK-175	
LCS 440-570503/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 440-570503/6	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 440-570503/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 440-570503/7	Lab Control Sample Dup	Total/NA	Water	RSK-175	

### Analysis Batch: 570783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89231-7	MW-6-W-190916	Total/NA	Water	RSK-175	
580-89231-8	MW-3-W-190916	Total/NA	Water	RSK-175	
580-89231-9	MW-2-W-190916	Total/NA	Water	RSK-175	
580-89231-10	MW-10-W-190916	Total/NA	Water	RSK-175	
580-89231-11	BD-1-W-190916	Total/NA	Water	RSK-175	
580-89231-12	Trip Blank_190916	Total/NA	Water	RSK-175	
MB 440-570783/9	Method Blank	Total/NA	Water	RSK-175	
LCS 440-570783/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 440-570783/7	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 440-570783/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 440-570783/8	Lab Control Sample Dup	Total/NA	Water	RSK-175	

## GC Semi VOA

### Prep Batch: 312548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89231-1	EQB-1-W-190916	Total/NA	Water	3510C	
580-89231-4	MW-7-W-190916	Total/NA	Water	3510C	
580-89231-5	MW-8-W-190916	Total/NA	Water	3510C	
580-89231-6	MW-9-W-190916	Total/NA	Water	3510C	
580-89231-7	MW-6-W-190916	Total/NA	Water	3510C	
580-89231-8	MW-3-W-190916	Total/NA	Water	3510C	
580-89231-9	MW-2-W-190916	Total/NA	Water	3510C	
580-89231-10	MW-10-W-190916	Total/NA	Water	3510C	
MB 580-312548/1-A	Method Blank	Total/NA	Water	3510C	
LCS 580-312548/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-312548/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

### Analysis Batch: 312623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89231-1	EQB-1-W-190916	Total/NA	Water	AK102 & 103	312548
580-89231-4	MW-7-W-190916	Total/NA	Water	AK102 & 103	312548
580-89231-5	MW-8-W-190916	Total/NA	Water	AK102 & 103	312548



# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

## GC Semi VOA (Continued)

### Analysis Batch: 312623 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89231-6	MW-9-W-190916	Total/NA	Water	AK102 & 103	312548
580-89231-7	MW-6-W-190916	Total/NA	Water	AK102 & 103	312548
580-89231-8	MW-3-W-190916	Total/NA	Water	AK102 & 103	312548
580-89231-9	MW-2-W-190916	Total/NA	Water	AK102 & 103	312548
580-89231-10	MW-10-W-190916	Total/NA	Water	AK102 & 103	312548
MB 580-312548/1-A	Method Blank	Total/NA	Water	AK102 & 103	312548
LCS 580-312548/2-A	Lab Control Sample	Total/NA	Water	AK102 & 103	312548
LCSD 580-312548/3-A	Lab Control Sample Dup	Total/NA	Water	AK102 & 103	312548

## Metals

### Prep Batch: 312402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89231-1	EQB-1-W-190916	Total Recoverable	Water	3005A	
580-89231-2	MW-4-W-190916	Total Recoverable	Water	3005A	
580-89231-3	MW-5-W-190916	Total Recoverable	Water	3005A	
580-89231-4	MW-7-W-190916	Total Recoverable	Water	3005A	
580-89231-5	MW-8-W-190916	Total Recoverable	Water	3005A	
580-89231-6	MW-9-W-190916	Total Recoverable	Water	3005A	
580-89231-7	MW-6-W-190916	Total Recoverable	Water	3005A	
580-89231-8	MW-3-W-190916	Total Recoverable	Water	3005A	
580-89231-9	MW-2-W-190916	Total Recoverable	Water	3005A	
580-89231-10	MW-10-W-190916	Total Recoverable	Water	3005A	
580-89231-11	BD-1-W-190916	Total Recoverable	Water	3005A	
MB 580-312402/24-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-312402/25-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-312402/26-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
580-89231-1 MS	EQB-1-W-190916	Total Recoverable	Water	3005A	
580-89231-1 MSD	EQB-1-W-190916	Total Recoverable	Water	3005A	
580-89231-1 DU	EQB-1-W-190916	Total Recoverable	Water	3005A	

### Analysis Batch: 312784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89231-1	EQB-1-W-190916	Total Recoverable	Water	6010D	312402
580-89231-2	MW-4-W-190916	Total Recoverable	Water	6010D	312402
580-89231-3	MW-5-W-190916	Total Recoverable	Water	6010D	312402
580-89231-4	MW-7-W-190916	Total Recoverable	Water	6010D	312402
580-89231-5	MW-8-W-190916	Total Recoverable	Water	6010D	312402
580-89231-6	MW-9-W-190916	Total Recoverable	Water	6010D	312402
580-89231-7	MW-6-W-190916	Total Recoverable	Water	6010D	312402
580-89231-8	MW-3-W-190916	Total Recoverable	Water	6010D	312402
580-89231-9	MW-2-W-190916	Total Recoverable	Water	6010D	312402
580-89231-10	MW-10-W-190916	Total Recoverable	Water	6010D	312402
580-89231-11	BD-1-W-190916	Total Recoverable	Water	6010D	312402
MB 580-312402/24-A	Method Blank	Total Recoverable	Water	6010D	312402
LCS 580-312402/25-A	Lab Control Sample	Total Recoverable	Water	6010D	312402
LCSD 580-312402/26-A	Lab Control Sample Dup	Total Recoverable	Water	6010D	312402
580-89231-1 MS	EQB-1-W-190916	Total Recoverable	Water	6010D	312402
580-89231-1 MSD	EQB-1-W-190916	Total Recoverable	Water	6010D	312402
580-89231-1 DU	EQB-1-W-190916	Total Recoverable	Water	6010D	312402

# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

## General Chemistry

### Analysis Batch: 311693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89231-1	EQB-1-W-190916	Total/NA	Water	300.0	
580-89231-2	MW-4-W-190916	Total/NA	Water	300.0	
580-89231-3	MW-5-W-190916	Total/NA	Water	300.0	
580-89231-4	MW-7-W-190916	Total/NA	Water	300.0	
580-89231-5	MW-8-W-190916	Total/NA	Water	300.0	
580-89231-6	MW-9-W-190916	Total/NA	Water	300.0	
580-89231-7	MW-6-W-190916	Total/NA	Water	300.0	
580-89231-8	MW-3-W-190916	Total/NA	Water	300.0	
580-89231-9	MW-2-W-190916	Total/NA	Water	300.0	
580-89231-10	MW-10-W-190916	Total/NA	Water	300.0	
580-89231-11	BD-1-W-190916	Total/NA	Water	300.0	
MB 580-311693/3	Method Blank	Total/NA	Water	300.0	
LCS 580-311693/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 580-311693/5	Lab Control Sample Dup	Total/NA	Water	300.0	
580-89231-1 MS	EQB-1-W-190916	Total/NA	Water	300.0	
580-89231-1 MSD	EQB-1-W-190916	Total/NA	Water	300.0	

### Analysis Batch: 312687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89231-1	EQB-1-W-190916	Total/NA	Water	SM 2320B	
580-89231-2	MW-4-W-190916	Total/NA	Water	SM 2320B	
580-89231-3	MW-5-W-190916	Total/NA	Water	SM 2320B	
580-89231-4	MW-7-W-190916	Total/NA	Water	SM 2320B	
580-89231-5	MW-8-W-190916	Total/NA	Water	SM 2320B	
580-89231-6	MW-9-W-190916	Total/NA	Water	SM 2320B	
580-89231-7	MW-6-W-190916	Total/NA	Water	SM 2320B	
580-89231-8	MW-3-W-190916	Total/NA	Water	SM 2320B	
580-89231-9	MW-2-W-190916	Total/NA	Water	SM 2320B	
580-89231-10	MW-10-W-190916	Total/NA	Water	SM 2320B	
580-89231-11	BD-1-W-190916	Total/NA	Water	SM 2320B	
LCS 580-312687/2	Lab Control Sample	Total/NA	Water	SM 2320B	
580-89231-1 DU	EQB-1-W-190916	Total/NA	Water	SM 2320B	

### Analysis Batch: 313012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89231-1	EQB-1-W-190916	Total/NA	Water	300.0	
580-89231-2	MW-4-W-190916	Total/NA	Water	300.0	
580-89231-3	MW-5-W-190916	Total/NA	Water	300.0	
580-89231-4	MW-7-W-190916	Total/NA	Water	300.0	
580-89231-5	MW-8-W-190916	Total/NA	Water	300.0	
580-89231-6	MW-9-W-190916	Total/NA	Water	300.0	
580-89231-7	MW-6-W-190916	Total/NA	Water	300.0	
580-89231-8	MW-3-W-190916	Total/NA	Water	300.0	
580-89231-9	MW-2-W-190916	Total/NA	Water	300.0	
580-89231-10	MW-10-W-190916	Total/NA	Water	300.0	
580-89231-11	BD-1-W-190916	Total/NA	Water	300.0	
MB 580-313012/15	Method Blank	Total/NA	Water	300.0	
LCS 580-313012/16	Lab Control Sample	Total/NA	Water	300.0	
LCSD 580-313012/17	Lab Control Sample Dup	Total/NA	Water	300.0	
580-89231-9 MS	MW-2-W-190916	Total/NA	Water	300.0	
580-89231-9 MSD	MW-2-W-190916	Total/NA	Water	300.0	

# Lab Chronicle

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

**Client Sample ID: EQB-1-W-190916**

**Lab Sample ID: 580-89231-1**

**Date Collected: 09/16/19 10:00**

**Matrix: Water**

**Date Received: 09/17/19 08:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312709	09/29/19 02:31	APR	TAL SEA
Total/NA	Analysis	AK101		1	311731	09/19/19 15:41	DCV	TAL SEA
Total/NA	Analysis	RSK-175		1	570503	09/24/19 17:14	EI	TAL IRV
Total/NA	Prep	3510C			312548	09/27/19 12:13	PRO	TAL SEA
Total/NA	Analysis	AK102 & 103		1	312623	09/28/19 18:31	W1T	TAL SEA
Total Recoverable	Prep	3005A			312402	09/26/19 11:20	A1B	TAL SEA
Total Recoverable	Analysis	6010D		1	312784	09/27/19 16:35	SPP	TAL SEA
Total/NA	Analysis	300.0		1	311693	09/18/19 17:09	EMM	TAL SEA
Total/NA	Analysis	300.0		1	313012	09/30/19 13:43	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	312687	09/29/19 13:57	EMM	TAL SEA

**Client Sample ID: MW-4-W-190916**

**Lab Sample ID: 580-89231-2**

**Date Collected: 09/16/19 10:30**

**Matrix: Water**

**Date Received: 09/17/19 08:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	570503	09/24/19 17:27	EI	TAL IRV
Total Recoverable	Prep	3005A			312402	09/26/19 11:20	A1B	TAL SEA
Total Recoverable	Analysis	6010D		1	312784	09/27/19 17:04	SPP	TAL SEA
Total/NA	Analysis	300.0		1	311693	09/19/19 10:59	EMM	TAL SEA
Total/NA	Analysis	300.0		1	313012	09/30/19 13:55	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	312687	09/29/19 13:57	EMM	TAL SEA

**Client Sample ID: MW-5-W-190916**

**Lab Sample ID: 580-89231-3**

**Date Collected: 09/16/19 10:30**

**Matrix: Water**

**Date Received: 09/17/19 08:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	570503	09/24/19 17:40	EI	TAL IRV
Total Recoverable	Prep	3005A			312402	09/26/19 11:20	A1B	TAL SEA
Total Recoverable	Analysis	6010D		1	312784	09/27/19 17:07	SPP	TAL SEA
Total/NA	Analysis	300.0		1	311693	09/19/19 11:10	EMM	TAL SEA
Total/NA	Analysis	300.0		1	313012	09/30/19 14:42	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	312687	09/29/19 13:57	EMM	TAL SEA

**Client Sample ID: MW-7-W-190916**

**Lab Sample ID: 580-89231-4**

**Date Collected: 09/16/19 11:30**

**Matrix: Water**

**Date Received: 09/17/19 08:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312709	09/29/19 02:56	APR	TAL SEA
Total/NA	Analysis	8260C	DL	10	312759	09/30/19 20:15	TL1	TAL SEA
Total/NA	Analysis	AK101		1	311731	09/19/19 16:42	DCV	TAL SEA

# Lab Chronicle

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

**Client Sample ID: MW-7-W-190916**

**Lab Sample ID: 580-89231-4**

**Date Collected: 09/16/19 11:30**

**Matrix: Water**

**Date Received: 09/17/19 08:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	570503	09/24/19 17:56	EI	TAL IRV
Total/NA	Prep	3510C			312548	09/27/19 12:13	PRO	TAL SEA
Total/NA	Analysis	AK102 & 103		1	312623	09/28/19 18:51	W1T	TAL SEA
Total Recoverable	Prep	3005A			312402	09/26/19 11:20	A1B	TAL SEA
Total Recoverable	Analysis	6010D		1	312784	09/27/19 17:10	SPP	TAL SEA
Total/NA	Analysis	300.0		1	311693	09/19/19 11:22	EMM	TAL SEA
Total/NA	Analysis	300.0		1	313012	09/30/19 15:05	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	312687	09/29/19 13:57	EMM	TAL SEA

**Client Sample ID: MW-8-W-190916**

**Lab Sample ID: 580-89231-5**

**Date Collected: 09/16/19 11:50**

**Matrix: Water**

**Date Received: 09/17/19 08:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312709	09/29/19 03:21	APR	TAL SEA
Total/NA	Analysis	8260C	DL	10	312759	09/30/19 20:40	TL1	TAL SEA
Total/NA	Analysis	AK101		1	311731	09/19/19 17:12	DCV	TAL SEA
Total/NA	Analysis	RSK-175		1	570503	09/24/19 18:09	EI	TAL IRV
Total/NA	Prep	3510C			312548	09/27/19 12:13	PRO	TAL SEA
Total/NA	Analysis	AK102 & 103		1	312623	09/28/19 19:12	W1T	TAL SEA
Total Recoverable	Prep	3005A			312402	09/26/19 11:20	A1B	TAL SEA
Total Recoverable	Analysis	6010D		1	312784	09/27/19 17:14	SPP	TAL SEA
Total/NA	Analysis	300.0		1	311693	09/19/19 11:34	EMM	TAL SEA
Total/NA	Analysis	300.0		1	313012	09/30/19 15:29	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	312687	09/29/19 13:57	EMM	TAL SEA

**Client Sample ID: MW-9-W-190916**

**Lab Sample ID: 580-89231-6**

**Date Collected: 09/16/19 12:15**

**Matrix: Water**

**Date Received: 09/17/19 08:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312709	09/29/19 03:47	APR	TAL SEA
Total/NA	Analysis	8260C	DL	10	312759	09/30/19 21:05	TL1	TAL SEA
Total/NA	Analysis	AK101		1	311731	09/19/19 17:43	DCV	TAL SEA
Total/NA	Analysis	RSK-175		1	570503	09/24/19 18:22	EI	TAL IRV
Total/NA	Prep	3510C			312548	09/27/19 12:13	PRO	TAL SEA
Total/NA	Analysis	AK102 & 103		1	312623	09/28/19 19:32	W1T	TAL SEA
Total Recoverable	Prep	3005A			312402	09/26/19 11:20	A1B	TAL SEA
Total Recoverable	Analysis	6010D		1	312784	09/27/19 17:17	SPP	TAL SEA
Total/NA	Analysis	300.0		1	311693	09/19/19 11:46	EMM	TAL SEA
Total/NA	Analysis	300.0		1	313012	09/30/19 15:52	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	312687	09/29/19 13:57	EMM	TAL SEA

# Lab Chronicle

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

**Client Sample ID: MW-6-W-190916**

**Lab Sample ID: 580-89231-7**

**Date Collected: 09/16/19 12:45**

**Matrix: Water**

**Date Received: 09/17/19 08:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312709	09/29/19 04:11	APR	TAL SEA
Total/NA	Analysis	8260C	RA	1	312759	09/30/19 16:33	TL1	TAL SEA
Total/NA	Analysis	AK101		1	312058	09/24/19 01:27	DCV	TAL SEA
Total/NA	Analysis	RSK-175		1	570783	09/25/19 16:52	EI	TAL IRV
Total/NA	Prep	3510C			312548	09/27/19 12:13	PRO	TAL SEA
Total/NA	Analysis	AK102 & 103		1	312623	09/28/19 19:52	W1T	TAL SEA
Total Recoverable	Prep	3005A			312402	09/26/19 11:20	A1B	TAL SEA
Total Recoverable	Analysis	6010D		1	312784	09/27/19 17:20	SPP	TAL SEA
Total/NA	Analysis	300.0		1	311693	09/19/19 11:58	EMM	TAL SEA
Total/NA	Analysis	300.0		1	313012	09/30/19 16:04	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	312687	09/29/19 13:57	EMM	TAL SEA

**Client Sample ID: MW-3-W-190916**

**Lab Sample ID: 580-89231-8**

**Date Collected: 09/16/19 13:20**

**Matrix: Water**

**Date Received: 09/17/19 08:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312709	09/29/19 04:36	APR	TAL SEA
Total/NA	Analysis	AK101		1	311731	09/19/19 19:14	DCV	TAL SEA
Total/NA	Analysis	RSK-175		1	570783	09/25/19 17:05	EI	TAL IRV
Total/NA	Prep	3510C			312548	09/27/19 12:13	PRO	TAL SEA
Total/NA	Analysis	AK102 & 103		1	312623	09/28/19 20:32	W1T	TAL SEA
Total Recoverable	Prep	3005A			312402	09/26/19 11:20	A1B	TAL SEA
Total Recoverable	Analysis	6010D		1	312784	09/27/19 17:23	SPP	TAL SEA
Total/NA	Analysis	300.0		1	311693	09/19/19 12:09	EMM	TAL SEA
Total/NA	Analysis	300.0		1	313012	09/30/19 16:27	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	312687	09/29/19 13:57	EMM	TAL SEA

**Client Sample ID: MW-2-W-190916**

**Lab Sample ID: 580-89231-9**

**Date Collected: 09/16/19 13:50**

**Matrix: Water**

**Date Received: 09/17/19 08:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312709	09/29/19 05:01	APR	TAL SEA
Total/NA	Analysis	AK101		1	311731	09/19/19 19:44	DCV	TAL SEA
Total/NA	Analysis	RSK-175		1	570783	09/25/19 17:17	EI	TAL IRV
Total/NA	Prep	3510C			312548	09/27/19 12:13	PRO	TAL SEA
Total/NA	Analysis	AK102 & 103		1	312623	09/28/19 20:52	W1T	TAL SEA
Total Recoverable	Prep	3005A			312402	09/26/19 11:20	A1B	TAL SEA
Total Recoverable	Analysis	6010D		1	312784	09/27/19 17:27	SPP	TAL SEA
Total/NA	Analysis	300.0		1	311693	09/19/19 12:21	EMM	TAL SEA
Total/NA	Analysis	300.0		1	313012	09/30/19 17:14	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	312687	09/29/19 13:57	EMM	TAL SEA

# Lab Chronicle

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

**Client Sample ID: MW-10-W-190916**

**Lab Sample ID: 580-89231-10**

**Date Collected: 09/16/19 14:45**

**Matrix: Water**

**Date Received: 09/17/19 08:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312709	09/29/19 05:26	APR	TAL SEA
Total/NA	Analysis	8260C	DL	10	312759	09/30/19 21:30	TL1	TAL SEA
Total/NA	Analysis	AK101		1	311731	09/19/19 20:15	DCV	TAL SEA
Total/NA	Analysis	RSK-175		1	570783	09/25/19 17:30	EI	TAL IRV
Total/NA	Prep	3510C			312548	09/27/19 12:13	PRO	TAL SEA
Total/NA	Analysis	AK102 & 103		1	312623	09/28/19 21:13	W1T	TAL SEA
Total Recoverable	Prep	3005A			312402	09/26/19 11:20	A1B	TAL SEA
Total Recoverable	Analysis	6010D		1	312784	09/27/19 17:30	SPP	TAL SEA
Total/NA	Analysis	300.0		1	311693	09/19/19 12:33	EMM	TAL SEA
Total/NA	Analysis	300.0		1	313012	09/30/19 17:49	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	312687	09/29/19 13:57	EMM	TAL SEA

**Client Sample ID: BD-1-W-190916**

**Lab Sample ID: 580-89231-11**

**Date Collected: 09/16/19 00:00**

**Matrix: Water**

**Date Received: 09/17/19 08:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	570783	09/25/19 18:14	EI	TAL IRV
Total Recoverable	Prep	3005A			312402	09/26/19 11:20	A1B	TAL SEA
Total Recoverable	Analysis	6010D		1	312784	09/27/19 17:33	SPP	TAL SEA
Total/NA	Analysis	300.0		1	311693	09/19/19 12:44	EMM	TAL SEA
Total/NA	Analysis	300.0		1	313012	09/30/19 18:12	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	312687	09/29/19 13:57	EMM	TAL SEA

**Client Sample ID: Trip Blank\_190916**

**Lab Sample ID: 580-89231-12**

**Date Collected: 09/16/19 00:00**

**Matrix: Water**

**Date Received: 09/17/19 08:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312709	09/29/19 01:16	APR	TAL SEA
Total/NA	Analysis	AK101		1	312781	09/30/19 15:41	DCV	TAL SEA
Total/NA	Analysis	RSK-175		1	570783	09/25/19 18:28	EI	TAL IRV

**Laboratory References:**

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

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 351860 Anchorage, Alaska

Job ID: 580-89231-1

## 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
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-19
Montana (UST)	State	NA	04-13-21
Oregon	NELAP	WA100007	11-05-19
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00039	02-10-20
Washington	State	C553	02-17-20

## Laboratory: Eurofins TestAmerica, Irvine

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	State	CA01531	06-30-20
Arizona	State	AZ0671	10-14-19
California	LA Cty Sanitation Districts	10256	06-30-20
California	Los Angeles County Sanitation Districts	10256	06-30-20
California	State	2706	06-30-20
Guam	State	19-005R	01-23-20
Hawaii	State	CA01531	01-29-20
Hawaii	State Program	N/A	01-29-20
Kansas	NELAP	E-10420	07-31-20
Nevada	State	CA015312020-2	07-31-20
New Mexico	State	CA01531	01-29-20
New Mexico	State Program	N/A	01-29-20
Oregon	NELAP	4028 - 006	01-29-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00214	07-09-21
Washington	State Program	C900	09-03-19 *

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 351860 Anchorage, Alaska

Job ID: 580-89231-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SEA
AK101	Alaska - Gasoline Range Organics (GC)	ADEC	TAL SEA
RSK-175	Dissolved Gases (GC)	RSK	TAL IRV
AK102 & 103	Alaska - Diesel Range Organics & Residual Range Organics (GC)	ADEC	TAL SEA
6010D	Metals (ICP)	SW846	TAL SEA
300.0	Anions, Ion Chromatography	MCAWW	TAL SEA
SM 2320B	Alkalinity	SM	TAL SEA
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SEA
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL SEA
5030B	Purge and Trap	SW846	TAL SEA

#### Protocol References:

ADEC = Alaska Department of Environmental Conservation

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

#### Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

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 351860 Anchorage, Alaska

Job ID: 580-89231-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-89231-1	EQB-1-W-190916	Water	09/16/19 10:00	09/17/19 08:40	
580-89231-2	MW-4-W-190916	Water	09/16/19 10:30	09/17/19 08:40	
580-89231-3	MW-5-W-190916	Water	09/16/19 10:30	09/17/19 08:40	
580-89231-4	MW-7-W-190916	Water	09/16/19 11:30	09/17/19 08:40	
580-89231-5	MW-8-W-190916	Water	09/16/19 11:50	09/17/19 08:40	
580-89231-6	MW-9-W-190916	Water	09/16/19 12:15	09/17/19 08:40	
580-89231-7	MW-6-W-190916	Water	09/16/19 12:45	09/17/19 08:40	
580-89231-8	MW-3-W-190916	Water	09/16/19 13:20	09/17/19 08:40	
580-89231-9	MW-2-W-190916	Water	09/16/19 13:50	09/17/19 08:40	
580-89231-10	MW-10-W-190916	Water	09/16/19 14:45	09/17/19 08:40	
580-89231-11	BD-1-W-190916	Water	09/16/19 00:00	09/17/19 08:40	
580-89231-12	Trip Blank_190916	Water	09/16/19 00:00	09/17/19 08:40	

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89231-1

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.: 580-89231-1

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.: 580-89231-1

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.: 580-89231-1

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.: 580-89231-1

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.: 580-89231-1

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.: 580-89231-1

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.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: SEA102 Analysis Batch Number: 312709Lab Sample ID: CCVL 580-312709/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/29/19 00:26 Lab File ID: 092819\_0031.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	09/30/19 11:12
Methyl methacrylate	9.88	Assign Peak	ruslander a	09/30/19 11:12
trans-1,4-Dichloro-2-butene	13.24	Assign Peak	ruslander a	09/30/19 11:12
1,2,3-Trichloropropane	13.25	Assign Peak	ruslander a	09/30/19 11:12

Lab Sample ID: MB 580-312709/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/29/19 00:51 Lab File ID: 092819\_0032.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Xylene	13.12	Assign Peak	ruslander a	09/30/19 11:14

Lab Sample ID: 580-89231-12 Client Sample ID: Trip Blank\_190916Date Analyzed: 09/29/19 01:16 Lab File ID: 092819\_0033.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylbenzene	12.56	Assign Peak	ruslander a	09/30/19 11:15
o-Xylene	13.12	Assign Peak	ruslander a	09/30/19 11:15

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: SEA102 Analysis Batch Number: 312709Lab Sample ID: 580-89231-1 Client Sample ID: EQB-1-W-190916Date Analyzed: 09/29/19 02:31 Lab File ID: 092819\_0036.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylbenzene	12.56	Assign Peak	ruslander a	09/30/19 11:18
o-Xylene	13.12	Assign Peak	ruslander a	09/30/19 11:18

Lab Sample ID: 580-89231-8 Client Sample ID: MW-3-W-190916Date Analyzed: 09/29/19 04:36 Lab File ID: 092819\_0041.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylbenzene	12.56	Assign Peak	ruslander a	09/30/19 11:19

Lab Sample ID: 580-89231-9 Client Sample ID: MW-2-W-190916Date Analyzed: 09/29/19 05:01 Lab File ID: 092819\_0042.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylbenzene	12.56	Assign Peak	ruslander a	09/30/19 11:20

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC020 Analysis Batch Number: 309293

Lab Sample ID: IC 580-309293/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/26/19 15:03 Lab File ID: 082419a\_003z.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	3.85	Incomplete Integration	mohammedj c	08/26/19 19:04
n-Triacontane-d62	6.29	Incomplete Integration	mohammedj c	08/26/19 19:02

Lab Sample ID: IC 580-309293/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/26/19 15:23 Lab File ID: 082419a\_004z.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	3.82	Incomplete Integration	mohammedj c	08/26/19 19:03
n-Triacontane-d62	6.18	Incomplete Integration	mohammedj c	08/26/19 19:05

Lab Sample ID: IC 580-309293/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/26/19 15:43 Lab File ID: 082419a\_005z.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	6.15	Incomplete Integration	mohammedj c	08/26/19 19:05

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: GC96 Analysis Batch Number: 550409

Lab Sample ID: IC 440-550409/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 06/03/19 14:07 Lab File ID: 440-0120138-004 6-3-2019 GC Column: HaySep N ID: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethene	4.02	Incomplete Integration	iancue	06/03/19 16:50

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: GC96 Analysis Batch Number: 570783

Lab Sample ID: 580-89231-8 Client Sample ID: MW-3-W-190916

Date Analyzed: 09/25/19 17:05 Lab File ID: 440-0124837-019 9-25-2019 GC Column: HaySep N ID: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane (FID)	6.89	Other	iancue	09/25/19 17:22

Lab Sample ID: 580-89231-9 Client Sample ID: MW-2-W-190916

Date Analyzed: 09/25/19 17:17 Lab File ID: 440-0124837-020 9-25-2019 GC Column: HaySep N ID: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane (FID)	6.89	Other	iancue	09/25/19 17:41

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
5X SURR/IS/TFT_00011							1,3-Dichloropropene, Total			
							TAH			
							Tentatively Identified Compound			
							Xylenes, Total			
							SURR/IS/TFT_00107	20 mL	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
.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		
Alk Std. 00028	08/04/21		Absolute Standards, Lot 080519		(Purchased Reagent)		Alkalinity	1000 ug/mL		
AlkalinitySTD_00040	09/30/23	09/17/19	DI, Lot 080119	1000 mL	Sodium Carb. 00003	0.106 g	Alkalinity	100 mg/L		
.Sodium Carb. 00003	09/30/23		Fisher, Lot 174819		(Purchased Reagent)		Alkalinity	94.34 %		
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		
BFBGRO ARCHON 00036	06/08/20	09/03/19	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		

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
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	GROLCSstk_00025	1 mL	Gasoline Range Organics (GRO) -C6-C10	2000 ug/mL
.GROLCSstk_00025	07/18/27	AccuStandard, Lot 217071177			(Purchased Reagent)		Gasoline Range Organics (GRO) -C6-C10	50000 ug/mL
GRO LCS_00056	06/08/20	09/06/19	MeOH, Lot 198123	50 mL	GROLCSstk_00025	2 mL	Gasoline Range Organics (GRO) -C6-C10	2000 ug/mL
.GROLCSstk_00025	07/18/27	AccuStandard, Lot 217071177			(Purchased Reagent)		Gasoline Range Organics (GRO) -C6-C10	50000 ug/mL
IC-Custom-EE_00017	12/31/19	Environmental Express, Lot 1833420			(Purchased Reagent)		Nitrate as N	100 mg/L
IC-Custom-EE_00020	09/30/20	Environmental Express, Lot 1925427			(Purchased Reagent)		Sulfate	1000 mg/L
ICP CAL 1_00005	02/28/21	CPI, Lot 1018875-2			(Purchased Reagent)		As	100 mg/L
							As (Bioaccessible)	100 mg/L
							As (Fine)	100 mg/L
							Ba	100 mg/L
							Be	100 mg/L
							Cd	100 mg/L
							Co	100 mg/L
							Cr	100 mg/L
							Cu	100 mg/L
							Lead	100 mg/L
							Li	100 mg/L
							Mn	100 mg/L
							Mo	100 mg/L
							Ni	100 mg/L
							Pb (Bioaccessible)	100 mg/L
							Pb [Fine]	100 mg/L
							Sb	100 mg/L
							Se	100 mg/L
							Si	1000 mg/L
							SiO2	2140 mg/L
Sn	100 mg/L							
Sr	100 mg/L							
Ti	100 mg/L							
Tl	100 mg/L							
V	100 mg/L							
ICP CAL 2_00005	02/28/21	CPI, Lot 1018877-1-1			(Purchased Reagent)		Al	2000 mg/L
							Ca	2000 mg/L
							Fe	2000 mg/L
							K	2000 mg/L
							Mg	2000 mg/L
Na	2000 mg/L							
ICP ICSA_00100	01/31/20	09/11/19	DI, Lot NA	500 mL	Fe-10000_00004	15 mL	Fe	500 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					ICP ICSA_00096	50 mL	Al	500 mg/L
							Ca	500 mg/L
							Fe	500 mg/L
							Mg	500 mg/L
.Fe-10000_00004	06/20/20		AccuStandard, Lot 214065135		(Purchased Reagent)		Fe	10000 mg/L
.ICP ICSA_00096	07/10/20		CPI, Lot 982821-1		(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL
<b>ICP ICSAB_00084</b>	01/31/20	09/11/19	H2O, Lot NA	500 mL	Fe-10000_00004	15 mL	Fe	500 mg/L
					ICP ICSA_00096	50 mL	Al	500 mg/L
							Ca	500 mg/L
							Fe	500 mg/L
							Mg	500 mg/L
					ICSAB A_00002	5 mL	Mo	1 mg/L
							Sb	1 mg/L
							Si	10 mg/L
							Sn	1 mg/L
							Ti	1 mg/L
					ICSAB B_00002	5 mL	Ag	1 mg/L
							As	1 mg/L
							B	10 mg/L
							Ba	1 mg/L
							Be	0.5 mg/L
							Cd	1 mg/L
							Co	1 mg/L
							Cr	1 mg/L
							Cu	1 mg/L
							K	10 mg/L
							Lead	1 mg/L
							Mn	1 mg/L
							Na	10 mg/L
							Ni	1 mg/L
							P	10 mg/L
							Se	1 mg/L
							Sr	1 mg/L
		Tl	1 mg/L					
		V	1 mg/L					
		Zn	1 mg/L					
.Fe-10000_00004	06/20/20		AccuStandard, Lot 214065135		(Purchased Reagent)		Fe	10000 mg/L
.ICP ICSA_00096	07/10/20		CPI, Lot 982821-1		(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL
.ICSAB A_00002	07/10/20		CPI, Lot 992184-1		(Purchased Reagent)		Mo	100 mg/L
							Sb	100 mg/L
							Si	1000 mg/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.ICSAB B_00002	07/10/20		CPI, Lot 992185-1			(Purchased Reagent)	Sn	100 mg/L
							Ti	100 mg/L
							Ag	100 mg/L
							As	100 mg/L
							B	1000 mg/L
							Ba	100 mg/L
							Be	50 mg/L
							Cd	100 mg/L
							Co	100 mg/L
							Cr	100 mg/L
							Cu	100 mg/L
							K	1000 mg/L
							Lead	100 mg/L
							Mn	100 mg/L
							Na	1000 mg/L
							Ni	100 mg/L
							P	1000 mg/L
Se	100 mg/L							
Sr	100 mg/L							
Tl	100 mg/L							
V	100 mg/L							
Zn	100 mg/L							
ICP ICV 00029	12/11/19	09/11/19	H2O, Lot NA	500 mL	ICP ICV 1_00001	10 mL	Lead	2 mg/L
.ICP ICV 1_00001	03/28/20		CPI, Lot 982733-1		(Purchased Reagent)		Lead	100 mg/L
ICP-CCV 00001	01/22/20	07/30/19	DI, Lot N/A	1000 mL	ICP CAL 1_00003	50 mL	Lead	5 mg/L
.ICP CAL 1_00003	09/22/20		CPI, Lot 982731-1		(Purchased Reagent)		Lead	100 mg/L
ICP-RL 00067	01/22/20	08/06/19	DI, Lot NA	1000 mL	ICP RL SolnA_00013	1 mL	Lead	0.03 mg/L
.ICP RL SolnA_00013	02/28/21		CPI, Lot 10101275-1		(Purchased Reagent)		Lead	30 mg/L
MET Spike 3C_00013	11/26/19	08/26/19	DI, Lot DI	500 mL	Ag-1000_00004	50 mL	Ag	100 mg/L
					B-10000_00003	50 mL	B	1000 mg/L
					ICP CAL 3_00001	250 mL	P	500 mg/L
							Sulfur	500 mg/L
							U	50 mg/L
							W	50 mg/L
					Zn-1000_00005	50 mL	Zn	100 mg/L
.Ag-1000_00004	06/20/20		AccuStandard, Lot 214035115		(Purchased Reagent)		Ag	1000 mg/L
.B-10000_00003	10/31/22		AccuStandard, Lot 212095015		(Purchased Reagent)		B	10000 mg/L
.ICP CAL 3_00001	03/28/20		CPI, Lot 982737-1		(Purchased Reagent)		P	1000 mg/L
							Sulfur	1000 mg/L
							U	100 mg/L
							W	100 mg/L
.Zn-1000_00005	06/05/20		CPI, Lot 166918-115		(Purchased Reagent)		Zn	1000 mg/L
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*_10000_00004	10/01/19	07/07/19	DCM, Lot CT#161	10 mL	TPH Spike_RZ_00102	2 mL	C25-C36	10000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					TPH_SURR_00044	2 mL	DRO (nC10-<nC25)	10000 mg/L
							n-Triacontane-d62	200.8 mg/L
							o-Terphenyl	199.2 mg/L
.TPH Spike_RZ_00102	11/30/23		Restek, Lot A0122303				C25-C36	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
.TPH_SURR_00044	10/01/19	04/01/19	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				n-Triacontane-d62	100 %
..oterphenyl 00011	03/02/23		Aldrich, Lot MKBV3687V				o-Terphenyl	100 %
<b>TPH-IC*_500_00006</b>	10/01/19	07/07/19	DCM, Lot CT#161	100 mL	TPH-IC*_10000_00004	5000 uL	C25-C36	500 mg/L
							DRO (nC10-<nC25)	500 mg/L
							n-Triacontane-d62	10.04 mg/L
							o-Terphenyl	9.96 mg/L
.TPH-IC*_10000_00004	10/01/19	07/07/19	DCM, Lot CT#161	10 mL	TPH Spike_RZ_00102	2 mL	C25-C36	10000 mg/L
							DRO (nC10-<nC25)	10000 mg/L
					TPH_SURR_00044	2 mL	n-Triacontane-d62	200.8 mg/L
							o-Terphenyl	199.2 mg/L
..TPH Spike_RZ_00102	11/30/23		Restek, Lot A0122303				C25-C36	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
..TPH_SURR_00044	10/01/19	04/01/19	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				n-Triacontane-d62	100 %
..oterphenyl 00011	03/02/23		Aldrich, Lot MKBV3687V				o-Terphenyl	100 %
<b>TPH-IC_10000_00075</b>	10/01/19	04/02/19	DCM, Lot CT#153	10 mL	TPH_SURR_00044	4 mL	n-Triacontane-d62	401.6 mg/L
							o-Terphenyl	398.4 mg/L
.TPH_SURR_00044	10/01/19	04/01/19	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				n-Triacontane-d62	100 %
..oterphenyl 00011	03/02/23		Aldrich, Lot MKBV3687V				o-Terphenyl	100 %
<b>TPH-IC_10000_00075</b>	10/01/19	04/02/19	DCM, Lot CT#153	10 mL	#2Diesel Accu_00014	2 mL	DRO (nC10-<nC25)	10000 mg/L
..#2Diesel Accu_00014	10/12/28		Accustandard, Lot 218101242				DRO (nC10-<nC25)	50 mg/mL
<b>TPH-RTC_00051</b>	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				o-Terphenyl	100 %
<b>TPH_Water_Spk_00022</b>	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
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_00040	03/12/20	09/11/19	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 (MEK)	250 ug/mL
							2-Hexanone	250 ug/mL
							4-Methyl-2-pentanone (MIBK)	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
							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-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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	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
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	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
							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
							tert-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
		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			

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VOARMegMix_00032	06/30/21		Restek, Lot A0143774			(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-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-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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							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
							tert-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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
.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	
<b>VOAMasterSEC_00035</b>	09/30/19	08/15/19	MeOH, Lot 198123	25 mL		VOASMegMix2__00022	500 uL	Benzene	50 ug/mL
								Ethylbenzene	50 ug/mL
								m-Xylene & p-Xylene	50 ug/mL
								o-Xylene	50 ug/mL
								Toluene	50 ug/mL
.VOASMegMix2__00022	06/30/21		Restek, Lot A0144202			(Purchased Reagent)	Benzene	2500 ug/mL	
							Ethylbenzene	2500 ug/mL	
							m-Xylene & p-Xylene	2500 ug/mL	
							o-Xylene	2500 ug/mL	
							Toluene	2500 ug/mL	



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Irvine

Job No.: 580-89231-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
GCRSK0.025%_00009	05/31/20	05/31/19	Nitrogen, Lot NA	20 L	GCRSK2.5%MEE_00010	200 mL	Ethane	0.00783412 mg/L
							Ethylene	0.00730785 mg/L
							Methane (FID)	0.00417883 mg/L
.GCRSK2.5%MEE_00010	05/31/20	05/31/19	Nitrogen, Lot NA	16.06 L	GCRSKETHACAL 00005	400 mL	Ethane	0.783412 mg/L
							GCRSKETHECAL 00005	0.730785 mg/L
							GCRSKMETHFID 00004	0.417883 mg/L
..GCRSKETHACAL 00005	06/11/21		Airgas, Lot 160-401228029-1		(Purchased Reagent)		Ethane	31.454 mg/L
..GCRSKETHECAL 00005	06/11/21		Airgas, Lot 160-401228031-1		(Purchased Reagent)		Ethylene	29.341 mg/L
..GCRSKMETHFID 00004	03/15/22		Airgas, Lot 160-401454103-1		(Purchased Reagent)		Methane (FID)	16.778 mg/L
GCRSK2.5%MEE_00010	05/31/20	05/31/19	Nitrogen, Lot NA	16.06 L	GCRSKETHACAL 00005	400 mL	Ethane	0.783412 mg/L
							GCRSKETHECAL 00005	0.730785 mg/L
							GCRSKMETHFID 00004	0.417883 mg/L
.GCRSKETHACAL 00005	06/11/21		Airgas, Lot 160-401228029-1		(Purchased Reagent)		Ethane	31.454 mg/L
.GCRSKETHECAL 00005	06/11/21		Airgas, Lot 160-401228031-1		(Purchased Reagent)		Ethylene	29.341 mg/L
.GCRSKMETHFID 00004	03/15/22		Airgas, Lot 160-401454103-1		(Purchased Reagent)		Methane (FID)	16.778 mg/L
GCRSKCCVFID_00009	04/19/20	04/19/19	Nitrogen, Lot NA	20 L	GCRSKETHACAL 00005	100 mL	Ethane	0.15727 mg/L
							GCRSKETHECAL 00005	0.146705 mg/L
							GCRSKMETHFID 00004	0.08389 mg/L
.GCRSKETHACAL 00005	06/11/21		Airgas, Lot 160-401228029-1		(Purchased Reagent)		Ethane	31.454 mg/L
.GCRSKETHECAL 00005	06/11/21		Airgas, Lot 160-401228031-1		(Purchased Reagent)		Ethylene	29.341 mg/L
.GCRSKMETHFID 00004	03/15/22		Airgas, Lot 160-401454103-1		(Purchased Reagent)		Methane (FID)	16.778 mg/L
GCRSKCCVTCD_00005	12/07/19	12/07/18	Nitrogen, Lot NA	10 L	GCRSKMETHTCO 00003	2000 mL	Methane (TCD)	3.3556 mg/L
	.GCRSKMETHTCO 00003	08/18/20	AIR LIQUIDE, Lot 160-400983609-1		(Purchased Reagent)		Methane (TCD)	16.778 mg/L
GCRSKCCVTCD_00007	08/12/20	08/12/19	Nitrogen, Lot NA	10 L	GCRSKMETHTCO 00004	2000 mL	Methane (TCD)	3.3556 mg/L
	.GCRSKMETHTCO 00004	03/15/22	Airgas, Lot 160-401454103-1		(Purchased Reagent)		Methane (TCD)	16.778 mg/L
GCRSKFIDCAL8_00008	05/31/20	05/31/19	Nitrogen, Lot NA	10 L	GCRSKMETHFID 00004	2000 mL	Methane (FID)	3.3556 mg/L
	.GCRSKMETHFID 00004	03/15/22	Airgas, Lot 160-401454103-1		(Purchased Reagent)		Methane (FID)	16.778 mg/L
GCRSKFIDLCS_00006	08/24/19	10/17/18	Nitrogen, Lot NA	20 L	GCRSKMETHSPK 00007	200 mL	Methane (FID)	0.16778 mg/L
	.GCRSKMETHSPK 00007	08/24/19	AIR LIQUIDE, Lot 403-551458		(Purchased Reagent)		Methane (FID)	16.778 mg/L
GCRSKFIDLCS_00007	08/08/20	08/08/19	Nitrogen, Lot NA	20 L	GCRSKMETHFID 00004	200 mL	Methane (FID)	0.16778 mg/L
	.GCRSKMETHFID 00004	03/15/22	Airgas, Lot 160-401454103-1		(Purchased Reagent)		Methane (FID)	16.778 mg/L
GCRSKMETHTCO 00003	08/18/20		AIR LIQUIDE, Lot 160-400983609-1		(Purchased Reagent)		Methane (TCD)	16.778 mg/L
GCRSKTCO50%_00007	05/06/19	05/03/19	Nitrogen, Lot NA	1 L	GCRSKMETHTCO 00004	500 mL	Methane (TCD)	8.389 mg/L
	.GCRSKMETHTCO 00004	03/15/22	Airgas, Lot 160-401454103-1		(Purchased Reagent)		Methane (TCD)	16.778 mg/L
GCRSKTCOCLCS_00017	08/24/19	02/12/19	Nitrogen, Lot NA	10 L	GCRSKMETHSPK 00008	2500 mL	Methane (TCD)	4.1945 mg/L
	.GCRSKMETHSPK 00008	08/24/19	AIR LIQUIDE, Lot 403-551458		(Purchased Reagent)		Methane (TCD)	16.778 mg/L
GCRSKTCOCLCS_00018	08/08/20	08/08/19	Nitrogen, Lot NA	10 L	GCRSKMETHTCO 00004	2500 mL	Methane (TCD)	4.1945 mg/L
	.GCRSKMETHTCO 00004	03/15/22	Airgas, Lot 160-401454103-1		(Purchased Reagent)		Methane (TCD)	16.778 mg/L

# Method 8260C

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

FORM II  
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

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-190916	580-89231-1	100	105	103	102	101
MW-7-W-190916	580-89231-4	97	104	102	103	101
MW-7-W-190916 DL	580-89231-4 DL	99	105	103	104	101
MW-8-W-190916	580-89231-5	96	104	102	103	105
MW-8-W-190916 DL	580-89231-5 DL	99	104	105	105	103
MW-9-W-190916	580-89231-6	97	104	103	104	105
MW-9-W-190916 DL	580-89231-6 DL	99	105	104	104	104
MW-6-W-190916	580-89231-7	99	105	104	104	103
MW-6-W-190916 RA	580-89231-7 RA	98	105	101	102	100
MW-3-W-190916	580-89231-8	100	104	104	102	102
MW-2-W-190916	580-89231-9	99	103	103	102	101
MW-10-W-190916	580-89231-10	99	103	103	103	104
MW-10-W-190916 DL	580-89231-10 DL	99	106	104	103	101
Trip Blank_190916	580-89231-12	99	105	104	102	101
	MB 580-312709/6	100	107	103	103	102
	MB 580-312759/6	97	106	101	103	98
	LCS 580-312709/3	100	104	104	100	101
	LCS 580-312759/3	100	105	102	100	101
	LCSD 580-312709/4	99	104	103	101	101
	LCSD 580-312759/4	99	103	101	101	102

QC LIMITS

DBFM = Dibromofluoromethane (Surr)	80-120
DCA = 1,2-Dichloroethane-d4 (Surr)	80-126
TFT = Trifluorotoluene (Surr)	80-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	80-120

# Column to be used to flag recovery values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 092819\_0029.D

Lab ID: LCS 580-312709/3 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	10.0	9.04	90	75-121	
Toluene	10.0	9.38	94	80-120	
Ethylbenzene	10.0	9.30	93	80-120	
m-Xylene & p-Xylene	10.0	9.37	94	80-120	
o-Xylene	10.0	9.66	97	80-120	

# 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.: 580-89231-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 093019\_0004.D

Lab ID: LCS 580-312759/3 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethylbenzene	10.0	9.53	95	80-120	
m-Xylene & p-Xylene	10.0	9.53	95	80-120	
o-Xylene	10.0	9.87	99	80-120	

# 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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 092819\_0030.D  
 Lab ID: LCSD 580-312709/4 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Benzene	10.0	8.71	87	4	14	75-121	
Toluene	10.0	8.81	88	6	19	80-120	
Ethylbenzene	10.0	8.77	88	6	14	80-120	
m-Xylene & p-Xylene	10.0	8.91	89	5	14	80-120	
o-Xylene	10.0	9.32	93	4	16	80-120	

# 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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 093019\_0005.D  
 Lab ID: LCSD 580-312759/4 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethylbenzene	10.0	9.36	94	2	14	80-120	
m-Xylene & p-Xylene	10.0	9.55	95	0	14	80-120	
o-Xylene	10.0	9.96	100	1	16	80-120	

# Column to be used to flag recovery and RPD values  
 FORM III 8260C

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 092819\_0032.D Lab Sample ID: MB 580-312709/6  
 Matrix: Water Heated Purge: (Y/N) N  
 Instrument ID: SEA102 Date Analyzed: 09/29/2019 00:51  
 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 580-312709/3	092819_0029 .D	09/28/2019 23:35
	LCSD 580-312709/4	092819_0030 .D	09/29/2019 00:01
Trip Blank_190916	580-89231-12	092819_0033 .D	09/29/2019 01:16
EQB-1-W-190916	580-89231-1	092819_0036 .D	09/29/2019 02:31
MW-7-W-190916	580-89231-4	092819_0037 .D	09/29/2019 02:56
MW-8-W-190916	580-89231-5	092819_0038 .D	09/29/2019 03:21
MW-9-W-190916	580-89231-6	092819_0039 .D	09/29/2019 03:47
MW-6-W-190916	580-89231-7	092819_0040 .D	09/29/2019 04:11
MW-3-W-190916	580-89231-8	092819_0041 .D	09/29/2019 04:36
MW-2-W-190916	580-89231-9	092819_0042 .D	09/29/2019 05:01
MW-10-W-190916	580-89231-10	092819_0043 .D	09/29/2019 05:26



FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 093019\_0007.D Lab Sample ID: MB 580-312759/6  
 Matrix: Water Heated Purge: (Y/N) N  
 Instrument ID: SEA102 Date Analyzed: 09/30/2019 13:09  
 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 580-312759/3	093019_0004 .D	09/30/2019 11:54
	LCSD 580-312759/4	093019_0005 .D	09/30/2019 12:18
MW-6-W-190916 RA	580-89231-7 RA	093019_0014 .D	09/30/2019 16:33
MW-7-W-190916 DL	580-89231-4 DL	093019_0021 .D	09/30/2019 20:15
MW-8-W-190916 DL	580-89231-5 DL	093019_0022 .D	09/30/2019 20:40
MW-9-W-190916 DL	580-89231-6 DL	093019_0023 .D	09/30/2019 21:05
MW-10-W-190916 DL	580-89231-10 DL	093019_0024 .D	09/30/2019 21:30

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 092819\_0027.D BFB Injection Date: 09/28/2019  
 Instrument ID: SEA102 BFB Injection Time: 22:45  
 Analysis Batch No.: 312709

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	47.8	
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	0.5	(0.5) 1
174	50.0 - 120.00 % of mass 95	102.2	
175	5.0 - 9.0 % of mass 174	7.6	(7.4) 1
176	95.0 - 101.0 % of mass 174	99.7	(97.5) 1
177	5.0 - 9.0 % of mass 176	6.4	(6.5) 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 580-312709/2	092819_0028. D	09/28/2019	23:10
	LCS 580-312709/3	092819_0029. D	09/28/2019	23:35
	LCSD 580-312709/4	092819_0030. D	09/29/2019	00:01
	CCVL 580-312709/5	092819_0031. D	09/29/2019	00:26
	MB 580-312709/6	092819_0032. D	09/29/2019	00:51
Trip Blank_190916	580-89231-12	092819_0033. D	09/29/2019	01:16
EQB-1-W-190916	580-89231-1	092819_0036. D	09/29/2019	02:31
MW-7-W-190916	580-89231-4	092819_0037. D	09/29/2019	02:56
MW-8-W-190916	580-89231-5	092819_0038. D	09/29/2019	03:21
MW-9-W-190916	580-89231-6	092819_0039. D	09/29/2019	03:47
MW-6-W-190916	580-89231-7	092819_0040. D	09/29/2019	04:11
MW-3-W-190916	580-89231-8	092819_0041. D	09/29/2019	04:36
MW-2-W-190916	580-89231-9	092819_0042. D	09/29/2019	05:01
MW-10-W-190916	580-89231-10	092819_0043. D	09/29/2019	05:26

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 093019\_0002.D BFB Injection Date: 09/30/2019  
 Instrument ID: SEA102 BFB Injection Time: 11:04  
 Analysis Batch No.: 312759

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.6
75	30.0 - 60.0 % of mass 95	48.5
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	0.7 (0.7) 1
174	50.0 - 120.00 % of mass 95	97.5
175	5.0 - 9.0 % of mass 174	7.1 (7.3) 1
176	95.0 - 101.0 % of mass 174	93.8 (96.2) 1
177	5.0 - 9.0 % of mass 176	6.2 (6.6) 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 580-312759/2	093019_0003. D	09/30/2019	11:29
	LCS 580-312759/3	093019_0004. D	09/30/2019	11:54
	LCSD 580-312759/4	093019_0005. D	09/30/2019	12:18
	MB 580-312759/6	093019_0007. D	09/30/2019	13:09
MW-6-W-190916 RA	580-89231-7 RA	093019_0014. D	09/30/2019	16:33
MW-7-W-190916 DL	580-89231-4 DL	093019_0021. D	09/30/2019	20:15
MW-8-W-190916 DL	580-89231-5 DL	093019_0022. D	09/30/2019	20:40
MW-9-W-190916 DL	580-89231-6 DL	093019_0023. D	09/30/2019	21:05
MW-10-W-190916 DL	580-89231-10 DL	093019_0024. D	09/30/2019	21:30

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 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 <sub>d</sub> 9		FB		CBN <sub>Zd</sub> 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<sub>d</sub>9 = TBA-d9 (IS)

FB = Fluorobenzene (IS)

CBN<sub>Zd</sub>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.: 580-89231-1  
 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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 580-312709/2 Date Analyzed: 09/28/2019 23:10  
 Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm)  
 Lab File ID (Standard): 092819\_0028.D Heated Purge: (Y/N) N  
 Calibration ID: 28240

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	285155	9.41	118572	12.37	145327	14.66	
UPPER LIMIT		9.58		12.53		14.83	
LOWER LIMIT		9.24		12.20		14.49	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 580-312709/3	285739	9.41	118299	12.37	145062	14.67	
LCSD 580-312709/4	287601	9.41	117573	12.37	141328	14.67	
CCVL 580-312709/5	285550	9.41	113788	12.37	138184	14.67	
MB 580-312709/6	269591	9.41	107899	12.37	132593	14.66	
580-89231-12	Trip Blank_190916	263295	9.41	106604	12.37	130401	14.66
580-89231-1	EQB-1-W-190916	256008	9.41	103332	12.37	127411	14.67
580-89231-4	MW-7-W-190916	261227	9.41	104865	12.37	129134	14.66
580-89231-5	MW-8-W-190916	269645	9.41	108590	12.37	125898	14.67
580-89231-6	MW-9-W-190916	285903	9.41	115823	12.37	131847	14.67
580-89231-7	MW-6-W-190916	284061	9.41	112346	12.37	141036	14.66
580-89231-8	MW-3-W-190916	274083	9.41	109832	12.37	139586	14.66
580-89231-9	MW-2-W-190916	273877	9.41	109978	12.37	135664	14.67
580-89231-10	MW-10-W-190916	266368	9.41	105805	12.37	131355	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 VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 580-312759/2 Date Analyzed: 09/30/2019 11:29  
 Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm)  
 Lab File ID (Standard): 093019\_0003.D Heated Purge: (Y/N) N  
 Calibration ID: 28240

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	269156	9.41	109219	12.37	132677	14.67	
UPPER LIMIT		9.58		12.53		14.83	
LOWER LIMIT		9.24		12.20		14.50	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 580-312759/3		276194	9.41	113820	12.37	137458	14.66
LCSD 580-312759/4		270111	9.41	110424	12.37	133561	14.66
MB 580-312759/6		265121	9.41	106885	12.37	125853	14.67
580-89231-7 RA	MW-6-W-190916 RA	246859	9.41	99115	12.37	121919	14.67
580-89231-4 DL	MW-7-W-190916 DL	287063	9.41	113407	12.37	131142	14.66
580-89231-5 DL	MW-8-W-190916 DL	287068	9.41	113134	12.36	134968	14.66
580-89231-6 DL	MW-9-W-190916 DL	276676	9.41	111658	12.37	136814	14.66
580-89231-10 DL	MW-10-W-190916 DL	268616	9.41	107657	12.37	126759	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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EQB-1-W-190916 Lab Sample ID: 580-89231-1  
 Matrix: Water Lab File ID: 092819\_0036.D  
 Analysis Method: 8260C Date Collected: 09/16/2019 10:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/29/2019 02:31  
 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.: 312709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		3.0	0.53
108-88-3	Toluene	0.72	J	2.0	0.39
100-41-4	Ethylbenzene	ND		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
95-47-6	o-Xylene	ND		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
98-08-8	Trifluorotoluene (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-126

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-7-W-190916 Lab Sample ID: 580-89231-4  
 Matrix: Water Lab File ID: 092819\_0037.D  
 Analysis Method: 8260C Date Collected: 09/16/2019 11:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/29/2019 02:56  
 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.: 312709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	9.5		3.0	0.53
108-88-3	Toluene	11		2.0	0.39
100-41-4	Ethylbenzene	79		3.0	0.50
95-47-6	o-Xylene	81		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
98-08-8	Trifluorotoluene (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-126

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-7-W-190916 DL Lab Sample ID: 580-89231-4 DL  
 Matrix: Water Lab File ID: 093019\_0021.D  
 Analysis Method: 8260C Date Collected: 09/16/2019 11:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/30/2019 20:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312759 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
179601-23-1	m-Xylene & p-Xylene	270		30	7.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
98-08-8	Trifluorotoluene (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-126

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-8-W-190916 Lab Sample ID: 580-89231-5  
 Matrix: Water Lab File ID: 092819\_0038.D  
 Analysis Method: 8260C Date Collected: 09/16/2019 11:50  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/29/2019 03:21  
 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.: 312709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	20		3.0	0.53
108-88-3	Toluene	3.7		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
98-08-8	Trifluorotoluene (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-126

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-8-W-190916 DL Lab Sample ID: 580-89231-5 DL  
 Matrix: Water Lab File ID: 093019\_0022.D  
 Analysis Method: 8260C Date Collected: 09/16/2019 11:50  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/30/2019 20:40  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312759 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	200		30	5.0
179601-23-1	m-Xylene & p-Xylene	790		30	7.5
95-47-6	o-Xylene	190		20	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	105		80-120
98-08-8	Trifluorotoluene (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-126

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-9-W-190916 Lab Sample ID: 580-89231-6  
 Matrix: Water Lab File ID: 092819\_0039.D  
 Analysis Method: 8260C Date Collected: 09/16/2019 12:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/29/2019 03:47  
 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.: 312709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	4.4		3.0	0.53
108-88-3	Toluene	20		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
98-08-8	Trifluorotoluene (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-126

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-9-W-190916 DL Lab Sample ID: 580-89231-6 DL  
 Matrix: Water Lab File ID: 093019\_0023.D  
 Analysis Method: 8260C Date Collected: 09/16/2019 12:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/30/2019 21:05  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312759 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	140		30	5.0
179601-23-1	m-Xylene & p-Xylene	830		30	7.5
95-47-6	o-Xylene	260		20	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
98-08-8	Trifluorotoluene (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-126

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-6-W-190916 Lab Sample ID: 580-89231-7  
 Matrix: Water Lab File ID: 092819\_0040.D  
 Analysis Method: 8260C Date Collected: 09/16/2019 12:45  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/29/2019 04:11  
 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.: 312709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	8.0		3.0	0.53
108-88-3	Toluene	0.57	J	2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
98-08-8	Trifluorotoluene (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-126



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-6-W-190916 RA Lab Sample ID: 580-89231-7 RA  
 Matrix: Water Lab File ID: 093019\_0014.D  
 Analysis Method: 8260C Date Collected: 09/16/2019 12:45  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/30/2019 16:33  
 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.: 312759 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	1.6	J	3.0	0.50
179601-23-1	m-Xylene & p-Xylene	11		3.0	0.75
95-47-6	o-Xylene	0.64	J	2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
98-08-8	Trifluorotoluene (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-126

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-3-W-190916 Lab Sample ID: 580-89231-8  
 Matrix: Water Lab File ID: 092819\_0041.D  
 Analysis Method: 8260C Date Collected: 09/16/2019 13:20  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/29/2019 04:36  
 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.: 312709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		3.0	0.53
108-88-3	Toluene	ND		2.0	0.39
100-41-4	Ethylbenzene	ND		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
95-47-6	o-Xylene	ND		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
98-08-8	Trifluorotoluene (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-126

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-2-W-190916 Lab Sample ID: 580-89231-9  
 Matrix: Water Lab File ID: 092819\_0042.D  
 Analysis Method: 8260C Date Collected: 09/16/2019 13:50  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/29/2019 05:01  
 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.: 312709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		3.0	0.53
108-88-3	Toluene	ND		2.0	0.39
100-41-4	Ethylbenzene	ND		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
95-47-6	o-Xylene	ND		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
98-08-8	Trifluorotoluene (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-126

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-10-W-190916 Lab Sample ID: 580-89231-10  
 Matrix: Water Lab File ID: 092819\_0043.D  
 Analysis Method: 8260C Date Collected: 09/16/2019 14:45  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/29/2019 05:26  
 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.: 312709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	17		3.0	0.53
108-88-3	Toluene	0.85	J	2.0	0.39
100-41-4	Ethylbenzene	2.5	J	3.0	0.50
95-47-6	o-Xylene	0.72	J	2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
98-08-8	Trifluorotoluene (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-126

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-10-W-190916 DL Lab Sample ID: 580-89231-10 DL  
 Matrix: Water Lab File ID: 093019\_0024.D  
 Analysis Method: 8260C Date Collected: 09/16/2019 14:45  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/30/2019 21:30  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312759 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
179601-23-1	m-Xylene & p-Xylene	190		30	7.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
98-08-8	Trifluorotoluene (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-126

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: Trip Blank\_190916 Lab Sample ID: 580-89231-12  
 Matrix: Water Lab File ID: 092819\_0033.D  
 Analysis Method: 8260C Date Collected: 09/16/2019 00:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/29/2019 01:16  
 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.: 312709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		3.0	0.53
108-88-3	Toluene	ND		2.0	0.39
100-41-4	Ethylbenzene	ND		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
95-47-6	o-Xylene	ND		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
98-08-8	Trifluorotoluene (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-126

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1 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.: 580-89231-1

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.: 580-89231-1 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.: 580-89231-1 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	0.7849 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	0.6611 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.: 580-89231-1

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.: 580-89231-1 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.: 580-89231-1 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.: 580-89231-1

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

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

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
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

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

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



FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

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	
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 182233	++++ 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 3255860	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Bromobenzene	DCBd 4	Lin2	++++ 94131	++++ 262961	6809 405262	9199 625017	21642 982346	44717 982346	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
N-Propylbenzene	DCBd 4	Lin2	++++ 88020	++++ 259257	4852 392366	7282 623922	18995 980291	40408 980291	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
2-Chlorotoluene	DCBd 4	Lin2	++++ 83813	++++ 236551	5216 362365	7882 570632	18723 885290	39943 885290	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
4-Chlorotoluene	DCBd 4	Lin2	++++ 229719	++++ 647091	16109 980716	21672 1501889	52890 2355725	108930 2355725	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,3,5-Trimethylbenzene	DCBd 4	Lin2	++++ 272550	++++ 784349	16064 1180228	22950 1840658	61446 2904001	126728 2904001	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
t-Butylbenzene	DCBd 4	Lin2	++++ 236486	++++ 684550	13102 1037487	19416 1628495	53194 2568724	107022 2568724	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,2,4-Trimethylbenzene	DCBd 4	Lin2	++++ 280168	++++ 797912	18164 1206253	25143 1872482	64021 2951262	132188 2951262	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
sec-Butylbenzene	DCBd 4	Lin2	++++ 342385	++++ 994735	18664 1488371	28033 2335909	77905 3647396	157978 3647396	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Benzyl chloride	DCBd 4	Lin2	++++ 161509	++++ 435247	15564 712621	38205 1194564	79681 1572093	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	18485 1248351	42753 1970021	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	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	18937 1349911	44275 2138308	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 3019517	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,2-Dichlorobenzene	DCBd 4	Lin2	++++ 183790	++++ 506740	18047 791843	18047 1207180	44125 1876017	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 2837001	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin2	++++ 17361	++++ 46937	1718 81885	1718 123542	4327 179309	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 1448043	++++ 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.: 580-89231-1 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>
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FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1 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  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1 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.: 580-89231-1 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.: 580-89231-1 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  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1 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.: 580-89231-1 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.: 580-89231-1  
 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.: 580-89231-1  
 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.: 580-89231-1  
 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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 580-312709/2 Calibration Date: 09/28/2019 23:10  
 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: 092819\_0028.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		0.5955	0.1000	17.4	20.0	-12.9	20.0
Chloromethane	Ave	0.3189	0.2724	0.1000	17.1	20.0	-14.6	20.0
Vinyl chloride	Ave	0.8448	0.7380	0.1000	17.5	20.0	-12.6	20.0
Butadiene	Ave	0.2965	0.2894		19.5	20.0	-2.4	20.0
Bromomethane	Lin2		0.5611	0.1000	16.4	20.0	-18.1	20.0
Chloroethane	Lin2		0.1603	0.0600	16.6	20.0	-17.2	20.0
Dichlorofluoromethane	Ave	0.5188	0.4174		16.1	20.0	-19.5	20.0
Acrolein	Lin2		0.0291		74.1	120	-38.3*	20.0
Acetonitrile	Lin2		0.0254		203	250	-18.9	20.0
Trichlorofluoromethane	Lin2		1.053	0.1000	18.1	20.0	-9.7	20.0
Isopropyl alcohol	Lin2		0.0121		150	200	-25.0*	20.0
Acetone	Lin2		0.0543	0.0200	74.3	100	-25.7*	20.0
Ethyl ether	Lin1		0.1472		15.7	20.0	-21.5*	20.0
1,1-Dichloroethene	Ave	0.5164	0.5001	0.1000	19.4	20.0	-3.2	20.0
t-Butyl alcohol	Qua1		0.0208		184	200	-8.1	20.0
Acrylonitrile	Lin2		0.0514		158	200	-21.1*	20.0
Iodomethane	Ave	0.4829	0.4598		19.0	20.0	-4.8	20.0
Methylene Chloride	Lin2		0.2566	0.1000	18.2	20.0	-9.1	20.0
Methyl acetate	Ave	0.1455	0.1258	0.1000	34.6	40.0	-13.6	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin2		0.4429	0.1000	22.2	20.0	10.8	20.0
3-Chloro-1-propene	Ave	0.3159	0.2901		18.4	20.0	-8.2	20.0
Carbon disulfide	Lin2		0.6879	0.1000	20.2	20.0	0.8	20.0
trans-1,2-Dichloroethene	Ave	0.2414	0.2343	0.1000	19.4	20.0	-2.9	20.0
Methyl tert-butyl ether	Ave	0.6246	0.5965	0.1000	19.1	20.0	-4.5	20.0
Propionitrile	Lin2		0.0240		222	250	-11.4	20.0
1,1-Dichloroethane	Ave	0.9219	0.8842	0.2000	19.2	20.0	-4.1	20.0
Vinyl acetate	Ave	0.0498	0.0460		46.2	50.0	-7.5	20.0
2-Chloro-1,3-butadiene	Ave	0.5683	0.6085		21.4	20.0	7.1	20.0
Hexane	Lin2		0.2808		18.1	20.0	-9.7	20.0
2-Butanone	Ave	0.0651	0.0557	0.0200	85.4	100	-14.6	20.0
Diisopropyl ether	Ave	0.6724	0.6174		23.0	25.0	-8.2	20.0
Methacrylonitrile	Qua2		0.0277		185	200	-7.4	20.0
cis-1,2-Dichloroethene	Ave	0.6640	0.6204	0.1000	18.7	20.0	-6.6	20.0
Ethyl acetate	Lin2		0.1602		36.5	40.0	-8.8	20.0
Bromochloromethane	Ave	0.1553	0.1462		18.8	20.0	-5.9	20.0
Chloroform	Ave	1.056	1.003	0.2000	19.0	20.0	-5.0	20.0
Ethyl t-butyl ether	Ave	0.6544	0.6358		24.3	25.0	-2.8	20.0
Isobutanol	Ave	0.0142	0.0121		427	500	-14.6	20.0
2,2-Dichloropropane	Ave	0.2760	0.2563		18.6	20.0	-7.1	20.0
Tetrahydrofuran	Lin2		0.0491		36.3	40.0	-9.4	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 580-312709/2 Calibration Date: 09/28/2019 23:10  
 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: 092819\_0028.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		0.2921	0.1000	19.8	20.0	-0.9	20.0
1,1,1-Trichloroethane	Lin2		0.3993	0.1000	21.6	20.0	7.9	20.0
n-Butyl alcohol	Lin2		0.0054		438	500	-12.5	20.0
1,1-Dichloropropene	Lin2		0.3104		20.9	20.0	4.7	20.0
Cyclohexane	Lin2		0.8761	0.1000	21.7	20.0	8.3	20.0
Carbon tetrachloride	Qua2		0.3500	0.1000	24.4	20.0	22.2*	20.0
Benzene	Ave	2.179	2.092	0.5000	19.2	20.0	-4.0	20.0
Tert-amyl methyl ether	Lin2		0.6480		24.4	25.0	-2.3	20.0
Ethyl acrylate	Ave	0.2831	0.2598		18.4	20.0	-8.2	20.0
n-Heptane	Ave	0.2667	0.2505		18.8	20.0	-6.1	20.0
Dibromomethane	Lin2		0.1549		19.0	20.0	-5.0	20.0
1,2-Dichloropropane	Ave	0.5381	0.4940	0.1000	18.4	20.0	-8.2	20.0
2-Nitropropane	Qua2		0.0606		45.7	40.0	14.3	20.0
Trichloroethene	Ave	0.6653	0.6783	0.2000	20.4	20.0	2.0	20.0
Bromodichloromethane	Lin2		0.7492	0.2000	19.2	20.0	-3.9	20.0
Methyl methacrylate	Ave	0.1690	0.1631		38.6	40.0	-3.5	20.0
2-Chloroethyl vinyl ether	Lin2		0.1984		20.0	20.0	0.2	20.0
Methylcyclohexane	Qua2		0.9914	0.1000	22.3	20.0	11.4	20.0
cis-1,3-Dichloropropene	Lin2		0.6966	0.2000	18.6	20.0	-7.2	20.0
4-Methyl-2-pentanone	Qua2		0.4159	0.0600	95.3	100	-4.7	20.0
trans-1,3-Dichloropropene	Lin2		0.8115	0.1000	19.0	20.0	-4.8	20.0
1,1,2-Trichloroethane	Lin2		0.5021	0.1000	19.6	20.0	-1.9	20.0
Ethyl methacrylate	Ave	0.6609	0.6125		18.5	20.0	-7.3	20.0
Toluene	Ave	1.490	1.474	0.4000	19.8	20.0	-1.1	20.0
1,3-Dichloropropane	Lin2		0.8248		19.3	20.0	-3.6	20.0
2-Hexanone	Lin2		0.1547	0.0600	91.1	100	-8.9	20.0
Dibromochloromethane	Ave	0.6795	0.6559	0.1000	19.3	20.0	-3.5	20.0
n-Butyl acetate	Ave	0.7233	0.6780		18.7	20.0	-6.3	20.0
1,2-Dibromoethane	Ave	0.5887	0.5503	0.1000	18.7	20.0	-6.5	20.0
Tetrachloroethene	Qua2		0.2406	0.2000	22.8	20.0	14.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6940	0.6771		19.5	20.0	-2.4	20.0
Chlorobenzene	Lin2		1.771	0.5000	19.6	20.0	-1.9	20.0
Ethylbenzene	Lin2		0.9144	0.1000	19.8	20.0	-0.8	20.0
m-Xylene & p-Xylene	Lin2		2.212	0.1000	20.1	20.0	0.7	20.0
Bromoform	Ave	0.4490	0.4427	0.1000	19.7	20.0	-1.4	20.0
Styrene	Qua2		1.673	0.3000	21.1	20.0	5.3	20.0
1,1,2,2-Tetrachloroethane	Lin2		0.5446	0.3000	17.5	20.0	-12.3	20.0
o-Xylene	Qua2		1.122	0.3000	20.4	20.0	1.9	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1035		14.3	20.0	-28.7*	20.0
1,2,3-Trichloropropane	Ave	0.1927	0.1760		18.3	20.0	-8.7	20.0
Isopropylbenzene	Ave	2.878	2.911	0.1000	20.2	20.0	1.2	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 580-312709/2 Calibration Date: 09/28/2019 23:10  
 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: 092819\_0028.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		0.7166		19.7	20.0	-1.4	20.0
N-Propylbenzene	Lin2		0.6919		19.9	20.0	-0.5	20.0
2-Chlorotoluene	Lin2		0.6423		19.7	20.0	-1.6	20.0
4-Chlorotoluene	Lin2		1.724		19.6	20.0	-2.2	20.0
1,3,5-Trimethylbenzene	Lin2		2.031		19.2	20.0	-4.0	20.0
t-Butylbenzene	Lin2		1.828		19.8	20.0	-1.0	20.0
1,2,4-Trimethylbenzene	Lin2		2.110		19.4	20.0	-2.8	20.0
sec-Butylbenzene	Lin2		2.634		19.7	20.0	-1.4	20.0
Benzyl chloride	Lin2		0.8717		13.6	20.0	-32.0*	20.0
1,3-Dichlorobenzene	Ave	0.7437	0.7266	0.6000	19.5	20.0	-2.3	20.0
4-Isopropyltoluene	Lin2		2.401		18.8	20.0	-5.9	20.0
1,4-Dichlorobenzene	Ave	1.541	1.445	0.5000	18.8	20.0	-6.2	20.0
1,2,3-Trimethylbenzene	Lin2		2.165		19.0	20.0	-5.1	20.0
1,2-Dichlorobenzene	Lin2		1.359	0.4000	18.9	20.0	-5.4	20.0
n-Butylbenzene	Lin2		2.023		19.3	20.0	-3.3	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.1318	0.0500	18.7	20.0	-6.3	20.0
1,3,5-Trichlorobenzene	Lin2		1.071		20.3	20.0	1.4	20.0
1,2,4-Trichlorobenzene	Ave	1.132	1.155	0.2000	20.4	20.0	2.0	20.0
Naphthalene	Lin2		1.903		21.4	20.0	7.1	20.0
Hexachlorobutadiene	Lin2		0.2056		20.3	20.0	1.7	20.0
1,2,3-Trichlorobenzene	Lin2		0.7629		19.5	20.0	-2.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2798	0.2836		19.8	19.5	1.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2790	0.2866		20.0	19.5	2.7	20.0
Trifluorotoluene (Surr)	Ave	0.5335	0.5622		21.1	20.0	5.4	20.0
Toluene-d8 (Surr)	Ave	2.290	2.327		19.8	19.5	1.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9202	0.9330		19.8	19.5	1.4	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVL 580-312709/5 Calibration Date: 09/29/2019 00:26  
 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: 092819\_0031.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		0.3669	0.1000		1.00	-17.5	
Chloromethane	Ave	0.3189	0.3247	0.1000		1.00	1.8	
Vinyl chloride	Ave	0.8448	0.6920	0.1000	0.819	1.00	-18.1	
Butadiene	Ave	0.2965	0.2820			1.00	-4.9	
Bromomethane	Lin2		0.6044	0.1000		1.00	-22.0	
Chloroethane	Lin2		0.1565	0.0600		1.00	-41.2	
Dichlorofluoromethane	Ave	0.5188	0.3834		0.739	1.00	-26.1	
Acrolein	Lin2		0.0293			6.00	-88.9	
Acetonitrile	Lin2		0.0283			12.5	-25.2	
Trichlorofluoromethane	Lin2		0.7240	0.1000	1.24	1.00	24.2	
Isopropyl alcohol	Lin2		0.0166			10.0	-54.3	
Acetone	Lin2		0.1073	0.0200		5.00	-95.4	
Ethyl ether	Lin1		0.1605		0.673	1.00	-32.7	
1,1-Dichloroethene	Ave	0.5164	0.4641	0.1000	0.899	1.00	-10.1	
t-Butyl alcohol	Qua1		0.0235			10.0	-58.5	
Acrylonitrile	Lin2		0.0571			10.0	-10.2	
Iodomethane	Ave	0.4829	0.4506		0.933	1.00	-6.7	
Methylene Chloride	Lin2		0.4119	0.1000		1.00	5.2	
Methyl acetate	Ave	0.1455	0.1480	0.1000		2.00	1.7	
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin2		0.2842	0.1000	1.05	1.00	5.3	
3-Chloro-1-propene	Ave	0.3159	0.2990		0.947	1.00	-5.3	
Carbon disulfide	Lin2		0.6524	0.1000	1.05	1.00	5.0	
trans-1,2-Dichloroethene	Ave	0.2414	0.2647	0.1000	1.10	1.00	9.6	
Methyl tert-butyl ether	Ave	0.6246	0.6404	0.1000	1.03	1.00	2.5	
1,1-Dichloroethane	Ave	0.9219	0.9012	0.2000	0.978	1.00	-2.2	
Propionitrile	Lin2		0.0264			12.5	-39.1	
Vinyl acetate	Ave	0.0498	0.0421		2.12	2.50	-15.4	
2-Chloro-1,3-butadiene	Ave	0.5683	0.5073		0.893	1.00	-10.7	
Hexane	Lin2		0.2067		1.24	1.00	24.4	
2-Butanone	Ave	0.0651	0.0630	0.0200	4.84	5.00	-3.3	
Diisopropyl ether	Ave	0.6724	0.6370		1.18	1.25	-5.3	
Methacrylonitrile	Qua2		0.0272		7.83	10.0	-21.7	
cis-1,2-Dichloroethene	Ave	0.6640	0.8056	0.1000	1.21	1.00	21.3	
Ethyl acetate	Lin2		0.1758		1.68	2.00	-15.9	
Bromochloromethane	Ave	0.1553	0.1579		1.02	1.00	1.6	
Chloroform	Ave	1.056	1.002	0.2000	0.949	1.00	-5.1	
Ethyl t-butyl ether	Ave	0.6544	0.6049		1.16	1.25	-7.6	
Isobutanol	Ave	0.0142	0.0139			25.0	-2.6	
2,2-Dichloropropane	Ave	0.2760	0.2174		0.788	1.00	-21.2	
Tetrahydrofuran	Lin2		0.0590			2.00	-43.5	

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVL 580-312709/5 Calibration Date: 09/29/2019 00:26

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: 092819\_0031.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		0.3225	0.1000	0.849	1.00	-15.1	
1,1,1-Trichloroethane	Lin2		0.3148	0.1000	1.07	1.00	7.3	
n-Butyl alcohol	Lin2		0.0058			25.0	-33.9	
1,1-Dichloropropene	Lin2		0.2486		1.14	1.00	14.5	
Cyclohexane	Lin2		0.5846	0.1000	1.48	1.00	47.5	
Carbon tetrachloride	Qua2		0.2545	0.1000	1.36	1.00	35.9	
Benzene	Ave	2.179	2.184	0.5000	1.00	1.00	0.3	
Tert-amyl methyl ether	Lin2		0.6420			1.25	-14.2	
Ethyl acrylate	Ave	0.2831	0.2545			1.00	-10.1	
n-Heptane	Ave	0.2667	0.2107		0.790	1.00	-21.0	
Dibromomethane	Lin2		0.1551		0.871	1.00	-12.9	
1,2-Dichloropropane	Ave	0.5381	0.5079	0.1000	0.944	1.00	-5.6	
2-Nitropropane	Qua2		0.0612		2.22	2.00	11.2	
Trichloroethene	Ave	0.6653	0.6625	0.2000	0.996	1.00	-0.4	
Bromodichloromethane	Lin2		0.7402	0.2000	0.833	1.00	-16.7	
Methyl methacrylate	Ave	0.1690	0.1625			2.00	-3.8	
2-Chloroethyl vinyl ether	Lin2		0.2132			1.00	-19.9	
Methylcyclohexane	Qua2		0.7102	0.1000	1.00	1.00	0.5	
cis-1,3-Dichloropropene	Lin2		0.6822	0.2000	0.747	1.00	-25.3	
4-Methyl-2-pentanone	Qua2		0.4407	0.0600		5.00	-63.2	
trans-1,3-Dichloropropene	Lin2		0.8015	0.1000	0.764	1.00	-23.6	
1,1,2-Trichloroethane	Lin2		0.5309	0.1000	0.463	1.00	-53.7	
Ethyl methacrylate	Ave	0.6609	0.5840			1.00	-11.6	
Toluene	Ave	1.490	1.792	0.4000	1.20	1.00	20.3	
1,3-Dichloropropane	Lin2		0.8985		0.735	1.00	-26.5	
2-Hexanone	Lin2		0.1569	0.0600	4.47	5.00	-10.6	
Dibromochloromethane	Ave	0.6795	0.6025	0.1000	0.887	1.00	-11.3	
n-Butyl acetate	Ave	0.7233	0.7300			1.00	0.9	
1,2-Dibromoethane	Ave	0.5887	0.5791	0.1000	0.984	1.00	-1.6	
Tetrachloroethene	Qua2		0.1873*	0.2000	1.09	1.00	8.9	
1,1,1,2-Tetrachloroethane	Ave	0.6940	0.6557		0.945	1.00	-5.5	
Chlorobenzene	Lin2		1.842	0.5000	0.797	1.00	-20.3	
Ethylbenzene	Lin2		0.8641	0.1000	0.966	1.00	-3.4	
m-Xylene & p-Xylene	Lin2		2.332	0.1000	1.01	1.00	1.1	
Bromoform	Ave	0.4490	0.4154	0.1000	0.925	1.00	-7.5	
Styrene	Qua2		1.500	0.3000		1.00	-30.4	
1,1,2,2-Tetrachloroethane	Lin2		0.5989	0.3000	0.603	1.00	-39.7	
o-Xylene	Qua2		1.153	0.3000	0.844	1.00	-15.6	
trans-1,4-Dichloro-2-butene	Lin1		0.0916			1.00	-100.6	
1,2,3-Trichloropropane	Ave	0.1927	0.1991		1.03	1.00	3.3	
Isopropylbenzene	Ave	2.878	2.565	0.1000	0.891	1.00	-10.9	



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVL 580-312709/5 Calibration Date: 09/29/2019 00:26  
 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: 092819\_0031.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		0.7369		0.561	1.00	-43.9	
N-Propylbenzene	Lin2		0.5868		0.797	1.00	-20.3	
2-Chlorotoluene	Lin2		0.6251		0.714	1.00	-28.6	
4-Chlorotoluene	Lin2		1.695		0.549	1.00	-45.1	
1,3,5-Trimethylbenzene	Lin2		1.897		0.746	1.00	-25.4	
t-Butylbenzene	Lin2		1.578		0.783	1.00	-21.7	
1,2,4-Trimethylbenzene	Lin2		2.090		0.681	1.00	-31.9	
sec-Butylbenzene	Lin2		2.249		0.782	1.00	-21.8	
Benzyl chloride	Lin2		0.8768		0.649	1.00	-35.1	
1,3-Dichlorobenzene	Ave	0.7437	0.6578	0.6000	0.884	1.00	-11.6	
4-Isopropyltoluene	Lin2		2.092		1.16	1.00	15.8	
1,4-Dichlorobenzene	Ave	1.541	1.487	0.5000		1.00	-3.5	
1,2,3-Trimethylbenzene	Lin2		2.165			1.00	-47.2	
1,2-Dichlorobenzene	Lin2		1.429	0.4000	0.875	1.00	-12.5	
n-Butylbenzene	Lin2		1.749		0.700	1.00	-30.0	
1,2-Dibromo-3-Chloropropane	Lin2		0.1606	0.0500		1.00	7.9	
1,3,5-Trichlorobenzene	Lin2		1.150		0.611	1.00	-38.9	
1,2,4-Trichlorobenzene	Ave	1.132	1.298	0.2000	1.15	1.00	14.6	
Naphthalene	Lin2		2.460		1.14	1.00	14.5	
Hexachlorobutadiene	Lin2		0.2080		1.30	1.00	30.1	
1,2,3-Trichlorobenzene	Lin2		0.9884			1.00	3.2	
Dibromofluoromethane (Surr)	Ave	0.2798	0.2745		19.1	19.5	-1.9	
1,2-Dichloroethane-d4 (Surr)	Ave	0.2790	0.2922		20.4	19.5	4.7	
Trifluorotoluene (Surr)	Ave	0.5335	0.5443		20.4	20.0	2.0	
Toluene-d8 (Surr)	Ave	2.290	2.355		20.1	19.5	2.8	
4-Bromofluorobenzene (Surr)	Ave	0.9202	0.9298		19.7	19.5	1.0	

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 580-312759/2 Calibration Date: 09/30/2019 11:29  
 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: 093019\_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
Dichlorodifluoromethane	Qua2		0.4207	0.1000	12.5	20.0	-37.7*	20.0
Chloromethane	Ave	0.3189	0.2566	0.1000	16.1	20.0	-19.5	20.0
Vinyl chloride	Ave	0.8448	0.6479	0.1000	15.3	20.0	-23.3*	20.0
Butadiene	Ave	0.2965	0.2200		14.8	20.0	-25.8*	20.0
Bromomethane	Lin2		0.5145	0.1000	15.0	20.0	-24.9*	20.0
Chloroethane	Lin2		0.1367	0.0600	14.1	20.0	-29.5*	20.0
Dichlorofluoromethane	Ave	0.5188	0.3681		14.2	20.0	-29.0*	20.0
Acrolein	Lin2		0.0287		73.0	120	-39.1*	20.0
Acetonitrile	Lin2		0.0260		208	250	-17.0	20.0
Trichlorofluoromethane	Lin2		0.8230	0.1000	14.3	20.0	-28.7*	20.0
Isopropyl alcohol	Lin2		0.0130		161	200	-19.3	20.0
Acetone	Lin2		0.0607	0.0200	84.0	100	-16.0	20.0
Ethyl ether	Lin1		0.1472		15.7	20.0	-21.5*	20.0
1,1-Dichloroethene	Ave	0.5164	0.4239	0.1000	16.4	20.0	-17.9	20.0
t-Butyl alcohol	Qua1		0.0214		189	200	-5.4	20.0
Acrylonitrile	Lin2		0.0538		165	200	-17.4	20.0
Iodomethane	Ave	0.4829	0.4150		17.2	20.0	-14.1	20.0
Methylene Chloride	Lin2		0.2458	0.1000	17.4	20.0	-13.1	20.0
Methyl acetate	Ave	0.1455	0.1268	0.1000	34.8	40.0	-12.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin2		0.3545	0.1000	17.8	20.0	-11.0	20.0
3-Chloro-1-propene	Ave	0.3159	0.2790		17.7	20.0	-11.7	20.0
Carbon disulfide	Lin2		0.5917	0.1000	17.4	20.0	-13.2	20.0
trans-1,2-Dichloroethene	Ave	0.2414	0.2076	0.1000	17.2	20.0	-14.0	20.0
Methyl tert-butyl ether	Ave	0.6246	0.5884	0.1000	18.8	20.0	-5.8	20.0
Propionitrile	Lin2		0.0254		235	250	-6.0	20.0
1,1-Dichloroethane	Ave	0.9219	0.8509	0.2000	18.5	20.0	-7.7	20.0
Vinyl acetate	Ave	0.0498	0.0473		47.5	50.0	-5.0	20.0
2-Chloro-1,3-butadiene	Ave	0.5683	0.5342		18.8	20.0	-6.0	20.0
Hexane	Lin2		0.2758		17.7	20.0	-11.3	20.0
2-Butanone	Ave	0.0651	0.0612	0.0200	93.9	100	-6.1	20.0
Diisopropyl ether	Ave	0.6724	0.6148		22.9	25.0	-8.6	20.0
Methacrylonitrile	Qua2		0.0292		195	200	-2.5	20.0
cis-1,2-Dichloroethene	Ave	0.6640	0.6037	0.1000	18.2	20.0	-9.1	20.0
Ethyl acetate	Lin2		0.1728		39.4	40.0	-1.6	20.0
Bromochloromethane	Ave	0.1553	0.1398		18.0	20.0	-10.0	20.0
Chloroform	Ave	1.056	0.9728	0.2000	18.4	20.0	-7.9	20.0
Ethyl t-butyl ether	Ave	0.6544	0.6101		23.3	25.0	-6.8	20.0
Isobutanol	Ave	0.0142	0.0125		441	500	-11.9	20.0
2,2-Dichloropropane	Ave	0.2760	0.2648		19.2	20.0	-4.0	20.0
Tetrahydrofuran	Lin2		0.0519		38.4	40.0	-4.1	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 580-312759/2 Calibration Date: 09/30/2019 11:29

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: 093019\_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
1,2-Dichloroethane	Lin2		0.2875	0.1000	19.5	20.0	-2.5	20.0
1,1,1-Trichloroethane	Lin2		0.3385	0.1000	18.3	20.0	-8.4	20.0
n-Butyl alcohol	Lin2		0.0059		476	500	-4.9	20.0
1,1-Dichloropropene	Lin2		0.2633		17.8	20.0	-10.9	20.0
Cyclohexane	Lin2		0.7033	0.1000	17.5	20.0	-12.3	20.0
Carbon tetrachloride	Qua2		0.2834	0.1000	20.1	20.0	0.4	20.0
Benzene	Ave	2.179	2.014	0.5000	18.5	20.0	-7.6	20.0
Tert-amyl methyl ether	Lin2		0.6198		23.3	25.0	-6.6	20.0
Ethyl acrylate	Ave	0.2831	0.2722		19.2	20.0	-3.8	20.0
n-Heptane	Ave	0.2667	0.2823		21.2	20.0	5.8	20.0
Dibromomethane	Lin2		0.1502		18.4	20.0	-7.9	20.0
1,2-Dichloropropane	Ave	0.5381	0.5010	0.1000	18.6	20.0	-6.9	20.0
2-Nitropropane	Qua2		0.0628		47.3	40.0	18.1	20.0
Trichloroethene	Ave	0.6653	0.6220	0.2000	18.7	20.0	-6.5	20.0
Bromodichloromethane	Lin2		0.7748	0.2000	19.9	20.0	-0.6	20.0
Methyl methacrylate	Ave	0.1690	0.1694		40.1	40.0	0.2	20.0
2-Chloroethyl vinyl ether	Lin2		0.2060		20.8	20.0	4.0	20.0
Methylcyclohexane	Qua2		0.8662	0.1000	19.6	20.0	-2.1	20.0
cis-1,3-Dichloropropene	Lin2		0.7329	0.2000	19.5	20.0	-2.3	20.0
4-Methyl-2-pentanone	Qua2		0.4543	0.0600	104	100	4.3	20.0
trans-1,3-Dichloropropene	Lin2		0.8581	0.1000	20.2	20.0	0.8	20.0
1,1,2-Trichloroethane	Lin2		0.5081	0.1000	19.9	20.0	-0.7	20.0
Ethyl methacrylate	Ave	0.6609	0.6279		19.0	20.0	-5.0	20.0
Toluene	Ave	1.490	1.398	0.4000	18.8	20.0	-6.2	20.0
1,3-Dichloropropane	Lin2		0.8517		19.9	20.0	-0.4	20.0
2-Hexanone	Lin2		0.1679	0.0600	98.9	100	-1.1	20.0
Dibromochloromethane	Ave	0.6795	0.6685	0.1000	19.7	20.0	-1.6	20.0
n-Butyl acetate	Ave	0.7233	0.7286		20.1	20.0	0.7	20.0
1,2-Dibromoethane	Ave	0.5887	0.5595	0.1000	19.0	20.0	-5.0	20.0
Tetrachloroethene	Qua2		0.2060	0.2000	19.7	20.0	-1.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6940	0.6568		18.9	20.0	-5.4	20.0
Chlorobenzene	Lin2		1.714	0.5000	19.0	20.0	-5.0	20.0
Ethylbenzene	Lin2		0.8593	0.1000	18.6	20.0	-6.8	20.0
m-Xylene & p-Xylene	Lin2		2.087	0.1000	19.0	20.0	-5.0	20.0
Bromoform	Ave	0.4490	0.4618	0.1000	20.6	20.0	2.9	20.0
Styrene	Qua2		1.641	0.3000	20.7	20.0	3.3	20.0
1,1,2,2-Tetrachloroethane	Lin2		0.5649	0.3000	18.2	20.0	-9.0	20.0
o-Xylene	Qua2		1.072	0.3000	19.5	20.0	-2.6	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1323		18.4	20.0	-7.9	20.0
1,2,3-Trichloropropane	Ave	0.1927	0.1810		18.8	20.0	-6.1	20.0
Isopropylbenzene	Ave	2.878	2.667	0.1000	18.5	20.0	-7.3	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 580-312759/2 Calibration Date: 09/30/2019 11:29  
 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: 093019\_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
Bromobenzene	Lin2		0.6957		19.1	20.0	-4.3	20.0
N-Propylbenzene	Lin2		0.6484		18.7	20.0	-6.7	20.0
2-Chlorotoluene	Lin2		0.6077		18.6	20.0	-7.0	20.0
4-Chlorotoluene	Lin2		1.675		19.0	20.0	-5.1	20.0
1,3,5-Trimethylbenzene	Lin2		1.939		18.3	20.0	-8.4	20.0
t-Butylbenzene	Lin2		1.678		18.2	20.0	-9.1	20.0
1,2,4-Trimethylbenzene	Lin2		2.023		18.6	20.0	-6.8	20.0
sec-Butylbenzene	Lin2		2.424		18.2	20.0	-9.2	20.0
Benzyl chloride	Lin2		1.259		19.7	20.0	-1.7	20.0
1,3-Dichlorobenzene	Ave	0.7437	0.6612	0.6000	17.8	20.0	-11.1	20.0
4-Isopropyltoluene	Lin2		2.235		17.5	20.0	-12.3	20.0
1,4-Dichlorobenzene	Ave	1.541	1.390	0.5000	18.0	20.0	-9.8	20.0
1,2,3-Trimethylbenzene	Lin2		2.122		18.6	20.0	-7.1	20.0
1,2-Dichlorobenzene	Lin2		1.352	0.4000	18.8	20.0	-5.8	20.0
n-Butylbenzene	Lin2		1.970		18.8	20.0	-5.9	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.1458	0.0500	20.7	20.0	3.6	20.0
1,3,5-Trichlorobenzene	Lin2		1.074		20.3	20.0	1.7	20.0
1,2,4-Trichlorobenzene	Ave	1.132	1.059	0.2000	18.7	20.0	-6.5	20.0
Naphthalene	Lin2		1.829		20.6	20.0	2.9	20.0
Hexachlorobutadiene	Lin2		0.1776		17.6	20.0	-11.9	20.0
1,2,3-Trichlorobenzene	Lin2		0.7699		19.7	20.0	-1.7	20.0
Dibromofluoromethane (Surr)	Ave	0.2798	0.2753		19.2	19.5	-1.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2790	0.2895		20.2	19.5	3.8	20.0
Trifluorotoluene (Surr)	Ave	0.5335	0.5454		20.4	20.0	2.2	20.0
Toluene-d8 (Surr)	Ave	2.290	2.350		20.0	19.5	2.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9202	0.9280		19.7	19.5	0.8	20.0

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-312709/6  
 Matrix: Water Lab File ID: 092819\_0032.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/29/2019 00:51  
 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.: 312709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		3.0	0.53
108-88-3	Toluene	ND		2.0	0.39
100-41-4	Ethylbenzene	ND		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
95-47-6	o-Xylene	ND		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
98-08-8	Trifluorotoluene (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-126

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-312759/6  
 Matrix: Water Lab File ID: 093019\_0007.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/30/2019 13:09  
 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.: 312759 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
95-47-6	o-Xylene	ND		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
98-08-8	Trifluorotoluene (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-126

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-312709/3  
 Matrix: Water Lab File ID: 092819\_0029.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/28/2019 23:35  
 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.: 312709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	9.04		3.0	0.53
108-88-3	Toluene	9.38		2.0	0.39
100-41-4	Ethylbenzene	9.30		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	9.37		3.0	0.75
95-47-6	o-Xylene	9.66		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
98-08-8	Trifluorotoluene (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-126

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-312759/3  
 Matrix: Water Lab File ID: 093019\_0004.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/30/2019 11:54  
 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.: 312759 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	9.53		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	9.53		3.0	0.75
95-47-6	o-Xylene	9.87		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
98-08-8	Trifluorotoluene (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-126



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-312709/4  
 Matrix: Water Lab File ID: 092819\_0030.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/29/2019 00:01  
 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.: 312709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	8.71		3.0	0.53
108-88-3	Toluene	8.81		2.0	0.39
100-41-4	Ethylbenzene	8.77		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	8.91		3.0	0.75
95-47-6	o-Xylene	9.32		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
98-08-8	Trifluorotoluene (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-126

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-312759/4  
 Matrix: Water Lab File ID: 093019\_0005.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/30/2019 12:18  
 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.: 312759 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	9.36		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	9.55		3.0	0.75
95-47-6	o-Xylene	9.96		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
98-08-8	Trifluorotoluene (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-126

## GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

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.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: SEA102 Start Date: 09/28/2019 22:45

Analysis Batch Number: 312709 End Date: 09/29/2019 09:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-312709/1		09/28/2019 22:45	1	092819_0027.D	DB-VRX 0.25 (mm)
CCVIS 580-312709/2		09/28/2019 23:10	1	092819_0028.D	DB-VRX 0.25 (mm)
LCS 580-312709/3		09/28/2019 23:35	1	092819_0029.D	DB-VRX 0.25 (mm)
LCSD 580-312709/4		09/29/2019 00:01	1	092819_0030.D	DB-VRX 0.25 (mm)
CCVL 580-312709/5		09/29/2019 00:26	1	092819_0031.D	DB-VRX 0.25 (mm)
MB 580-312709/6		09/29/2019 00:51	1	092819_0032.D	DB-VRX 0.25 (mm)
580-89231-12		09/29/2019 01:16	1	092819_0033.D	DB-VRX 0.25 (mm)
ZZZZZ		09/29/2019 01:40	1		DB-VRX 0.25 (mm)
ZZZZZ		09/29/2019 02:05	1		DB-VRX 0.25 (mm)
580-89231-1		09/29/2019 02:31	1	092819_0036.D	DB-VRX 0.25 (mm)
580-89231-4		09/29/2019 02:56	1	092819_0037.D	DB-VRX 0.25 (mm)
580-89231-5		09/29/2019 03:21	1	092819_0038.D	DB-VRX 0.25 (mm)
580-89231-6		09/29/2019 03:47	1	092819_0039.D	DB-VRX 0.25 (mm)
580-89231-7		09/29/2019 04:11	1	092819_0040.D	DB-VRX 0.25 (mm)
580-89231-8		09/29/2019 04:36	1	092819_0041.D	DB-VRX 0.25 (mm)
580-89231-9		09/29/2019 05:01	1	092819_0042.D	DB-VRX 0.25 (mm)
580-89231-10		09/29/2019 05:26	1	092819_0043.D	DB-VRX 0.25 (mm)
ZZZZZ		09/29/2019 05:51	1		DB-VRX 0.25 (mm)
ZZZZZ		09/29/2019 06:41	1		DB-VRX 0.25 (mm)
ZZZZZ		09/29/2019 07:06	1		DB-VRX 0.25 (mm)
ZZZZZ		09/29/2019 07:31	1		DB-VRX 0.25 (mm)
ZZZZZ		09/29/2019 07:56	100		DB-VRX 0.25 (mm)
ZZZZZ		09/29/2019 08:21	100		DB-VRX 0.25 (mm)
ZZZZZ		09/29/2019 08:46	100		DB-VRX 0.25 (mm)
ZZZZZ		09/29/2019 09:11	100		DB-VRX 0.25 (mm)

## GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: SEA102 Start Date: 09/30/2019 11:04Analysis Batch Number: 312759 End Date: 09/30/2019 22:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-312759/1		09/30/2019 11:04	1	093019_0002.D	DB-VRX 0.25 (mm)
CCVIS 580-312759/2		09/30/2019 11:29	1	093019_0003.D	DB-VRX 0.25 (mm)
LCS 580-312759/3		09/30/2019 11:54	1	093019_0004.D	DB-VRX 0.25 (mm)
LCSD 580-312759/4		09/30/2019 12:18	1	093019_0005.D	DB-VRX 0.25 (mm)
CCVL 580-312759/5		09/30/2019 12:44	1		DB-VRX 0.25 (mm)
MB 580-312759/6		09/30/2019 13:09	1	093019_0007.D	DB-VRX 0.25 (mm)
ZZZZZ		09/30/2019 14:03	1		DB-VRX 0.25 (mm)
ZZZZZ		09/30/2019 14:28	1		DB-VRX 0.25 (mm)
580-89231-7 RA		09/30/2019 16:33	1	093019_0014.D	DB-VRX 0.25 (mm)
ZZZZZ		09/30/2019 16:58	1		DB-VRX 0.25 (mm)
ZZZZZ		09/30/2019 17:22	1		DB-VRX 0.25 (mm)
ZZZZZ		09/30/2019 17:47	1		DB-VRX 0.25 (mm)
ZZZZZ		09/30/2019 19:00	10		DB-VRX 0.25 (mm)
ZZZZZ		09/30/2019 19:25	10		DB-VRX 0.25 (mm)
ZZZZZ		09/30/2019 19:51	10		DB-VRX 0.25 (mm)
580-89231-4 DL		09/30/2019 20:15	10	093019_0021.D	DB-VRX 0.25 (mm)
580-89231-5 DL		09/30/2019 20:40	10	093019_0022.D	DB-VRX 0.25 (mm)
580-89231-6 DL		09/30/2019 21:05	10	093019_0023.D	DB-VRX 0.25 (mm)
580-89231-10 DL		09/30/2019 21:30	10	093019_0024.D	DB-VRX 0.25 (mm)
ZZZZZ		09/30/2019 21:55	1000		DB-VRX 0.25 (mm)
ZZZZZ		09/30/2019 22:20	500		DB-VRX 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

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.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 312709 Batch Start Date: 09/28/19 22:45 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 580-312709/1		8260C		5 mL	5 mL		2 uL		
CCVIS 580-312709/2		8260C		5 mL	5 mL		2 uL	20 uL	
LCS 580-312709/3		8260C		5 mL	5 mL		2 uL	10 uL	
LCSD 580-312709/4		8260C		5 mL	5 mL		2 uL	10 uL	
CCVL 580-312709/5		8260C		5 mL	5 mL		2 uL	1 uL	
MB 580-312709/6		8260C		5 mL	5 mL		2 uL		
580-89231-C-12	Trip Blank	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-89231-F-1	EQB-1-W-190916	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-89231-F-4	MW-7-W-190916	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-89231-F-5	MW-8-W-190916	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-89231-F-6	MW-9-W-190916	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-89231-G-7	MW-6-W-190916	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-89231-F-8	MW-3-W-190916	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-89231-F-9	MW-2-W-190916	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-89231-F-10	MW-10-W-190916	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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 312759 Batch Start Date: 09/30/19 11:04 Batch Analyst: Limwiroj, Thanyawan 1

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 580-312759/1		8260C		5 mL	5 mL		2 uL		
CCVIS 580-312759/2		8260C		5 mL	5 mL		2 uL	20 uL	
LCS 580-312759/3		8260C		5 mL	5 mL		2 uL	10 uL	
LCS 580-312759/4		8260C		5 mL	5 mL		2 uL	10 uL	
MB 580-312759/6		8260C		5 mL	5 mL		2 uL		
580-89231-H-7	MW-6-W-190916	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-89231-G-4	MW-7-W-190916	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-89231-G-5	MW-8-W-190916	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-89231-G-6	MW-9-W-190916	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-89231-G-10	MW-10-W-190916	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 AK101

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Alaska - Gasoline Range Organics  
(GC) by Method AK101

FORM II  
GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

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-190916	580-89231-1	69	94
MW-7-W-190916	580-89231-4	99	106
MW-8-W-190916	580-89231-5	108	137
MW-9-W-190916	580-89231-6	95	152 X
MW-6-W-190916	580-89231-7	102	99
MW-3-W-190916	580-89231-8	113	96
MW-2-W-190916	580-89231-9	109	95
MW-10-W-190916	580-89231-10	111	110
Trip Blank_190916	580-89231-12	96	87
	MB 580-311731/9	122	96
	MB 580-312058/9	116	97
	MB 580-312781/7	95	87
	LCS 580-311731/10	103	100
	LCS 580-312058/10	103	96
	LCS 580-312781/8	97	95
	LCSD 580-311731/11	102	102
	LCSD 580-312058/11	101	98
	LCSD 580-312781/18	97	91

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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 09191908.D  
 Lab ID: LCS 580-311731/10 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Gasoline Range Organics (GRO) -C6-C10	1.00	0.970	97	77-123	

# Column to be used to flag recovery and RPD values  
 FORM III AK101

FORM III  
 GASOLINE RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 09231908.D

Lab ID: LCS 580-312058/10 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Gasoline Range Organics (GRO) -C6-C10	1.00	0.926	93	77-123	

# Column to be used to flag recovery and RPD values

FORM III  
GASOLINE RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 09301908.D

Lab ID: LCS 580-312781/8 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Gasoline Range Organics (GRO) -C6-C10	1.00	0.916	92	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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 09191909.D  
 Lab ID: LCSD 580-311731/11 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	0.991	99	2	20	77-123	

# Column to be used to flag recovery and RPD values  
FORM III AK101

FORM III  
GASOLINE RANGE ORGANICS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 09231909.D  
 Lab ID: LCSD 580-312058/11 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	0.944	94	2	20	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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 09301919.D  
 Lab ID: LCSD 580-312781/18 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	0.892	89	3	20	77-123	

# Column to be used to flag recovery and RPD values  
FORM III AK101



FORM IV  
GASOLINE RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: MB 580-311731/9  
 Matrix: Water Date Extracted: 09/19/2019 13:19  
 Lab File ID: (1) 09191907.D Lab File ID: (2) \_\_\_\_\_  
 Date Analyzed: (1) 09/19/2019 13:19 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 580-311731/10	09/19/2019 13:49	
	LCSD 580-311731/11	09/19/2019 14:19	
EQB-1-W-190916	580-89231-1	09/19/2019 15:41	
MW-7-W-190916	580-89231-4	09/19/2019 16:42	
MW-8-W-190916	580-89231-5	09/19/2019 17:12	
MW-9-W-190916	580-89231-6	09/19/2019 17:43	
MW-3-W-190916	580-89231-8	09/19/2019 19:14	
MW-2-W-190916	580-89231-9	09/19/2019 19:44	
MW-10-W-190916	580-89231-10	09/19/2019 20:15	

FORM IV  
GASOLINE RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: MB 580-312058/9  
 Matrix: Water Date Extracted: 09/23/2019 14:48  
 Lab File ID: (1) 09231907.D Lab File ID: (2) \_\_\_\_\_  
 Date Analyzed: (1) 09/23/2019 14:48 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 580-312058/10	09/23/2019 15:19	
	LCSD 580-312058/11	09/23/2019 15:49	
MW-6-W-190916	580-89231-7	09/24/2019 01:27	

FORM IV  
GASOLINE RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: MB 580-312781/7  
 Matrix: Water Date Extracted: 09/30/2019 14:04  
 Lab File ID: (1) 09301907.D Lab File ID: (2) \_\_\_\_\_  
 Date Analyzed: (1) 09/30/2019 14:04 Date Analyzed: (2) \_\_\_\_\_  
 Instrument ID: (1) SEA006 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 580-312781/8	09/30/2019 14:28	
Trip Blank_190916	580-89231-12	09/30/2019 15:41	
	LCSD 580-312781/18	10/01/2019 10:06	

FORM VIII  
GASOLINE RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: STD1000 580-308501/8 Date Analyzed: 08/15/2019 18:30  
 Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm)  
 Lab File ID (Standard): 08151916.D Heated Purge: (Y/N) N  
 Calibration ID: 28102

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFT	BFB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				8.09	11.16	
UPPER LIMIT				8.14	11.21	
LOWER LIMIT				8.04	11.11	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD1000 580-308501/8 ICRT		08/15/2019 18:30	08151916.D	8.09	11.16	
ICV 580-308501/13		08/15/2019 20:30	08151921.D	8.09	11.16	

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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVRT 580-312781/6 Date Analyzed: 09/30/2019 13:40  
 Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm)  
 Lab File ID (Standard): 09301906.D Heated Purge: (Y/N) N  
 Calibration ID: 28102

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFT	BFB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				8.06	11.14	
UPPER LIMIT				8.11	11.19	
LOWER LIMIT				8.01	11.09	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-312781/6		09/30/2019 13:40	09301906.D	8.06	11.14	
MB 580-312781/7		09/30/2019 14:04	09301907.D	8.06	11.13	
LCS 580-312781/8		09/30/2019 14:28	09301908.D	8.07	11.13	
580-89231-12	Trip Blank_190916	09/30/2019 15:41	09301911.D	8.06	11.13	
CCV 580-312781/17		10/01/2019 09:42	09301918.D	8.06	11.13	
LCSD 580-312781/18		10/01/2019 10:06	09301919.D	8.06	11.13	
CCV 580-312781/24		10/01/2019 10:31	09301920.D	8.06	11.13	

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.: 580-89231-1  
 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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVRT 580-311731/8 Date Analyzed: 09/19/2019 12:48  
 Instrument ID: SEA047 GC Column: RTX-VRX ID: 0.45 (mm)  
 Lab File ID (Standard): 09191906.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 580-311731/8		09/19/2019 12:48	09191906.D	6.12	9.70	
MB 580-311731/9		09/19/2019 13:19	09191907.D	6.11	9.70	
LCS 580-311731/10		09/19/2019 13:49	09191908.D	6.12	9.70	
LCSD 580-311731/11		09/19/2019 14:19	09191909.D	6.12	9.70	
580-89231-1	EQB-1-W-190916	09/19/2019 15:41	09191911.D	6.11	9.70	
580-89231-4	MW-7-W-190916	09/19/2019 16:42	09191913.D	6.12	9.70	
580-89231-5	MW-8-W-190916	09/19/2019 17:12	09191914.D	6.11	9.70	
580-89231-6	MW-9-W-190916	09/19/2019 17:43	09191915.D	6.12	9.70	
CCV 580-311731/19		09/19/2019 18:43	09191917.D	6.12	9.70	
580-89231-8	MW-3-W-190916	09/19/2019 19:14	09191918.D	6.12	9.70	
580-89231-9	MW-2-W-190916	09/19/2019 19:44	09191919.D	6.12	9.70	
580-89231-10	MW-10-W-190916	09/19/2019 20:15	09191920.D	6.12	9.70	
CCV 580-311731/24		09/19/2019 21:16	09191922.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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVRT 580-312058/8 Date Analyzed: 09/23/2019 14:18  
 Instrument ID: SEA047 GC Column: RTX-VRX ID: 0.45 (mm)  
 Lab File ID (Standard): 09231906.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				6.11	9.70	
UPPER LIMIT				6.16	9.75	
LOWER LIMIT				6.06	9.65	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-312058/8		09/23/2019 14:18	09231906.D	6.11	9.70	
MB 580-312058/9		09/23/2019 14:48	09231907.D	6.11	9.70	
LCS 580-312058/10		09/23/2019 15:19	09231908.D	6.12	9.70	
LCSD 580-312058/11		09/23/2019 15:49	09231909.D	6.11	9.70	
CCV 580-312058/19		09/23/2019 19:52	09231917.D	6.12	9.70	
CCV 580-312058/29		09/24/2019 00:57	09231927.D	6.11	9.70	
580-89231-7	MW-6-W-190916	09/24/2019 01:27	09231928.D	6.11	9.70	
CCV 580-312058/36		09/24/2019 04:29	09231934.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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EQB-1-W-190916 Lab Sample ID: 580-89231-1  
 Matrix: Water Lab File ID: 09191911.D  
 Analysis Method: AK101 Date Collected: 09/16/2019 10:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/19/2019 15:41  
 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.: 311731 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)	69		50-150
460-00-4	4-Bromofluorobenzene (Surr)	94		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-7-W-190916 Lab Sample ID: 580-89231-4  
 Matrix: Water Lab File ID: 09191913.D  
 Analysis Method: AK101 Date Collected: 09/16/2019 11:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/19/2019 16:42  
 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.: 311731 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	1.3		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	99		50-150
460-00-4	4-Bromofluorobenzene (Surr)	106		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-8-W-190916 Lab Sample ID: 580-89231-5  
 Matrix: Water Lab File ID: 09191914.D  
 Analysis Method: AK101 Date Collected: 09/16/2019 11:50  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/19/2019 17:12  
 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.: 311731 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	4.7		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	108		50-150
460-00-4	4-Bromofluorobenzene (Surr)	137		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-9-W-190916 Lab Sample ID: 580-89231-6  
 Matrix: Water Lab File ID: 09191915.D  
 Analysis Method: AK101 Date Collected: 09/16/2019 12:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/19/2019 17:43  
 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.: 311731 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	5.3		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	95		50-150
460-00-4	4-Bromofluorobenzene (Surr)	152	X	50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-6-W-190916 Lab Sample ID: 580-89231-7  
 Matrix: Water Lab File ID: 09231928.D  
 Analysis Method: AK101 Date Collected: 09/16/2019 12:45  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/24/2019 01:27  
 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.: 312058 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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-3-W-190916 Lab Sample ID: 580-89231-8  
 Matrix: Water Lab File ID: 09191918.D  
 Analysis Method: AK101 Date Collected: 09/16/2019 13:20  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/19/2019 19:14  
 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.: 311731 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)	96		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-2-W-190916 Lab Sample ID: 580-89231-9  
 Matrix: Water Lab File ID: 09191919.D  
 Analysis Method: AK101 Date Collected: 09/16/2019 13:50  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/19/2019 19:44  
 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.: 311731 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)	109		50-150
460-00-4	4-Bromofluorobenzene (Surr)	95		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-10-W-190916 Lab Sample ID: 580-89231-10  
 Matrix: Water Lab File ID: 09191920.D  
 Analysis Method: AK101 Date Collected: 09/16/2019 14:45  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/19/2019 20:15  
 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.: 311731 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.82		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	111		50-150
460-00-4	4-Bromofluorobenzene (Surr)	110		50-150



FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: Trip Blank\_190916 Lab Sample ID: 580-89231-12  
 Matrix: Water Lab File ID: 09301911.D  
 Analysis Method: AK101 Date Collected: 09/16/2019 00:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/30/2019 15:41  
 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.: 312781 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)	96		50-150
460-00-4	4-Bromofluorobenzene (Surr)	87		50-150

FORM VI  
 GASOLINE RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1 Analy Batch No.: 308501

SDG No.: \_\_\_\_\_

Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2019 16:53 Calibration End Date: 08/15/2019 20:06 Calibration ID: 28102

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-308501/12	08151920.D
Level 2	STD100 580-308501/11	08151919.D
Level 3	STD250 580-308501/10	08151918.D
Level 4	STD500 580-308501/9	08151917.D
Level 5	STD1000 580-308501/8	08151916.D
Level 6	STD5000 580-308501/7	08151915.D
Level 7	STD10000 580-308501/6	08151914.D
Level 8	STD15000 580-308501/5	08151913.D
Level 9	STD25000 580-308501/4	08151912.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	8.761	8.761	8.761	8.761	8.761	8.761	8.761	8.761	8.761		5.879 - 11.643	8.761
Trifluorotoluene (Surr)	8.094	8.096	8.094	8.094	8.091	8.095	8.086	+++++	+++++		7.991 - 8.191	8.093
4-Bromofluorobenzene (Surr)	11.160	11.161	11.161	11.160	11.159	11.160	11.158	+++++	+++++		11.059 - 11.259	11.160

FORM VI  
 GASOLINE RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1 Analy Batch No.: 308501

SDG No.: \_\_\_\_\_

Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2019 16:53 Calibration End Date: 08/15/2019 20:06 Calibration ID: 28102

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-308501/12	08151920.D
Level 2	STD100 580-308501/11	08151919.D
Level 3	STD250 580-308501/10	08151918.D
Level 4	STD500 580-308501/9	08151917.D
Level 5	STD1000 580-308501/8	08151916.D
Level 6	STD5000 580-308501/7	08151915.D
Level 7	STD10000 580-308501/6	08151914.D
Level 8	STD15000 580-308501/5	08151913.D
Level 9	STD25000 580-308501/4	08151912.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	176145 148639 160997	163930 153311	161369 154860	149069 157139	Ave		158384.492		25.00	5.4		25.0				
Trifluorotoluene (Surr)	180420 172409 ++++	173802 178010	165263 213068	170465 ++++	Ave		179062.319		25.00	8.8		25.0				
4-Bromofluorobenzene (Surr)	151008 154901 ++++	151556 172725	148009 189748	151661 ++++	Ave		159944.220		25.00	9.7		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.: 580-89231-1 Analy Batch No.: 308501

SDG No.: \_\_\_\_\_

Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2019 16:53 Calibration End Date: 08/15/2019 20:06 Calibration ID: 28102

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-308501/12	08151920.D
Level 2	STD100 580-308501/11	08151919.D
Level 3	STD250 580-308501/10	08151918.D
Level 4	STD500 580-308501/9	08151917.D
Level 5	STD1000 580-308501/8	08151916.D
Level 6	STD5000 580-308501/7	08151915.D
Level 7	STD10000 580-308501/6	08151914.D
Level 8	STD15000 580-308501/5	08151913.D
Level 9	STD25000 580-308501/4	08151912.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	Ave	8807262 766557005	16393046 1548604554	40342362 2357081406	74534329 4024932908	148638687	50.0 5000	100 10000	250 15000	500 25000	1000
Trifluorotoluene (Surr)	Ave	3606948 26690771	6949296 42596473	9911829 +++++	13631777 +++++	17233986	20.0 150	40.0 200	60.0 +++++	80.0 +++++	100.0
4-Bromofluorobenzene (Surr)	Ave	30201684 34545020	30311282 37949682	29601801 +++++	30332214 +++++	30980225	200 200	200 200	200 +++++	200 +++++	200

Curve Type Legend:

Ave = Average

FORM VI  
 GASOLINE RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1 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.: 580-89231-1 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.: 580-89231-1 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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-308501/13 Calibration Date: 08/15/2019 20:30  
 Instrument ID: SEA006 Calib Start Date: 08/15/2019 16:53  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/15/2019 20:06  
 Lab File ID: 08151921.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	Ave	158384	151145		954	1000	-4.6	25.0
Trifluorotoluene (Surr)	Ave	179062	177127		59.3	60.0	-1.1	25.0
4-Bromofluorobenzene (Surr)	Ave	159944	155930		195	200	-2.5	25.0



FORM VII  
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-308501/13 Calibration Date: 08/15/2019 20:30  
 Instrument ID: SEA006 Calib Start Date: 08/15/2019 16:53  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/15/2019 20:06  
 Lab File ID: 08151921.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	8.76	5.88	11.64
Trifluorotoluene (Surr)	8.09	7.99	8.19
4-Bromofluorobenzene (Surr)	11.16	11.06	11.26

FORM VII  
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 580-312781/6 Calibration Date: 09/30/2019 13:40  
 Instrument ID: SEA006 Calib Start Date: 08/15/2019 16:53  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/15/2019 20:06  
 Lab File ID: 09301906.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	Ave	158384	141109		891	1000	-10.9	25.0
Trifluorotoluene (Surr)	Ave	179062	165870		55.6	60.0	-7.4	25.0
4-Bromofluorobenzene (Surr)	Ave	159944	143687		180	200	-10.2	25.0

FORM VII  
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 580-312781/6 Calibration Date: 09/30/2019 13:40  
 Instrument ID: SEA006 Calib Start Date: 08/15/2019 16:53  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/15/2019 20:06  
 Lab File ID: 09301906.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	8.73	5.84	11.61
Trifluorotoluene (Surr)	8.06	7.96	8.16
4-Bromofluorobenzene (Surr)	11.14	11.04	11.24

FORM VII  
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312781/17 Calibration Date: 10/01/2019 09:42  
 Instrument ID: SEA006 Calib Start Date: 08/15/2019 16:53  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/15/2019 20:06  
 Lab File ID: 09301918.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	Ave	158384	147007		928	1000	-7.2	25.0
Trifluorotoluene (Surr)	Ave	179062	176615		59.2	60.0	-1.4	25.0
4-Bromofluorobenzene (Surr)	Ave	159944	153797		192	200	-3.8	25.0

FORM VII  
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312781/17 Calibration Date: 10/01/2019 09:42  
 Instrument ID: SEA006 Calib Start Date: 08/15/2019 16:53  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/15/2019 20:06  
 Lab File ID: 09301918.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	8.73	5.84	11.61
Trifluorotoluene (Surr)	8.06	7.97	8.17
4-Bromofluorobenzene (Surr)	11.13	11.04	11.24

FORM VII  
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312781/24 Calibration Date: 10/01/2019 10:31  
 Instrument ID: SEA006 Calib Start Date: 08/15/2019 16:53  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/15/2019 20:06  
 Lab File ID: 09301920.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	Ave	158384	133525		843	1000	-15.7	25.0
Trifluorotoluene (Surr)	Ave	179062	161490		54.1	60.0	-9.8	25.0
4-Bromofluorobenzene (Surr)	Ave	159944	141218		177	200	-11.7	25.0

FORM VII  
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312781/24 Calibration Date: 10/01/2019 10:31  
 Instrument ID: SEA006 Calib Start Date: 08/15/2019 16:53  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/15/2019 20:06  
 Lab File ID: 09301920.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	8.73	5.84	11.61
Trifluorotoluene (Surr)	8.06	7.97	8.17
4-Bromofluorobenzene (Surr)	11.13	11.04	11.24

FORM VII  
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 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.: 580-89231-1  
 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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 580-311731/8 Calibration Date: 09/19/2019 12:48  
 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: 09191906.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		7336		996	1000	-0.4	25.0
Trifluorotoluene (Surr)	Ave	8333	8671		62.4	60.0	4.1	25.0
4-Bromofluorobenzene (Surr)	Ave	6035	5891		97.6	100	-2.4	25.0

FORM VII  
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 580-311731/8 Calibration Date: 09/19/2019 12:48  
 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: 09191906.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.87	3.40	10.35
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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-311731/19 Calibration Date: 09/19/2019 18:43  
 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: 09191917.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		7148		969	1000	-3.1	25.0
Trifluorotoluene (Surr)	Ave	8333	8533		61.4	60.0	2.4	25.0
4-Bromofluorobenzene (Surr)	Ave	6035	5876		97.4	100	-2.6	25.0

FORM VII  
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-311731/19 Calibration Date: 09/19/2019 18:43  
 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: 09191917.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.87	3.40	10.35
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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-311731/24 Calibration Date: 09/19/2019 21:16  
 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: 09191922.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		7050		955	1000	-4.5	25.0
Trifluorotoluene (Surr)	Ave	8333	8665		62.4	60.0	4.0	25.0
4-Bromofluorobenzene (Surr)	Ave	6035	5737		95.1	100	-4.9	25.0

FORM VII  
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-311731/24 Calibration Date: 09/19/2019 21:16  
 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: 09191922.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.87	3.40	10.35
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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 580-312058/8 Calibration Date: 09/23/2019 14:18  
 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: 09231906.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		7130		966	1000	-3.4	25.0
Trifluorotoluene (Surr)	Ave	8333	8867		63.8	60.0	6.4	25.0
4-Bromofluorobenzene (Surr)	Ave	6035	6013		99.6	100	-0.4	25.0



FORM VII  
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 580-312058/8 Calibration Date: 09/23/2019 14:18  
 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: 09231906.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.86	3.39	10.33
Trifluorotoluene (Surr)	6.11	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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312058/19 Calibration Date: 09/23/2019 19:52  
 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: 09231917.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		6852		927	1000	-7.3	25.0
Trifluorotoluene (Surr)	Ave	8333	8695		62.6	60.0	4.4	25.0
4-Bromofluorobenzene (Surr)	Ave	6035	5950		98.6	100	-1.4	25.0

FORM VII  
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312058/19 Calibration Date: 09/23/2019 19:52  
 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: 09231917.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.86	3.39	10.33
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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312058/29 Calibration Date: 09/24/2019 00:57  
 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: 09231927.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		7034		953	1000	-4.7	25.0
Trifluorotoluene (Surr)	Ave	8333	8748		63.0	60.0	5.0	25.0
4-Bromofluorobenzene (Surr)	Ave	6035	6050		100	100	0.3	25.0

FORM VII  
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312058/29 Calibration Date: 09/24/2019 00:57  
 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: 09231927.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.86	3.39	10.33
Trifluorotoluene (Surr)	6.11	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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312058/36 Calibration Date: 09/24/2019 04:29  
 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: 09231934.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		8742		1190	1000	19.4	25.0
Trifluorotoluene (Surr)	Ave	8333	8454		60.8	60.0	1.5	25.0
4-Bromofluorobenzene (Surr)	Ave	6035	5935		98.3	100	-1.7	25.0

FORM VII  
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312058/36 Calibration Date: 09/24/2019 04:29  
 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: 09231934.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.86	3.39	10.33
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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-311731/9  
 Matrix: Water Lab File ID: 09191907.D  
 Analysis Method: AK101 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/19/2019 13:19  
 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.: 311731 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)	122		50-150
460-00-4	4-Bromofluorobenzene (Surr)	96		50-150



FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-312058/9  
 Matrix: Water Lab File ID: 09231907.D  
 Analysis Method: AK101 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/23/2019 14:48  
 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.: 312058 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)	116		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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-312781/7  
 Matrix: Water Lab File ID: 09301907.D  
 Analysis Method: AK101 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/30/2019 14:04  
 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.: 312781 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)	95		50-150
460-00-4	4-Bromofluorobenzene (Surr)	87		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-311731/10  
 Matrix: Water Lab File ID: 09191908.D  
 Analysis Method: AK101 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/19/2019 13:49  
 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.: 311731 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.970		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	103		50-150
460-00-4	4-Bromofluorobenzene (Surr)	100		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-312058/10  
 Matrix: Water Lab File ID: 09231908.D  
 Analysis Method: AK101 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/23/2019 15:19  
 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.: 312058 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.926		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	103		50-150
460-00-4	4-Bromofluorobenzene (Surr)	96		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-312781/8  
 Matrix: Water Lab File ID: 09301908.D  
 Analysis Method: AK101 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/30/2019 14:28  
 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.: 312781 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.916		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	97		50-150
460-00-4	4-Bromofluorobenzene (Surr)	95		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-311731/11  
 Matrix: Water Lab File ID: 09191909.D  
 Analysis Method: AK101 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/19/2019 14:19  
 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.: 311731 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.991		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	102		50-150
460-00-4	4-Bromofluorobenzene (Surr)	102		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-312058/11  
 Matrix: Water Lab File ID: 09231909.D  
 Analysis Method: AK101 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/23/2019 15:49  
 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.: 312058 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.944		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	101		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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-312781/18  
 Matrix: Water Lab File ID: 09301919.D  
 Analysis Method: AK101 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 10/01/2019 10:06  
 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.: 312781 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.892		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	97		50-150
460-00-4	4-Bromofluorobenzene (Surr)	91		50-150



GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: SEA006 Start Date: 08/15/2019 15:44

Analysis Batch Number: 308501 End Date: 08/15/2019 20:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-308501/3		08/15/2019 15:44	1		RTX-VRX 0.45 (mm)
STD25000 580-308501/4 IC		08/15/2019 16:53	1	08151912.D	RTX-VRX 0.45 (mm)
STD15000 580-308501/5 IC		08/15/2019 17:17	1	08151913.D	RTX-VRX 0.45 (mm)
STD10000 580-308501/6 IC		08/15/2019 17:42	1	08151914.D	RTX-VRX 0.45 (mm)
STD5000 580-308501/7 IC		08/15/2019 18:06	1	08151915.D	RTX-VRX 0.45 (mm)
STD1000 580-308501/8 ICRT		08/15/2019 18:30	1	08151916.D	RTX-VRX 0.45 (mm)
STD500 580-308501/9 IC		08/15/2019 18:54	1	08151917.D	RTX-VRX 0.45 (mm)
STD250 580-308501/10 IC		08/15/2019 19:18	1	08151918.D	RTX-VRX 0.45 (mm)
STD100 580-308501/11 IC		08/15/2019 19:42	1	08151919.D	RTX-VRX 0.45 (mm)
STD50 580-308501/12 IC		08/15/2019 20:06	1	08151920.D	RTX-VRX 0.45 (mm)
ICV 580-308501/13		08/15/2019 20:30	1	08151921.D	RTX-VRX 0.45 (mm)

GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: SEA006 Start Date: 09/30/2019 13:16

Analysis Batch Number: 312781 End Date: 10/01/2019 10:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-312781/5		09/30/2019 13:16	1	09301905.D	RTX-VRX 0.45 (mm)
CCVRT 580-312781/6		09/30/2019 13:40	1	09301906.D	RTX-VRX 0.45 (mm)
MB 580-312781/7		09/30/2019 14:04	1	09301907.D	RTX-VRX 0.45 (mm)
LCS 580-312781/8		09/30/2019 14:28	1	09301908.D	RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 15:17	1		RTX-VRX 0.45 (mm)
580-89231-12		09/30/2019 15:41	1	09301911.D	RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 16:06	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 16:30	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 16:54	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 17:18	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 17:42	1		RTX-VRX 0.45 (mm)
CCV 580-312781/17		10/01/2019 09:42	1	09301918.D	RTX-VRX 0.45 (mm)
LCSD 580-312781/18		10/01/2019 10:06	1	09301919.D	RTX-VRX 0.45 (mm)
CCV 580-312781/24		10/01/2019 10:31	1	09301920.D	RTX-VRX 0.45 (mm)

GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

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.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: SEA047 Start Date: 09/19/2019 12:18

Analysis Batch Number: 311731 End Date: 09/19/2019 21:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-311731/7		09/19/2019 12:18	1	09191905.D	RTX-VRX 0.45 (mm)
CCVRT 580-311731/8		09/19/2019 12:48	1	09191906.D	RTX-VRX 0.45 (mm)
MB 580-311731/9		09/19/2019 13:19	1	09191907.D	RTX-VRX 0.45 (mm)
LCS 580-311731/10		09/19/2019 13:49	1	09191908.D	RTX-VRX 0.45 (mm)
LCSD 580-311731/11		09/19/2019 14:19	1	09191909.D	RTX-VRX 0.45 (mm)
ZZZZZ		09/19/2019 15:11	1		RTX-VRX 0.45 (mm)
580-89231-1		09/19/2019 15:41	1	09191911.D	RTX-VRX 0.45 (mm)
ZZZZZ		09/19/2019 16:12	1		RTX-VRX 0.45 (mm)
580-89231-4		09/19/2019 16:42	1	09191913.D	RTX-VRX 0.45 (mm)
580-89231-5		09/19/2019 17:12	1	09191914.D	RTX-VRX 0.45 (mm)
580-89231-6		09/19/2019 17:43	1	09191915.D	RTX-VRX 0.45 (mm)
ZZZZZ		09/19/2019 18:13	1		RTX-VRX 0.45 (mm)
CCV 580-311731/19		09/19/2019 18:43	1	09191917.D	RTX-VRX 0.45 (mm)
580-89231-8		09/19/2019 19:14	1	09191918.D	RTX-VRX 0.45 (mm)
580-89231-9		09/19/2019 19:44	1	09191919.D	RTX-VRX 0.45 (mm)
580-89231-10		09/19/2019 20:15	1	09191920.D	RTX-VRX 0.45 (mm)
CCV 580-311731/24		09/19/2019 21:16	1	09191922.D	RTX-VRX 0.45 (mm)

GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: SEA047 Start Date: 09/23/2019 13:48

Analysis Batch Number: 312058 End Date: 09/24/2019 04:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-312058/7		09/23/2019 13:48	1	09231905.D	RTX-VRX 0.45 (mm)
CCVRT 580-312058/8		09/23/2019 14:18	1	09231906.D	RTX-VRX 0.45 (mm)
MB 580-312058/9		09/23/2019 14:48	1	09231907.D	RTX-VRX 0.45 (mm)
LCS 580-312058/10		09/23/2019 15:19	1	09231908.D	RTX-VRX 0.45 (mm)
LCSD 580-312058/11		09/23/2019 15:49	1	09231909.D	RTX-VRX 0.45 (mm)
CCV 580-312058/19		09/23/2019 19:52	1	09231917.D	RTX-VRX 0.45 (mm)
ZZZZZ		09/23/2019 22:55	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/23/2019 23:25	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/23/2019 23:56	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/24/2019 00:26	1		RTX-VRX 0.45 (mm)
CCV 580-312058/29		09/24/2019 00:57	1	09231927.D	RTX-VRX 0.45 (mm)
580-89231-7		09/24/2019 01:27	1	09231928.D	RTX-VRX 0.45 (mm)
ZZZZZ		09/24/2019 01:57	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/24/2019 02:28	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/24/2019 02:58	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/24/2019 03:29	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/24/2019 03:59	1		RTX-VRX 0.45 (mm)
CCV 580-312058/36		09/24/2019 04:29	1	09231934.D	RTX-VRX 0.45 (mm)

GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 307784 Batch Start Date: 08/07/19 13:06 Batch Analyst: Vaughan, Dmiitra 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.: 580-89231-1

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.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 308501 Batch Start Date: 08/15/19 15:44 Batch Analyst: Vaughan, Dmitra C

Batch Method: AK101 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	BFBGRO ARCHON 00034	GRO BTEXBlend 00010	GRO_LCS 00054	Methanol 1L 00032
STD25000 580-308501/4 IC		AK101		5 mL	5 mL	2 uL		1250 uL	1250 uL
STD15000 580-308501/5 IC		AK101		5 mL	5 mL	2 uL		750 uL	1750 uL
STD10000 580-308501/6 IC		AK101		5 mL	5 mL	2 uL		500 uL	2000 uL
STD5000 580-308501/7 IC		AK101		5 mL	5 mL	2 uL		250 uL	2250 uL
STD1000 580-308501/8 ICRT		AK101		5 mL	5 mL	2 uL		50 uL	2450 uL
STD500 580-308501/9 IC		AK101		5 mL	5 mL	2 uL		25 uL	2450 uL
STD250 580-308501/10 IC		AK101		5 mL	5 mL	2 uL		12.5 uL	2500 uL
STD100 580-308501/11 IC		AK101		5 mL	5 mL	2 uL		5 uL	2500 uL
STD50 580-308501/12 IC		AK101		5 mL	5 mL	2 uL		2.5 uL	2500 uL
ICV 580-308501/13		AK101		5 mL	5 mL	2 uL	50 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00037				
STD25000 580-308501/4 IC		AK101		1 uL					
STD15000 580-308501/5 IC		AK101		1 uL					
STD10000 580-308501/6 IC		AK101		50 uL					
STD5000 580-308501/7 IC		AK101		37.5 uL					
STD1000 580-308501/8 ICRT		AK101		25 uL					
STD500 580-308501/9 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.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 308501 Batch Start Date: 08/15/19 15:44 Batch Analyst: Vaughan, Dmitra C

Batch Method: AK101 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00037				
STD250 580-308501/10 IC		AK101		15 uL					
STD100 580-308501/11 IC		AK101		10 uL					
STD50 580-308501/12 IC		AK101		5 uL					
ICV 580-308501/13		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.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 311731 Batch Start Date: 09/19/19 12:18 Batch Analyst: Vaughan, Dmitra C

Batch Method: AK101 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFBGRO ARCHON 00034	GRO_LCS 00056	RT_GRO_CUS 00021
RTC 580-311731/7		AK101		5 mL	5 mL		1 uL		22 uL
CCVRT 580-311731/8		AK101		5 mL	5 mL		1 uL	25 uL	
MB 580-311731/9		AK101		5 mL	5 mL		1 uL		
LCS 580-311731/10		AK101		5 mL	5 mL		1 uL	25 uL	
LCSD 580-311731/11		AK101		5 mL	5 mL		1 uL	25 uL	
580-89231-E-1	EQB-1-W-190916	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
580-89231-E-4	MW-7-W-190916	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
580-89231-E-5	MW-8-W-190916	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
580-89231-E-6	MW-9-W-190916	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
CCV 580-311731/19		AK101		5 mL	5 mL		1 uL	25 uL	
580-89231-E-8	MW-3-W-190916	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
580-89231-E-9	MW-2-W-190916	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
580-89231-E-10	MW-10-W-190916	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
CCV 580-311731/24		AK101		5 mL	5 mL		1 uL	25 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00040				
RTC 580-311731/7		AK101			1250 uL				
CCVRT 580-311731/8		AK101			1250 uL				
MB 580-311731/9		AK101		10.75 uL					
LCS 580-311731/10		AK101			1250 uL				
LCSD 580-311731/11		AK101			1250 uL				
580-89231-E-1	EQB-1-W-190916	AK101	T	10.75 uL					
580-89231-E-4	MW-7-W-190916	AK101	T	10.75 uL					
580-89231-E-5	MW-8-W-190916	AK101	T	10.75 uL					
580-89231-E-6	MW-9-W-190916	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.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 311731 Batch Start Date: 09/19/19 12:18 Batch Analyst: Vaughan, Dmitra C

Batch Method: AK101 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00040				
CCV 580-311731/19		AK101			1250 uL				
580-89231-E-8	MW-3-W-190916	AK101	T	10.75 uL					
580-89231-E-9	MW-2-W-190916	AK101	T	10.75 uL					
580-89231-E-10	MW-10-W-190916	AK101	T	10.75 uL					
CCV 580-311731/24		AK101			1250 uL				

Batch Notes	
pH Indicator ID	pH 0.0-6.0 LOT#6901002
Pipette/Syringe/Dispenser ID	B50N, C25J, C2500M
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.

GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 312058 Batch Start Date: 09/23/19 13:48 Batch Analyst: Vaughan, Dmiitra C

Batch Method: AK101 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFBGRO ARCHON 00034	GRO_LCS 00056	RT_GRO_CUS 00021
RTC 580-312058/7		AK101		5 mL	5 mL		1 uL		22 uL
CCVRT 580-312058/8		AK101		5 mL	5 mL		1 uL	25 uL	
MB 580-312058/9		AK101		5 mL	5 mL		1 uL		
LCS 580-312058/10		AK101		5 mL	5 mL		1 uL	25 uL	
LCSD 580-312058/11		AK101		5 mL	5 mL		1 uL	25 uL	
CCV 580-312058/19		AK101		5 mL	5 mL		1 uL	25 uL	
CCV 580-312058/29		AK101		5 mL	5 mL		1 uL	25 uL	
580-89231-F-7	MW-6-W-190916	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
CCV 580-312058/36		AK101		5 mL	5 mL		1 uL	25 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00040				
RTC 580-312058/7		AK101			1250 uL				
CCVRT 580-312058/8		AK101			1250 uL				
MB 580-312058/9		AK101		10.75 uL					
LCS 580-312058/10		AK101			1250 uL				
LCSD 580-312058/11		AK101			1250 uL				
CCV 580-312058/19		AK101			1250 uL				
CCV 580-312058/29		AK101			1250 uL				
580-89231-F-7	MW-6-W-190916	AK101	T	10.75 uL					
CCV 580-312058/36		AK101			1250 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.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 312058      Batch Start Date: 09/23/19 13:48      Batch Analyst: Vaughan, Dmitra C

Batch Method: AK101      Batch End Date: \_\_\_\_\_

Batch Notes	
pH Indicator ID	pH 0.0-6.0 Lot#6901002
Pipette/Syringe/Dispenser ID	B50N, C25K, C25000
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.

GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 312781 Batch Start Date: 09/30/19 13:16 Batch Analyst: Vaughan, Dmiitra C

Batch Method: AK101 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFBGRO ARCHON 00036	GRO_LCS 00056	RT_GRO_CUS 00021
RTC 580-312781/5		AK101		5 mL	5 mL		2 uL		11 uL
CCVRT 580-312781/6		AK101		5 mL	5 mL		2 uL	25 uL	
MB 580-312781/7		AK101		5 mL	5 mL		2 uL		
LCS 580-312781/8		AK101		5 mL	5 mL	<2.0 SU	2 uL	25 uL	
580-89231-B-12	Trip Blank	AK101	T	5 mL	5 mL		2 uL		
CCV 580-312781/17		AK101		5 mL	5 mL		2 uL	25 uL	
LCSD 580-312781/18		AK101		5 mL	5 mL		2 uL	25 uL	
CCV 580-312781/24		AK101		5 mL	5 mL		2 uL	25 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00040				
RTC 580-312781/5		AK101			1250 uL				
CCVRT 580-312781/6		AK101			1250 uL				
MB 580-312781/7		AK101		10.75 uL					
LCS 580-312781/8		AK101			1250 uL				
580-89231-B-12	Trip Blank	AK101	T	10.75 uL					
CCV 580-312781/17		AK101			1250 uL				
LCSD 580-312781/18		AK101			1250 uL				
CCV 580-312781/24		AK101			1250 uL				

Batch Notes	
pH Indicator ID	pH 0.0-6.0 LOT#6901002
Pipette/Syringe/Dispenser ID	B50N, C25M, C25000
Vial Lot Number	0217701E

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.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 312781 Batch Start Date: 09/30/19 13:16 Batch Analyst: Vaughan, Dmitra C

Batch Method: AK101 Batch End Date: \_\_\_\_\_

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 RSK-175

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Dissolved Gases (GC) by Method  
RSK\_175



FORM III  
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 440-0124778-004 9-24-2019 11;  
 Lab ID: LCS 440-570503/4 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Methane (TCD)	4.19	4.49	107	80-120	

# Column to be used to flag recovery and RPD values

FORM III  
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 440-0124778-006 9-24-2019 12;

Lab ID: LCS 440-570503/6 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Methane (FID)	0.0839	0.0878	105	80-120	

# Column to be used to flag recovery and RPD values

FORM III  
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 440-0124837-005 9-25-2019 1;0  
 Lab ID: LCS 440-570783/5 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Methane (TCD)	4.19	4.52	108	80-120	

# Column to be used to flag recovery and RPD values

FORM III  
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 440-0124837-007 9-25-2019 1;3  
 Lab ID: LCS 440-570783/7 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Methane (FID)	0.0839	0.0890	106	80-120	

# Column to be used to flag recovery and RPD values

FORM III  
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 440-0124778-005 9-24-2019 11;

Lab ID: LCSO 440-570503/5 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCSO CONCENTRATION (mg/L)	LCSO % REC	% RPD	QC LIMITS		#
					RPD	REC	
Methane (TCD)	4.19	4.44	106	1	20	80-120	

# Column to be used to flag recovery and RPD values

FORM III  
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 440-0124778-007 9-24-2019 12;

Lab ID: LCSO 440-570503/7 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCSO CONCENTRATION (mg/L)	LCSO % REC	% RPD	QC LIMITS		#
					RPD	REC	
Methane (FID)	0.0839	0.0841	100	4	20	80-120	

# Column to be used to flag recovery and RPD values

FORM III  
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 440-0124837-006 9-25-2019 1;2

Lab ID: LCSO 440-570783/6 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCSO CONCENTRATION (mg/L)	LCSO % REC	% RPD	QC LIMITS		#
					RPD	REC	
Methane (TCD)	4.19	4.43	106	2	20	80-120	

# Column to be used to flag recovery and RPD values

FORM III  
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 440-0124837-008 9-25-2019 1;4

Lab ID: LCSO 440-570783/8 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCSO CONCENTRATION (mg/L)	LCSO % REC	% RPD	QC LIMITS		#
					RPD	REC	
Methane (FID)	0.0839	0.0894	107	0	20	80-120	

# Column to be used to flag recovery and RPD values



FORM IV  
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: MB 440-570503/8  
 Matrix: Water Date Extracted: \_\_\_\_\_  
 Lab File ID: (1) 440-0124778-008 9-24-2019 Lab File ID: (2) \_\_\_\_\_  
 Date Analyzed: (1) 09/24/2019 13:01 Date Analyzed: (2) \_\_\_\_\_  
 Instrument ID: (1) GC96 Instrument ID: (2) \_\_\_\_\_  
 GC Column: (1) HaySep N ID: \_\_\_\_\_ GC Column: (2) \_\_\_\_\_ ID: \_\_\_\_\_

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE	
		ANALYZED 1	ANALYZED 2
	LCS 440-570503/4		09/24/2019 11:38
	LCSD 440-570503/5		09/24/2019 11:53
	LCS 440-570503/6	09/24/2019 12:06	
	LCSD 440-570503/7	09/24/2019 12:21	
EQB-1-W-190916	580-89231-1	09/24/2019 17:14	
MW-4-W-190916	580-89231-2		09/24/2019 17:27
MW-5-W-190916	580-89231-3		09/24/2019 17:40
MW-7-W-190916	580-89231-4		09/24/2019 17:56
MW-8-W-190916	580-89231-5		09/24/2019 18:09
MW-9-W-190916	580-89231-6	09/24/2019 18:22	

FORM IV  
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: MB 440-570503/8  
 Matrix: Water Date Extracted: \_\_\_\_\_  
 Lab File ID: (1) \_\_\_\_\_ Lab File ID: (2) 440-0124778-008 9-24-2019  
 Date Analyzed: (1) \_\_\_\_\_ Date Analyzed: (2) 09/24/2019 13:01  
 Instrument ID: (1) \_\_\_\_\_ Instrument ID: (2) GC96  
 GC Column: (1) \_\_\_\_\_ ID: \_\_\_\_\_ GC Column: (2) MolSieve5A ID: \_\_\_\_\_

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE	
		ANALYZED 1	ANALYZED 2
	LCS 440-570503/4		09/24/2019 11:38
	LCSD 440-570503/5		09/24/2019 11:53
	LCS 440-570503/6	09/24/2019 12:06	
	LCSD 440-570503/7	09/24/2019 12:21	
EQB-1-W-190916	580-89231-1	09/24/2019 17:14	
MW-4-W-190916	580-89231-2		09/24/2019 17:27
MW-5-W-190916	580-89231-3		09/24/2019 17:40
MW-7-W-190916	580-89231-4		09/24/2019 17:56
MW-8-W-190916	580-89231-5		09/24/2019 18:09
MW-9-W-190916	580-89231-6	09/24/2019 18:22	

FORM IV  
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: MB 440-570783/9  
 Matrix: Water Date Extracted: \_\_\_\_\_  
 Lab File ID: (1) 440-0124837-009 9-25-2019 Lab File ID: (2) \_\_\_\_\_  
 Date Analyzed: (1) 09/25/2019 14:28 Date Analyzed: (2) \_\_\_\_\_  
 Instrument ID: (1) GC96 Instrument ID: (2) \_\_\_\_\_  
 GC Column: (1) HaySep N ID: \_\_\_\_\_ 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 440-570783/5		09/25/2019 13:07
	LCSD 440-570783/6		09/25/2019 13:20
	LCS 440-570783/7	09/25/2019 13:33	
	LCSD 440-570783/8	09/25/2019 13:47	
MW-6-W-190916	580-89231-7		09/25/2019 16:52
MW-3-W-190916	580-89231-8	09/25/2019 17:05	
MW-2-W-190916	580-89231-9	09/25/2019 17:17	
MW-10-W-190916	580-89231-10		09/25/2019 17:30
BD-1-W-190916	580-89231-11		09/25/2019 18:14
Trip Blank_190916	580-89231-12	09/25/2019 18:28	

FORM IV  
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: MB 440-570783/9  
 Matrix: Water Date Extracted: \_\_\_\_\_  
 Lab File ID: (1) \_\_\_\_\_ Lab File ID: (2) 440-0124837-009 9-25-2019  
 Date Analyzed: (1) \_\_\_\_\_ Date Analyzed: (2) 09/25/2019 14:28  
 Instrument ID: (1) \_\_\_\_\_ Instrument ID: (2) GC96  
 GC Column: (1) \_\_\_\_\_ ID: \_\_\_\_\_ GC Column: (2) MolSieve5A ID: \_\_\_\_\_

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE	
		ANALYZED 1	ANALYZED 2
	LCS 440-570783/5		09/25/2019 13:07
	LCSD 440-570783/6		09/25/2019 13:20
	LCS 440-570783/7	09/25/2019 13:33	
	LCSD 440-570783/8	09/25/2019 13:47	
MW-6-W-190916	580-89231-7		09/25/2019 16:52
MW-3-W-190916	580-89231-8	09/25/2019 17:05	
MW-2-W-190916	580-89231-9	09/25/2019 17:17	
MW-10-W-190916	580-89231-10		09/25/2019 17:30
BD-1-W-190916	580-89231-11		09/25/2019 18:14
Trip Blank_190916	580-89231-12	09/25/2019 18:28	

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EQB-1-W-190916 Lab Sample ID: 580-89231-1  
 Matrix: Water Lab File ID: 440-0124778-024 9-24-2019 5;14  
 Analysis Method: RSK-175 Date Collected: 09/16/2019 10:00  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/24/2019 17:14  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: HaySep N ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570503 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (FID)	ND		0.00099	0.00025

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-4-W-190916 Lab Sample ID: 580-89231-2  
 Matrix: Water Lab File ID: 440-0124778-025 9-24-2019 5;27  
 Analysis Method: RSK-175 Date Collected: 09/16/2019 10:30  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/24/2019 17:27  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: MolSieve5A ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570503 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (TCD)	2.1		1.0	0.50

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-5-W-190916 Lab Sample ID: 580-89231-3  
 Matrix: Water Lab File ID: 440-0124778-026 9-24-2019 5;40  
 Analysis Method: RSK-175 Date Collected: 09/16/2019 10:30  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/24/2019 17:40  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: MolSieve5A ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570503 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (TCD)	3.4		1.0	0.50

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-7-W-190916 Lab Sample ID: 580-89231-4  
 Matrix: Water Lab File ID: 440-0124778-027 9-24-2019 5;56  
 Analysis Method: RSK-175 Date Collected: 09/16/2019 11:30  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/24/2019 17:56  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: MolSieve5A ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570503 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (TCD)	1.9		1.0	0.50



FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-8-W-190916 Lab Sample ID: 580-89231-5  
 Matrix: Water Lab File ID: 440-0124778-028 9-24-2019 6;09  
 Analysis Method: RSK-175 Date Collected: 09/16/2019 11:50  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/24/2019 18:09  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: MolSieve5A ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570503 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (TCD)	1.6		1.0	0.50

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-9-W-190916 Lab Sample ID: 580-89231-6  
 Matrix: Water Lab File ID: 440-0124778-029 9-24-2019 6;22  
 Analysis Method: RSK-175 Date Collected: 09/16/2019 12:15  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/24/2019 18:22  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: HaySep N ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570503 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (FID)	0.88		0.00099	0.00025

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-6-W-190916 Lab Sample ID: 580-89231-7  
 Matrix: Water Lab File ID: 440-0124837-018 9-25-2019 4;52  
 Analysis Method: RSK-175 Date Collected: 09/16/2019 12:45  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/25/2019 16:52  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: MolSieve5A ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570783 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (TCD)	5.0		1.0	0.50

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-3-W-190916 Lab Sample ID: 580-89231-8  
 Matrix: Water Lab File ID: 440-0124837-019 9-25-2019 5;05  
 Analysis Method: RSK-175 Date Collected: 09/16/2019 13:20  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/25/2019 17:05  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: HaySep N ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570783 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (FID)	0.45		0.00099	0.00025

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-2-W-190916 Lab Sample ID: 580-89231-9  
 Matrix: Water Lab File ID: 440-0124837-020 9-25-2019 5;17  
 Analysis Method: RSK-175 Date Collected: 09/16/2019 13:50  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/25/2019 17:17  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: HaySep N ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570783 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (FID)	0.14		0.00099	0.00025

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-10-W-190916 Lab Sample ID: 580-89231-10  
 Matrix: Water Lab File ID: 440-0124837-021 9-25-2019 5;30  
 Analysis Method: RSK-175 Date Collected: 09/16/2019 14:45  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/25/2019 17:30  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: MolSieve5A ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570783 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (TCD)	2.8		1.0	0.50

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: BD-1-W-190916 Lab Sample ID: 580-89231-11  
 Matrix: Water Lab File ID: 440-0124837-024 9-25-2019 6;14  
 Analysis Method: RSK-175 Date Collected: 09/16/2019 00:00  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/25/2019 18:14  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: MolSieve5A ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570783 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (TCD)	3.7		1.0	0.50

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: Trip Blank\_190916 Lab Sample ID: 580-89231-12  
 Matrix: Water Lab File ID: 440-0124837-025 9-25-2019 6;28  
 Analysis Method: RSK-175 Date Collected: 09/16/2019 00:00  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/25/2019 18:28  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: HaySep N ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570783 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (FID)	ND		0.00099	0.00025



FORM VI  
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1 Analy Batch No.: 544250

SDG No.: \_\_\_\_\_

Instrument ID: GC96 GC Column: MolSieve5A ID: \_\_\_\_\_ Heated Purge: (Y/N) N

Calibration Start Date: 05/03/2019 12:43 Calibration End Date: 05/03/2019 13:50 Calibration ID: 21380

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 440-544250/3	440-0118792-003 5-3-2019 12;43;16 pm -1.d
Level 2	IC 440-544250/4	440-0118792-004 5-3-2019 12;56;09 pm -1.d
Level 3	IC 440-544250/5	440-0118792-005 5-3-2019 1;09;35 pm -1.d
Level 4	IC 440-544250/6	440-0118792-006 5-3-2019 1;24;24 pm -1.d
Level 5	ICRT 440-544250/7	440-0118792-007 5-3-2019 1;37;18 pm -1.d
Level 6	IC 440-544250/8	440-0118792-008 5-3-2019 1;50;08 pm -1.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Methane (TCD)	6.830	6.817	6.837	6.817	6.804	6.790					6.704 - 6.904	6.816

FORM VI  
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1 Analy Batch No.: 544250

SDG No.: \_\_\_\_\_

Instrument ID: GC96 GC Column: MolSieve5A ID: \_\_\_\_\_ Heated Purge: (Y/N) N

Calibration Start Date: 05/03/2019 12:43 Calibration End Date: 05/03/2019 13:50 Calibration ID: 21380

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 440-544250/3	440-0118792-003 5-3-2019 12;43;16 pm -1.d
Level 2	IC 440-544250/4	440-0118792-004 5-3-2019 12;56;09 pm -1.d
Level 3	IC 440-544250/5	440-0118792-005 5-3-2019 1;09;35 pm -1.d
Level 4	IC 440-544250/6	440-0118792-006 5-3-2019 1;24;24 pm -1.d
Level 5	ICRT 440-544250/7	440-0118792-007 5-3-2019 1;37;18 pm -1.d
Level 6	IC 440-544250/8	440-0118792-008 5-3-2019 1;50;08 pm -1.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 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
Methane (TCD)	47032 39863	41267 46681	39039	38909	Ave		42131.7499			8.9			20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1 Analy Batch No.: 544250

SDG No.: \_\_\_\_\_

Instrument ID: GC96 GC Column: MolSieve5A ID: \_\_\_\_\_ Heated Purge: (Y/N) N

Calibration Start Date: 05/03/2019 12:43 Calibration End Date: 05/03/2019 13:50 Calibration ID: 21380

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 440-544250/3	440-0118792-003 5-3-2019 12;43;16 pm -1.d
Level 2	IC 440-544250/4	440-0118792-004 5-3-2019 12;56;09 pm -1.d
Level 3	IC 440-544250/5	440-0118792-005 5-3-2019 1;09;35 pm -1.d
Level 4	IC 440-544250/6	440-0118792-006 5-3-2019 1;24;24 pm -1.d
Level 5	ICRT 440-544250/7	440-0118792-007 5-3-2019 1;37;18 pm -1.d
Level 6	IC 440-544250/8	440-0118792-008 5-3-2019 1;50;08 pm -1.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methane (TCD)	Ave	31564 783209	69238	130999	261126	334410	0.671 16.8	1.68	3.36	6.71	8.39

Curve Type Legend:

Ave = Average

FORM VI  
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1 Analy Batch No.: 550409

SDG No.: \_\_\_\_\_

Instrument ID: GC96 GC Column: HaySep N ID: \_\_\_\_\_ Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2019 14:07 Calibration End Date: 06/03/2019 15:41 Calibration ID: 21629

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 440-550409/4	440-0120138-004 6-3-2019 2;07;56 pm -1.d
Level 2	IC 440-550409/5	440-0120138-005 6-3-2019 2;20;45 pm -1.d
Level 3	IC 440-550409/6	440-0120138-006 6-3-2019 2;33;45 pm -1.d
Level 4	ICRT 440-550409/7	440-0120138-007 6-3-2019 2;47;03 pm -1.d
Level 5	IC 440-550409/8	440-0120138-008 6-3-2019 3;00;21 pm -1.d
Level 6	IC 440-550409/9	440-0120138-009 6-3-2019 3;13;53 pm -1.d
Level 7	IC 440-550409/10	440-0120138-010 6-3-2019 3;28;06 pm -1.d
Level 8	IC 440-550409/11	440-0120138-011 6-3-2019 3;41;24 pm -1.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
Ethene	4.022	4.009	4.002	4.016	4.076	4.069	4.076				3.976 - 4.176	4.039
Ethane	4.983	4.983	4.976	4.996	5.063	5.049	5.069				4.963 - 5.163	5.017
Methane (FID)	6.890	6.890	6.870	6.877	6.884	6.890	6.890	6.884			6.784 - 6.984	6.884

FORM VI  
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1 Analy Batch No.: 550409

SDG No.: \_\_\_\_\_

Instrument ID: GC96 GC Column: HaySep N ID: \_\_\_\_\_ Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2019 14:07 Calibration End Date: 06/03/2019 15:41 Calibration ID: 21629

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 440-550409/4	440-0120138-004 6-3-2019 2;07;56 pm -1.d
Level 2	IC 440-550409/5	440-0120138-005 6-3-2019 2;20;45 pm -1.d
Level 3	IC 440-550409/6	440-0120138-006 6-3-2019 2;33;45 pm -1.d
Level 4	ICRT 440-550409/7	440-0120138-007 6-3-2019 2;47;03 pm -1.d
Level 5	IC 440-550409/8	440-0120138-008 6-3-2019 3;00;21 pm -1.d
Level 6	IC 440-550409/9	440-0120138-009 6-3-2019 3;13;53 pm -1.d
Level 7	IC 440-550409/10	440-0120138-010 6-3-2019 3;28;06 pm -1.d
Level 8	IC 440-550409/11	440-0120138-011 6-3-2019 3;41;24 pm -1.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 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Ethene	4239280 5328319	4444812 5313626	4709185 5313198	5585658	Ave		4990582.60			10.4		20.0				
Ethane	7078011 7725815	6923303 7834565	6922026 7803049	7939289	Ave		7460865.59			6.2		20.0				
Methane (FID)	5871261 7714591	7271893 7881748	7085716 7864262	7938634 8376118	Ave		7500527.87			10.3		20.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1 Analy Batch No.: 550409

SDG No.: \_\_\_\_\_

Instrument ID: GC96 GC Column: HaySep N ID: \_\_\_\_\_ Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2019 14:07 Calibration End Date: 06/03/2019 15:41 Calibration ID: 21629

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 440-550409/4	440-0120138-004 6-3-2019 2;07;56 pm -1.d
Level 2	IC 440-550409/5	440-0120138-005 6-3-2019 2;20;45 pm -1.d
Level 3	IC 440-550409/6	440-0120138-006 6-3-2019 2;33;45 pm -1.d
Level 4	ICRT 440-550409/7	440-0120138-007 6-3-2019 2;47;03 pm -1.d
Level 5	IC 440-550409/8	440-0120138-008 6-3-2019 3;00;21 pm -1.d
Level 6	IC 440-550409/9	440-0120138-009 6-3-2019 3;13;53 pm -1.d
Level 7	IC 440-550409/10	440-0120138-010 6-3-2019 3;28;06 pm -1.d
Level 8	IC 440-550409/11	440-0120138-011 6-3-2019 3;41;24 pm -1.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		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 6	LVL 7	LVL 8		
Ethene	Ave	6196 1941558	16241 3882803	34414	409722	781691	0.00146 0.365	0.00365 0.731	0.00731	0.0734	0.147
Ethane	Ave	11090 3068847	27119 6113004	54228	624306	1215039	0.00157 0.392	0.00392 0.783	0.00783	0.0786	0.157
Methane (FID)	Ave	4907 1646824	15194 3286341	29610 8432070	332986	647177	0.000836 0.209	0.00209 0.418	0.00418 1.01	0.0419	0.0839

Curve Type Legend:

Ave = Average

FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 440-544250/11 Calibration Date: 05/03/2019 14:29  
 Instrument ID: GC96 Calib Start Date: 05/03/2019 12:43  
 GC Column: MolSieve5A ID: \_\_\_\_\_ Calib End Date: 05/03/2019 13:50  
 Lab File ID: 440-0118792-011 5-3-2019 2;29;09 Conc. Units: mg/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane (TCD)	Ave	42132	45968		4.58	4.19	9.1	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 440-544250/11 Calibration Date: 05/03/2019 14:29  
 Instrument ID: GC96 Calib Start Date: 05/03/2019 12:43  
 GC Column: MolSieve5A ID: \_\_\_\_\_ Calib End Date: 05/03/2019 13:50  
 Lab File ID: 440-0118792-011 5-3-2019 2;29;09 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane (TCD)	6.82	6.70	6.90



FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 440-550409/12 Calibration Date: 06/03/2019 15:54  
 Instrument ID: GC96 Calib Start Date: 06/03/2019 14:07  
 GC Column: HaySep N ID: \_\_\_\_\_ Calib End Date: 06/03/2019 15:41  
 Lab File ID: 440-0120138-012 6-3-2019 3;54;24 Conc. Units: mg/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethene	Ave	4990583	5502539		0.162	0.147	10.3	20.0
Ethane	Ave	7460866	7821873		0.165	0.157	4.8	20.0
Methane (FID)	Ave	7500528	7975527		0.0892	0.0839	6.3	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 440-550409/12 Calibration Date: 06/03/2019 15:54  
 Instrument ID: GC96 Calib Start Date: 06/03/2019 14:07  
 GC Column: HaySep N ID: \_\_\_\_\_ Calib End Date: 06/03/2019 15:41  
 Lab File ID: 440-0120138-012 6-3-2019 3;54;24 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Ethene	4.06	3.98	4.18
Ethane	5.07	4.96	5.16
Methane (FID)	6.88	6.78	6.98

FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 440-570503/2 Calibration Date: 09/24/2019 11:10  
 Instrument ID: GC96 Calib Start Date: 06/03/2019 14:07  
 GC Column: HaySep N ID: \_\_\_\_\_ Calib End Date: 06/03/2019 15:41  
 Lab File ID: 440-0124778-002 9-24-2019 11;10;0 Conc. Units: mg/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethene	Ave	4990583	5419284		0.0797	0.0734	8.6	20.0
Ethane	Ave	7460866	7628155		0.0804	0.0786	2.2	20.0
Methane (FID)	Ave	7500528	7663750		0.0429	0.0419	2.2	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 440-570503/2 Calibration Date: 09/24/2019 11:10  
 Instrument ID: GC96 Calib Start Date: 06/03/2019 14:07  
 GC Column: HaySep N ID: \_\_\_\_\_ Calib End Date: 06/03/2019 15:41  
 Lab File ID: 440-0124778-002 9-24-2019 11;10;0 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Ethene	4.10	4.00	4.20
Ethane	5.08	4.98	5.18
Methane (FID)	6.88	6.78	6.98

FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 440-570503/3 Calibration Date: 09/24/2019 11:22  
 Instrument ID: GC96 Calib Start Date: 05/03/2019 12:43  
 GC Column: MolSieve5A ID: \_\_\_\_\_ Calib End Date: 05/03/2019 13:50  
 Lab File ID: 440-0124778-003 9-24-2019 11;22;5 Conc. Units: mg/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane (TCD)	Ave	42132	45752		2.92	2.68	8.6	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 440-570503/3 Calibration Date: 09/24/2019 11:22  
 Instrument ID: GC96 Calib Start Date: 05/03/2019 12:43  
 GC Column: MolSieve5A ID: \_\_\_\_\_ Calib End Date: 05/03/2019 13:50  
 Lab File ID: 440-0124778-003 9-24-2019 11;22;5 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane (TCD)	6.82	6.72	6.92

FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 440-570503/19 Calibration Date: 09/24/2019 15:39  
 Instrument ID: GC96 Calib Start Date: 06/03/2019 14:07  
 GC Column: HaySep N ID: \_\_\_\_\_ Calib End Date: 06/03/2019 15:41  
 Lab File ID: 440-0124778-019 9-24-2019 3;39;29 Conc. Units: mg/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethene	Ave	4990583	5330289		0.0783	0.0734	6.8	20.0
Ethane	Ave	7460866	7700579		0.0812	0.0786	3.2	20.0
Methane (FID)	Ave	7500528	7721850		0.0432	0.0419	3.0	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 440-570503/19 Calibration Date: 09/24/2019 15:39  
 Instrument ID: GC96 Calib Start Date: 06/03/2019 14:07  
 GC Column: HaySep N ID: \_\_\_\_\_ Calib End Date: 06/03/2019 15:41  
 Lab File ID: 440-0124778-019 9-24-2019 3;39;29 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Ethene	4.09	4.00	4.20
Ethane	5.07	4.98	5.18
Methane (FID)	6.89	6.78	6.98



FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 440-570503/20 Calibration Date: 09/24/2019 15:52  
 Instrument ID: GC96 Calib Start Date: 05/03/2019 12:43  
 GC Column: MolSieve5A ID: \_\_\_\_\_ Calib End Date: 05/03/2019 13:50  
 Lab File ID: 440-0124778-020 9-24-2019 3;52;40 Conc. Units: mg/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane (TCD)	Ave	42132	45838		2.92	2.68	8.8	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 440-570503/20 Calibration Date: 09/24/2019 15:52  
 Instrument ID: GC96 Calib Start Date: 05/03/2019 12:43  
 GC Column: MolSieve5A ID: \_\_\_\_\_ Calib End Date: 05/03/2019 13:50  
 Lab File ID: 440-0124778-020 9-24-2019 3;52;40 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane (TCD)	6.82	6.72	6.92

FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 440-570503/31 Calibration Date: 09/24/2019 18:50  
 Instrument ID: GC96 Calib Start Date: 06/03/2019 14:07  
 GC Column: HaySep N ID: \_\_\_\_\_ Calib End Date: 06/03/2019 15:41  
 Lab File ID: 440-0124778-031 9-24-2019 6;50;05 Conc. Units: mg/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethene	Ave	4990583	5290358		0.0778	0.0734	6.0	20.0
Ethane	Ave	7460866	7669371		0.0808	0.0786	2.8	20.0
Methane (FID)	Ave	7500528	7810681		0.0437	0.0419	4.1	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 440-570503/31 Calibration Date: 09/24/2019 18:50  
 Instrument ID: GC96 Calib Start Date: 06/03/2019 14:07  
 GC Column: HaySep N ID: \_\_\_\_\_ Calib End Date: 06/03/2019 15:41  
 Lab File ID: 440-0124778-031 9-24-2019 6;50;05 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Ethene	4.10	4.00	4.20
Ethane	5.10	4.98	5.18
Methane (FID)	6.90	6.78	6.98

FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 440-570503/32 Calibration Date: 09/24/2019 19:03  
 Instrument ID: GC96 Calib Start Date: 05/03/2019 12:43  
 GC Column: MolSieve5A ID: \_\_\_\_\_ Calib End Date: 05/03/2019 13:50  
 Lab File ID: 440-0124778-032 9-24-2019 7;03;36 Conc. Units: mg/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane (TCD)	Ave	42132	44863		2.86	2.68	6.5	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 440-570503/32 Calibration Date: 09/24/2019 19:03  
 Instrument ID: GC96 Calib Start Date: 05/03/2019 12:43  
 GC Column: MolSieve5A ID: \_\_\_\_\_ Calib End Date: 05/03/2019 13:50  
 Lab File ID: 440-0124778-032 9-24-2019 7;03;36 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane (TCD)	6.82	6.72	6.92

FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 440-570783/2 Calibration Date: 09/25/2019 12:04  
 Instrument ID: GC96 Calib Start Date: 06/03/2019 14:07  
 GC Column: HaySep N ID: \_\_\_\_\_ Calib End Date: 06/03/2019 15:41  
 Lab File ID: 440-0124837-002 9-25-2019 12:04;0 Conc. Units: mg/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethene	Ave	4990583	5280556		0.0776	0.0734	5.8	20.0
Ethane	Ave	7460866	7534482		0.0794	0.0786	1.0	20.0
Methane (FID)	Ave	7500528	7646799		0.0428	0.0419	2.0	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 440-570783/2 Calibration Date: 09/25/2019 12:04  
 Instrument ID: GC96 Calib Start Date: 06/03/2019 14:07  
 GC Column: HaySep N ID: \_\_\_\_\_ Calib End Date: 06/03/2019 15:41  
 Lab File ID: 440-0124837-002 9-25-2019 12:04;0 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Ethene	4.08	3.98	4.18
Ethane	5.07	4.97	5.17
Methane (FID)	6.88	6.78	6.98



FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 440-570783/4 Calibration Date: 09/25/2019 12:47  
 Instrument ID: GC96 Calib Start Date: 05/03/2019 12:43  
 GC Column: MolSieve5A ID: \_\_\_\_\_ Calib End Date: 05/03/2019 13:50  
 Lab File ID: 440-0124837-004 9-25-2019 12:47;3 Conc. Units: mg/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane (TCD)	Ave	42132	44565		2.84	2.68	5.8	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 440-570783/4 Calibration Date: 09/25/2019 12:47  
 Instrument ID: GC96 Calib Start Date: 05/03/2019 12:43  
 GC Column: MolSieve5A ID: \_\_\_\_\_ Calib End Date: 05/03/2019 13:50  
 Lab File ID: 440-0124837-004 9-25-2019 12:47;3 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane (TCD)	6.82	6.72	6.92

FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 440-570783/22 Calibration Date: 09/25/2019 17:43  
 Instrument ID: GC96 Calib Start Date: 06/03/2019 14:07  
 GC Column: HaySep N ID: \_\_\_\_\_ Calib End Date: 06/03/2019 15:41  
 Lab File ID: 440-0124837-022 9-25-2019 5;43;36 Conc. Units: mg/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethene	Ave	4990583	5472356		0.0804	0.0734	9.7	20.0
Ethane	Ave	7460866	7885903		0.0831	0.0786	5.7	20.0
Methane (FID)	Ave	7500528	8008249		0.0448	0.0419	6.8	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 440-570783/22 Calibration Date: 09/25/2019 17:43  
 Instrument ID: GC96 Calib Start Date: 06/03/2019 14:07  
 GC Column: HaySep N ID: \_\_\_\_\_ Calib End Date: 06/03/2019 15:41  
 Lab File ID: 440-0124837-022 9-25-2019 5;43;36 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Ethene	4.11	3.98	4.18
Ethane	5.11	4.97	5.17
Methane (FID)	6.90	6.78	6.98

FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 440-570783/23 Calibration Date: 09/25/2019 17:56  
 Instrument ID: GC96 Calib Start Date: 05/03/2019 12:43  
 GC Column: MolSieve5A ID: \_\_\_\_\_ Calib End Date: 05/03/2019 13:50  
 Lab File ID: 440-0124837-023 9-25-2019 5;56;48 Conc. Units: mg/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane (TCD)	Ave	42132	45467		2.90	2.68	7.9	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 440-570783/23 Calibration Date: 09/25/2019 17:56  
 Instrument ID: GC96 Calib Start Date: 05/03/2019 12:43  
 GC Column: MolSieve5A ID: \_\_\_\_\_ Calib End Date: 05/03/2019 13:50  
 Lab File ID: 440-0124837-023 9-25-2019 5;56;48 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane (TCD)	6.83	6.72	6.92

FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 440-570783/32 Calibration Date: 09/25/2019 19:58  
 Instrument ID: GC96 Calib Start Date: 06/03/2019 14:07  
 GC Column: HaySep N ID: \_\_\_\_\_ Calib End Date: 06/03/2019 15:41  
 Lab File ID: 440-0124837-032 9-25-2019 7;58;48 Conc. Units: mg/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethene	Ave	4990583	5437524		0.0799	0.0734	9.0	20.0
Ethane	Ave	7460866	7853322		0.0828	0.0786	5.3	20.0
Methane (FID)	Ave	7500528	7910669		0.0442	0.0419	5.5	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 440-570783/32 Calibration Date: 09/25/2019 19:58  
 Instrument ID: GC96 Calib Start Date: 06/03/2019 14:07  
 GC Column: HaySep N ID: \_\_\_\_\_ Calib End Date: 06/03/2019 15:41  
 Lab File ID: 440-0124837-032 9-25-2019 7;58;48 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Ethene	4.09	3.98	4.18
Ethane	5.07	4.97	5.17
Methane (FID)	6.90	6.78	6.98



FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 440-570783/33 Calibration Date: 09/25/2019 20:11  
 Instrument ID: GC96 Calib Start Date: 05/03/2019 12:43  
 GC Column: MolSieve5A ID: \_\_\_\_\_ Calib End Date: 05/03/2019 13:50  
 Lab File ID: 440-0124837-033 9-25-2019 8;11;35 Conc. Units: mg/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane (TCD)	Ave	42132	45818		2.92	2.68	8.7	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 440-570783/33 Calibration Date: 09/25/2019 20:11  
 Instrument ID: GC96 Calib Start Date: 05/03/2019 12:43  
 GC Column: MolSieve5A ID: \_\_\_\_\_ Calib End Date: 05/03/2019 13:50  
 Lab File ID: 440-0124837-033 9-25-2019 8;11;35 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane (TCD)	6.82	6.72	6.92

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 440-570503/8  
 Matrix: Water Lab File ID: 440-0124778-008 9-24-2019 1;01  
 Analysis Method: RSK-175 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/24/2019 13:01  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: HaySep N ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570503 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (FID)	ND		0.00099	0.00025

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 440-570503/8  
 Matrix: Water Lab File ID: 440-0124778-008 9-24-2019 1;01  
 Analysis Method: RSK-175 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/24/2019 13:01  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: MolSieve5A ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570503 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (TCD)	ND		1.0	0.50

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 440-570783/9  
 Matrix: Water Lab File ID: 440-0124837-009 9-25-2019 2;28  
 Analysis Method: RSK-175 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/25/2019 14:28  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: HaySep N ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570783 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (FID)	ND		0.00099	0.00025

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 440-570783/9  
 Matrix: Water Lab File ID: 440-0124837-009 9-25-2019 2;28  
 Analysis Method: RSK-175 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/25/2019 14:28  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: MolSieve5A ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570783 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (TCD)	ND		1.0	0.50

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 440-570503/4  
 Matrix: Water Lab File ID: 440-0124778-004 9-24-2019 11;3  
 Analysis Method: RSK-175 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/24/2019 11:38  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: MolSieve5A ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570503 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (TCD)	4.49		1.0	0.50

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 440-570503/6  
 Matrix: Water Lab File ID: 440-0124778-006 9-24-2019 12;0  
 Analysis Method: RSK-175 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/24/2019 12:06  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: HaySep N ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570503 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (FID)	0.0878		0.00099	0.00025



FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 440-570783/5  
 Matrix: Water Lab File ID: 440-0124837-005 9-25-2019 1;07  
 Analysis Method: RSK-175 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/25/2019 13:07  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: MolSieve5A ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570783 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (TCD)	4.52		1.0	0.50

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 440-570783/7  
 Matrix: Water Lab File ID: 440-0124837-007 9-25-2019 1;33  
 Analysis Method: RSK-175 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/25/2019 13:33  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: HaySep N ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570783 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (FID)	0.0890		0.00099	0.00025

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 440-570503/5  
 Matrix: Water Lab File ID: 440-0124778-005 9-24-2019 11;5  
 Analysis Method: RSK-175 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/24/2019 11:53  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: MolSieve5A ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570503 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (TCD)	4.44		1.0	0.50

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 440-570503/7  
 Matrix: Water Lab File ID: 440-0124778-007 9-24-2019 12;2  
 Analysis Method: RSK-175 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/24/2019 12:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: HaySep N ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570503 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (FID)	0.0841		0.00099	0.00025

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 440-570783/6  
 Matrix: Water Lab File ID: 440-0124837-006 9-25-2019 1;20  
 Analysis Method: RSK-175 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/25/2019 13:20  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: MolSieve5A ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570783 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (TCD)	4.43		1.0	0.50

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 440-570783/8  
 Matrix: Water Lab File ID: 440-0124837-008 9-25-2019 1;47  
 Analysis Method: RSK-175 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 300 (uL) Date Analyzed: 09/25/2019 13:47  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: HaySep N ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 570783 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane (FID)	0.0894		0.00099	0.00025

## GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: GC96 Start Date: 05/03/2019 12:17Analysis Batch Number: 544250 End Date: 05/03/2019 14:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/03/2019 12:17	1		HaySep N
ZZZZZ		05/03/2019 12:17	1		MolSieve5A
IC 440-544250/3		05/03/2019 12:43	1	440-0118792-003 5-3-2019 12;43;16 pm -1.d	MolSieve5A
IC 440-544250/4		05/03/2019 12:56	1	440-0118792-004 5-3-2019 12;56;09 pm -1.d	MolSieve5A
IC 440-544250/5		05/03/2019 13:09	1	440-0118792-005 5-3-2019 1;09;35 pm -1.d	MolSieve5A
IC 440-544250/6		05/03/2019 13:24	1	440-0118792-006 5-3-2019 1;24;24 pm -1.d	MolSieve5A
ICRT 440-544250/7		05/03/2019 13:37	1	440-0118792-007 5-3-2019 1;37;18 pm -1.d	MolSieve5A
IC 440-544250/8		05/03/2019 13:50	1	440-0118792-008 5-3-2019 1;50;08 pm -1.d	MolSieve5A
ICV 440-544250/11		05/03/2019 14:29	1	440-0118792-011 5-3-2019 2;29;09 pm -1.d	MolSieve5A

## GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Irvine

Job No.: 580-89231-1

SDG No.:

Instrument ID: GC96

Start Date: 06/03/2019 13:55

Analysis Batch Number: 550409

End Date: 06/03/2019 15:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/03/2019 13:55	1		HaySep N
ZZZZZ		06/03/2019 13:55	1		MolSieve5A
IC 440-550409/4		06/03/2019 14:07	1	440-0120138-004 6-3-2019 2;07;56 pm -1.d	HaySep N
IC 440-550409/5		06/03/2019 14:20	1	440-0120138-005 6-3-2019 2;20;45 pm -1.d	HaySep N
IC 440-550409/6		06/03/2019 14:33	1	440-0120138-006 6-3-2019 2;33;45 pm -1.d	HaySep N
ICRT 440-550409/7		06/03/2019 14:47	1	440-0120138-007 6-3-2019 2;47;03 pm -1.d	HaySep N
IC 440-550409/8		06/03/2019 15:00	1	440-0120138-008 6-3-2019 3;00;21 pm -1.d	HaySep N
IC 440-550409/9		06/03/2019 15:13	1	440-0120138-009 6-3-2019 3;13;53 pm -1.d	HaySep N
IC 440-550409/10		06/03/2019 15:28	1	440-0120138-010 6-3-2019 3;28;06 pm -1.d	HaySep N
IC 440-550409/11		06/03/2019 15:41	1	440-0120138-011 6-3-2019 3;41;24 pm -1.d	HaySep N
ICV 440-550409/12		06/03/2019 15:54	1	440-0120138-012 6-3-2019 3;54;24 pm -1.d	HaySep N



GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: GC96 Start Date: 09/24/2019 10:56

Analysis Batch Number: 570503 End Date: 09/24/2019 19:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		09/24/2019 10:56	1		HaySep N
ZZZZZ		09/24/2019 10:56	1		MolSieve5A
CCVRT 440-570503/2		09/24/2019 11:10	1	440-0124778-002 9-24-2019 11;10;03 am -1.d	HaySep N
CCVRT 440-570503/3		09/24/2019 11:22	1	440-0124778-003 9-24-2019 11;22;55 am -1.d	MolSieve5A
LCS 440-570503/4		09/24/2019 11:38	1	440-0124778-004 9-24-2019 11;38;36 am -1.d	MolSieve5A
LCSD 440-570503/5		09/24/2019 11:53	1	440-0124778-005 9-24-2019 11;53;34 am -1.d	MolSieve5A
LCS 440-570503/6		09/24/2019 12:06	1	440-0124778-006 9-24-2019 12;06;20 pm -1.d	HaySep N
LCSD 440-570503/7		09/24/2019 12:21	1	440-0124778-007 9-24-2019 12;21;18 pm -1.d	HaySep N
MB 440-570503/8		09/24/2019 13:01	1	440-0124778-008 9-24-2019 1;01;40 pm -1.d	HaySep N
MB 440-570503/8		09/24/2019 13:01	1	440-0124778-008 9-24-2019 1;01;40 pm -1.d	MolSieve5A
ZZZZZ		09/24/2019 14:09	1		HaySep N
ZZZZZ		09/24/2019 14:09	1		MolSieve5A
ZZZZZ		09/24/2019 14:25	1		HaySep N
ZZZZZ		09/24/2019 14:25	1		MolSieve5A
CCV 440-570503/19		09/24/2019 15:39	1	440-0124778-019 9-24-2019 3;39;29 pm -1.d	HaySep N
CCV 440-570503/20		09/24/2019 15:52	1	440-0124778-020 9-24-2019 3;52;40 pm -1.d	MolSieve5A
ZZZZZ		09/24/2019 16:48	1		HaySep N
ZZZZZ		09/24/2019 16:48	1		MolSieve5A
ZZZZZ		09/24/2019 17:01	1		HaySep N
ZZZZZ		09/24/2019 17:01	1		MolSieve5A
580-89231-1		09/24/2019 17:14	1	440-0124778-024 9-24-2019 5;14;18 pm -1.d	HaySep N
580-89231-1		09/24/2019 17:14	1	440-0124778-024 9-24-2019 5;14;18 pm -1.d	MolSieve5A
580-89231-2		09/24/2019 17:27	1	440-0124778-025 9-24-2019 5;27;24 pm -1.d	HaySep N
580-89231-2		09/24/2019 17:27	1	440-0124778-025 9-24-2019 5;27;24 pm -1.d	MolSieve5A

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: GC96 Start Date: 09/24/2019 10:56

Analysis Batch Number: 570503 End Date: 09/24/2019 19:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
580-89231-3		09/24/2019 17:40	1	440-0124778-026 9-24-2019 5;40;21 pm -1.d	HaySep N
580-89231-3		09/24/2019 17:40	1	440-0124778-026 9-24-2019 5;40;21 pm -1.d	MolSieve5A
580-89231-4		09/24/2019 17:56	1	440-0124778-027 9-24-2019 5;56;10 pm -1.d	HaySep N
580-89231-4		09/24/2019 17:56	1	440-0124778-027 9-24-2019 5;56;10 pm -1.d	MolSieve5A
580-89231-5		09/24/2019 18:09	1	440-0124778-028 9-24-2019 6;09;04 pm -1.d	HaySep N
580-89231-5		09/24/2019 18:09	1	440-0124778-028 9-24-2019 6;09;04 pm -1.d	MolSieve5A
580-89231-6		09/24/2019 18:22	1	440-0124778-029 9-24-2019 6;22;55 pm -1.d	HaySep N
580-89231-6		09/24/2019 18:22	1	440-0124778-029 9-24-2019 6;22;55 pm -1.d	MolSieve5A
CCV 440-570503/31		09/24/2019 18:50	1	440-0124778-031 9-24-2019 6;50;05 pm -1.d	HaySep N
CCV 440-570503/32		09/24/2019 19:03	1	440-0124778-032 9-24-2019 7;03;36 pm -1.d	MolSieve5A

## GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Irvine

Job No.: 580-89231-1

SDG No.:

Instrument ID: GC96

Start Date: 09/25/2019 11:50

Analysis Batch Number: 570783

End Date: 09/25/2019 20:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		09/25/2019 11:50	1		HaySep N
ZZZZZ		09/25/2019 11:50	1		MolSieve5A
CCVRT 440-570783/2		09/25/2019 12:04	1	440-0124837-002 9-25-2019 12:04:00 pm -1.d	HaySep N
ZZZZZ		09/25/2019 12:17	1		HaySep N
ZZZZZ		09/25/2019 12:17	1		MolSieve5A
CCVRT 440-570783/4		09/25/2019 12:47	1	440-0124837-004 9-25-2019 12:47:35 pm -1.d	MolSieve5A
LCS 440-570783/5		09/25/2019 13:07	1	440-0124837-005 9-25-2019 1:07:38 pm -1.d	MolSieve5A
LCSD 440-570783/6		09/25/2019 13:20	1	440-0124837-006 9-25-2019 1:20:20 pm -1.d	MolSieve5A
LCS 440-570783/7		09/25/2019 13:33	1	440-0124837-007 9-25-2019 1:33:11 pm -1.d	HaySep N
LCSD 440-570783/8		09/25/2019 13:47	1	440-0124837-008 9-25-2019 1:47:58 pm -1.d	HaySep N
MB 440-570783/9		09/25/2019 14:28	1	440-0124837-009 9-25-2019 2:28:33 pm -1.d	HaySep N
MB 440-570783/9		09/25/2019 14:28	1	440-0124837-009 9-25-2019 2:28:33 pm -1.d	MolSieve5A
580-89231-7		09/25/2019 16:52	1	440-0124837-018 9-25-2019 4:52:23 pm -1.d	HaySep N
580-89231-7		09/25/2019 16:52	1	440-0124837-018 9-25-2019 4:52:23 pm -1.d	MolSieve5A
580-89231-8		09/25/2019 17:05	1	440-0124837-019 9-25-2019 5:05:02 pm -1.d	HaySep N
580-89231-8		09/25/2019 17:05	1	440-0124837-019 9-25-2019 5:05:02 pm -1.d	MolSieve5A
580-89231-9		09/25/2019 17:17	1	440-0124837-020 9-25-2019 5:17:49 pm -1.d	HaySep N
580-89231-9		09/25/2019 17:17	1	440-0124837-020 9-25-2019 5:17:49 pm -1.d	MolSieve5A
580-89231-10		09/25/2019 17:30	1	440-0124837-021 9-25-2019 5:30:48 pm -1.d	HaySep N
580-89231-10		09/25/2019 17:30	1	440-0124837-021 9-25-2019 5:30:48 pm -1.d	MolSieve5A
CCV 440-570783/22		09/25/2019 17:43	1	440-0124837-022 9-25-2019 5:43:36 pm -1.d	HaySep N
CCV 440-570783/23		09/25/2019 17:56	1	440-0124837-023 9-25-2019 5:56:48 pm -1.d	MolSieve5A

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: GC96 Start Date: 09/25/2019 11:50

Analysis Batch Number: 570783 End Date: 09/25/2019 20:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
580-89231-11		09/25/2019 18:14	1	440-0124837-024 9-25-2019 6;14;53 pm -1.d	HaySep N
580-89231-11		09/25/2019 18:14	1	440-0124837-024 9-25-2019 6;14;53 pm -1.d	MolSieve5A
580-89231-12		09/25/2019 18:28	1	440-0124837-025 9-25-2019 6;28;29 pm -1.d	HaySep N
580-89231-12		09/25/2019 18:28	1	440-0124837-025 9-25-2019 6;28;29 pm -1.d	MolSieve5A
ZZZZZ		09/25/2019 18:41	1		HaySep N
ZZZZZ		09/25/2019 18:41	1		MolSieve5A
ZZZZZ		09/25/2019 18:54	1		HaySep N
ZZZZZ		09/25/2019 18:54	1		MolSieve5A
ZZZZZ		09/25/2019 19:07	1		HaySep N
ZZZZZ		09/25/2019 19:07	1		MolSieve5A
ZZZZZ		09/25/2019 19:20	1		HaySep N
ZZZZZ		09/25/2019 19:20	1		MolSieve5A
ZZZZZ		09/25/2019 19:33	1		HaySep N
ZZZZZ		09/25/2019 19:33	1		MolSieve5A
ZZZZZ		09/25/2019 19:45	1		HaySep N
ZZZZZ		09/25/2019 19:45	1		MolSieve5A
CCV 440-570783/32		09/25/2019 19:58	1	440-0124837-032 9-25-2019 7;58;48 pm -1.d	HaySep N
CCV 440-570783/33		09/25/2019 20:11	1	440-0124837-033 9-25-2019 8;11;35 pm -1.d	MolSieve5A

GC VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 570503 Batch Start Date: 09/24/19 10:56 Batch Analyst: Iancu, Elena

Batch Method: RSK-175 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	GCRSKCCVFID 00009	GCRSKCCVTCD 00007	GCRSKFIDLCS 00007
CCVRT 440-570503/2		RSK-175		300 uL	300 uL	n/a SU	0.5 mL		
CCVRT 440-570503/3		RSK-175		300 uL	300 uL	n/a SU		0.8 mL	
LCS 440-570503/4		RSK-175		300 uL	300 uL	n/a SU			
LCSD 440-570503/5		RSK-175		300 uL	300 uL	n/a SU			
LCS 440-570503/6		RSK-175		300 uL	300 uL	n/a SU			0.5 mL
LCSD 440-570503/7		RSK-175		300 uL	300 uL	n/a SU			0.5 mL
MB 440-570503/8		RSK-175		300 uL	300 uL	n/a SU			
CCV 440-570503/19		RSK-175		300 uL	300 uL	n/a SU	0.5 mL		
CCV 440-570503/20		RSK-175		300 uL	300 uL	n/a SU		0.8 mL	
580-89231-L-1	EQB-1-W-190916	RSK-175	T	300 uL	300 uL	<2 SU			
580-89231-D-2	MW-4-W-190916	RSK-175	T	300 uL	300 uL	<2 SU			
580-89231-C-3	MW-5-W-190916	RSK-175	T	300 uL	300 uL	<2 SU			
580-89231-K-4	MW-7-W-190916	RSK-175	T	300 uL	300 uL	<2 SU			
580-89231-K-5	MW-8-W-190916	RSK-175	T	300 uL	300 uL	<2 SU			
580-89231-L-6	MW-9-W-190916	RSK-175	T	300 uL	300 uL	<2 SU			
CCV 440-570503/31		RSK-175		300 uL	300 uL	n/a SU	0.5 mL		
CCV 440-570503/32		RSK-175		300 uL	300 uL	n/a SU		0.8 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	GCRSKTCDLCS 00018					
CCVRT 440-570503/2		RSK-175							
CCVRT 440-570503/3		RSK-175							
LCS 440-570503/4		RSK-175		1 mL					
LCSD 440-570503/5		RSK-175		1 mL					

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 VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 570503 Batch Start Date: 09/24/19 10:56 Batch Analyst: Iancu, Elena

Batch Method: RSK-175 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	GCRSKTCDLCS 00018				
LCS 440-570503/6		RSK-175						
LCSD 440-570503/7		RSK-175						
MB 440-570503/8		RSK-175						
CCV 440-570503/19		RSK-175						
CCV 440-570503/20		RSK-175						
580-89231-L-1	EQB-1-W-190916	RSK-175	T					
580-89231-D-2	MW-4-W-190916	RSK-175	T					
580-89231-C-3	MW-5-W-190916	RSK-175	T					
580-89231-K-4	MW-7-W-190916	RSK-175	T					
580-89231-K-5	MW-8-W-190916	RSK-175	T					
580-89231-L-6	MW-9-W-190916	RSK-175	T					
CCV 440-570503/31		RSK-175						
CCV 440-570503/32		RSK-175						

Batch Notes	
pH Paper ID	HC987808/220416A
Pipette/Syringe/Dispenser ID	A5000A9/A5000A10

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 VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 570783 Batch Start Date: 09/25/19 11:50 Batch Analyst: Iancu, Elena

Batch Method: RSK-175 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	GCRSKCCVFID 00009	GCRSKCCVTCD 00007	GCRSKFIDLCS 00007
CCVRT 440-570783/2		RSK-175		300 uL	300 uL	n/a SU	0.5 mL		
CCVRT 440-570783/4		RSK-175		300 uL	300 uL	n/a SU		0.8 mL	
LCS 440-570783/5		RSK-175		300 uL	300 uL	n/a SU			
LCSD 440-570783/6		RSK-175		300 uL	300 uL	n/a SU			
LCS 440-570783/7		RSK-175		300 uL	300 uL	n/a SU			0.5 mL
LCSD 440-570783/8		RSK-175		300 uL	300 uL	n/a SU			0.5 mL
MB 440-570783/9		RSK-175		300 uL	300 uL	n/a SU			
580-89231-L-7	MW-6-W-190916	RSK-175	T	300 uL	300 uL	<2 SU			
580-89231-L-8	MW-3-W-190916	RSK-175	T	300 uL	300 uL	<2 SU			
580-89231-K-9	MW-2-W-190916	RSK-175	T	300 uL	300 uL	<2 SU			
580-89231-K-10	MW-10-W-190916	RSK-175	T	300 uL	300 uL	<2 SU			
CCV 440-570783/22		RSK-175		300 uL	300 uL	n/a SU	0.5 mL		
CCV 440-570783/23		RSK-175		300 uL	300 uL	n/a SU		0.8 mL	
580-89231-D-11	BD-1-W-190916	RSK-175	T	300 uL	300 uL	<2 SU			
580-89231-E-12	Trip Blank	RSK-175	T	300 uL	300 uL	<2 SU			
CCV 440-570783/32		RSK-175		300 uL	300 uL	n/a SU	0.5 mL		
CCV 440-570783/33		RSK-175		300 uL	300 uL	n/a SU		0.8 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	GCRSKTCDLCS 00018					
CCVRT 440-570783/2		RSK-175							
CCVRT 440-570783/4		RSK-175							
LCS 440-570783/5		RSK-175		1 mL					
LCSD 440-570783/6		RSK-175		1 mL					

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 VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Irvine Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 570783 Batch Start Date: 09/25/19 11:50 Batch Analyst: Iancu, Elena

Batch Method: RSK-175 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	GCRSKTCDLCS 00018					
LCS 440-570783/7		RSK-175							
LCSD 440-570783/8		RSK-175							
MB 440-570783/9		RSK-175							
580-89231-L-7	MW-6-W-190916	RSK-175	T						
580-89231-L-8	MW-3-W-190916	RSK-175	T						
580-89231-K-9	MW-2-W-190916	RSK-175	T						
580-89231-K-10	MW-10-W-190916	RSK-175	T						
CCV 440-570783/22		RSK-175							
CCV 440-570783/23		RSK-175							
580-89231-D-11	BD-1-W-190916	RSK-175	T						
580-89231-E-12	Trip Blank	RSK-175	T						
CCV 440-570783/32		RSK-175							
CCV 440-570783/33		RSK-175							

Batch Notes	
pH Paper ID	HC987808/220416A
Pipette/Syringe/Dispenser ID	A5000A9/A5000A10

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

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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.: 580-89231-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): ZB-1HT ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	OTPH #
EQB-1-W-190916	580-89231-1	75
MW-7-W-190916	580-89231-4	78
MW-8-W-190916	580-89231-5	62
MW-9-W-190916	580-89231-6	76
MW-6-W-190916	580-89231-7	82
MW-3-W-190916	580-89231-8	75
MW-2-W-190916	580-89231-9	79
MW-10-W-190916	580-89231-10	82
	MB 580-312548/1-A	91
	LCS 580-312548/2-A	78
	LCSD 580-312548/3-A	77

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.: 580-89231-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 092819a\_005.D

Lab ID: LCS 580-312548/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
DRO (nC10-<nC25)	2.00	1.79	90	75-125	

# Column to be used to flag recovery and RPD values

FORM III AK102 & 103

FORM III  
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 092819a\_006.D

Lab ID: LCSD 580-312548/3-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
DRO (nC10-<nC25)	2.00	1.76	88	2	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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 092819a\_004.D Lab Sample ID: MB 580-312548/1-A  
 Matrix: Water Date Extracted: 09/27/2019 12:12  
 Instrument ID: TAC020 Date Analyzed: 09/28/2019 13:09  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-312548/2-A	092819a_005 .D	09/28/2019 13:29
	LCSD 580-312548/3-A	092819a_006 .D	09/28/2019 13:49
EQB-1-W-190916	580-89231-1	092819a_020 .D	09/28/2019 18:31
MW-7-W-190916	580-89231-4	092819a_021 .D	09/28/2019 18:51
MW-8-W-190916	580-89231-5	092819a_022 .D	09/28/2019 19:12
MW-9-W-190916	580-89231-6	092819a_023 .D	09/28/2019 19:32
MW-6-W-190916	580-89231-7	092819a_024 .D	09/28/2019 19:52
MW-3-W-190916	580-89231-8	092819a_026 .D	09/28/2019 20:32
MW-2-W-190916	580-89231-9	092819a_027 .D	09/28/2019 20:52
MW-10-W-190916	580-89231-10	092819a_028 .D	09/28/2019 21:13

FORM VIII  
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICRT 580-309293/7 Date Analyzed: 08/26/2019 16:23  
 Instrument ID: TAC020 GC Column: ZB-1HT ID: 0.25 (mm)  
 Lab File ID (Standard): 082419a\_007z.D Heated Purge: (Y/N) N  
 Calibration ID: 28142

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				OTPH	NTC	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				3.79	6.12	
UPPER LIMIT				3.84	6.17	
LOWER LIMIT				3.74	6.07	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
ICRT 580-309293/7		08/26/2019 16:23	082419a_007z.D	3.79	6.12	
ICV 580-309293/13		08/26/2019 18:24	082419a_013z.D	3.79	6.13	

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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVRT 580-312623/3 Date Analyzed: 09/28/2019 12:48  
 Instrument ID: TAC020 GC Column: ZB-1HT ID: 0.25 (mm)  
 Lab File ID (Standard): 092819a\_003.D Heated Purge: (Y/N) N  
 Calibration ID: 28142

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				OTPH		
				RT #		
CONTINUING CALIBRATION SURROGATE				3.77		
UPPER LIMIT				3.82		
LOWER LIMIT				3.72		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-312623/3		09/28/2019 12:48	092819a_003.D	3.77		
MB 580-312548/1-A		09/28/2019 13:09	092819a_004.D	3.76		
LCS 580-312548/2-A		09/28/2019 13:29	092819a_005.D	3.77		
LCSD 580-312548/3-A		09/28/2019 13:49	092819a_006.D	3.76		
CCV 580-312623/14		09/28/2019 16:30	092819a_014.D	3.77		
580-89231-1	EQB-1-W-190916	09/28/2019 18:31	092819a_020.D	3.76		
580-89231-4	MW-7-W-190916	09/28/2019 18:51	092819a_021.D	3.77		
580-89231-5	MW-8-W-190916	09/28/2019 19:12	092819a_022.D	3.76		
580-89231-6	MW-9-W-190916	09/28/2019 19:32	092819a_023.D	3.76		
580-89231-7	MW-6-W-190916	09/28/2019 19:52	092819a_024.D	3.76		
CCV 580-312623/25		09/28/2019 20:12	092819a_025.D	3.76		
580-89231-8	MW-3-W-190916	09/28/2019 20:32	092819a_026.D	3.76		
580-89231-9	MW-2-W-190916	09/28/2019 20:52	092819a_027.D	3.76		
580-89231-10	MW-10-W-190916	09/28/2019 21:13	092819a_028.D	3.76		
CCV 580-312623/36		09/28/2019 23:54	092819a_036.D	3.76		

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.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EQB-1-W-190916 Lab Sample ID: 580-89231-1  
 Matrix: Water Lab File ID: 092819a\_020.D  
 Analysis Method: AK102 & 103 Date Collected: 09/16/2019 10:00  
 Extraction Method: 3510C Date Extracted: 09/27/2019 12:13  
 Sample wt/vol: 212.5 (mL) Date Analyzed: 09/28/2019 18:31  
 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.: 312623 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	ND		0.13	0.088

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	75		50-150



FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-7-W-190916 Lab Sample ID: 580-89231-4  
 Matrix: Water Lab File ID: 092819a\_021.D  
 Analysis Method: AK102 & 103 Date Collected: 09/16/2019 11:30  
 Extraction Method: 3510C Date Extracted: 09/27/2019 12:13  
 Sample wt/vol: 241.5 (mL) Date Analyzed: 09/28/2019 18:51  
 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.: 312623 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	1.3		0.11	0.078

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-8-W-190916 Lab Sample ID: 580-89231-5  
 Matrix: Water Lab File ID: 092819a\_022.D  
 Analysis Method: AK102 & 103 Date Collected: 09/16/2019 11:50  
 Extraction Method: 3510C Date Extracted: 09/27/2019 12:13  
 Sample wt/vol: 228.7(mL) Date Analyzed: 09/28/2019 19:12  
 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.: 312623 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	1.4		0.12	0.082

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-9-W-190916 Lab Sample ID: 580-89231-6  
 Matrix: Water Lab File ID: 092819a\_023.D  
 Analysis Method: AK102 & 103 Date Collected: 09/16/2019 12:15  
 Extraction Method: 3510C Date Extracted: 09/27/2019 12:13  
 Sample wt/vol: 246.5 (mL) Date Analyzed: 09/28/2019 19:32  
 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.: 312623 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.94		0.11	0.076

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	76		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-6-W-190916 Lab Sample ID: 580-89231-7  
 Matrix: Water Lab File ID: 092819a\_024.D  
 Analysis Method: AK102 & 103 Date Collected: 09/16/2019 12:45  
 Extraction Method: 3510C Date Extracted: 09/27/2019 12:13  
 Sample wt/vol: 246.5 (mL) Date Analyzed: 09/28/2019 19:52  
 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.: 312623 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.50		0.11	0.076

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	82		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-3-W-190916 Lab Sample ID: 580-89231-8  
 Matrix: Water Lab File ID: 092819a\_026.D  
 Analysis Method: AK102 & 103 Date Collected: 09/16/2019 13:20  
 Extraction Method: 3510C Date Extracted: 09/27/2019 12:13  
 Sample wt/vol: 245.3(mL) Date Analyzed: 09/28/2019 20:32  
 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.: 312623 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.50		0.11	0.076

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	75		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-2-W-190916 Lab Sample ID: 580-89231-9  
 Matrix: Water Lab File ID: 092819a\_027.D  
 Analysis Method: AK102 & 103 Date Collected: 09/16/2019 13:50  
 Extraction Method: 3510C Date Extracted: 09/27/2019 12:13  
 Sample wt/vol: 217.2 (mL) Date Analyzed: 09/28/2019 20:52  
 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.: 312623 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	1.4		0.13	0.086

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-10-W-190916 Lab Sample ID: 580-89231-10  
 Matrix: Water Lab File ID: 092819a\_028.D  
 Analysis Method: AK102 & 103 Date Collected: 09/16/2019 14:45  
 Extraction Method: 3510C Date Extracted: 09/27/2019 12:13  
 Sample wt/vol: 243.5 (mL) Date Analyzed: 09/28/2019 21:13  
 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.: 312623 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.54		0.11	0.077

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	82		50-150

Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\TAC020\20190825-67057.b\082419a\_002z.D

Injection Date: 26-Aug-2019 14:43:30

Instrument ID: TAC020

Lims ID: RTC

Client ID:

Operator ID: jcm

ALS Bottle#: 2

Worklist Smp#: 2

Injection Vol: 1.0 ul

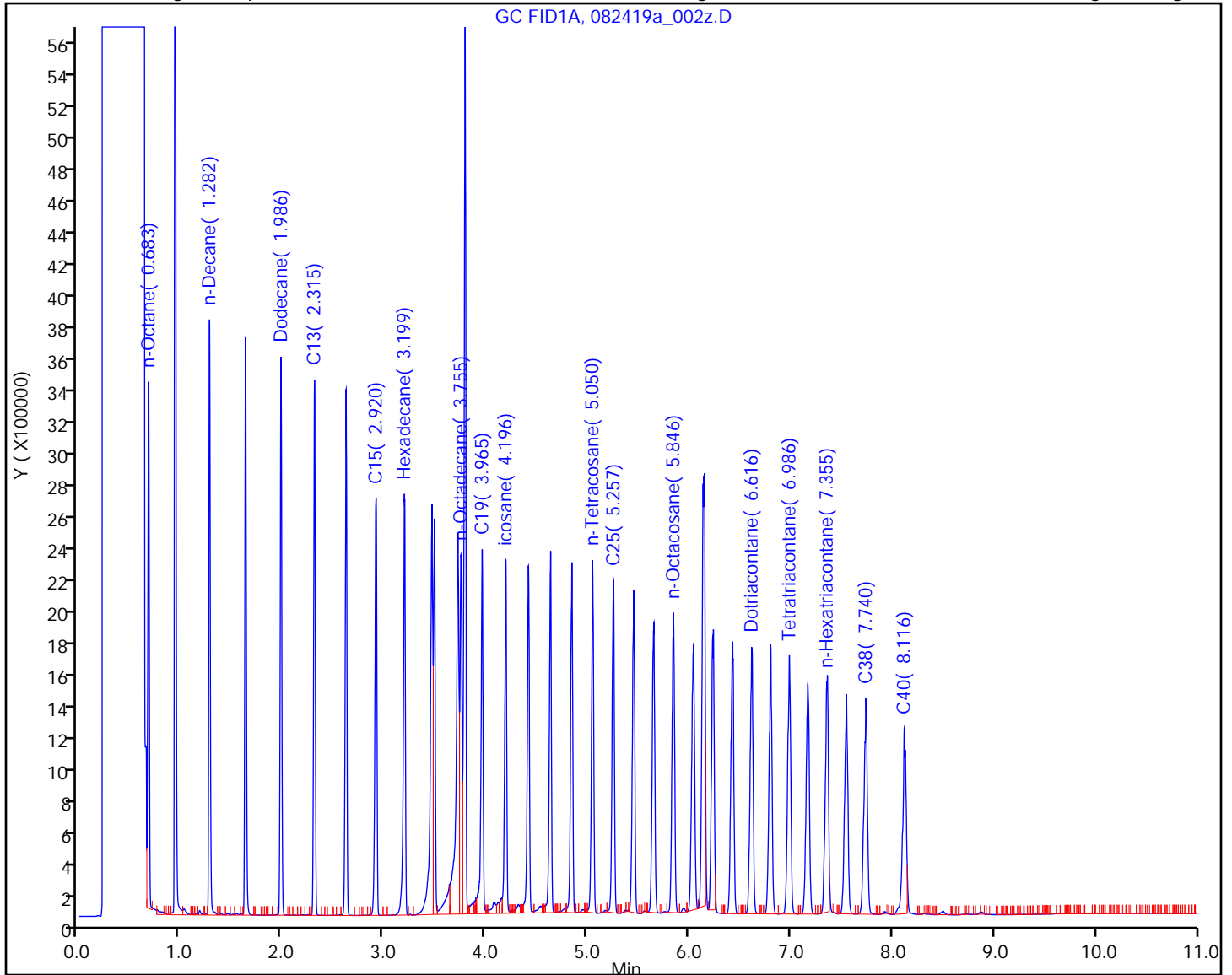
Dil. Factor: 1.0000

Method: TPH-Front\_TAC020

Limit Group: Ak 102 DRO AK103 RRO

Column: ZB-1 High Temp. Inferno (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1





FORM VI  
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1 Analy Batch No.: 309293

SDG No.: \_\_\_\_\_

Instrument ID: TAC020 GC Column: ZB-1HT ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2019 15:03 Calibration End Date: 08/26/2019 18:04 Calibration ID: 28142

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-309293/12	082419a_012z.D
Level 2	IC 580-309293/11	082419a_011z.D
Level 3	IC 580-309293/10	082419a_010z.D
Level 4	IC 580-309293/9	082419a_009z.D
Level 5	IC 580-309293/8	082419a_008z.D
Level 6	ICRT 580-309293/7	082419a_007z.D
Level 7	IC 580-309293/6	082419a_006z.D
Level 8	IC 580-309293/5	082419a_005z.D
Level 9	IC 580-309293/4	082419a_004z.D
Level 10	IC 580-309293/3	082419a_003z.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)	3.196	3.196	3.196	3.196	3.196	3.196	3.196	3.196	3.196	3.196	1.230 - 5.162	3.196
RRO (nC25-nC36)	6.285	6.285	6.285	6.285	6.285	6.285	6.285	6.285	6.285	6.285	5.162 - 7.408	6.285
o-Terphenyl	3.788	3.788	3.785	3.785	3.784	3.788	3.793	3.799	++++	++++	3.297 - 4.297	3.789
n-Triacontane-d62	6.115	6.118	6.117	6.115	6.118	6.119	6.138	6.154	6.178	6.289	5.888 - 6.388	6.146

FORM VI  
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1 Analy Batch No.: 309293

SDG No.: \_\_\_\_\_

Instrument ID: TAC020 GC Column: ZB-1HT ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2019 15:03 Calibration End Date: 08/26/2019 18:04 Calibration ID: 28142

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-309293/12	082419a_012z.D
Level 2	IC 580-309293/11	082419a_011z.D
Level 3	IC 580-309293/10	082419a_010z.D
Level 4	IC 580-309293/9	082419a_009z.D
Level 5	IC 580-309293/8	082419a_008z.D
Level 6	ICRT 580-309293/7	082419a_007z.D
Level 7	IC 580-309293/6	082419a_006z.D
Level 8	IC 580-309293/5	082419a_005z.D
Level 9	IC 580-309293/4	082419a_004z.D
Level 10	IC 580-309293/3	082419a_003z.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4		B	M1	M2								
	LVL 5	LVL 6	LVL 7	LVL 8												
DRO (nC10-<nC25)	208878 149874 142963	171317 147403 141858	159653 149456	154379 143881	Lin2	619456.978	145270.705			2.1			1.0000			0.9900
RRO (nC25-nC36)	124740 78832 74187	92125 76231 73988	84822 76213	80578 74184	Lin2	473583.300	74648.5964			3.5			0.9990			0.9900
o-Terphenyl	163333 148666 ++++	155166 138585 ++++	153976 130657	155430 125821	Lin2	5410.69603	140054.150			7.2			0.9940			0.9900
n-Triacontane-d62	127017 110544 115640	123934 112204 134840	115093 114384	113399 118588	Ave		118564.300			6.5		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.: 580-89231-1 Analy Batch No.: 309293

SDG No.: \_\_\_\_\_

Instrument ID: TAC020 GC Column: ZB-1HT ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2019 15:03 Calibration End Date: 08/26/2019 18:04 Calibration ID: 28142

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-309293/12	082419a_012z.D
Level 2	IC 580-309293/11	082419a_011z.D
Level 3	IC 580-309293/10	082419a_010z.D
Level 4	IC 580-309293/9	082419a_009z.D
Level 5	IC 580-309293/8	082419a_008z.D
Level 6	ICRT 580-309293/7	082419a_007z.D
Level 7	IC 580-309293/6	082419a_006z.D
Level 8	IC 580-309293/5	082419a_005z.D
Level 9	IC 580-309293/4	082419a_004z.D
Level 10	IC 580-309293/3	082419a_003z.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)	Lin2	2088779	3426335	7982630	15437873	29974895	10.0	20.0	50.0	100	200
		73701316	149456262	287761103	714814348	1418577555	500	1000	2000	5000	10000
RRO (nC25-nC36)	Lin2	1247396	1842497	4241106	8057822	15766304	10.0	20.0	50.0	100	200
		38115477	76212648	148368386	370933853	739876151	500	1000	2000	5000	10000
o-Terphenyl	Lin2	32536	61818	153360	309616	592287	0.199	0.398	0.996	1.99	3.98
		1380302	2602687	5012719	+++++	+++++	9.96	19.9	39.8	+++++	+++++
n-Triacontane-d62	Ave	25505	49772	115553	227706	443943	0.201	0.402	1.00	2.01	4.02
		1126533	2296834	4762507	11610220	27075790	10.0	20.1	40.2	100	201

Curve Type Legend:

Ave = Average  
Lin2 = Linear 1/conc^2

FORM VII  
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-309293/13 Calibration Date: 08/26/2019 18:24  
 Instrument ID: TAC020 Calib Start Date: 08/26/2019 15:03  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 08/26/2019 18:04  
 Lab File ID: 082419a\_013z.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		141432		483	500	-3.5	25.0
RRO (nC25-nC36)	Lin2		68939		455	500	-8.9	25.0
o-Terphenyl	Lin2		136974		19.4	19.9	-2.4	25.0
n-Triacontane-d62	Ave	118564	113652		19.2	20.1	-4.1	25.0

FORM VII  
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-309293/13 Calibration Date: 08/26/2019 18:24  
 Instrument ID: TAC020 Calib Start Date: 08/26/2019 15:03  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 08/26/2019 18:04  
 Lab File ID: 082419a\_013z.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	3.20	1.23	5.16
RRO (nC25-nC36)	6.29	5.16	7.41
o-Terphenyl	3.79	3.29	4.29
n-Triacontane-d62	6.13	5.87	6.37

FORM VII  
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 580-312623/3 Calibration Date: 09/28/2019 12:48  
 Instrument ID: TAC020 Calib Start Date: 08/26/2019 15:03  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 08/26/2019 18:04  
 Lab File ID: 092819a\_003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		148887		508	500	1.6	25.0
RRO (nC25-nC36)	Lin2		76471		506	500	1.2	25.0
o-Terphenyl	Lin2		129572		9.18	9.96	-7.9	25.0

FORM VII  
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 580-312623/3 Calibration Date: 09/28/2019 12:48  
 Instrument ID: TAC020 Calib Start Date: 08/26/2019 15:03  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 08/26/2019 18:04  
 Lab File ID: 092819a\_003.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	3.18	1.22	5.14
RRO (nC25-nC36)	6.31	5.14	7.47
o-Terphenyl	3.77	3.27	4.27

FORM VII  
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312623/14 Calibration Date: 09/28/2019 16:30  
 Instrument ID: TAC020 Calib Start Date: 08/26/2019 15:03  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 08/26/2019 18:04  
 Lab File ID: 092819a\_014.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		145652		497	500	-0.6	25.0
RRO (nC25-nC36)	Lin2		76644		507	500	1.4	25.0
o-Terphenyl	Lin2		123305		8.73	9.96	-12.3	25.0



FORM VII  
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312623/14 Calibration Date: 09/28/2019 16:30  
 Instrument ID: TAC020 Calib Start Date: 08/26/2019 15:03  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 08/26/2019 18:04  
 Lab File ID: 092819a\_014.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	3.18	1.22	5.14
RRO (nC25-nC36)	6.31	5.14	7.47
o-Terphenyl	3.77	3.28	4.28

FORM VII  
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312623/25 Calibration Date: 09/28/2019 20:12  
 Instrument ID: TAC020 Calib Start Date: 08/26/2019 15:03  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 08/26/2019 18:04  
 Lab File ID: 092819a\_025.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		151067		516	500	3.1	25.0
RRO (nC25-nC36)	Lin2		79266		525	500	4.9	25.0
o-Terphenyl	Lin2		137511		9.74	9.96	-2.2	25.0

FORM VII  
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312623/25 Calibration Date: 09/28/2019 20:12  
 Instrument ID: TAC020 Calib Start Date: 08/26/2019 15:03  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 08/26/2019 18:04  
 Lab File ID: 092819a\_025.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	3.18	1.22	5.14
RRO (nC25-nC36)	6.31	5.14	7.47
o-Terphenyl	3.76	3.28	4.28

FORM VII  
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312623/36 Calibration Date: 09/28/2019 23:54  
 Instrument ID: TAC020 Calib Start Date: 08/26/2019 15:03  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 08/26/2019 18:04  
 Lab File ID: 092819a\_036.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		150902		515	500	3.0	25.0
RRO (nC25-nC36)	Lin2		78773		521	500	4.3	25.0
o-Terphenyl	Lin2		133952		9.49	9.96	-4.7	25.0

FORM VII  
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312623/36 Calibration Date: 09/28/2019 23:54  
 Instrument ID: TAC020 Calib Start Date: 08/26/2019 15:03  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 08/26/2019 18:04  
 Lab File ID: 092819a\_036.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	3.18	1.22	5.14
RRO (nC25-nC36)	6.31	5.14	7.47
o-Terphenyl	3.76	3.28	4.28

Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\TAC020\20190928-67711.b\092819a\_002.D

Injection Date: 28-Sep-2019 12:28:30

Instrument ID: TAC020

Lims ID: RTC

Client ID:

Operator ID: jcm

ALS Bottle#: 2

Worklist Smp#: 2

Injection Vol: 1.0 ul

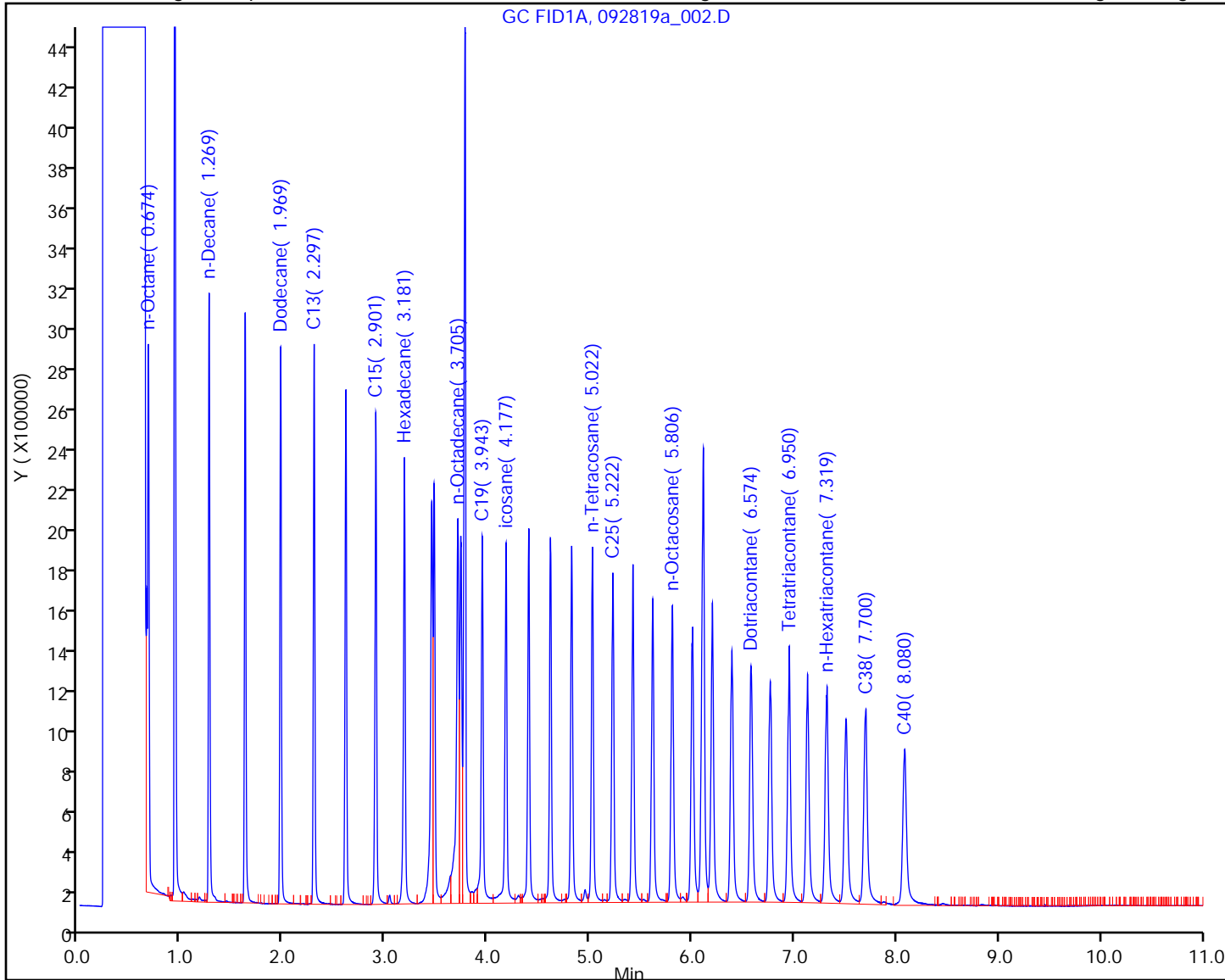
Dil. Factor: 1.0000

Method: TPH-Front\_TAC020

Limit Group: Ak 102 DRO AK103 RRO

Column: ZB-1 High Temp. Inferno (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-312548/1-A  
 Matrix: Water Lab File ID: 092819a\_004.D  
 Analysis Method: AK102 & 103 Date Collected: \_\_\_\_\_  
 Extraction Method: 3510C Date Extracted: 09/27/2019 12:12  
 Sample wt/vol: 250 (mL) Date Analyzed: 09/28/2019 13:09  
 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.: 312623 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	91		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-312548/2-A  
 Matrix: Water Lab File ID: 092819a\_005.D  
 Analysis Method: AK102 & 103 Date Collected: \_\_\_\_\_  
 Extraction Method: 3510C Date Extracted: 09/27/2019 12:12  
 Sample wt/vol: 250 (mL) Date Analyzed: 09/28/2019 13:29  
 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.: 312623 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	1.79		0.11	0.075

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		50-150



FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-312548/3-A  
 Matrix: Water Lab File ID: 092819a\_006.D  
 Analysis Method: AK102 & 103 Date Collected: \_\_\_\_\_  
 Extraction Method: 3510C Date Extracted: 09/27/2019 12:12  
 Sample wt/vol: 250 (mL) Date Analyzed: 09/28/2019 13:49  
 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.: 312623 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	1.76		0.11	0.075

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	77		50-150

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC020 Start Date: 08/26/2019 14:43

Analysis Batch Number: 309293 End Date: 08/27/2019 04:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-309293/2		08/26/2019 14:43	1		ZB-1HT 0.25 (mm)
IC 580-309293/3		08/26/2019 15:03	1	082419a_003z.D	ZB-1HT 0.25 (mm)
IC 580-309293/4		08/26/2019 15:23	1	082419a_004z.D	ZB-1HT 0.25 (mm)
IC 580-309293/5		08/26/2019 15:43	1	082419a_005z.D	ZB-1HT 0.25 (mm)
IC 580-309293/6		08/26/2019 16:03	1	082419a_006z.D	ZB-1HT 0.25 (mm)
ICRT 580-309293/7		08/26/2019 16:23	1	082419a_007z.D	ZB-1HT 0.25 (mm)
IC 580-309293/8		08/26/2019 16:44	1	082419a_008z.D	ZB-1HT 0.25 (mm)
IC 580-309293/9		08/26/2019 17:04	1	082419a_009z.D	ZB-1HT 0.25 (mm)
IC 580-309293/10		08/26/2019 17:24	1	082419a_010z.D	ZB-1HT 0.25 (mm)
IC 580-309293/11		08/26/2019 17:44	1	082419a_011z.D	ZB-1HT 0.25 (mm)
IC 580-309293/12		08/26/2019 18:04	1	082419a_012z.D	ZB-1HT 0.25 (mm)
ICV 580-309293/13		08/26/2019 18:24	1	082419a_013z.D	ZB-1HT 0.25 (mm)
ZZZZZ		08/26/2019 19:45	1		ZB-1HT 0.25 (mm)
ZZZZZ		08/26/2019 20:05	1		ZB-1HT 0.25 (mm)
ZZZZZ		08/26/2019 20:25	1		ZB-1HT 0.25 (mm)
CCV 580-309293/24		08/26/2019 22:06	1		ZB-1HT 0.25 (mm)
ZZZZZ		08/27/2019 00:27	1		ZB-1HT 0.25 (mm)
ZZZZZ		08/27/2019 00:48	1		ZB-1HT 0.25 (mm)
ZZZZZ		08/27/2019 01:08	1		ZB-1HT 0.25 (mm)
ZZZZZ		08/27/2019 01:28	1		ZB-1HT 0.25 (mm)
CCV 580-309293/35		08/27/2019 01:48	1		ZB-1HT 0.25 (mm)
ZZZZZ		08/27/2019 02:08	1		ZB-1HT 0.25 (mm)
ZZZZZ		08/27/2019 02:28	1		ZB-1HT 0.25 (mm)
ZZZZZ		08/27/2019 02:48	1		ZB-1HT 0.25 (mm)
ZZZZZ		08/27/2019 03:09	1		ZB-1HT 0.25 (mm)
ZZZZZ		08/27/2019 03:29	1		ZB-1HT 0.25 (mm)
ZZZZZ		08/27/2019 03:49	1		ZB-1HT 0.25 (mm)
ZZZZZ		08/27/2019 04:09	1		ZB-1HT 0.25 (mm)
ZZZZZ		08/27/2019 04:29	1		ZB-1HT 0.25 (mm)
CCV 580-309293/44		08/27/2019 04:49	1		ZB-1HT 0.25 (mm)

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC020 Start Date: 09/28/2019 12:28

Analysis Batch Number: 312623 End Date: 09/29/2019 06:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-312623/2		09/28/2019 12:28	1	092819a_002.D	ZB-1HT 0.25 (mm)
CCVRT 580-312623/3		09/28/2019 12:48	1	092819a_003.D	ZB-1HT 0.25 (mm)
MB 580-312548/1-A		09/28/2019 13:09	1	092819a_004.D	ZB-1HT 0.25 (mm)
LCS 580-312548/2-A		09/28/2019 13:29	1	092819a_005.D	ZB-1HT 0.25 (mm)
LCSD 580-312548/3-A		09/28/2019 13:49	1	092819a_006.D	ZB-1HT 0.25 (mm)
ZZZZZ		09/28/2019 14:09	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/28/2019 14:29	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/28/2019 14:49	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/28/2019 15:10	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/28/2019 15:30	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/28/2019 15:50	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/28/2019 16:10	1		ZB-1HT 0.25 (mm)
CCV 580-312623/14		09/28/2019 16:30	1	092819a_014.D	ZB-1HT 0.25 (mm)
ZZZZZ		09/28/2019 16:50	1		ZB-1HT 0.25 (mm)
580-89231-1		09/28/2019 18:31	1	092819a_020.D	ZB-1HT 0.25 (mm)
580-89231-4		09/28/2019 18:51	1	092819a_021.D	ZB-1HT 0.25 (mm)
580-89231-5		09/28/2019 19:12	1	092819a_022.D	ZB-1HT 0.25 (mm)
580-89231-6		09/28/2019 19:32	1	092819a_023.D	ZB-1HT 0.25 (mm)
580-89231-7		09/28/2019 19:52	1	092819a_024.D	ZB-1HT 0.25 (mm)
CCV 580-312623/25		09/28/2019 20:12	1	092819a_025.D	ZB-1HT 0.25 (mm)
580-89231-8		09/28/2019 20:32	1	092819a_026.D	ZB-1HT 0.25 (mm)
580-89231-9		09/28/2019 20:52	1	092819a_027.D	ZB-1HT 0.25 (mm)
580-89231-10		09/28/2019 21:13	1	092819a_028.D	ZB-1HT 0.25 (mm)
ZZZZZ		09/28/2019 21:33	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/28/2019 21:53	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/28/2019 22:13	1		ZB-1HT 0.25 (mm)
CCV 580-312623/36		09/28/2019 23:54	1	092819a_036.D	ZB-1HT 0.25 (mm)
ZZZZZ		09/29/2019 01:14	10		ZB-1HT 0.25 (mm)
ZZZZZ		09/29/2019 01:35	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/29/2019 01:55	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/29/2019 02:15	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/29/2019 02:35	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/29/2019 02:55	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/29/2019 03:15	1		ZB-1HT 0.25 (mm)
CCV 580-312623/47		09/29/2019 03:36	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/29/2019 03:56	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/29/2019 04:16	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/29/2019 04:36	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/29/2019 04:56	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/29/2019 05:16	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/29/2019 05:37	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/29/2019 05:57	1		ZB-1HT 0.25 (mm)
ZZZZZ		09/29/2019 06:17	1		ZB-1HT 0.25 (mm)
CCV 580-312623/56		09/29/2019 06:37	1		ZB-1HT 0.25 (mm)

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 312548 Batch Start Date: 09/27/19 12:12 Batch Analyst: O'Shaughnessy, Patrick R

Batch Method: 3510C Batch End Date: 09/27/19 19:19

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 580-312548/1		3510C, AK102 & 103				250 mL	1 mL	7.0 SU	2.0 SU
LCS 580-312548/2		3510C, AK102 & 103				250 mL	1 mL	7.0 SU	2.0 SU
LCSD 580-312548/3		3510C, AK102 & 103				250 mL	1 mL	7.0 SU	2.0 SU
580-89231-B-1	EQB-1-W-190916	3510C, AK102 & 103	T	00377.19 g	00164.74 g	212.5 mL	1 mL	2.0 SU	2.0 SU
580-89231-A-4	MW-7-W-190916	3510C, AK102 & 103	T	00407.91 g	00166.38 g	241.5 mL	1 mL	2.0 SU	2.0 SU
580-89231-A-5	MW-8-W-190916	3510C, AK102 & 103	T	00395.87 g	00167.22 g	228.7 mL	1 mL	2.0 SU	2.0 SU
580-89231-A-6	MW-9-W-190916	3510C, AK102 & 103	T	00412.40 g	00165.90 g	246.5 mL	1 mL	2.0 SU	2.0 SU
580-89231-B-7	MW-6-W-190916	3510C, AK102 & 103	T	00413.23 g	00166.77 g	246.5 mL	1 mL	2.0 SU	2.0 SU
580-89231-A-8	MW-3-W-190916	3510C, AK102 & 103	T	00411.76 g	00166.48 g	245.3 mL	1 mL	2.0 SU	2.0 SU
580-89231-A-9	MW-2-W-190916	3510C, AK102 & 103	T	00383.52 g	00166.29 g	217.2 mL	1 mL	2.0 SU	2.0 SU
580-89231-A-10	MW-10-W-190916	3510C, AK102 & 103	T	00410.29 g	00166.84 g	243.5 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 580-312548/1		3510C, AK102 & 103			100 uL				
LCS 580-312548/2		3510C, AK102 & 103		100 uL	100 uL				
LCSD 580-312548/3		3510C, AK102 & 103		100 uL	100 uL				
580-89231-B-1	EQB-1-W-190916	3510C, AK102 & 103	T		100 uL				
580-89231-A-4	MW-7-W-190916	3510C, AK102 & 103	T		100 uL				
580-89231-A-5	MW-8-W-190916	3510C, AK102 & 103	T		100 uL				
580-89231-A-6	MW-9-W-190916	3510C, AK102 & 103	T		100 uL				
580-89231-B-7	MW-6-W-190916	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.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 312548 Batch Start Date: 09/27/19 12:12 Batch Analyst: O'Shaughnessy, Patrick R

Batch Method: 3510C Batch End Date: 09/27/19 19:19

Lab Sample ID	Client Sample ID	Method Chain	Basis	TPH_Water_Spk 00022	TPH_WaterSurr 00049				
580-89231-A-8	MW-3-W-190916	3510C, AK102 & 103	T		100 uL				
580-89231-A-9	MW-2-W-190916	3510C, AK102 & 103	T		100 uL				
580-89231-A-10	MW-10-W-190916	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.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 312548 Batch Start Date: 09/27/19 12:12

Batch Analyst: O'Shaughnessy, Patrick R

Batch Method: 3510C Batch End Date: 09/27/19 19:19

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	18.8 Degrees C
Equipment ID - Concentration 1	Steam Bath 1
Equipment ID - Concentration 2	Turbovap 5
Analyst ID - Extraction	PRO/TL
Filter ID	2416954
Method/Fraction	3510C_LVI/ AK102_103/NWTPH_Dx
Na2SO4 ID	2400382
pH Indicator ID	6901002 pH 0.0-6.0/6901003 pH 4.0-10.0
Pipette/Syringe/Dispenser ID	MP1
Prep Solvent ID	2450659 DCM
Prep Solvent Volume Used	120 mL
Residual Chlorine Indicator ID	fisher cat#14-860
Analyst ID - Spike Analyst	TL
Analyst ID - Spike Witness Analyst	PRO
Sufficient Volume for Batch QC	MB, LCS, LCSD
Thermometer ID - Concentration 1	61013-040-1
Concentration 1 Uncorrected Temperature	70-75 Degrees C
Concentration 2 Uncorrected Temperature	21.0 Degrees C
Vial Lot Number	19103141

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.

# METALS

COVER PAGE  
METALS

Lab Name: Eurofins TestAmerica, Seattle Job Number: 580-89231-1

SDG No.: \_\_\_\_\_

Project: Chevron Site 351860 Anchorage, Alaska

Client Sample ID	Lab Sample ID
<u>EQB-1-W-190916</u>	<u>580-89231-1</u>
<u>MW-4-W-190916</u>	<u>580-89231-2</u>
<u>MW-5-W-190916</u>	<u>580-89231-3</u>
<u>MW-7-W-190916</u>	<u>580-89231-4</u>
<u>MW-8-W-190916</u>	<u>580-89231-5</u>
<u>MW-9-W-190916</u>	<u>580-89231-6</u>
<u>MW-6-W-190916</u>	<u>580-89231-7</u>
<u>MW-3-W-190916</u>	<u>580-89231-8</u>
<u>MW-2-W-190916</u>	<u>580-89231-9</u>
<u>MW-10-W-190916</u>	<u>580-89231-10</u>
<u>BD-1-W-190916</u>	<u>580-89231-11</u>

Comments:



1A-IN  
 INORGANIC ANALYSIS DATA SHEET  
 METALS - TOTAL RECOVERABLE

Client Sample ID: EQB-1-W-190916

Lab Sample ID: 580-89231-1

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 10:00

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	ND	0.030	0.0027	mg/L			1	6010D

1A-IN  
 INORGANIC ANALYSIS DATA SHEET  
 METALS - TOTAL RECOVERABLE

Client Sample ID: MW-4-W-190916

Lab Sample ID: 580-89231-2

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 10:30

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	0.0058	0.030	0.0027	mg/L	J		1	6010D

1A-IN  
 INORGANIC ANALYSIS DATA SHEET  
 METALS - TOTAL RECOVERABLE

Client Sample ID: MW-5-W-190916

Lab Sample ID: 580-89231-3

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 10:30

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	0.0029	0.030	0.0027	mg/L	J		1	6010D

1A-IN  
 INORGANIC ANALYSIS DATA SHEET  
 METALS - TOTAL RECOVERABLE

Client Sample ID: MW-7-W-190916

Lab Sample ID: 580-89231-4

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 11:30

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	0.0028	0.030	0.0027	mg/L	J		1	6010D

1A-IN  
 INORGANIC ANALYSIS DATA SHEET  
 METALS - TOTAL RECOVERABLE

Client Sample ID: MW-8-W-190916

Lab Sample ID: 580-89231-5

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 11:50

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	0.011	0.030	0.0027	mg/L	J		1	6010D

1A-IN  
 INORGANIC ANALYSIS DATA SHEET  
 METALS - TOTAL RECOVERABLE

Client Sample ID: MW-9-W-190916

Lab Sample ID: 580-89231-6

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 12:15

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	ND	0.030	0.0027	mg/L			1	6010D

1A-IN  
 INORGANIC ANALYSIS DATA SHEET  
 METALS - TOTAL RECOVERABLE

Client Sample ID: MW-6-W-190916

Lab Sample ID: 580-89231-7

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 12:45

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	0.0040	0.030	0.0027	mg/L	J		1	6010D

1A-IN  
 INORGANIC ANALYSIS DATA SHEET  
 METALS - TOTAL RECOVERABLE

Client Sample ID: MW-3-W-190916

Lab Sample ID: 580-89231-8

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 13:20

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	ND	0.030	0.0027	mg/L			1	6010D



1A-IN  
 INORGANIC ANALYSIS DATA SHEET  
 METALS - TOTAL RECOVERABLE

Client Sample ID: MW-2-W-190916

Lab Sample ID: 580-89231-9

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 13:50

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	0.027	0.030	0.0027	mg/L	J		1	6010D

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - TOTAL RECOVERABLE

Client Sample ID: MW-10-W-190916

Lab Sample ID: 580-89231-10

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.:

Matrix: Water

Date Sampled: 09/16/2019 14:45

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	0.0030	0.030	0.0027	mg/L	J		1	6010D

1A-IN  
 INORGANIC ANALYSIS DATA SHEET  
 METALS - TOTAL RECOVERABLE

Client Sample ID: BD-1-W-190916

Lab Sample ID: 580-89231-11

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 00:00

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	0.0035	0.030	0.0027	mg/L	J		1	6010D

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

ICV Source: ICP ICV\_00029 Concentration Units: mg/L

CCV Source: ICP-CCV\_00001

Analyte	ICV 580-312784/7 09/27/2019 14:50				CCV 580-312784/33 09/27/2019 16:17				CCV 580-312784/45 09/27/2019 16:54			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Lead</b>	2.04		2.00	102	5.00		5.00	100	4.79		5.00	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Italicized analytes were not requested for this sequence.

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

ICV Source: ICP ICV\_00029 Concentration Units: mg/L

CCV Source: ICP-CCV\_00001

Analyte	CCV 580-312784/58 09/27/2019 17:36											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Lead</b>	4.62		5.00	92								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Italicized analytes were not requested for this sequence.

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

ICV Source: ICP-RL\_00067 Concentration Units: mg/L

CCV Source: ICP-RL\_00067

Analyte	ICVL 580-312784/9 09/27/2019 14:57				CCVL 580-312784/35 09/27/2019 16:23				CCVL 580-312784/47 09/27/2019 17:01			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Lead</b>	0.0327		0.0300	109	0.0305		0.0300	102	0.0299	J	0.0300	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Italicized analytes were not requested for this sequence.

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

ICV Source: ICP-RL\_00067 Concentration Units: mg/L

CCV Source: ICP-RL\_00067

Analyte	CCVL 580-312784/71 09/27/2019 18:20											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Lead</b>	0.0285	J	0.0300	95								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Italicized analytes were not requested for this sequence.

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Concentration Units: mg/L

Analyte	RL	ICB 580-312784/8 09/27/2019 14:54		CCB 580-312784/34 09/27/2019 16:20		CCB 580-312784/46 09/27/2019 16:57		CCB 580-312784/59 09/27/2019 17:39	
		Found	C	Found	C	Found	C	Found	C
<b>Lead</b>	0.030	0.00300	J	0.00700	J	ND		ND	

*Italicized analytes were not requested for this sequence.*



3-IN  
METHOD BLANK  
METALS - TOTAL RECOVERABLE

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
SDG No.: \_\_\_\_\_  
Concentration Units: mg/L Lab Sample ID: MB 580-312402/24-A  
Instrument Code: TAC047 Batch No.: 312784

CAS No.	Analyte	Concentration	C	Q	Method
7439-92-1	Lead	ND			6010D

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICSA 580-312784/10

Instrument ID: TAC047

Lab File ID: 312402A.asc

ICS Source: ICP ICSA\_00100

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
<b>Lead</b>		<b>-0.0078</b>	
<i>Aluminum</i>	500	527	105
<i>Antimony</i>		-0.0062	
<i>Arsenic</i>		0.0066	
<i>Barium</i>		-0.0021	
<i>Beryllium</i>		0.0020	
<i>Boron</i>		0.0171	
<i>Cadmium</i>		-0.0006	
<i>Calcium</i>	500	518	104
<i>Chromium</i>		0.0036	
<i>Cobalt</i>		0.0000	
<i>Copper</i>		0.0063	
<i>Iron</i>	500	515	103
<i>Magnesium</i>	500	522	104
<i>Manganese</i>		-0.0061	
<i>Molybdenum</i>		0.0014	
<i>Nickel</i>		0.0002	
<i>Phosphorus</i>		0.0081	
<i>Potassium</i>		0.621	
<i>Selenium</i>		-0.0137	
<i>Silicon</i>		-0.0435	
<i>Silver</i>		0.0032	
<i>Sodium</i>		0.707	
<i>Strontium</i>		0.0006	
<i>Thallium</i>		0.0011	
<i>Tin</i>		-0.0029	
<i>Titanium</i>		-0.0017	
<i>Vanadium</i>		-0.0015	
<i>Zinc</i>		-0.0142	

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

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICSAB 580-312784/11

Instrument ID: TAC047

Lab File ID: 312402A.asc

ICS Source: ICP ICSAB\_00084

Concentration Units: mg/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
<b>Lead</b>	<b>1.00</b>	<b>1.01</b>	<b>101</b>
<i>Aluminum</i>	<i>500</i>	<i>513</i>	<i>103</i>
<i>Antimony</i>	<i>1.00</i>	<i>1.01</i>	<i>101</i>
<i>Arsenic</i>	<i>1.00</i>	<i>1.04</i>	<i>104</i>
<i>Barium</i>	<i>1.00</i>	<i>1.02</i>	<i>102</i>
<i>Beryllium</i>	<i>0.500</i>	<i>0.532</i>	<i>106</i>
<i>Boron</i>	<i>10.0</i>	<i>10.1</i>	<i>101</i>
<i>Cadmium</i>	<i>1.00</i>	<i>1.01</i>	<i>101</i>
<i>Calcium</i>	<i>500</i>	<i>507</i>	<i>101</i>
<i>Chromium</i>	<i>1.00</i>	<i>1.06</i>	<i>106</i>
<i>Cobalt</i>	<i>1.00</i>	<i>1.00</i>	<i>100</i>
<i>Copper</i>	<i>1.00</i>	<i>1.06</i>	<i>106</i>
<i>Iron</i>	<i>500</i>	<i>505</i>	<i>101</i>
<i>Magnesium</i>	<i>500</i>	<i>508</i>	<i>102</i>
<i>Manganese</i>	<i>1.00</i>	<i>1.05</i>	<i>105</i>
<i>Molybdenum</i>	<i>1.00</i>	<i>1.04</i>	<i>104</i>
<i>Nickel</i>	<i>1.00</i>	<i>1.01</i>	<i>101</i>
<i>Phosphorus</i>	<i>10.0</i>	<i>10.5</i>	<i>105</i>
<i>Potassium</i>	<i>10.0</i>	<i>11.5</i>	<i>115</i>
<i>Selenium</i>	<i>1.00</i>	<i>1.03</i>	<i>103</i>
<i>Silicon</i>	<i>10.0</i>	<i>8.85</i>	<i>88</i>
<i>Silver</i>	<i>1.00</i>	<i>1.06</i>	<i>106</i>
<i>Sodium</i>	<i>10.0</i>	<i>11.6</i>	<i>116</i>
<i>Strontium</i>	<i>1.00</i>	<i>1.07</i>	<i>107</i>
<i>Thallium</i>	<i>1.00</i>	<i>0.929</i>	<i>93</i>
<i>Tin</i>	<i>1.00</i>	<i>1.00</i>	<i>100</i>
<i>Titanium</i>	<i>1.00</i>	<i>1.04</i>	<i>104</i>
<i>Vanadium</i>	<i>1.00</i>	<i>1.05</i>	<i>105</i>
<i>Zinc</i>	<i>1.00</i>	<i>1.05</i>	<i>105</i>

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

5A-IN  
 MATRIX SPIKE SAMPLE RECOVERY  
 METALS - TOTAL RECOVERABLE

Client ID: EQB-1-W-190916 MS                      Lab ID: 580-89231-1 MS  
 Lab Name: Eurofins TestAmerica, Seattle                      Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water                      Concentration Units: mg/L  
 % Solids: \_\_\_\_\_

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Lead	0.974	ND	1.00	97	80-120		6010D

SSR = Spiked Sample Result

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

5A-IN  
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY  
 METALS - TOTAL RECOVERABLE

Client ID: EQB-1-W-190916 MSD                      Lab ID: 580-89231-1 MSD  
 Lab Name: Eurofins TestAmerica, Seattle                      Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water                      Concentration Units: mg/L  
 % Solids: \_\_\_\_\_

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Lead	0.967	1.00	97	80-120	1	20		6010D

SDR = Sample Duplicate Result

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

5B-IN  
 POST DIGESTION SPIKE SAMPLE RECOVERY  
 METALS - TOTAL RECOVERABLE

Client ID: EQB-1-W-190916 PDS

Lab ID: 580-89231-1 PDS

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Matrix: Water

Concentration Units: mg/L

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Lead	0.962	ND	1.00	96	80-120		6010D

SSR = Spiked Sample Result

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

6-IN  
 DUPLICATES  
 METALS - TOTAL RECOVERABLE

Client ID: EQB-1-W-190916 DU                      Lab ID: 580-89231-1 DU  
 Lab Name: Eurofins TestAmerica, Seattle                      Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 % Solids for Sample: \_\_\_\_\_                      % Solids for Duplicate: \_\_\_\_\_  
 Matrix: Water                      Concentration Units: mg/L

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	Method
Lead	0.030	ND	ND	NC		6010D

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

7A-IN  
 LAB CONTROL SAMPLE  
 METALS - TOTAL RECOVERABLE

Lab ID: LCS 580-312402/25-A

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

Sample Matrix: Water

LCS Source: ICP CAL 1\_00005

Analyte	Water (mg/L)							
	True	Found	C	%R	Limits		Q	Method
Lead	1.00	0.974		97	80	120		6010D

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

FORM VIIA - IN



7D-IN  
 LAB CONTROL SAMPLE DUPLICATE  
 METALS - TOTAL RECOVERABLE

Lab ID: LCSD 580-312402/26-A

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

Sample Matrix: Water

LCS Source: ICP CAL 1\_00005

Analyte	(SDR) C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Lead	1.03	1.00	103	80-120	5	20		6010D

SDR = Spike Duplicate Results

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

FORM VIID - IN

8-IN  
 ICP-AES AND ICP-MS SERIAL DILUTIONS  
 METALS - TOTAL RECOVERABLE

Lab ID: 580-89231-1

SDG No: \_\_\_\_\_

Lab Name: Eurofins TestAmerica, Seattle

Job No: 580-89231-1

Matrix: Water

Concentration Units: mg/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	Method
Lead	ND	ND	NC		6010D

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

FORM VIII-IN

9-IN  
DETECTION LIMITS  
METALS - TOTAL RECOVERABLE

Lab Name: Eurofins TestAmerica, Seattle Job Number: 580-89231-1  
SDG Number: \_\_\_\_\_  
Matrix: Water Instrument ID: TAC047  
Method: 6010D MDL Date: 03/07/2018 11:29  
Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Lead		0.03	0.0027

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
METALS - TOTAL RECOVERABLE

Lab Name: Eurofins TestAmerica, Seattle Job Number: 580-89231-1  
SDG Number: \_\_\_\_\_  
Matrix: Water Instrument ID: TAC047  
Method: 6010D XMDL Date: 03/07/2018 11:31

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Lead		0.03	0.0027

12-IN  
PREPARATION LOG  
METALS

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
580-89231-1	09/26/2019 11:20	312402		50	50
580-89231-1 DU	09/26/2019 11:20	312402		50	50
580-89231-1 MS	09/26/2019 11:20	312402		50	50
580-89231-1 MSD	09/26/2019 11:20	312402		50	50
580-89231-2	09/26/2019 11:20	312402		50	50
580-89231-3	09/26/2019 11:20	312402		50	50
580-89231-4	09/26/2019 11:20	312402		50	50
580-89231-5	09/26/2019 11:20	312402		50	50
580-89231-6	09/26/2019 11:20	312402		50	50
580-89231-7	09/26/2019 11:20	312402		50	50
580-89231-8	09/26/2019 11:20	312402		50	50
580-89231-9	09/26/2019 11:20	312402		50	50
580-89231-10	09/26/2019 11:20	312402		50	50
580-89231-11	09/26/2019 11:20	312402		50	50
MB 580-312402/24-A	09/26/2019 11:21	312402		50	50
LCS 580-312402/25-A	09/26/2019 11:21	312402		50	50
LCSD 580-312402/26-A	09/26/2019 11:21	312402		50	50

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC047

Analysis Method: 6010D

Start Date: 09/27/2019 14:29

End Date: 09/27/2019 18:20

Lab Sample Id	D/F	Type	Time	P b	Analytes																											
ICIS 580-312784/1	1		14:29	X																												
STD1 580-312784/2 IC			14:32	X																												
STD2 580-312784/3 IC			14:35	X																												
STD3 580-312784/4 IC			14:38	X																												
STD4 580-312784/5 IC			14:41	X																												
STD5 580-312784/6 IC			14:44	X																												
ICV 580-312784/7	1		14:50	X																												
ICB 580-312784/8	1		14:54	X																												
ICVL 580-312784/9	1		14:57	X																												
ICSA 580-312784/10	1		15:00	X																												
ICSAB 580-312784/11	1		15:04	X																												
CCV 580-312784/12			15:07																													
CCB 580-312784/13			15:10																													
ZZZZZZ			15:13																													
ZZZZZZ			15:17																													
ZZZZZZ			15:20																													
ZZZZZZ			15:24																													
ZZZZZZ			15:27																													
ZZZZZZ			15:30																													
ZZZZZZ			15:34																													
ZZZZZZ			15:37																													
CCV 580-312784/22			15:40																													
CCB 580-312784/23			15:43																													
ZZZZZZ			15:47																													
ZZZZZZ			15:50																													
ZZZZZZ			15:53																													
ZZZZZZ			15:56																													
ZZZZZZ			15:59																													
ZZZZZZ			16:03																													
ZZZZZZ			16:06																													
ZZZZZZ			16:10																													
ZZZZZZ			16:13																													
CCV 580-312784/33	1		16:17	X																												
CCB 580-312784/34	1		16:20	X																												
CCVL 580-312784/35	1		16:23	X																												
MB 580-312402/24-A	1	R	16:26	X																												
LCS 580-312402/25-A	1	R	16:30	X																												
LCSD 580-312402/26-A	1	R	16:33	X																												
580-89231-1	1	R	16:35	X																												
580-89231-1 DU	1	R	16:39	X																												
580-89231-1 MS	1	R	16:42	X																												
580-89231-1 MSD	1	R	16:45	X																												

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC047 Analysis Method: 6010D

Start Date: 09/27/2019 14:29 End Date: 09/27/2019 18:20

Lab Sample Id	D/F	T y p e	Time	P b	Analytes																											
580-89231-1 PDS	1	R	16:48	X																												
580-89231-1 SD	5	R	16:51	X																												
CCV 580-312784/45	1		16:54	X																												
CCB 580-312784/46	1		16:57	X																												
CCVL 580-312784/47	1		17:01	X																												
580-89231-2	1	R	17:04	X																												
580-89231-3	1	R	17:07	X																												
580-89231-4	1	R	17:10	X																												
580-89231-5	1	R	17:14	X																												
580-89231-6	1	R	17:17	X																												
580-89231-7	1	R	17:20	X																												
580-89231-8	1	R	17:23	X																												
580-89231-9	1	R	17:27	X																												
580-89231-10	1	R	17:30	X																												
580-89231-11	1	R	17:33	X																												
CCV 580-312784/58	1		17:36	X																												
CCB 580-312784/59	1		17:39	X																												
ZZZZZZ			17:43																													
ZZZZZZ			17:46																													
ZZZZZZ			17:49																													
ZZZZZZ			17:53																													
ZZZZZZ			17:56																													
ZZZZZZ			17:59																													
ZZZZZZ			18:03																													
ZZZZZZ			18:06																													
ZZZZZZ			18:10																													
CCV 580-312784/69			18:13																													
CCB 580-312784/70			18:16																													
CCVL 580-312784/71	1		18:20	X																												

Prep Types: \_\_\_\_\_  
R = Total Recoverable

15-IN  
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY  
METALS

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

ICP Instrument ID: TAC047 Start Date: 09/27/2019 End Date: 09/27/2019

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606 Q	Element Y 224.306 Q	Element Y 360.073 Q	Element Y 377.433 Q	Element Q	Element Q	Element Q	Element Q	Element Q	Element Q
ICIS 580-312784/1	14:29										
ICV 580-312784/7	14:50	88	95	93	93						
ICB 580-312784/8	14:54	103	103	100	100						
ICVL 580-312784/9	14:57	102	102	97	97						
ICSA 580-312784/10	15:00	77	85	89	90						
ICSAB 580-312784/11	15:04	81	90	91	91						
CCV 580-312784/33	16:17	87	96	96	96						
CCB 580-312784/34	16:20	107	106	98	97						
CCVL 580-312784/35	16:23	104	104	98	98						
MB 580-312402/24-A	16:26	108	107	102	103						
LCS 580-312402/25-A	16:30	98	103	101	100						
LCSD 580-312402/26-A	16:33	100	105	104	104						
580-89231-1	16:35	110	108	103	103						
580-89231-1 DU	16:39	108	106	102	102						
580-89231-1 MS	16:42	101	105	99	99						
580-89231-1 MSD	16:45	100	105	102	101						
580-89231-1 PDS	16:48	100	105	102	101						
580-89231-1 SD	16:51	109	109	103	103						
CCV 580-312784/45	16:54	91	102	99	99						
CCB 580-312784/46	16:57	110	108	102	102						
CCVL 580-312784/47	17:01	111	110	106	106						
580-89231-2	17:04	99	106	103	103						
580-89231-3	17:07	96	102	101	101						
580-89231-4	17:10	98	105	103	104						
580-89231-5	17:14	99	106	102	101						
580-89231-6	17:17	105	109	107	107						
580-89231-7	17:20	99	104	101	101						
580-89231-8	17:23	99	105	102	102						
580-89231-9	17:27	104	110	104	104						
580-89231-10	17:30	100	106	108	108						
580-89231-11	17:33	101	108	107	107						
CCV 580-312784/58	17:36	94	104	106	106						
CCB 580-312784/59	17:39	111	110	102	102						
CCVL 580-312784/71	18:20	114	114	110	110						



METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 312402 Batch Start Date: 09/26/19 11:20 Batch Analyst: Boyer, Alec 1

Batch Method: 3005A Batch End Date: 09/26/19 15:41

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00005	ICP CAL 2 00005	MET Spike 3C 00013	
580-89231-D-1	EQB-1-W-190916	3005A, 6010D	R	50 mL	50 mL				
580-89231-D-1 DU	EQB-1-W-190916	3005A, 6010D	R	50 mL	50 mL				
580-89231-D-1 MS	EQB-1-W-190916	3005A, 6010D	R	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-89231-D-1 MSD	EQB-1-W-190916	3005A, 6010D	R	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-89231-B-2	MW-4-W-190916	3005A, 6010D	R	50 mL	50 mL				
580-89231-B-3	MW-5-W-190916	3005A, 6010D	R	50 mL	50 mL				
580-89231-D-4	MW-7-W-190916	3005A, 6010D	R	50 mL	50 mL				
580-89231-D-5	MW-8-W-190916	3005A, 6010D	R	50 mL	50 mL				
580-89231-D-6	MW-9-W-190916	3005A, 6010D	R	50 mL	50 mL				
580-89231-D-7	MW-6-W-190916	3005A, 6010D	R	50 mL	50 mL				
580-89231-D-8	MW-3-W-190916	3005A, 6010D	R	50 mL	50 mL				
580-89231-D-9	MW-2-W-190916	3005A, 6010D	R	50 mL	50 mL				
580-89231-D-10	MW-10-W-190916	3005A, 6010D	R	50 mL	50 mL				
580-89231-B-11	BD-1-W-190916	3005A, 6010D	R	50 mL	50 mL				
MB 580-312402/24		3005A, 6010D		50 mL	50 mL				
LCS 580-312402/25		3005A, 6010D		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-312402/26		3005A, 6010D		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	

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.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 312402 Batch Start Date: 09/26/19 11:20 Batch Analyst: Boyer, Alec 1

Batch Method: 3005A Batch End Date: 09/26/19 15:41

Batch Notes	
Temperature - Corrected - End	93.7 Degrees C
Temperature - Corrected - Start	93.7 Degrees C
Digestion End Time	09/26/2019 15:41
Digestion Start Time	09/26/2019 11:41
Digestion Unit ID	41291
Hydrochloric Acid ID	2377434
Nitric Acid ID	2461129
Pipette/Syringe/Dispenser ID	METALS-PREP-2
Analyst ID - Spike Analyst	see above
Sufficient Volume for Batch QC	yes
Thermometer ID	1108438
Digestion Tube/Cup ID	2420489
Temperature - Uncorrected - End	94 Degrees C
Temperature - Uncorrected - Start	94 Degrees C

Basis	Basis Description
R	Total Recoverable

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.

# GENERAL CHEMISTRY

COVER PAGE  
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job Number: 580-89231-1

SDG No.: \_\_\_\_\_

Project: Chevron Site 351860 Anchorage, Alaska

Client Sample ID	Lab Sample ID
<u>EQB-1-W-190916</u>	<u>580-89231-1</u>
<u>MW-4-W-190916</u>	<u>580-89231-2</u>
<u>MW-5-W-190916</u>	<u>580-89231-3</u>
<u>MW-7-W-190916</u>	<u>580-89231-4</u>
<u>MW-8-W-190916</u>	<u>580-89231-5</u>
<u>MW-9-W-190916</u>	<u>580-89231-6</u>
<u>MW-6-W-190916</u>	<u>580-89231-7</u>
<u>MW-3-W-190916</u>	<u>580-89231-8</u>
<u>MW-2-W-190916</u>	<u>580-89231-9</u>
<u>MW-10-W-190916</u>	<u>580-89231-10</u>
<u>BD-1-W-190916</u>	<u>580-89231-11</u>

Comments:

1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: EQB-1-W-190916

Lab Sample ID: 580-89231-1

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 10:00

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.034	0.20	0.020	mg/L	J	H	1	300.0
14808-79-8	Sulfate	0.53	1.2	0.26	mg/L	J		1	300.0

1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: EQB-1-W-190916

Lab Sample ID: 580-89231-1

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 10:00

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity	ND	5.0		mg/L			1	SM 2320B

1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: MW-4-W-190916

Lab Sample ID: 580-89231-2

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 10:30

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.073	0.20	0.020	mg/L	J	H	1	300.0
14808-79-8	Sulfate	3.4	1.2	0.26	mg/L			1	300.0

1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: MW-4-W-190916

Lab Sample ID: 580-89231-2

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 10:30

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity	340	5.0		mg/L			1	SM 2320B



1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: MW-5-W-190916

Lab Sample ID: 580-89231-3

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 10:30

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.033	0.20	0.020	mg/L	J	H	1	300.0
14808-79-8	Sulfate	0.80	1.2	0.26	mg/L	J		1	300.0

1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: MW-5-W-190916

Lab Sample ID: 580-89231-3

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 10:30

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity	310	5.0		mg/L			1	SM 2320B

1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: MW-7-W-190916

Lab Sample ID: 580-89231-4

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 11:30

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.031	0.20	0.020	mg/L	J	H	1	300.0
14808-79-8	Sulfate	1.1	1.2	0.26	mg/L	J		1	300.0

1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: MW-7-W-190916

Lab Sample ID: 580-89231-4

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 11:30

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity	330	5.0		mg/L			1	SM 2320B

1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: MW-8-W-190916

Lab Sample ID: 580-89231-5

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 11:50

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.066	0.20	0.020	mg/L	J	H	1	300.0
14808-79-8	Sulfate	2.5	1.2	0.26	mg/L			1	300.0

1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: MW-8-W-190916

Lab Sample ID: 580-89231-5

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 11:50

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity	310	5.0		mg/L			1	SM 2320B

1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: MW-9-W-190916

Lab Sample ID: 580-89231-6

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 12:15

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	ND	0.20	0.020	mg/L		H	1	300.0
14808-79-8	Sulfate	2.2	1.2	0.26	mg/L			1	300.0

1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: MW-9-W-190916

Lab Sample ID: 580-89231-6

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.:

Matrix: Water

Date Sampled: 09/16/2019 12:15

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity	120	5.0		mg/L			1	SM 2320B



1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: MW-6-W-190916

Lab Sample ID: 580-89231-7

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 12:45

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.031	0.20	0.020	mg/L	J	H	1	300.0
14808-79-8	Sulfate	1.2	1.2	0.26	mg/L			1	300.0

1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: MW-6-W-190916

Lab Sample ID: 580-89231-7

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 12:45

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity	290	5.0		mg/L			1	SM 2320B

1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: MW-3-W-190916

Lab Sample ID: 580-89231-8

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 13:20

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.035	0.20	0.020	mg/L	J	H	1	300.0
14808-79-8	Sulfate	14	1.2	0.26	mg/L			1	300.0

1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: MW-3-W-190916

Lab Sample ID: 580-89231-8

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 13:20

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity	360	5.0		mg/L			1	SM 2320B

1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: MW-2-W-190916

Lab Sample ID: 580-89231-9

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 13:50

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.042	0.20	0.020	mg/L	J	H	1	300.0
14808-79-8	Sulfate	8.7	1.2	0.26	mg/L		F1	1	300.0

1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: MW-2-W-190916

Lab Sample ID: 580-89231-9

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 13:50

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity	290	5.0		mg/L			1	SM 2320B

1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: MW-10-W-190916

Lab Sample ID: 580-89231-10

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 14:45

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.030	0.20	0.020	mg/L	J	H	1	300.0
14808-79-8	Sulfate	1.3	1.2	0.26	mg/L			1	300.0

1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: MW-10-W-190916

Lab Sample ID: 580-89231-10

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 14:45

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity	310	5.0		mg/L			1	SM 2320B



1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: BD-1-W-190916

Lab Sample ID: 580-89231-11

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 00:00

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.034	0.20	0.020	mg/L	J	H	1	300.0
14808-79-8	Sulfate	0.81	1.2	0.26	mg/L	J		1	300.0

1B-IN  
 INORGANIC ANALYSIS DATA SHEET  
 GENERAL CHEMISTRY

Client Sample ID: BD-1-W-190916

Lab Sample ID: 580-89231-11

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG ID.: \_\_\_\_\_

Matrix: Water

Date Sampled: 09/16/2019 00:00

Reporting Basis: WET

Date Received: 09/17/2019 08:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity	310	5.0		mg/L			1	SM 2320B

2-IN  
 CALIBRATION QUALITY CONTROL  
 GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Analyst: EMM Batch Start Date: 09/18/2019  
 Reporting Units: mg/L Analytical Batch No.: 311693

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	10:19	Nitrate as N	5.06	5.00	101	90-110		IC-Custom-EE_00017
2	CCB	10:31	Nitrate as N	ND					
6	CCV	12:39	Nitrate as N	5.09	5.00	102	90-110		IC-Custom-EE_00017
7	CCB	12:51	Nitrate as N	ND					
12	CCV	17:56	Nitrate as N	5.08	5.00	102	90-110		IC-Custom-EE_00017
13	CCB	18:07	Nitrate as N	ND					
17	CCV	10:35	Nitrate as N	5.23	5.00	105	90-110		IC-Custom-EE_00017
18	CCB	10:47	Nitrate as N	ND					
29	CCV	12:56	Nitrate as N	5.23	5.00	105	90-110		IC-Custom-EE_00017
30	CCB	13:08	Nitrate as N	ND					

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

2-IN  
 CALIBRATION QUALITY CONTROL  
 GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Analyst: EMM Batch Start Date: 09/30/2019  
 Reporting Units: mg/L Analytical Batch No.: 313012

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
13	CCV	11:43	Sulfate	51.6	50.0	103	90-110		IC-Custom-EE_00020
14	CCB	11:54	Sulfate	ND					
5	CCV	14:18	Sulfate	52.0	50.0	104	90-110		IC-Custom-EE_00020
6	CCB	14:30	Sulfate	ND					
25	CCV	16:39	Sulfate	52.2	50.0	104	90-110		IC-Custom-EE_00020
26	CCB	16:50	Sulfate	ND					
38	CCV	19:11	Sulfate	52.6	50.0	105	90-110		IC-Custom-EE_00020
39	CCB	19:23	Sulfate	0.356				J	

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

2-IN  
 CALIBRATION QUALITY CONTROL  
 GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1  
 SDG No.: \_\_\_\_\_  
 Analyst: EMM Batch Start Date: 09/29/2019  
 Reporting Units: mg/L Analytical Batch No.: 312687

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	13:57	Alkalinity	100	100	100	85-115		Alk Std._00028
11	CCV	13:57	Alkalinity	103	100	103	85-115		AlkalinitySTD_00040
17	CCV	13:57	Alkalinity	102	100	102	85-115		AlkalinitySTD_00040

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

3-IN  
METHOD BLANK  
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 311693 Date: 09/18/2019 10:42							
300.0	MB 580-311693/3	Nitrate as N	ND		mg/L	0.20	1
Batch ID: 313012 Date: 09/30/2019 12:06							
300.0	MB 580-313012/15	Sulfate	ND		mg/L	1.2	1

5-IN  
 MATRIX SPIKE SAMPLE RECOVERY  
 GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 311693 Date: 09/18/2019 17:20											
300.0	580-89231-1	Nitrate as N	0.034	J	mg/L						H
300.0	580-89231-1 MS	Nitrate as N	5.24		mg/L	5.00	104	90-110			
Batch ID: 313012 Date: 09/30/2019 17:26											
300.0	580-89231-9	Sulfate	8.7		mg/L						F1
300.0	580-89231-9 MS	Sulfate	65.9		mg/L	50.0	114	90-110			F1

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

5-IN  
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY  
 GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 313012 Date: 09/30/2019 17:37											
300.0	580-89231-9 MSD	Sulfate	66.0		mg/L	50.0	114	90-110	0	15	F1

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



6-IN  
DUPLICATE  
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 312687 Date: 09/29/2019 13:57								
SM 2320B	EQB-1-W-190916	580-89231-1	Alkalinity	ND	mg/L			
SM 2320B	EQB-1-W-190916	580-89231-1 DU	Alkalinity	ND	mg/L	NC	17	

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

7A-IN  
 LAB CONTROL SAMPLE  
 GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 311693 Date: 09/18/2019 10:54											
LCS Source: IC-Custom-EE_00017											
300.0	LCS 580-311693/4	Nitrate as N	5.08		mg/L	5.00	102	90-110	0	15	
Batch ID: 313012 Date: 09/30/2019 12:18											
LCS Source: IC-Custom-EE_00020											
300.0	LCS 580-313012/16	Sulfate	51.7		mg/L	50.0	103	90-110	0	15	
Batch ID: 312687 Date: 09/29/2019 13:57											
LCS Source: AlkalinitySTD_00040											
SM 2320B	LCS 580-312687/2	Alkalinity	101		mg/L	100	101	85-115			

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

7A-IN  
 LAB CONTROL SAMPLE DUPLICATE  
 GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 311693 Date: 09/18/2019 11:06											
LCSD Source: IC-Custom-EE_00017											
300.0	LCSD 580-311693/5	Nitrate as N	5.08		mg/L	5.00	102	90-110	0	15	
Batch ID: 313012 Date: 09/30/2019 12:29											
LCSD Source: IC-Custom-EE_00020											
300.0	LCSD 580-313012/17	Sulfate	51.8		mg/L	50.0	104	90-110	0	15	

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

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job Number: 580-89231-1  
SDG Number: \_\_\_\_\_  
Matrix: Water Instrument ID: TAC107  
Method: 300.0 MDL Date: 05/10/2017 11:54

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrate as N		0.2	0.02
Sulfate		1.2	0.26

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job Number: 580-89231-1  
SDG Number: \_\_\_\_\_  
Matrix: Water Instrument ID: TAC107  
Method: 300.0 XMDL Date: 05/10/2017 12:33

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate as N		0.2	0.02
Sulfate		1.2	0.26

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job Number: 580-89231-1  
SDG Number: \_\_\_\_\_  
Matrix: Water Instrument ID: TAC111  
Method: SM 2320B RL Date: 04/11/2018 14:31

Analyte	Wavelength/ Mass	RL (mg/L)	
Alkalinity		5	

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job Number: 580-89231-1  
SDG Number: \_\_\_\_\_  
Matrix: Water Instrument ID: TAC111  
Method: SM 2320B XMDL Date: 03/23/2019 11:03

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Alkalinity		5	5

13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC107 Analysis Method: 300.0

Start Date: 09/18/2019 10:19 End Date: 09/19/2019 13:08

Lab Sample Id	D/F	T y p e	Time	N O 3	Analytes																			
CCV 580-311693/1	1		10:19	X																				
CCB 580-311693/2	1		10:31	X																				
MB 580-311693/3	1	T	10:42	X																				
LCS 580-311693/4	1	T	10:54	X																				
LCSD 580-311693/5	1	T	11:06	X																				
CCV 580-311693/6	1		12:39	X																				
CCB 580-311693/7	1		12:51	X																				
ZZZZZZ			16:34																					
ZZZZZZ			16:45																					
ZZZZZZ			16:57																					
580-89231-1	1	T	17:09	X																				
580-89231-1 MS	1	T	17:20	X																				
580-89231-1 MSD	1	T	17:32	X																				
ZZZZZZ			17:44																					
CCV 580-311693/12	1		17:56	X																				
CCB 580-311693/13	1		18:07	X																				
CCV 580-311693/17	1		10:35	X																				
CCB 580-311693/18	1		10:47	X																				
580-89231-2	1	T	10:59	X																				
580-89231-3	1	T	11:10	X																				
580-89231-4	1	T	11:22	X																				
580-89231-5	1	T	11:34	X																				
580-89231-6	1	T	11:46	X																				
580-89231-7	1	T	11:58	X																				
580-89231-8	1	T	12:09	X																				
580-89231-9	1	T	12:21	X																				
580-89231-10	1	T	12:33	X																				
580-89231-11	1	T	12:44	X																				
CCV 580-311693/29	1		12:56	X																				
CCB 580-311693/30	1		13:08	X																				

Prep Types: \_\_\_\_\_  
T = Total/NA



13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC107

Analysis Method: 300.0

Start Date: 09/30/2019 11:43

End Date: 09/30/2019 20:09

Lab Sample Id	D/F	Type	Time	Analytes																			
				S	O	4																	
CCV 580-313012/13	1		11:43	X																			
CCB 580-313012/14	1		11:54	X																			
MB 580-313012/15	1	T	12:06	X																			
LCS 580-313012/16	1	T	12:18	X																			
LCSD 580-313012/17	1	T	12:29	X																			
ZZZZZZ			12:56																				
ZZZZZZ			13:08																				
ZZZZZZ			13:20																				
ZZZZZZ			13:31																				
580-89231-1	1	T	13:43	X																			
580-89231-2	1	T	13:55	X																			
ZZZZZZ			14:07																				
CCV 580-313012/5	1		14:18	X																			
CCB 580-313012/6	1		14:30	X																			
580-89231-3	1	T	14:42	X																			
ZZZZZZ			14:53																				
580-89231-4	1	T	15:05	X																			
ZZZZZZ			15:17																				
580-89231-5	1	T	15:29	X																			
ZZZZZZ			15:40																				
580-89231-6	1	T	15:52	X																			
580-89231-7	1	T	16:04	X																			
ZZZZZZ			16:15																				
580-89231-8	1	T	16:27	X																			
CCV 580-313012/25	1		16:39	X																			
CCB 580-313012/26	1		16:50	X																			
ZZZZZZ			17:02																				
580-89231-9	1	T	17:14	X																			
580-89231-9 MS	1	T	17:26	X																			
580-89231-9 MSD	1	T	17:37	X																			
580-89231-10	1	T	17:49	X																			
ZZZZZZ			18:01																				
580-89231-11	1	T	18:12	X																			
ZZZZZZ			18:24																				
ZZZZZZ			18:36																				
ZZZZZZ			18:47																				
ZZZZZZ			18:59																				
CCV 580-313012/38	1		19:11	X																			
CCB 580-313012/39	1		19:23	X																			
ZZZZZZ			19:34																				
ZZZZZZ			19:46																				

13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC107 Analysis Method: 300.0

Start Date: 09/30/2019 11:43 End Date: 09/30/2019 20:09

Lab Sample Id	D/F	Type	Time	Analytes																											
				S	O	4																									
CCV 580-313012/42			19:58																												
CCB 580-313012/43			20:09																												

Prep Types: \_\_\_\_\_  
T = Total/NA



GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 311693 Batch Start Date: 09/18/19 10:19 Batch Analyst: Morton, Estela M

Batch Method: 300.0 Batch End Date: 09/19/19 11:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC-Custom-EE 00017			
CCV 580-311693/1		300.0		5 mL	5 mL	0.25 mL			
CCB 580-311693/2		300.0		5 mL	5 mL				
MB 580-311693/3		300.0		5 mL	5 mL				
LCS 580-311693/4		300.0		5 mL	5 mL	0.25 mL			
LCS 580-311693/5		300.0		5 mL	5 mL	0.25 mL			
CCV 580-311693/6		300.0		5 mL	5 mL	0.25 mL			
CCB 580-311693/7		300.0		5 mL	5 mL				
CCV 580-311693/12		300.0		5 mL	5 mL	0.25 mL			
CCB 580-311693/13		300.0		5 mL	5 mL				
580-89231-C-1	EQB-1-W-190916	300.0	T	5 mL	5 mL				
580-89231-C-1 MS	EQB-1-W-190916	300.0	T	5 mL	5 mL	0.25 mL			
580-89231-C-1 MSD	EQB-1-W-190916	300.0	T	5 mL	5 mL				
CCV 580-311693/17		300.0		5 mL	5 mL	0.25 mL			
CCB 580-311693/18		300.0		5 mL	5 mL				
580-89231-A-2	MW-4-W-190916	300.0	T	5 mL	5 mL				
580-89231-A-3	MW-5-W-190916	300.0	T	5 mL	5 mL				
580-89231-C-4	MW-7-W-190916	300.0	T	5 mL	5 mL				
580-89231-C-5	MW-8-W-190916	300.0	T	5 mL	5 mL				
580-89231-C-6	MW-9-W-190916	300.0	T	5 mL	5 mL				
580-89231-C-7	MW-6-W-190916	300.0	T	5 mL	5 mL				
580-89231-C-8	MW-3-W-190916	300.0	T	5 mL	5 mL				
580-89231-C-9	MW-2-W-190916	300.0	T	5 mL	5 mL				
580-89231-C-10	MW-10-W-190916	300.0	T	5 mL	5 mL				
580-89231-A-11	BD-1-W-190916	300.0	T	5 mL	5 mL				

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 311693 Batch Start Date: 09/18/19 10:19 Batch Analyst: Morton, Estela M

Batch Method: 300.0 Batch End Date: 09/19/19 11:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC-Custom-EE 00017			
CCV 580-311693/29		300.0		5 mL	5 mL	0.25 mL			
CCB 580-311693/30		300.0		5 mL	5 mL				

Batch Notes	
Eluent 1 ID	181107
Filter ID	16950886

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 313012 Batch Start Date: 09/30/19 11:43 Batch Analyst: Morton, Estela M

Batch Method: 300.0 Batch End Date: 10/02/19 11:07

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC-Custom-EE 00020			
580-89231-C-1	EQB-1-W-190916	300.0	T	5 mL	5 mL				
580-89231-A-2	MW-4-W-190916	300.0	T	5 mL	5 mL				
580-89231-A-2 ^10	MW-4-W-190916	300.0	T	5 mL	5 mL				
CCV 580-313012/5		300.0		5 mL	5 mL	0.25 mL			
CCB 580-313012/6		300.0		5 mL	5 mL				
580-89231-A-3	MW-5-W-190916	300.0	T	5 mL	5 mL				
580-89231-A-3 ^10	MW-5-W-190916	300.0	T	5 mL	5 mL				
580-89231-C-4	MW-7-W-190916	300.0	T	5 mL	5 mL				
580-89231-C-4 ^10	MW-7-W-190916	300.0	T	5 mL	5 mL				
580-89231-C-5	MW-8-W-190916	300.0	T	5 mL	5 mL				
580-89231-C-5 ^10	MW-8-W-190916	300.0	T	5 mL	5 mL				
CCV 580-313012/13		300.0		5 mL	5 mL	0.25 mL			
CCB 580-313012/14		300.0		5 mL	5 mL				
MB 580-313012/15		300.0		5 mL	5 mL				
LCS 580-313012/16		300.0		5 mL	5 mL	0.25 mL			
LCS 580-313012/17		300.0		5 mL	5 mL	0.25 mL			
580-89231-C-6	MW-9-W-190916	300.0	T	5 mL	5 mL				
580-89231-C-7	MW-6-W-190916	300.0	T	5 mL	5 mL				
580-89231-C-7 ^10	MW-6-W-190916	300.0	T	5 mL	5 mL				
580-89231-C-8	MW-3-W-190916	300.0	T	5 mL	5 mL				
CCV 580-313012/25		300.0		5 mL	5 mL	0.25 mL			
CCB 580-313012/26		300.0		5 mL	5 mL				
580-89231-C-8 ^10	MW-3-W-190916	300.0	T	5 mL	5 mL				
580-89231-C-9	MW-2-W-190916	300.0	T	5 mL	5 mL				

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 313012 Batch Start Date: 09/30/19 11:43 Batch Analyst: Morton, Estela M

Batch Method: 300.0 Batch End Date: 10/02/19 11:07

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC-Custom-EE 00020			
580-89231-C-9 MS	MW-2-W-190916	300.0	T	5 mL	5 mL	0.25 mL			
580-89231-C-9 MSD	MW-2-W-190916	300.0	T	5 mL	5 mL	0.25 mL			
580-89231-C-10	MW-10-W-190916	300.0	T	5 mL	5 mL				
580-89231-C-10 ^10	MW-10-W-190916	300.0	T	5 mL	5 mL				
580-89231-A-11	BD-1-W-190916	300.0	T	5 mL	5 mL				
580-89231-A-11 ^10	BD-1-W-190916	300.0	T	5 mL	5 mL				
CCV 580-313012/38		300.0		5 mL	5 mL	0.25 mL			
CCB 580-313012/39		300.0		5 mL	5 mL				

Batch Notes	
Eluent 1 ID	181107
Filter ID	16950886

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 312687 Batch Start Date: 09/29/19 13:57 Batch Analyst: Morton, Estela M

Batch Method: SM 2320B Batch End Date: 09/29/19 15:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	Initial pH	BuretStart1	BuretStop1	TitrantVolumel	BuretStart2
ICV 580-312687/1		SM 2320B		30 mL	10.04 SU	0 mL	1.626 mL	1.626 mL	0 mL
LCS 580-312687/2		SM 2320B		30 mL	9.95 SU	0 mL	1.68 mL	1.68 mL	0 mL
580-89231-C-1	EQB-1-W-190916	SM 2320B	T	30 mL	4.95 SU	0 mL	0 mL	0 mL	0 mL
580-89231-C-1 DU	EQB-1-W-190916	SM 2320B	T	30 mL	5.11 SU	0 mL	0 mL	0 mL	0 mL
580-89231-A-2	MW-4-W-190916	SM 2320B	T	30 mL	5.78 SU	0 mL	0 mL	0 mL	0 mL
580-89231-A-3	MW-5-W-190916	SM 2320B	T	30 mL	5.89 SU	0 mL	0 mL	0 mL	0 mL
580-89231-C-4	MW-7-W-190916	SM 2320B	T	30 mL	6.20 SU	0 mL	0 mL	0 mL	0 mL
580-89231-C-5	MW-8-W-190916	SM 2320B	T	30 mL	6.35 SU	0 mL	0 mL	0 mL	0 mL
580-89231-C-6	MW-9-W-190916	SM 2320B	T	30 mL	5.90 SU	0 mL	0 mL	0 mL	0 mL
CCV 580-312687/11		SM 2320B		30 mL	9.68 SU	0 mL	1.667 mL	1.667 mL	0 mL
580-89231-C-7	MW-6-W-190916	SM 2320B	T	30 mL	6.39 SU	0 mL	0 mL	0 mL	0 mL
580-89231-C-8	MW-3-W-190916	SM 2320B	T	30 mL	6.52 SU	0 mL	0 mL	0 mL	0 mL
580-89231-C-9	MW-2-W-190916	SM 2320B	T	30 mL	6.41 SU	0 mL	0 mL	0 mL	0 mL
580-89231-C-10	MW-10-W-190916	SM 2320B	T	30 mL	6.42 SU	0 mL	0 mL	0 mL	0 mL
580-89231-A-11	BD-1-W-190916	SM 2320B	T	30 mL	6.47 SU	0 mL	0 mL	0 mL	0 mL
CCV 580-312687/17		SM 2320B		30 mL	10.15 SU	0 mL	1.875 mL	1.875 mL	0 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	BuretStop2	TitrantVolume2	CalcMsg	carb	hydr	bCarb
ICV 580-312687/1		SM 2320B		1.384 mL	1.384 mL	Case 4	92.26666666666666 mg/L	8.06666666666667 mg/L	0 mg/L
LCS 580-312687/2		SM 2320B		1.345 mL	1.345 mL	Case 4	89.66666666666666 mg/L	11.16666666666667 mg/L	0 mg/L
580-89231-C-1	EQB-1-W-190916	SM 2320B	T	0.048 mL	0.048 mL	Case 1	0 mg/L	0 mg/L	1.6 mg/L
580-89231-C-1 DU	EQB-1-W-190916	SM 2320B	T	0.067 mL	0.067 mL	Case 1	0 mg/L	0 mg/L	2.23333333333333 3 mg/L
580-89231-A-2	MW-4-W-190916	SM 2320B	T	10.101 mL	10.101 mL	Case 1	0 mg/L	0 mg/L	336.7 mg/L
580-89231-A-3	MW-5-W-190916	SM 2320B	T	9.433 mL	9.433 mL	Case 1	0 mg/L	0 mg/L	314.433333333333 3 mg/L
580-89231-C-4	MW-7-W-190916	SM 2320B	T	9.949 mL	9.949 mL	Case 1	0 mg/L	0 mg/L	331.633333333333 3 mg/L

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.



GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 312687 Batch Start Date: 09/29/19 13:57 Batch Analyst: Morton, Estela M

Batch Method: SM 2320B Batch End Date: 09/29/19 15:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	BuretStop2	TitrantVolume2	CalcMsg	carb	hydr	bCarb
580-89231-C-5	MW-8-W-190916	SM 2320B	T	9.166 mL	9.166 mL	Case 1	0 mg/L	0 mg/L	305.533333333333 3 mg/L
580-89231-C-6	MW-9-W-190916	SM 2320B	T	3.573 mL	3.573 mL	Case 1	0 mg/L	0 mg/L	119.1 mg/L
CCV 580-312687/11		SM 2320B		1.432 mL	1.432 mL	Case 4	95.4666666666666 6 mg/L	7.83333333333333 mg/L	0 mg/L
580-89231-C-7	MW-6-W-190916	SM 2320B	T	8.715 mL	8.715 mL	Case 1	0 mg/L	0 mg/L	290.5 mg/L
580-89231-C-8	MW-3-W-190916	SM 2320B	T	10.678 mL	10.678 mL	Case 1	0 mg/L	0 mg/L	355.933333333333 3 mg/L
580-89231-C-9	MW-2-W-190916	SM 2320B	T	8.741 mL	8.741 mL	Case 1	0 mg/L	0 mg/L	291.366666666666 7 mg/L
580-89231-C-10	MW-10-W-190916	SM 2320B	T	9.206 mL	9.206 mL	Case 1	0 mg/L	0 mg/L	306.866666666666 7 mg/L
580-89231-A-11	BD-1-W-190916	SM 2320B	T	9.411 mL	9.411 mL	Case 1	0 mg/L	0 mg/L	313.7 mg/L
CCV 580-312687/17		SM 2320B		1.190 mL	1.19 mL	Case 4	79.3333333333334 mg/L	22.8333333333333 mg/L	0 mg/L

Lab Sample ID	Client Sample ID	Method Chain	Basis	pAlk	tAlk	FinalAmount	Alk Std. 00028	AlkalinitySTD 00040
ICV 580-312687/1		SM 2320B		54.2 mg/L	100.333333333333 3 mg/L	30 mL	3 mL	
LCS 580-312687/2		SM 2320B		56 mg/L	100.833333333333 3 mg/L	30 mL		30 mL
580-89231-C-1	EQB-1-W-190916	SM 2320B	T	0 mg/L	1.6 mg/L	30 mL		
580-89231-C-1 DU	EQB-1-W-190916	SM 2320B	T	0 mg/L	2.23333333333333 3 mg/L	30 mL		
580-89231-A-2	MW-4-W-190916	SM 2320B	T	0 mg/L	336.7 mg/L	30 mL		
580-89231-A-3	MW-5-W-190916	SM 2320B	T	0 mg/L	314.433333333333 3 mg/L	30 mL		
580-89231-C-4	MW-7-W-190916	SM 2320B	T	0 mg/L	331.633333333333 3 mg/L	30 mL		
580-89231-C-5	MW-8-W-190916	SM 2320B	T	0 mg/L	305.533333333333 3 mg/L	30 mL		
580-89231-C-6	MW-9-W-190916	SM 2320B	T	0 mg/L	119.1 mg/L	30 mL		
CCV 580-312687/11		SM 2320B		55.5666666666666 7 mg/L	103.3 mg/L	30 mL		30 mL
580-89231-C-7	MW-6-W-190916	SM 2320B	T	0 mg/L	290.5 mg/L	30 mL		
580-89231-C-8	MW-3-W-190916	SM 2320B	T	0 mg/L	355.933333333333 3 mg/L	30 mL		

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89231-1

SDG No.: \_\_\_\_\_

Batch Number: 312687 Batch Start Date: 09/29/19 13:57 Batch Analyst: Morton, Estela M

Batch Method: SM 2320B Batch End Date: 09/29/19 15:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	pAlk	tAlk	FinalAmount	Alk Std. 00028	AlkalinitySTD 00040
580-89231-C-9	MW-2-W-190916	SM 2320B	T	0 mg/L	291.366666666666 7 mg/L	30 mL		
580-89231-C-10	MW-10-W-190916	SM 2320B	T	0 mg/L	306.866666666666 7 mg/L	30 mL		
580-89231-A-11	BD-1-W-190916	SM 2320B	T	0 mg/L	313.7 mg/L	30 mL		
CCV 580-312687/17		SM 2320B		62.5 mg/L	102.166666666666 7 mg/L	30 mL		30 mL

Batch Notes	
pH Buffer 1 ID	2444243
pH Buffer 2 ID	2444253
Nominal Amount Used	30 mL
pH Meter ID	TAC111
Probe ID	TAC111
Normality of First Titrant	0.02 N
Titrant Standardization Date	03/03/2017


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.

# Subcontract Data

# Shipping and Receiving Documents

Regulatory Program:  DW  NPDES  RCRA  Other: \_\_\_\_\_

Company Name: <b>Aradis</b> Address: <b>11 SW Columbia St Suite 670</b> City/State/Zip: <b>Port Burdett AK 99701</b> Phone: <b>503-720-8201</b> Fax: <b>-</b>		Client Contact Project Name: <b>Chewon 351540</b> Site: <b>3334 Old Seawall Hwy Anchorage AK</b> PO # <b>30040507</b>		Project Manager: <b>Nick Meyer</b> Tel/Fax: <b>503-785-9414</b> Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <b>Standard</b> <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: <b>David Brandon</b> Lab Contact: Perform MS / MSD (Y / N) Filtered Sample (Y / N)		Date: <b>9.16.19</b> Carrier: COC No: <b>249707</b> 1 of 1 COCs Sampler: <b>DB, EW</b> For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.: Sample Specific Notes:			
Sample Identification EQB-1-W-190916 MW-4-W-190916 MW-5-W-190916 MW-7-W-190916 MW-8-W-190916 MW-9-W-190916 MW-6-W-190916 MW-3-W-190916 MW-2-W-190916 MW-10-W-190916 BD-1-W-190916 Trip Blank		Sample Date 9.16.19 9.16.19 9.16.19 9.16.19 9.16.19 9.16.19 9.16.19 9.16.19 9.16.19 9.16.19 9.16.19 9.16.19		Sample Time 1000 1030 1030 1130 1150 1215 1245 1320 1350 1445 - -		Sample Type (C=Comp, G=Grab) G G G G G G G G G G G - -		Matrix W W W W W W W W W W W W W W		# of Cont. 12 4 4 12 12 12 12 12 12 12 12 4 6	
		B-EX 8260 GRO AK 101 DPO AK 102 Lead 6010 Nitrate / sulfate EPA 300 Alkalinity 3320B Methane RSR 175M									
		Barcode:  580-89231 Chain of Custody									
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.											
Special Instructions/QC Requirements & Comments: Type III Data Package											
Relinquished by: <b>Em Zeffe</b> Date/Time: <b>9/17/19 08:10</b>		Relinquished by: Date/Time:		Relinquished by: Date/Time:		Relinquished by: Date/Time:		Relinquished by: Date/Time:			
Company: <b>Aradis</b>		Company:		Company:		Company:		Company:			
Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:			
Cooler Temp. (°C): Obs'd: _____ Corrd: <b>4.6, 5.0</b> Therm ID No.: _____		Cooler Temp. (°C): Obs'd: _____ Corrd: <b>4.6, 5.0</b> Therm ID No.: _____		Cooler Temp. (°C): Obs'd: _____ Corrd: <b>4.6, 5.0</b> Therm ID No.: _____		Cooler Temp. (°C): Obs'd: _____ Corrd: <b>4.6, 5.0</b> Therm ID No.: _____		Cooler Temp. (°C): Obs'd: _____ Corrd: <b>4.6, 5.0</b> Therm ID No.: _____			
Received by: _____ Date/Time: <b>9/17/19 8:40</b>		Received by: _____ Date/Time:		Received by: _____ Date/Time:		Received by: _____ Date/Time:		Received by: _____ Date/Time:			

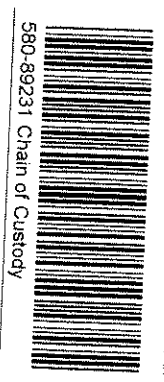
Regulatory Program:  DW  NPDES  RCRA  Other

Client Contact: Aradis Project Manager: Nicole Mavor Date: 9/16/19 Carrier: TA-4K  
 COC No: 249707  
 of 1 COCs

Company Name: Aradis Address: 115W Columbia St Suite 670 City/State/Zip: Port And AK 99701  
 Phone: 503-320-8201 Fax: 503-320-8201  
 Project Name: Cleवन 351860 Site: SBF Old Sand Hwy Anchorage Ak  
 P O #: 30040607

Tel/Fax: 503-785-9414 Analysis Turnaround Time: 5 Standard  
 CALENDAR DAYS  WORKING DAYS  
 TAT if different from Below: Standard  
 2 weeks  1 week  2 days  1 day

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)
EQB-1-W-190916	9.16.19	1900	G	W	12	N	X
MW-4-W-190916	9.16.19	1030	G	W	4	N	X
MW-5-W-190916	9.16.19	1030	G	W	4	N	X
MW-7-W-190916	9.16.19	1130	G	W	12	N	X
MW-8-W-190916	9.16.19	1150	G	W	12	N	X
MW-9-W-190916	9.16.19	1215	G	W	12	N	X
MW-6-W-190916	9.16.19	1245	G	W	12	N	X
MW-3-W-190916	9.16.19	1320	G	W	12	N	X
MW-2-W-190916	9.16.19	1350	G	W	12	N	X
MW-10-W-190916	9.16.19	1445	G	W	12	N	X
BD-1-W-190916	9.16.19	-	G	W	4	N	X
Trip Blank	-	-	-	W	6	N	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

Special Instructions/QC Requirements & Comments: Type III Data Package  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months  
 Cooler Temp. (°C): Obs'd: 42 2.8/3.5  
4.3/5.0

Custody Seal Intact:  Yes  No  
 Custody Seal No.: \_\_\_\_\_  
 Relinquished by: Aradis Company: Aradis Date/Time: 9/17/19 8:40  
 Relinquished by: TA-4K Company: TA-4K Date/Time: 9/17/19 12:00

Relinquished by: TA-5K Company: TA-5K Date/Time: 9/18/19 0930  
 Received by: TA-4K Company: TA-4K Date/Time: 9/17/19 8:40  
 Received in Laboratory by: TA-5K Company: TA-5K Date/Time: 9/17/19 12:00







# Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 580-89231-1

**Login Number: 89231**  
**List Number: 1**  
**Creator: Pilch, Andrew C**

**List Source: Eurofins TestAmerica, Seattle**

Question	Answer	Comment
Radioactivity wasn't checked or is <= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 580-89231-1

**Login Number: 89231**  
**List Number: 2**  
**Creator: Ornelas, Olga**

**List Source: Eurofins TestAmerica, Irvine**  
**List Creation: 09/20/19 01:59 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <= 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.	N/A	Not Present
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?	N/A	Received project as a subcontract.
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# APPENDIX D



## Laboratory Data Review Checklist

Completed By:

Suresh PR

Title:

Project Chemist

Date:

November 13, 2019

CS Report Name:

Semi Annual 2019 Groundwater Monitoring Report

Report Date:

October 4, 2019

Consultant Firm:

ARCADIS U.S., Inc

Laboratory Name:

Eurofins TestAmerica Laboratory, Seattle, WA

Laboratory Report Number:

580-89231-1

ADEC File Number:

2100.38.503

Hazard Identification Number:

4692

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 transferred to Eurofins TestAmerica, Irvine for RSK-175 analysis.

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.

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:

The analyte Nitrate as Nitrogen was analyzed beyond the required holding time of 48 hours from sample collection for all project samples. The associated detected (J) and non-detected (UJ) results were qualified as estimated.

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:

The holding time exceedances are considered minor and would result in the estimation of the associated data. The reported data should still consider as usable.

## 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:

Yes.

iii. If above MDL, what samples are affected?

Yes  No

Comments:

No.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes  No

Comments:

No.

v. Data quality or usability affected?

Yes  No

Comments:

Data quality/usability was not affected.

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:

Yes.

- 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:

Yes.

- 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:

Yes.

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Yes  No

Comments:

None of the sample affected.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes  No

Comments:

No.

- vii. Data quality or usability affected?

Yes  No

Comments:

Data quality/usability was not affected.

- c. Matrix spike/Matrix Spike Duplicate (MS/MSD)

- i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes  No

Comments:

Samples EQB-1-W-190916 and MW-2-W-190916 were used as the MS/MSD analysis.



- 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:

The MS/MSD recovery for sulfate was greater than the laboratory control limit in sample MW-2-W-190916 for method EPA300.0. The sulfate result in sample MW-2-W-190916 was detected and qualified as estimated (J).

- 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:

Yes.

- iv. If %R or RPD is outside of acceptable limits, what samples are affected?

Yes  No

Comments:

The sulfate result in sample MW-2-W-190916 qualified as estimated (J).

- v. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes  No

Comments:

Yes.

- vi. Data quality or usability affected? (use comment box to explain)

Yes  No

Comments:

The MS/MSD recoveries exceedances are considered minor and would result in the estimation of the associated data. The reported data should still consider as usable.

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:

Yes.

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:

Yes.

iii. If above MDL, what samples are affected?

Yes  No

Comments:

None of the data affected.

iv. Data quality or usability affected?

Yes  No

Comments:

Data quality/usability was not affected.

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-190916 was collected from MW-5-W-190916.

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:

The RPDs between parent and duplicate samples were acceptable.

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-190916.

i. If above MDL, what samples are affected?

Yes  No

Comments:

The compound toluene (0.72 J ug/l) was detected below the reporting limit in sample EQB-1-W-190916 for method SW846 8260C. A blank action level was established at five times of the reported blank concentration. Toluene result in samples MW-10-W-190916 and MW-6-W-190916 were qualified as non-detect (UB) at the reporting limit.

The analyte nitrate as N (0.034 J ug/l) was detected below the reporting limit in sample EQB-1-W-190916 for method EPA 300.0. A blank action level was established at five times of the reported blank concentration. Nitrate as N result in samples BD-1-W-190916, MW-10-W-190916, MW-2-W-190916, MW-3-W-190916, MW-4-W-190916, MW-5-W-190916, MW-6-W-190916, MW-7-W-190916 and MW-8-W-190916 were qualified as non-detect (UB) at the reporting limit.

The analyte sulfate (0.53 J ug/l) was detected below the reporting limit in sample EQB-1-W-190916 for method EPA 300.0. A blank action level was established at five times of the reported blank concentration. Sulfate result in samples BD-1-W-190916, MW-5-W-190916 and MW-7-W-190916 were reported less than the reporting limit and qualified as non-detect (UB) at the reporting limit. In addition, the sulfate result in samples MW-9-W-190916, MW-10-W-190916, MW-6-W-190916 and MW-8-W-190916 were detected greater than the reporting limit and less than the blank action level. Hence, these sample results were qualified as non-detect (UB) at the detected concentration.

ii. Data quality or usability affected?

The equipment blank contamination considered as minor and would result in the non-detect of associated data. The reported data should still consider as usable.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes  No

Comments:

Yes.