

Ms. Rebekah Reams  
Alaska Department of Environmental Conservation (ADEC)  
Spill Prevention and Response, Contaminated Sites Program  
610 University Avenue  
Fairbanks, Alaska 99709

Subject:  
2020 First Semi Annual Groundwater Monitoring Report

Dear Ms. Reams,

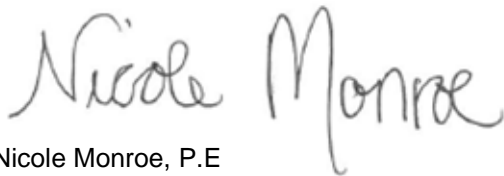
On behalf of Chevron Environmental Management Company (Chevron), Arcadis US, Inc. (Arcadis) has prepared the attached *2020 First Semi-Annual Groundwater Monitoring Report* for the first semi-annual groundwater sampling event of 2020 for the following facility:

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

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

ENVIRONMENT

Date:  
June 19, 2020

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Chevron Environmental Management Company

# 2020 FIRST SEMI-ANNUAL GROUNDWATER MONITORING REPORT

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

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June 19, 2020

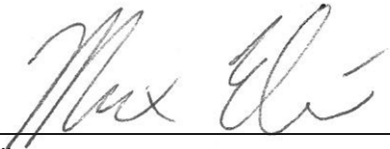


## 2020 FIRST SEMI-ANNUAL GROUNDWATER MONITORING REPORT

### Former Chevron-Branded Service Station No. 97324

4417 Lake Otis Parkway  
Anchorage, Alaska

ADEC File No: 2100.26.008  
HAZARD ID No: 23885

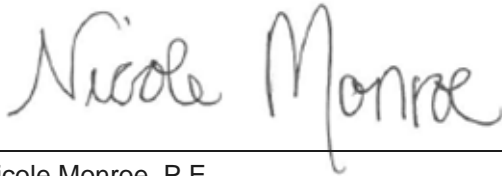


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Max Elias  
Environmental Scientist

Prepared for:

Chevron Environmental Management  
Company



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Our Ref.:

30045464

Date:

June 19, 2020

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**SEMI-ANNUAL GROUNDWATER MONITORING REPORT  
FIRST HALF 2020  
June 19, 2020**

Facility No: <u>Former Chevron-Branded Station No. 97324</u>	Address: <u>4417 Lake Otis Parkway Anchorage, Alaska</u>
Arcadis Contact Person / Phone No.:	Nicole Monroe / (503) 7859414
Arcadis Project No.:	30045464
Primary Agency/Regulatory ID No.:	Alaska Department of Conservation (ADEC) / Rebekah Reams /ADEC File ID: 2100.26.008

**WORK CONDUCTED THIS PERIOD [First Half 2020]:**

1. Conducted semi-annual groundwater monitoring activities on April 22, 2020.
2. Prepared and submitted the *System Removal and Soil Assessment Work Plan* dated March 18, 2020.
3. Prepared and submitted the *System Removal and Soil Assessment Work Plan Addendum* dated May 11, 2020.
4. Prepared the *2020 First Semi-Annual Groundwater Monitoring Report*.

**WORK PROPOSED NEXT PERIOD [Second Half 2020]:**

1. Conduct semi-annual groundwater monitoring activities in the Second half of 2020.
2. Prepare the *2020 Second Semi-Annual Groundwater Monitoring Report*.
3. Conduct remediation system removal and soil assessment as described in the *System Removal and Soil Assessment Work Plan* and *System Removal and Soil Assessment Work Plan Addendum*.

Current Phase of Project:	Monitoring	
Frequency of Monitoring / Sampling:	Semi-annual	
Are Light Non-Aqueous Phase Liquid (LNAPL) Present On-site:	No	
Cumulative LNAPL Recovered to Date:	0.00	(gallons)
Approximate Depth to Groundwater:	15.39 to 24.46	(feet below top of casing)

Approximate Groundwater Elevation:	143.79 to 143.85	(feet relative to NAVD88)
Groundwater Flow Direction	North-northwest	
Groundwater Gradient	0.005	(feet per foot)
Current Remediation Techniques:	None	
Permits for Discharge:	None	
Summary of Unusual Activity:	Monitoring well MW-1R was obstructed by ice in well casing and could not be sampled.	
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 first semi-annual groundwater sampling event of 2020 for Chevron facility 97324, located at 4417 Lake Otis Parkway, Anchorage, Alaska (the site). The site location map and site plan are presented on Figure 1 and Figure 2 respectively.

This work was conducted under the direction of a “Qualified Environmental Professional” (QEP) and “Qualified Sampler” (18 Alaska Administrative Code [AAC] 75.333). Site background and history summaries are attached as Appendix A.

## 2 GROUNDWATER MONITORING

### 2.1 Groundwater Gauging Methods

The 2020 first semi-annual groundwater gauging event was conducted on April 22, 2020. 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 2020 first semi-annual event, monitoring wells MW-1R, MW-2R, MW-8RR, and MW-9 were scheduled to be gauged for groundwater elevations and the presence of LNAPL. The groundwater monitoring event field notes are presented in Appendix B.

The inferred groundwater flow direction for the first semi-annual 2020 monitoring event is towards the north-northwest. Current and historical groundwater gauging and analytical results are included in Table 1 and Table 4 respectively. A groundwater contour map with a rose diagram of historical flow directions is presented as Figure 3.

## 2.3 Groundwater Sampling Methods

The first semi-annual groundwater monitoring event was conducted on April 22, 2020. Groundwater samples were collected from monitoring wells MW-2R, MW-8RR and MW-9 using a low flow purge sampling method. Monitoring well MW-1R was obstructed by ice in the well casing and could not be sampled.

Sampling procedures were conducted in accordance with ADEC *Field Sampling Guidance* (ADEC, 2019). 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 Pace Analytical (National Centre for Testing & Innovation), Mount Juliet, Tennessee, under proper chain-of-custody procedures.

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

- Full-scan volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, total xylenes (collectively BTEX), methyl-t-butyl ether (MTBE) and naphthalene by United States Environmental Protection Agency (USEPA) method 8260D
- Total petroleum hydrocarbons as gasoline range organics (TPH-g) by Alaska method AK101
- Total petroleum hydrocarbons as diesel range organics (TPH-d) by Alaska method AK102

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



A groundwater duplicate sample was collected from monitoring well MW-9. The duplicate samples were analyzed for full-scan VOCs including BTEX, MTBE, naphthalene, TPH-g and TPH-d. The duplicate samples were submitted blind with the sample set to Pace Analytical.

Prior to the first semi-annual sampling event of 2020, groundwater samples were sent to Eurofins Lancaster Laboratory (Eurofins) where the carbon chains analyzed for TPH-g and TPH-d analysis included C6-C10 and C13-C22, respectively. Pace Analytical analyzes the carbon chains C5-C12 and C12-C22 in TPH-g and TPH-d analysis, respectively.

## 2.4 Groundwater Analytical Results

Routine analytical results for BTEX, MTBE, naphthalene, TPH-g and TPH-d and from the first semi-annual 2020 groundwater monitoring event are summarized in Table 1 and are shown on Figure 4. A Current and historical groundwater analytical results – Additional VOCs are summarized in Table 2 and Table 5 respectively. Current analytical data for PAHs is summarized in Table 3. Historical groundwater analytical data is summarized in Table 4.

## 3 LABORATORY DATA QUALITY ASSURANCE SUMMARY

As required by ADEC (Technical Memorandum, October 2019), Arcadis completed a laboratory data review checklist for each of the laboratory report generated for the 2020 semi-annual event. The laboratory report is included as Appendix C and data review checklist is 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 field duplicate (FD) was within the control limits.

The RPD between matrix spike/matrix spike duplicate (MS/MSD) exceedance observed for compounds bromobenzene and tetrachloroethene in sample MW-8RR-W-200422 and these results were qualified as estimated.

The RPD between laboratory control sample / laboratory control sample duplicate (LCS/LCSD) exceedance observed for compounds hexachloro-1,3-butadiene, 1,2,3-trichloropropane, 1,2-dibromoethane, 1-methylnaphthalene and 2-chloronaphthalene. The associated results were qualified as estimated.

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

### 3.2 Accuracy

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

The low LCS and/or LCSD recovery was observed for compounds cis-1,3-dichloropropene and AK102 DRO C10-C25 and associated results were qualified as estimated.

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

Samples from MW-2R were analyzed for PAHs by USEPA method 8270E-SIM. A duplicate sample was not taken for PAH analysis. Duplicate samples for each analysis to be performed will be collected during the second semi-annual sampling event.

### **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 compound 1,2-dichloroethane concentration was exceeded the ADEC GCLs in sample MW-2R-W-200422.

Compounds cis-1,2-dichloroethene and trichloroethene concentrations were exceeded the ADEC GCLs in sample MW-9-W-200422.

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

## **4 CONCLUSIONS AND RECOMMENDATIONS**

The groundwater data collected during the first semi-annual 2020 event indicate groundwater flow direction is to the north-northwest. During the first semi-annual 2020 groundwater monitoring event, groundwater samples were collected for analysis from monitoring wells MW-2R, MW-8RR and MW-9. Analytical results from the monitoring wells are generally consistent with historical data.

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

## 5 REFERENCES

ADEC. *Field Sampling Guidance*. Division of Spill Prevention and Response Contaminated Sites Program. 2019.

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 1SA20**

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

Well ID	Sample Date	TOC (ft)	Datum	DTW (ft bTOC)	LNAPL Thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Naphthalene (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>							<b>1.5</b>	<b>2.2</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.14</b>	<b>0.0017</b>	
MW-1R	4/22/2020	167.56	NAVD88	23.73	0.00	143.83	--	--	--	--	--	--	--	--	Well obstructed by ice, could not sample
MW-2R	4/22/2020	168.25	NAVD88	24.46	0.00	143.79	<b>0.938</b>	<b>0.207</b>	<b>0.00324</b>	<0.00100	<b>0.00921</b>	<0.00300	<0.00100	<b>&lt;0.00500</b>	
MW-8RR	4/22/2020	166.43	NAVD88	22.61	0.00	143.82	<0.824 J	<0.100	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<b>&lt;0.00500</b>	
MW-9	4/22/2020	159.24	NAVD88	15.39	0.00	143.85	<0.800 [ <b>&lt;0.800</b> ]	<b>0.0456 J</b> [ <b>0.0465 J</b> ]	<0.00100 [ <b>&lt;0.00100</b> ]	<0.00100 [ <b>&lt;0.00100</b> ]	<0.00100 [ <b>&lt;0.00100</b> ]	<0.00300 [ <b>&lt;0.00300</b> ]	<0.00100 [ <b>&lt;0.00100</b> ]	<b>&lt;0.00500</b> [ <b>&lt;0.00500</b> ]	
Trip Blank	4/22/2020	--	--	--	--	--	--	<0.100	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<b>&lt;0.00500</b>	
Equipment Blank	4/22/2020	--	--	--	--	--	<0.800	<0.100	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<b>&lt;0.00500</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 relative to NAVD88  
 mg/L = Milligrams per liter  
 GW Elev = Groundwater elevation  
 <0.00100 = Not detected at or above the reported detection limit (RDL)  
**Bold** = Detected above laboratory method detection limit (MDL)  
**Bold and Italicized** : Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level  
 [ ] = Blind Duplicate Sample Result

TPH-g = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to United States Environmental Protection Agency (USEPA) Method AK101  
 TPH-d = Total petroleum hydrocarbons, diesel range by LUFT GC/MS according to State of Alaska Method AK102.  
 Samples analytes by USEPA Method 8260D:  
 Benzene, Toluene, Ethylbenzene and Total Xylenes (collectively BTEX)  
 MTBE = Methyl-tert-butyl ether  
 Naphthalene  
 LUFT = Leaking Underground Fuel Tank  
 GC/MS = Gas chromatography/Mass Spectrometry  
 J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.  
 ADEC = Alaska Department of Environmental Conservation  
 NAVD 88 = North American Vertical Datum of 1988  
 LNAPL = Light Non-Aqueous Phase Liquid  
 -- = Not Measured/Not analyzed

Groundwater Sampling Results - VOCs

**Table 2. Current Groundwater Analytical Results – Additional VOCs**

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

Constituents	ADEC Groundwater Cleanup Levels (mg/L)	Location ID Sample Date	MW-2R	MW-8RR	MW-9	Trip Blank	Equipment Blank
			4/22/2020	4/22/2020	4/22/2020	4/22/2020	4/22/2020
1,2-Dichloroethane	<b>0.0017</b>	mg/L	<b>0.00473</b>	<b>0.000636 J</b>	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
Trichloroethene (Trichloroethylene)	<b>0.0028</b>	mg/L	<0.00100	<0.00100	<b>0.0219 [0.0216]</b>	<0.00100	<0.00100
Tetrachloroethylene	<b>0.041</b>	mg/L	<0.00100	<b>0.00208 J</b>	<b>0.0828 [0.0805]</b>	<0.00100	<0.00100
cis-1,2-Dichloroethene	<b>0.036</b>	mg/L	<0.00100	<0.00100	<b>0.058 [0.0581]</b>	<0.00100	<0.00100
Methylene chloride (Dichloromethane)	<b>0.1</b>	mg/L	<0.00500	<0.00500	<0.00500 [ <i>&lt;0.00500</i> ]	<0.00500	<0.00500
1,1,1-Trichloroethane	<b>8</b>	mg/L	<0.00100	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
1,1,2,2-Tetrachloroethane	<b>0.00076</b>	mg/L	<b>&lt;0.00100</b>	<b>&lt;0.00100</b>	<b>&lt;0.00100 [<i>&lt;0.00100</i>]</b>	<b>&lt;0.00100</b>	<b>&lt;0.00100</b>
1,1,2-Trichloroethane	<b>0.00041</b>	mg/L	<b>&lt;0.00100</b>	<b>&lt;0.00100</b>	<b>&lt;0.00100 [<i>&lt;0.00100</i>]</b>	<b>&lt;0.00100</b>	<b>&lt;0.00100</b>
1,1,2-Trichlorotrifluoroethane (Freon 113)	<b>10</b>	mg/L	<0.00100	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
1,1-Dichloroethane	<b>0.028</b>	mg/L	<0.00100	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
1,1-Dichloroethene (Dichloroethylene)	<b>0.28</b>	mg/L	<0.00100	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
1,2,3-Trichlorobenzene	<b>0.007</b>	mg/L	<0.00100	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
1,2,4-Trichlorobenzene	<b>0.004</b>	mg/L	<0.00100	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
1,2,4-Trimethylbenzene	<b>0.056</b>	mg/L	<0.00100	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
1,2-Dibromoethane	<b>0.000075</b>	mg/L	<b>&lt;0.000100 J</b>	<b>0.0000110 J</b>	<b>&lt;0.000500 J [<i>&lt;0.000500 J</i>]</b>	<0.0000500	<0.0000500
1,2-Dichlorobenzene (o-Dichlorobenzene)	<b>0.3</b>	mg/L	<0.00100	<0.00100	<b>0.000195 J [0.000177 J]</b>	<0.00100	<0.00100
1,2-Dichloropropane	<b>0.0082</b>	mg/L	<0.00100	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
1,3-Dichlorobenzene	<b>0.0047</b>	mg/L	<0.00100	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
1,4-Dichlorobenzene	<b>0.0048</b>	mg/L	<0.00100	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
2-Butanone (Methyl ethyl ketone)	--	mg/L	<0.0100	<0.0100	<0.0100 [ <i>&lt;0.0100</i> ]	<0.0100	<0.0100
4-Methyl-2-pentanone	<b>6.3</b>	mg/L	<0.0100	<0.0100	<0.0100 [ <i>&lt;0.0100</i> ]	<0.0100	<0.0100
Acetone	<b>14</b>	mg/L	<0.0500	<0.0500	<0.0500 [ <i>&lt;0.0500</i> ]	<0.0500	<0.0500
Bromochloromethane	--	mg/L	<0.00100	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
Bromodichloromethane	<b>0.0013</b>	mg/L	<0.00100	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
Bromoform	<b>0.033</b>	mg/L	<0.00100	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
Bromomethane (Methyl bromide)	<b>0.0075</b>	mg/L	<0.00500	<0.00500	<0.00500 [ <i>&lt;0.00500</i> ]	<0.00500	<0.00500
Carbon Disulfide	<b>0.81</b>	mg/L	<0.00100	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
Carbon Tetrachloride	<b>0.0046</b>	mg/L	<0.00100	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
Chlorobenzene	<b>0.078</b>	mg/L	<0.00100	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
Chloroethane	--	mg/L	<0.00500	<0.00500	<0.00500 [ <i>&lt;0.00500</i> ]	<0.00500	<0.00500
Chloroform	<b>0.0022</b>	mg/L	<b>&lt;0.00500</b>	<b>&lt;0.00500</b>	<b>&lt;0.00500 [<i>&lt;0.00500</i>]</b>	<b>&lt;0.00500</b>	<b>&lt;0.00500</b>
Chloromethane (Methyl chloride)	<b>0.19</b>	mg/L	<0.00250	<0.00250	<0.00250 [ <i>&lt;0.00250</i> ]	<0.00250	<0.00250
cis-1,3-Dichloropropene	<b>0.0047</b>	mg/L	<0.00100 J	<0.00100 J	<0.00100 J [ <i>&lt;0.00100 J</i> ]	<0.00100	<0.00100
Dibromochloromethane	<b>0.0087</b>	mg/L	<0.00100	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
Dichlorodifluoromethane (Freon 12)	<b>0.2</b>	mg/L	<0.00500	<0.00500	<0.00500 [ <i>&lt;0.00500</i> ]	<0.00500	<0.00500
Isopropylbenzene	--	mg/L	<b>0.0162</b>	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
Styrene	<b>1.2</b>	mg/L	<0.00100	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
trans-1,2-Dichloroethene	<b>0.36</b>	mg/L	<0.00100	<0.00100	<b>0.000393 J [0.000389 J]</b>	<0.00100	<0.00100
trans-1,3-Dichloropropene	<b>0.0047</b>	mg/L	<0.00100	<0.00100	<0.00100 [ <i>&lt;0.00100</i> ]	<0.00100	<0.00100
Trichlorofluoromethane (Freon 11)	<b>5.2</b>	mg/L	<0.00500	<0.00500	<0.00500 [ <i>&lt;0.00500</i> ]	<0.00500	<0.00500
Vinyl chloride (Chloroethene)	<b>0.00019</b>	mg/L	<b>&lt;0.00100</b>	<b>&lt;0.00100</b>	<b>&lt;0.00100 [<i>&lt;0.00100</i>]</b>	<b>&lt;0.00100</b>	<b>&lt;0.00100</b>

**Notes:**

- ID = Identification
- MW = Groundwater monitoring well
- mg/L = Milligrams per liter
- <0.00500 = Not detected at or above the Reported Detection Limit
- Bold and Shaded** = Value exceeds ADEC Groundwater Cleanup Level
- Bold** = Value exceeds Method Detection Limit (MDL)
- Bold and Italicized** : Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level
- [ ] = Blind Duplicate Result
- J = Results are greater than the method detection limit and less than the reporting limit and considered estimated value
- Constituents analyzed by United States Environmental Protection Agency Method 8260D

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

Well ID	Sample Date	1-Methynaphthalene µg/L	2-Methnaphthalene µg/L	Acenaphthene µg/L	Acenaphthylene µg/L	Anthracene µg/L	Benzo(a)anthracene µg/L	Benzo(a)pyrene µg/L	Benzo(b)fluoranthene µg/L	Benzo(g,h,i)perylene µg/L	Benzo(k)fluoranthene µg/L	Chrysene µg/L	Dibenz(a,h)anthracene µg/L	Fluoranthene µg/L	Fluorene µg/L	ndeno(1,2,3-cd)pyrene µg/L	Naphthalene µg/L	Phenanthrene µg/L	Pyrene µg/L
<b>ADEC Groundwater Cleanup Levels</b>		<b>11</b>	<b>36</b>	<b>530</b>	<b>260</b>	<b>43</b>	<b>0.3</b>	<b>0.25</b>	<b>2.5</b>	<b>0.26</b>	<b>0.8</b>	<b>2</b>	<b>0.25</b>	<b>260</b>	<b>290</b>	<b>0.19</b>	<b>1.7</b>	<b>170</b>	<b>120</b>
MW-2R	9/11/2019	0.17	0.058 J	<0.11	<0.0503	<0.11	<0.053	<0.11	<0.053	<0.053	<0.053	<0.11	<0.11	<0.21	<0.11	<0.053	1.8	<0.11	<0.11
MW-2R	4/22/2020	0.360 J	<0.0510	<0.0510	<0.0510	<0.0510	<0.0510	<0.0510	<0.0510	<0.0510	<0.255	<0.0510	<0.0510	<0.0510	<0.0510	<0.0510	0.256 J	<0.0510	<0.0510

**Notes:**  
 PAHs = Polycyclic Aromatic Hydrocarbons by United States Environmental Protection Agency Method EPA 8270E-SIM.  
 ADEC = Alaska Department of Environmental Conservation  
 µg/L = micrograms per liter  
 <0.0510 = Not detected at or above the reported detection limit (RDL)  
**Bold** = Value exceeds Laboratory Method Detection Limit (MDL)  
**Bold and Shaded** = Value exceeds ADEC Groundwater Cleanup Level  
 J = The compound was positively identified; however, the associated numerical value is an estimated concentration only  
 The laboratory for this site was changed from Eurofins Calscience to Pace Analytical prior to the second quarter 2020 groundwater monitoring event.



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

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-g (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Naphthalene (mg/L)	Comments
						<b>ADEC Groundwater Cleanup Levels</b>								
						1.5	2.2	0.0046	1.1	0.015	0.19	0.14	0.0017	
MW-1	2/1/1992	--	--	--	--	--	--	0.25	0.2	5.1	0.14	--	--	Sample date accurate to month and year only
MW-1	5/1/1992	99.13	23.38	--	75.75	--	--	0.19	0.18	0.4	0.13	--	--	Sample date accurate to month and year only
MW-1	9/1/1992	99.13	23.56	--	75.57	--	--	0.23	0.2	3.3	0.1	--	--	Sample date accurate to month and year only
MW-1	11/1/1992	99.13	23.55	--	75.58	--	--	0.23	0.27	0.3	0.11	--	--	Sample date accurate to month and year only
MW-1	5/1/1993	99.13	23.87	--	75.26	--	--	2.0	33.0	4.4	15.0	--	--	Sample date accurate to month and year only
MW-1	8/1/1993	99.13	23.84	--	75.29	--	--	17.0	40.0	4.5	16.0	--	--	Sample date accurate to month and year only
MW-1	11/1/1993	99.13	23.83	--	75.30	--	--	2.4	6.6	8.4	31.0	--	--	Sample date accurate to month and year only
MW-1	3/1/1994	99.13	23.68	--	75.45	--	--	10.0	35.0	4.2	14.0	--	--	Sample date accurate to month and year only
MW-1	6/1/1994	99.13	23.6	--	75.53	--	--	11.0	47.0	4.8	17.0	--	--	Sample date accurate to month and year only
MW-1	8/1/1994	99.13	24.09	--	75.04	--	--	11.0	34.0	4.7	18.0	--	--	Sample date accurate to month and year only
MW-1	12/22/1994	99.13	23.83	--	75.30	--	--	13.0	31.0	3.6	11.0	--	--	
MW-1	3/31/1995	99.13	23.72	--	75.41	--	--	11.0	22.0	4.2	12.0	--	--	
MW-1	6/20/1995	99.13	23.39	--	75.74	--	--	7.9	20.0	3.1	9.4	--	--	
MW-1	8/23/1995	99.13	23.67	--	75.46	--	--	8.4	22.0	3.2	11.0	--	--	
MW-1	11/16/1995	99.13	23.68	--	75.45	--	--	7.2	17.0	3.0	9.3	--	--	
MW-1	1/30/1996	99.13	23.92	--	75.21	--	--	10.0 / 11.0	26.0 / 26.0	3.9 / 3.8	12.0 / 11.0	--	--	
MW-1	6/2/1996	99.13	23.62	--	75.51	--	--	8.91	24.4	3.59	12.8	--	--	
MW-1	8/26/1996	99.13	24.06	--	75.07	--	--	8.75	29.3	3.49	14.0	--	--	
MW-1	10/16/1996	99.13	24.59	--	74.54	--	--	9.34	30.2	4.02	15.1	--	--	
MW-1	4/28/1997	99.13	23.96	--	75.17	--	--	8.2	21.9	3.98	16.9	--	--	
MW-1	9/10/1997	99.13	23.31	--	75.82	--	--	4.43 / 4.38	18.7 / 17.6	2.84 / 2.82	11.2 / 10.8	--	--	
MW-1	4/19/1998	99.13	22.9	--	76.23	--	--	3.86	17.3	3.44	12.9	--	--	
MW-1	9/23/1998	99.13	23.19	--	75.94	--	--	2.92 / 3.06	9.96 / 10.5	2.29 / 2.46	7.0 / 7.49	--	--	
MW-1	4/28/1999	99.13	23.68	--	75.45	--	--	1.22 / 1.24	4.86 / 4.86	1.96 / 1.96	5.96 / 5.89	<0.5 / <0.5	--	
MW-1	5/5/2001	99.13	24.38	--	74.75	--	--	0.576	4.92	1.83	7.1	<0.5 / 0.005	--	
MW-1	8/2/2001	99.13	23.81	--	75.32	0.123	71.3	3.41	8.37	3.32	8.79	--	--	Sample date defaulted to first date listed in historical data table
MW-1	10/2/2001	99.13	24.12	--	75.01	--	--	0.19	17.6 / 18.5	3.92	17.3 / 17.5	51.9 / <0.005	--	
MW-1	5/1/2002	161.02	24.14	--	136.88	--	--	0.355	5.66	4.24	20.4	42.8 / <0.005	--	
MW-1	9/20/2002	161.02	24	--	137.02	--	--	0.231	2.28	1.4	5.09	<0.05 / <0.002	--	
MW-1	5/20/2003	161.02	24.47	--	136.55	--	--	0.91	4.3	2.6	8.4	0.003	--	
MW-1	10/2/2003	161.02	24.25	--	136.77	--	--	0.56	4.7	2.3	8.2	<0.005	--	
MW-1	5/1/2004	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed May 2004
MW-1R	9/24/2006	160.69	23.2	--	137.49	8.3	49.0	0.14	0.46	2.1	13.1	--	--	
MW-1R	5/14/2007	160.69	23.68	--	137.01	4.0	42.0	0.5	1.4	2.3	8.6	<0.001	--	
MW-1R	9/21/2007	160.69	23.61	--	137.08	4.9	30.0	0.2	0.94	1.5	6.4	--	--	
MW-1R	5/1/2008	160.69	23.77	--	136.92	3.92	53.2	0.43	3.88	3.46	14.4	--	--	
MW-1R	7/15/2008	160.69	23.59	--	137.10	5.50	65.0	0.32	5.20	2.40	11.90	--	--	
MW-1R	5/14/2009	160.69	23.69	--	137.00	3.8 / 3.9	50 / 47	0.14 / 0.13	1.7 / 1.9	2.5 / 2.6	12.5 / 11.3	--	--	
MW-1R	8/26/2009	160.69	23.93	--	136.76	4.9 J / 4.4 J	53 / 51	0.23 / 0.23	3.9 / 3.8	2.7 / 2.7	11.7/11.7	--	--	
MW-1R	6/15/2010	160.69	23.66	--	137.03	4.6 J / 4.5 J	43 / 38	0.13 J / 0.083 J	1.9 J / 1.2 J	2.2 / 2.4	9.7 / 11.8	--	--	
MW-1R	9/5/2010	160.69	23.66	--	137.03	5.6 / 5.4	48 / 47	0.070 / 0.068	1.2 / 1.1	2.7 / 2.1	12.3 / 10.3	--	--	
MW-1R	5/24/2011	160.69	24.08	--	136.61	2.2	6.1	0.066	0.005	0.49	0.71	--	--	
MW-1R	11/10/2011	160.69	23.92	--	136.77	2.4 / 2.6	0.83 J / 0.80 J	<0.0005 / <0.0005	<0.0005 / <0.0005	0.004 J / 0.0005 J	0.012 J / 0.001 J	--	--	Car parked over well
MW-1R	6/20/2012	160.69	23.35	--	137.34	2.3 / 1.7	0.070 J / 0.055 J	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	0.0006 J / <0.0005	--	--	
MW-1R	11/5/2012	160.69	22.7	--	137.99	0.31 J / 0.47 J	0.012 J / 0.019 J	<0.0005 / <0.0005	<0.0005 / 0.0005 J	<0.0005 / <0.0005	0.0018 J / 0.0016 J	--	--	
MW-1R	4/30/2013	160.69	23.76	--	136.93	1.2 / 1.1	5.1 / 3.7	0.0131 / 0.0115	0.0022 / 0.0021	0.686 / 0.668	0.361 / 0.336	--	--	
MW-1R	4/30/2013	160.69	23.76	--	136.93	0.93 / 1.4	5.6 / 3.4	0.0112 / 0.0116	0.0028 / 0.0018	0.779 J / 0.36 J	0.459 / 0.281	--	--	Collected via hydrasleeve
MW-1R	11/7/2013	160.69	23.02	--	137.67	--	--	--	--	--	--	--	--	
MW-1R	11/8/2013	--	--	--	--	2.6 / 2.6	7.9 / 8.7	0.021 / 0.018	0.0043 J / 0.0065	0.57 / 0.76	0.85 J / 1.5 J	--	--	
MW-1R	4/28/2014	160.69	23.47	--	137.22	1.9 / 1.7	8.7 / 9.8	0.017 / 0.017	0.0043 / 0.0039	0.86 / 0.85	1.5 / 1.4	--	--	
MW-1R	4/28/2014	160.69	23.47	--	137.22	1.7 / 1.9	5.2 J / 8.8 J	0.014 / 0.017	0.0042 J / 0.0033	0.72 / 0.98	1.3 / 2.0	--	--	Collected via hydrasleeve
MW-1R	11/7/2014	160.69	23.88	--	136.81	1.8/2.0	5.8/5.5	0.0076/0.0070	0.0040 J/0.0043 J	0.38/0.36	0.65/0.60	--	--	
MW-1R	4/29/2015	160.69	24.26	--	136.43	0.31	0.025 J	<0.0005	<0.0005	0.002	0.001	--	--	
MW-1R	11/6/2015	160.69	23.42	--	137.27	0.42	<0.010	<0.001	<0.001	<0.001	<0.001	--	--	
MW-1R	4/21/2016	160.69	24.11	--	136.58	0.66	0.039 J	0.003	<0.0005	<0.0005	<0.0005	--	--	
MW-1R	11/1/2016	160.69	23.72	--	136.97	0.27 J	0.015 J	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-1R	5/1/2017	160.69	23.59	--	137.10	0.085 J	0.013 J	0.0006 J	<0.0005	<0.0005	<0.0005	--	--	
MW-1R	10/17/2017	160.69	23.49	--	137.20	0.069 J	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-1R	4/27/2018	160.69	23.84	--	136.85	0.24 J	0.017 J	0.0007 J	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-1R	10/18/2018	160.69	23.80	--	136.89	0.069 J	<0.014	<0.0002	<0.0002	<0.0002	<0.0005	--	--	
MW-1R	4/9/2019	167.56	23.63 <sup>2</sup>	0.00	143.93	<0.28 B [ $<0.25$ B]	<0.014 [ $<0.014$ ]	0.001 [0.001]	<0.0002 [ $<0.0002$ ]	<0.0004 [ $<0.0004$ ]	<0.001 [ $<0.001$ ]	<0.0002 [ $<0.0002$ ]	<0.001 [ $<0.001$ ]	TPH-d Non detect reported to LOQ
MW-1R	9/11/2019	167.56	24.21	0.00	143.35	0.16	<0.100	0.0022	<0.00039	<0.00050	<0.00114	<0.00044	0.00026 J*B	TPH-d Non detect reported to LOQ
MW-1R	4/22/2020	167.56	23.73	0.00	143.83	--	--	--	--	--	--	--	--	Well obstructed by ice, could not sample Car parked over well



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

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-g (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Naphthalene (mg/L)	Comments	
						<b>ADEC Groundwater Cleanup Levels</b>									
						1.5	2.2	0.0046	1.1	0.015	0.19	0.14	0.0017		
MW-2R	9/24/2006	161.29	23.76	--	137.53	4.2	47.0	0.36	4.3	2.1	10.7	--	--		
MW-2R	5/14/2007	161.29	24.24	--	137.05	2.8 / 4.90	28.0 / 28.0	0.19 / 0.18	0.39 / 0.35	1.5 / 1.5	6.8 / 6.5	<0.001 / <0.001	--		
MW-2R	9/21/2007	161.29	24.28	--	137.01	4.0	24.0	0.08	0.14	0.88	5.7	--	--		
MW-2R	5/1/2008	161.29	24.38	--	136.91	5.25 / 7.51	25.2 / 23.7	0.121 / 0.109	<0.05 / 0.051	1.99 / 1.92	6.2 / 6.6	--	--		
MW-2R	7/15/2008	161.29	24.23	--	137.06	6.40 / 6.40	18.0 / 10.0	0.095 / 0.095	0.069 / 0.079	1.3 / 1.3	5.70 / 5.20	--	--		
MW-2R	5/14/2009	161.29	24.34	--	136.95	5.0	26	0.059	0.031	1.3	4.7	--	--		
MW-2R	8/26/2009	161.29	24.61	--	136.68	4.1 J	21	0.077	0.049	1.1	4.0	--	--		
MW-2R	6/15/2010	161.29	24.29	--	137.00	5.4	8.8	0.026	0.011	0.32	1.46	--	--		
MW-2R	9/5/2010	161.29	24.32	--	136.97	6.0	7.9	0.017	0.008	0.67	3.06	--	--		
MW-2R	5/24/2011	161.29	24.78	--	136.51	4.8 / 4.8	13 / 13	0.031 / 0.029	0.015 / 0.014	0.76 / 0.76	2.6 / 2.6	--	--		
MW-2R	11/10/2011	161.29	24.63	--	136.66	0.85	0.071 J	<0.0005	<0.0005	<0.0005	<0.0005	--	--		
MW-2R	6/20/2012	161.29	24.06	--	137.23	1.2	0.030 J	<0.0005	<0.0005	<0.0005	<0.0005	--	--		
MW-2R	11/5/2012	161.29	23.38	--	137.91	--	--	--	--	--	--	--	--		
MW-2R	11/8/2012	--	--	--	--	0.37	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--		
MW-2R	4/30/2013	161.29	24.48	--	136.81	1.2	2.3	0.0105	0.0016	0.0406	0.469	--	--		
MW-2R	4/30/2013	161.29	24.48	--	136.81	1.3	1.5	0.0057	0.00096 J	0.0015	0.283	--	--	Collected via hydrasleeve	
MW-2R	11/7/2013	161.29	23.67	--	137.62	--	--	--	--	--	--	--	--		
MW-2R	11/8/2013	--	--	--	--	1.7	0.49	0.00084 J	<0.00023	<0.00024	0.0047	--	--		
MW-2R	4/28/2014	161.29	24.11	--	137.18	1.7	4.5	0.012	0.0021	0.37	0.64	--	--		
MW-2R	4/28/2014	161.29	24.11	--	137.18	0.88	0.39	0.0018	0.00020 J	0.030	0.037	--	--	Collected via hydrasleeve	
MW-2R	11/7/2014	161.29	24.55	--	136.74	1.7	5.1	0.0068	<0.0017 J	0.25	0.37	--	--		
MW-2R	4/29/2015	161.29	24.85	--	136.44	0.34 / 0.40	0.011 J / 0.013 J	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	--	--		
MW-2R	11/6/2015	161.29	24.12	--	137.17	0.99 J / 0.63 J	<0.010 / <0.010	<0.001 / <0.003	<0.001 / <0.003	<0.001 / <0.003	<0.001 / <0.003	--	--		
MW-2R	4/21/2016	161.29	24.79	--	136.50	2.7 / 2.6	2.2 / 2.2	0.01 / 0.009 J	0.0009 J / <0.005	0.15 / 0.12	0.231 / 0.18	--	--		
MW-2R	11/1/2016	161.29	24.45	--	136.84	2.5 J / 2.3 J	2.8 J / 2.9 J	0.010 / 0.010	0.001 J / 0.001 J	0.14 / 0.14	0.272 / 0.272	--	--		
MW-2R	5/1/2017	161.29	24.3	--	136.99	0.87 / 0.84	0.82 / 0.82	0.006 / 0.006	<0.0005 / <0.0005	0.078 / 0.084	0.046 / 0.054	--	--		
MW-2R	10/17/2017	161.29	24.18	--	137.11	1.5 J / 1.5 J	2.0 / 2.1	0.009 / 0.01	<0.0005 / <0.0005	0.16 / 0.16	0.153 / 0.153	--	--		
MW-2R	4/27/2018	161.29	24.55	--	136.74	1.4 / 1.3	1.4 / 1.4	0.007 / 0.006	0.0006 J / 0.0005 J	0.14 / 0.13	0.12 / 0.11	<0.0005 / <0.0005	--		
MW-2R	10/18/2018	161.29	24.53	--	136.76	0.38 / 0.35	<0.014 / <0.014	<0.0002 / <0.0002	<0.0002 / <0.0002	<0.0002 / <0.0002	<0.0005 / <0.0005	--	--		
MW-2R	4/9/2019	168.25	24.35 <sup>2</sup>	0.00	143.90	1.2	0.025 J	0.004	<0.0002	0.0005 J	<0.001	<0.0002	<0.001		
MW-2R	9/11/2019	168.25	24.93	0.00	143.32	0.67	0.25	0.005	<0.00039	0.016	0.0020 J	<0.00044	0.0062 *B		
MW-2R	4/22/2020	168.25	24.46	0.00	143.79	0.938	0.207	0.00324	<0.00100	0.00921	<0.00300	<0.00100	<0.00500		
MW-3	2/1/1992	--	--	--	--	--	--	0.006	ND	ND	ND	--	--	Sample date accurate to month and year only	
MW-3	5/1/1992	98.64	22.87	--	75.77	--	--	0.006	ND	ND	ND	--	--	Sample date accurate to month and year only	
MW-3	9/1/1992	98.64	23.12	--	75.52	--	--	0.21	ND	ND	ND	--	--	Sample date accurate to month and year only	
MW-3	11/1/1992	98.64	23.1	--	75.54	--	--	0.012	ND	ND	ND	--	--	Sample date accurate to month and year only	
MW-3	5/1/1993	98.64	23.45	--	75.19	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only	
MW-3	8/1/1993	98.64	23.35	--	75.29	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only	
MW-3	11/1/1993	98.64	23.21	--	75.43	--	--	ND	0.042	ND	ND	--	--	Sample date accurate to month and year only	
MW-3	3/1/1994	98.64	23.16	--	75.48	--	--	ND	ND	ND	0.005	--	--	Sample date accurate to month and year only	
MW-3	6/1/1994	98.64	23.49	--	75.15	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only	
MW-3	8/1/1994	98.64	23.65	--	74.99	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only	
MW-3	12/22/1994	98.64	23.42	--	75.22	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only	
MW-3	4/10/1995	98.64	--	--	--	--	--	ND	ND	ND	ND	--	--		
MW-3	6/20/1995	98.64	22.95	--	75.69	--	--	ND	ND	ND	ND	--	--		
MW-3	6/21/1995	98.64	--	--	--	--	--	--	--	--	--	--	--		
MW-3	8/23/1995	98.64	23.19	--	75.45	--	--	ND	ND	ND	ND	--	--		
MW-3	11/16/1995	98.64	23.23	--	75.41	--	--	ND	ND	ND	ND	--	--		
MW-3	1/30/1996	98.64	23.48	--	75.16	--	--	ND	ND	ND	ND	--	--		
MW-3	6/2/1996	98.64	23.22	--	75.42	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--		
MW-3	8/26/1996	98.64	23.56	--	75.08	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--		
MW-3	10/16/1996	98.64	24.05	--	74.59	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--		
MW-3	4/28/1997	98.64	23.73	--	74.91	--	--	<0.0005	0.00111	<0.0005	0.00169	--	--		
MW-3	9/10/1997	98.64	22.96	--	75.68	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--		
MW-3	4/19/1998	98.64	23.55	--	75.09	--	--	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.001 / <0.001	--	--		
MW-3	9/23/1998	98.64	22.9	--	75.74	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--		
MW-3	4/28/1999	98.64	23.24	--	75.40	--	--	0.00089	<0.0005	<0.0005	<0.0005	<0.01	--		
MW-3	10/13/1999	98.64	23.22	--	75.42	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	--		
MW-3	5/19/2000	98.64	23.6	--	75.04	--	--	<0.001	<0.001	<0.001	<0.002	<0.002	--		
MW-3	9/27/2000	98.64	23.52	--	75.12	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.005	--		
MW-3	5/5/2001	98.64	23.88	--	74.76	--	--	0.000656	<0.0005	<0.0005	<0.001	<0.005	--		
MW-3	8/2/2001	98.64	23.36	--	75.28	0.00136	<0.05	<0.001	<0.001	<0.001	<0.003	--	--	Sample date defaulted to first date listed in historical data table	
MW-3	10/2/2001	98.64	23.72	--	74.92	--	--	0.0011 / 0.000854	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.001 / <0.001	<0.001 / <0.001	--		
MW-3	5/1/2002	160.51	23.72	--	136.79	--	--	0.099 / 0.286	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.001 / <0.001	<0.001 / <0.001	--		
MW-3	9/20/2003	160.51	23.55	--	136.96	--	--	0.000709	<0.0005	<0.0005	<0.001	<0.001	--		

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

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-g (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						1.5	2.2	0.0046	1.1	0.015	0.19	0.14	0.0017	
MW-3	5/20/2003	160.51	24.02	--	136.49	--	--	0.0006 / 0.0006	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.002 / <0.002	--	Sample date defaulted to first date listed in historical data table
MW-3	10/2/2003	160.51	23.84	--	136.67	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	
MW-3	5/1/2004	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed May 2004
MW-4	2/1/1992	--	--	--	--	--	--	0.032	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-4	5/1/1992	98.45	21.72	--	76.73	--	--	--	--	--	--	--	--	Sample date accurate to month and year only
MW-4	9/1/1992	98.45	22.89	--	75.56	--	--	0.005	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-4	11/1/1992	98.45	22.85	--	75.60	--	--	--	--	--	--	--	--	Sample date accurate to month and year only
MW-4	5/1/1993	98.45	23.18	--	75.27	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-4	8/1/1993	98.45	23.17	--	75.28	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-4	11/1/1993	98.45	23.02	--	75.43	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-4	3/1/1994	98.45	--	--	--	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-4	6/1/1994	98.45	23.24	--	75.21	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-4	8/1/1994	98.45	23.43	--	75.02	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-4	12/22/1994	98.45	--	--	--	--	--	--	--	--	--	--	--	
MW-4	3/31/1995	98.45	--	--	--	--	--	--	--	--	--	--	--	
MW-4	6/20/1995	98.45	22.7	--	75.75	--	--	ND	ND	ND	ND	--	--	
MW-4	8/23/1995	98.45	22.99	--	75.46	--	--	ND	ND	ND	ND	--	--	
MW-4	11/16/1995	98.45	23.02	--	75.43	--	--	ND	ND	ND	ND	--	--	
MW-4	1/30/1996	98.45	23.25	--	75.20	--	--	ND	ND	ND	ND	--	--	
MW-4	6/2/1996	98.45	22.97	--	75.48	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-4	8/26/1996	98.45	23.37	--	75.08	--	--	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.001 / <0.001	--	--	
MW-4	4/28/1997	98.45	23.52	--	74.93	--	--	<0.0005	0.00166	<0.0005	0.00159	--	--	
MW-4	9/10/1997	98.45	22.74	--	75.71	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-4	4/19/1998	98.45	23.3	--	75.15	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-4	9/23/1998	98.45	22.68	--	75.77	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-4	5/2/1999	98.45	23.1	--	75.35	--	--	<0.0005	<0.0005	<0.0005	<0.0005	0.626 / <0.005	--	
MW-4	10/13/1999	98.45	23.02	--	75.43	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	--	
MW-4	5/19/2000	98.45	23.39	--	75.06	--	--	<0.001	<0.001	<0.001	<0.002	<0.002	--	
MW-4	9/27/2000	98.45	23.32	--	75.13	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.005	--	
MW-4	5/5/2001	98.45	23.71	--	74.74	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.005	--	
MW-4	8/2/2001	98.45	23.14	--	75.31	0.00106	<0.05	<0.001	<0.001	<0.001	<0.003	--	--	Sample date defaulted to first date listed in historical data table
MW-4	10/2/2001	98.45	23.54	--	74.91	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.001	--	
MW-4	5/1/2002	160.3	--	--	--	--	--	--	--	--	--	--	--	
MW-4	9/20/2002	160.3	23.39	--	136.91	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.001	--	
MW-4	5/20/2003	160.3	23.8	--	136.50	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	Sample date defaulted to first date listed in historical data table
MW-4	10/2/2003	160.3	23.59	--	136.71	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	
MW-4	5/1/2004	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed May 2004
MW-5	2/1/1992	--	--	--	--	--	--	7.2	4.8	2.0	2.9	--	--	Sample date accurate to month and year only
MW-5	5/1/1992	99.13	22.5	--	76.63	--	--	2.5	0.14	0.05	1.8	--	--	Sample date accurate to month and year only
MW-5	9/1/1992	99.13	23.57	--	75.56	--	--	5.9	6.5	2.4	5.3	--	--	Sample date accurate to month and year only
MW-5	11/1/1992	99.13	22.53	--	76.60	--	--	1.3	0.59	0.48	1.7	--	--	Sample date accurate to month and year only
MW-5	5/1/1993	99.13	23.86	--	75.27	--	--	0.066	ND	0.032	0.005	--	--	Sample date accurate to month and year only
MW-5	8/1/1993	99.13	23.85	--	75.28	--	--	0.058	ND	0.005	ND	--	--	Sample date accurate to month and year only
MW-5	11/1/1993	99.13	23.7	--	75.43	--	--	0.006	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-5	3/1/1994	99.13	--	--	--	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-5	6/1/1994	99.13	23.89	--	75.24	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-5	8/1/1994	99.13	24.14	--	74.99	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-5	12/22/1994	99.13	--	--	--	--	--	--	--	--	--	--	--	
MW-5	3/31/1995	99.13	--	--	--	--	--	--	--	--	--	--	--	
MW-5	6/20/1995	99.13	23.4	--	75.73	--	--	ND	ND	ND	ND	--	--	
MW-5	8/23/1995	99.13	23.7	--	75.43	--	--	ND	ND	ND	ND	--	--	
MW-5	11/16/1995	99.13	23.71	--	75.42	--	--	ND	ND	ND	ND	--	--	
MW-5	1/30/1996	99.13	23.95	--	75.18	--	--	ND	ND	ND	ND	--	--	
MW-5	6/2/1996	99.13	23.63	--	75.50	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-5	8/26/1996	99.13	24.19	--	74.94	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-5	10/16/1996	99.13	24.66	--	74.47	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-5	4/28/1997	99.13	24.24	--	74.89	--	--	0.000617	0.000756	<0.0005	<0.001	--	--	
MW-5	9/10/1997	99.13	23.43	--	75.70	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-5	4/19/1998	99.13	24	--	75.13	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-5	9/23/1998	99.13	23.2	--	75.93	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-5	4/28/1999	99.13	23.67	--	75.46	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.01	--	
MW-5	10/13/1999	99.13	23.72	--	75.41	--	--	<0.0005	0.00139	<0.0005	<0.0005	<0.005	--	
MW-5	5/19/2000	99.13	24.08	--	75.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.002	--	
MW-5	9/27/2000	99.13	23.95	--	75.18	--	--	--	--	--	--	--	--	

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

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-g (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Naphthalene (mg/L)	Comments
						<b>1.5</b>	<b>2.2</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.14</b>	<b>0.0017</b>	
MW-5	5/5/2001	99.13	--	--	--	--	--	--	--	--	--	--	--	
MW-5	8/2/2001	99.13	23.84	--	75.29	--	--	--	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-5	10/2/2001	99.13	--	--	--	--	--	--	--	--	--	--	--	
MW-5	5/1/2002	161.01	24.1	--	136.91	--	--	--	--	--	--	--	--	
MW-5	9/20/2002	161.01	24.09	--	136.92	--	--	--	--	--	--	--	--	
MW-5	5/20/2003	161.01	--	--	--	--	--	--	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-5	10/2/2003	161.01	24.23	--	136.78	--	--	--	--	--	--	--	--	
MW-5	5/1/2004	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed May 2004
MW-6	2/1/1992	--	--	--	--	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-6	5/1/1992	--	--	--	--	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-6	9/1/1992	--	--	--	75.22	--	--	--	--	--	--	--	--	Sample date accurate to month and year only
MW-6	8/1/1993	--	--	--	--	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-6	11/1/1993	--	--	--	75.29	--	--	--	--	--	--	--	--	Sample date accurate to month and year only
MW-6	8/2/2001	--	23.98	--	--	<b>0.00025</b>	<0.05	<0.001	<0.001	<0.001	<0.003	--	--	Sample date defaulted to first date listed in historical data table
MW-6	09/21/2001	161.14	--	--	--	--	--	--	--	--	--	--	--	
MW-6	05/01/2004	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed May 2004
MW-7	2/1/1992	97.82	--	--	--	--	--	<b>0.047</b>	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-7	5/1/1992	97.82	22.06	--	75.76	--	--	ND	ND	ND	<b>0.006</b>	--	--	Sample date accurate to month and year only
MW-7	9/1/1992	97.82	22.36	--	75.46	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-7	11/1/1992	97.82	22.41	--	75.41	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-7	5/1/1993	97.82	22.75	--	75.07	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-7	8/1/1993	97.82	22.64	--	75.18	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-7	11/1/1993	97.82	22.49	--	75.33	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-7	3/1/1994	97.82	22.43	--	75.39	--	--	ND	<b>0.011</b>	ND	<b>0.093</b>	--	--	Sample date accurate to month and year only
MW-7	6/1/1994	97.82	22.79	--	75.03	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-7	8/1/1994	97.82	22.88	--	74.94	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-7	12/22/1994	97.82	22.72	--	75.10	--	--	ND	ND	ND	<b>0.0026</b>	--	--	
MW-7	3/31/1995	97.82	--	--	--	--	--	--	--	--	--	--	--	
MW-7	6/20/1995	97.82	22.27	--	75.55	--	--	ND	ND	ND	ND	--	--	
MW-7	8/23/1995	97.82	22.46	--	75.36	--	--	<b>0.00073</b>	ND	ND	<b>0.00073</b>	--	--	
MW-7	11/16/1995	97.82	22.6	--	75.22	--	--	<b>0.00051</b>	ND	ND	<b>0.0024</b>	--	--	
MW-7	1/30/1996	97.82	22.75	--	75.07	--	--	ND	ND	ND	<b>0.0017</b>	--	--	
MW-7	6/2/1996	97.82	--	--	--	--	--	--	--	--	--	--	--	
MW-7	8/26/1996	97.82	22.78	--	75.04	--	--	<0.0005	<0.0005	<b>0.00059</b>	<b>0.0083</b>	--	--	
MW-7	10/16/1996	97.82	23.44	--	74.38	--	--	<0.0005	<0.0005	<b>0.001</b>	<b>0.0063</b>	--	--	
MW-7	4/28/1997	97.82	23.08	--	74.74	--	--	--	--	--	--	--	--	
MW-7	9/10/1997	97.82	22.36	--	75.46	--	--	<b>0.0017</b>	<0.0005	<0.0005	<b>0.00294</b>	--	--	
MW-7	4/19/1998	97.82	22.9	--	74.92	--	--	<0.0005	<0.0005	<0.005	<0.002	--	--	
MW-7	9/23/1998	97.82	22.12	--	75.70	--	--	<b>0.000731</b>	<0.0005	<b>0.00568</b>	<0.0015	--	--	
MW-7	4/28/1999	97.82	22.71	--	75.11	--	--	<b>0.00091</b>	<b>0.00078</b>	<b>0.00197</b>	<b>0.00104</b>	<0.01	--	
MW-7	10/13/1999	97.82	22.64	--	75.18	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	--	
MW-7	5/19/2000	97.82	22.99	--	74.83	--	--	<0.001	<0.001	<0.001	<0.002	<0.002	--	
MW-7	9/27/2000	97.82	22.98	--	74.84	--	--	<0.0005	<0.0005	<b>0.00619</b>	<0.002	<0.005	--	
MW-7	5/5/2001	97.82	23.29	--	74.53	--	--	<0.0005	<0.0005	<b>0.0006</b>	<0.001	<0.005	--	
MW-7	8/2/2001	97.82	22.75	--	75.07	<b>0.00211</b>	<b>0.0654</b>	<0.001	<0.001	<0.001	<0.003	--	--	Sample date defaulted to first date listed in historical data table
MW-7	10/2/2001	97.82	23.14	--	74.68	--	--	<0.0005	<0.0005	<b>0.00109</b>	<0.001	<0.001	--	
MW-7	5/1/2002	159.86	23.09	--	136.77	--	--	<0.0005	<0.0005	<0.0005	<b>0.00127</b>	<0.001	--	
MW-7	9/20/2002	159.86	22.95	--	136.91	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.001 / 0.002	--	
MW-7	5/20/2003	159.86	23.44	--	136.42	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	--	Sample date defaulted to first date listed in historical data table
MW-7	10/2/2003	159.86	23.3	--	136.56	--	--	<0.0005	<0.0007	<0.0008	<0.0016	<0.002	--	
MW-7	5/1/2004	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed May 2004
MW-8	2/1/1992	--	--	--	--	--	--	<b>0.16</b>	<b>0.28</b>	<b>3.4</b>	<b>0.12</b>	--	--	Sample date accurate to month and year only
MW-8	5/1/1992	98.09	22.24	--	75.85	--	--	<b>0.11</b>	<b>0.2</b>	<b>2.3</b>	<b>9.9</b>	--	--	Sample date accurate to month and year only
MW-8	9/1/1992	98.09	22.43	--	75.66	--	--	<b>0.13</b>	<b>0.26</b>	<b>2.6</b>	<b>0.11</b>	--	--	Sample date accurate to month and year only
MW-8	11/1/1992	98.09	22.5	--	75.59	--	--	<b>0.9</b>	<b>0.17</b>	<b>1.3</b>	<b>7.5</b>	--	--	Sample date accurate to month and year only
MW-8	5/1/1993	98.09	22.84	--	75.25	--	--	<b>9.3</b>	<b>23.0</b>	<b>1.8</b>	<b>8.5</b>	--	--	Sample date accurate to month and year only
MW-8	8/1/1993	98.09	22.8	--	75.29	--	--	<b>11.0</b>	<b>25.0</b>	<b>1.7</b>	<b>12.0</b>	--	--	Sample date accurate to month and year only
MW-8	11/1/1993	98.09	22.54	--	75.55	--	--	<b>9.7</b>	<b>26.0</b>	<b>2.0</b>	<b>14.0</b>	--	--	Sample date accurate to month and year only
MW-8	3/1/1994	98.09	22.43	--	75.66	--	--	<b>6.4</b>	<b>25.0</b>	<b>1.8</b>	<b>13.0</b>	--	--	Sample date accurate to month and year only
MW-8	6/1/1994	98.09	22.43	--	75.66	--	--	<b>10.0</b>	<b>33.0</b>	<b>2.9</b>	<b>22.0</b>	--	--	Sample date accurate to month and year only
MW-8	8/1/1994	98.09	22.92	--	75.17	--	--	<b>8.4</b>	<b>39.0</b>	<b>2.7</b>	<b>19.0</b>	--	--	Sample date accurate to month and year only
MW-8	12/22/1994	98.09	22.74	--	75.35	--	--	<b>3.9</b>	<b>13.0</b>	<b>0.8</b>	<b>12.0</b>	--	--	
MW-8	3/31/1995	98.09	22.76	--	75.33	--	--	<b>4.8</b>	<b>13.0</b>	<b>1.4</b>	<b>9.6</b>	--	--	



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

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-g (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Naphthalene (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>						<b>1.5</b>	<b>2.2</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.14</b>	<b>0.0017</b>	
MW-8	6/20/1995	98.09	22.32	--	75.77	--	--	4.1	20.0	1.3	15.0	--	--	
MW-8	8/23/1995	98.09	22.51	--	75.58	--	--	3.6	21.0	1.9	20.0	--	--	
MW-8	11/16/1995	98.09	22.59	--	75.50	--	--	3.2	18.0	1.7	16.0	--	--	
MW-8	1/30/1996	98.09	22.71	--	75.38	--	--	3.4	23.0	2.0	20.0	--	--	
MW-8	6/2/1996	98.09	22.57	--	75.52	--	--	3.4	15.9	1.47	12.7	--	--	
MW-8	8/26/1996	98.09	22.75	--	75.34	--	--	2.43 / 2.86	16.8 / 18.8	1.44 / 1.63	18.4 / 20.5	--	--	
MW-8	10/16/1996	98.09	23.42	--	74.67	--	--	6.79	24.3	2.04	15.1	--	--	
MW-8	4/28/1997	98.09	23.14	--	74.95	--	--	4.27 / 4.54	9.78 / 13.9	1.29 / 1.37	8.56 / 9.29	--	--	
MW-8	9/10/1997	98.09	22.43	--	75.66	--	--	2.35	6.52	0.814	7.48	--	--	
MW-8	4/19/1998	98.09	22.93	--	75.16	--	--	1.14	6.79	0.571	12.9	--	--	
MW-8	9/23/1998	98.09	22.36	--	75.73	--	--	0.683	4.2	0.539	9.23	--	--	
MW-8	9/21/2001	159.68	--	--	--	--	--	--	--	--	--	--	--	
MW-8R	9/24/2006	159.71	22.06	--	137.65	2.3	22.0	0.075	1.8	0.72	4.1	--	--	
MW-8R	5/14/2007	159.71	22.57	--	137.14	4.1	49.0	0.16	4.5	2.1	10.0	<0.001	--	
MW-8R	9/21/2007	159.71	22.6	--	137.11	4.9	57.0	0.12	7.4	1.8	11.0	--	--	
MW-8R	5/1/2008	159.71	22.79	--	136.92	3.67	55.6	0.128	3.59	3.0	14.9	--	--	
MW-8R	7/15/2008	159.71	22.49	--	137.22	5.30	18.0	0.060	4.6	2.1	12.50	--	--	
MW-8R	5/14/2009	159.71	22.71	--	137.00	4.1	51	0.079	3.9	2.4	12.0	--	--	
MW-8R	8/26/2009	159.71	22.9	--	136.81	3.3 J	49	0.072	2.9	2.0	11.4	--	--	
MW-8R	4/20/2010	159.71	22.89	--	136.82	6.7 / 6.4	40 J / 18 J	0.017 J / 0.017 J	0.50 / 0.51	1.1 / 1.2	6.3 / 6.7	--	--	
MW-8RR	7/26/2011	159.55	22.84	--	136.71	6.7	17	0.15	2.1	0.49	3.4	--	--	
MW-8RR	11/10/2011	159.55	22.8	--	136.75	0.78	0.030 J	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-8RR	6/20/2012	159.55	22.21	--	137.34	0.56	0.019 J	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-8RR	11/5/2012	159.55	21.57	--	137.98	--	--	--	--	--	--	--	--	
MW-8RR	11/8/2012	159.55	--	--	--	0.22 J	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-8RR	4/30/2013	159.55	22.61	--	136.94	<0.56	0.048 J	0.0017	0.0029	0.0016	0.0117	--	--	
MW-8RR	4/30/2013	159.55	22.61	--	136.94	0.66	<0.10	0.00078 J	0.00084 J	<0.000081	<0.00022	--	--	Collected via hydrasleeve
MW-8RR	11/7/2013	159.55	21.9	--	137.65	--	--	--	--	--	--	--	--	
MW-8RR	11/8/2013	159.55	--	--	--	0.75	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	--	--	
MW-8RR	4/28/2014	159.55	22.32	--	137.23	0.12 J	<0.050	<0.00015	<0.00011	0.00035 J	<0.00040	--	--	
MW-8RR	4/28/2014	159.55	22.32	--	137.23	0.37	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	--	--	Collected via hydrasleeve
MW-8RR	11/7/2014	159.55	22.73	--	136.82	0.33 J	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	--	--	
MW-8RR	4/29/2015	159.55	23.03	--	136.52	0.22 J	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-8RR	11/6/2015	159.55	22.32	--	137.23	0.13 J	<0.010	<0.001	<0.001	<0.001	<0.001	--	--	
MW-8RR	4/21/2016	159.55	22.96	--	136.59	0.31	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-8RR	11/1/2016	159.55	22.6	--	136.95	0.37 J	0.013 J	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-8RR	5/1/2017	159.55	22.46	--	137.09	0.60	0.014 J	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-8RR	10/17/2017	159.55	23.35	--	136.20	0.24 J	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-8RR	4/27/2018	159.55	22.72	--	136.83	0.12 J	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-8RR	10/18/2018	159.55	22.67	--	136.88	0.11 J	<0.014	<0.0002	<0.0002	0.0002 J	0.0009	--	--	
MW-8RR	4/9/2019	166.43	22.51 <sup>2</sup>	0.00	143.92	<0.25 B	<0.014	<0.0002	<0.0002	<0.0004	<0.001	<0.0002	<0.001	TPH-d Non detect reported to LOQ
MW-8RR	9/11/2019	166.43	23.03	0.00	143.40	<0.1/ <0.1	0.16/0.16	<0.00050B / <0.00050B	<0.00039 / <0.00039	<0.00050 / <0.00050	<0.00114 / <0.00114	<0.00044 / <0.00044	0.000023 J*B / 0.00010 J*B	TPH-d Non detect reported to LOQ
MW-8RR	4/22/2020	166.43	22.61	0.00	143.82	<0.824 J	<0.100	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00500	
MW-9	2/1/1992	--	--	--	--	--	--	0.03	0.059	0.074	0.027	--	--	Sample date accurate to month and year only
MW-9	5/1/1992	90.3	14.57	--	75.73	--	--	ND	0.003	0.013	0.002	--	--	Sample date accurate to month and year only
MW-9	9/1/1992	90.3	14.74	--	75.56	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-9	11/1/1992	90.3	14.66	--	75.64	--	--	0.003	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-9	5/1/1993	90.3	15.11	--	75.19	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-9	8/1/1993	90.3	15.12	--	75.18	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-9	11/1/1993	90.3	14.96	--	75.34	--	--	ND	0.011	ND	ND	--	--	Sample date accurate to month and year only
MW-9	3/1/1994	90.3	14.99	--	75.31	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-9	6/1/1994	90.3	15.23	--	75.07	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-9	8/1/1994	90.3	15.48	--	74.82	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-9	12/22/1994	90.3	15.13	--	75.17	--	--	ND	ND	ND	ND	--	--	
MW-9	3/31/1995	90.3	14.98	--	75.32	--	--	ND	ND	ND	ND	--	--	
MW-9	6/20/1995	90.3	14.68	--	75.62	--	--	ND	ND	ND	ND	--	--	
MW-9	8/23/1995	90.3	15.02	--	75.28	--	--	ND	0.00067	ND	0.0022	--	--	
MW-9	11/16/1995	90.3	15	--	75.30	--	--	ND	ND	ND	ND	--	--	
MW-9	1/30/1996	90.3	15.22	--	75.08	--	--	ND	ND	ND	ND	--	--	
MW-9	6/2/1996	90.3	14.93	--	75.37	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-9	8/26/1996	90.3	15.5	--	74.80	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-9	10/16/1996	90.3	15.81	--	74.49	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-9	4/28/1997	90.3	15.5	--	74.80	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	

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**First Quarter 1992 to Current**  
Former Chevron-Branded Service Station 97324  
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Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-g (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						1.5	2.2	0.0046	1.1	0.015	0.19	0.14	0.0017	
MW-9	9/10/1997	90.3	14.76	--	75.54	--	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-9	4/19/1998	90.3	15.35	--	74.95	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-9	9/23/1998	90.3	14.39	--	75.91	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-9	4/28/1999	90.3	14.98	--	75.32	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.01	--	
MW-9	10/13/1999	90.3	15.02	--	75.28	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	--	
MW-9	5/19/2000	90.3	15.4	--	74.90	--	--	<0.001 / <0.001	<0.001 / <0.001	<0.001 / <0.001	<0.002 / <0.002	<0.002 / <0.002	--	
MW-9	9/27/2000	90.3	15.24	--	75.06	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.005	--	
MW-9	5/5/2001	90.3	15.69	--	74.61	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.005	--	
MW-9	8/2/2001	90.3	15.16	--	75.14	<0.001	--	<0.001	<0.001	<0.001	<0.003	--	--	Sample date defaulted to first date listed in historical data table
MW-9	10/2/2001	90.3	--	--	--	--	<0.05	--	--	--	--	--	--	
MW-9	5/1/2002	152.33	15.38	--	136.95	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.001	--	
MW-9	9/20/2002	152.33	15.32	--	137.01	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.001 / 0.002	--	
MW-9	5/20/2003	152.33	15.77	--	136.56	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	--	Sample date defaulted to first date listed in historical data table
MW-9	10/2/2003	152.33	15.54	--	136.79	--	--	<0.0005	<0.0007	<0.0008	<0.0016	<0.002	--	
MW-9	6/1/2004	152.33	15.11	--	137.22	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.002	--	
MW-9	9/21/2004	152.33	15.58	--	136.75	--	--	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.001 / <0.001	<0.002 / <0.002	--	Sample date defaulted to first date listed in historical data table
MW-9	5/12/2005	152.33	15.26	--	137.07	--	--	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0015 / <0.0015	<0.0025 / <0.0025	--	
MW-9	9/19/2005	152.33	14.8	--	137.53	--	--	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.001 / <0.001	<0.0025 / <0.0025	--	
MW-9	5/8/2006	152.33	15.74	--	136.59	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-9	9/24/2006	152.34	14.88	--	137.46	--	--	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.001 / <0.001	--	--	
MW-9	5/14/2007	152.34	15.31	--	137.03	--	--	<0.0005	<0.0007	<0.0008	<0.0016	<0.0005	--	
MW-9	9/21/2007	152.34	15.23	--	137.11	--	--	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.001 / <0.001	--	--	
MW-9	5/1/2008	152.34	15.37	--	136.97	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	--	
MW-9	7/15/2008	152.34	15.27	--	137.07	--	--	<0.0005	<0.0005	<0.0005	<0.0001	--	--	
MW-9	5/14/2009	152.34	16.37	--	135.97	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-9	8/26/2009	152.34	15.61	--	136.73	--	0.12	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-9	4/20/2010	152.34	15.6	--	136.74	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-9	9/5/2010	152.34	15.35	--	136.99	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	--	
MW-9	5/24/2011	152.34	15.74	--	136.60	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-9	11/10/2011	152.34	15.6	--	136.74	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-9	6/20/2012	152.34	15.02	--	137.32	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-9	11/5/2012	152.34	14.41	--	137.93	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-9	4/30/2013	152.34	15.37	--	136.97	--	--	<0.00062	<0.00077	<0.00081	<0.00022	--	--	
MW-9	4/30/2013	152.34	15.37	--	136.97	--	--	<0.00062	<0.00077	<0.00081	<0.00022	--	--	Collected via hydrasleeve
MW-9	11/7/2013	152.34	14.75	--	137.59	--	--	--	--	--	--	--	--	
MW-9	11/8/2013	--	--	--	--	--	--	<0.00024	<0.00023	<0.00024	<0.00072	--	--	
MW-9	4/28/2014	152.34	15.17	--	137.17	--	--	<0.00015	<0.00011	<0.00016	<0.00040	--	--	
MW-9	4/28/2014	152.34	15.17	--	137.17	--	--	<0.00015	<0.00011	<0.00016	<0.00040	--	--	Collected via hydrasleeve
MW-9	11/7/2014	152.34	15.56	--	136.78	--	--	<0.00015	<0.00011	<0.00016	<0.00040	--	--	
MW-9	4/29/2015	152.34	15.84	--	136.50	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-9	11/6/2015	152.34	15.16	--	137.18	--	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-9	4/21/2016	152.34	15.79	--	136.55	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-9	11/1/2016	152.34	15.43	--	136.91	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-9	5/1/2017	152.34	15.27	--	137.07	--	--	<0.003	<0.003	<0.003	<0.003	--	--	
MW-9	10/17/2017	152.34	15.15	--	137.19	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-9	4/27/2018	152.34	15.52	--	136.82	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-9	10/18/2018	152.34	15.44	--	136.90	--	--	<0.0002	<0.0002	<0.0002	<0.0005	--	--	
MW-9	4/9/2019	159.24	15.36 <sup>2</sup>	0.00	143.88	<0.25 B	--	<0.0002	<0.0002	<0.0004	<0.001	<0.0002	<0.001	TPH-d Non detect reported to LOQ
MW-9	9/11/2019	159.24	15.87	0.00	143.37	<0.1	<0.076	<0.00050B	<0.00039	<0.00050	<0.00114	<0.00044	0.00032 J*B	TPH-d Non detect reported to LOQ
MW-9	4/22/2020	159.24	15.39	0.00	143.85	<0.800 [<0.800]	0.0456 J [0.0465 J]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00300 [<0.00300]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	
MW-10	2/1/1992	--	--	--	--	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-10	9/1/1992	--	--	--	79.61	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-10	8/1/1993	--	--	--	79.29	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-10	8/2/2001	--	20.64	--	--	0.00282	--	0.00116	<0.001	<0.001	<0.003	--	--	Sample date defaulted to first date listed in historical data table
MW-10	9/21/2001	160.9	--	--	--	--	<0.05	--	--	--	--	--	--	
MW-10	5/1/2004	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed May 2004
MW-11	2/1/1992	98.38	--	--	--	--	--	0.08	ND	0.02	0.01	--	--	Sample date accurate to month and year only
MW-11	5/1/1992	98.38	22.65	--	75.73	--	--	1.6	8.7	1.2	0.20	--	--	Sample date accurate to month and year only
MW-11	9/1/1992	98.38	22.76	--	75.62	--	--	0.36	--	0.03	0.061	--	--	Sample date accurate to month and year only
MW-11	11/1/1992	98.38	22.73	--	75.65	--	--	1.2	0.074	0.02	0.004	--	--	Sample date accurate to month and year only
MW-11	5/1/1993	98.38	23.06	--	75.32	--	--	0.03	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-11	8/1/1993	98.38	23.05	--	75.33	--	--	0.042	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-11	11/1/1993	98.38	22.87	--	75.51	--	--	0.11	ND	0.11	0.1	--	--	Sample date accurate to month and year only
MW-11	3/1/1994	98.38	22.82	--	75.56	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only

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

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-g (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						1.5	2.2	0.0046	1.1	0.015	0.19	0.14	0.0017	
MW-11	6/1/1994	98.38	23.09	--	75.29	--	--	0.012	ND	0.011	0.019	--	--	Sample date accurate to month and year only
MW-11	8/1/1994	98.38	23.32	--	75.06	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-11	12/22/1994	98.38	23.02	--	75.36	--	--	ND	ND	ND	ND	--	--	
MW-11	3/31/1995	98.38	22.91	--	75.47	--	--	ND	ND	ND	ND	--	--	
MW-11	6/20/1995	98.38	22.57	--	75.81	--	--	0.00072	ND	ND	ND	--	--	
MW-11	8/23/1995	98.38	22.89	--	75.49	--	--	0.0013	ND	ND	ND	--	--	
MW-11	11/16/1995	98.38	22.88	--	75.50	--	--	0.0016	ND	ND	ND	--	--	
MW-11	1/30/1996	98.38	23.14	--	75.24	--	--	0.00068	ND	ND	ND	--	--	
MW-11	6/2/1996	98.38	22.82	--	75.56	--	--	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / 0.00063	<0.001 / <0.001	--	--	
MW-11	8/26/1996	98.38	23.31	--	75.07	--	--	0.0016	<0.0005	<0.0005	<0.001	--	--	
MW-11	10/16/1996	98.38	23.69	--	74.69	--	--	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.001 / <0.001	--	--	
MW-11	4/28/1997	98.38	23.38	--	75.00	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-11	9/10/1997	98.38	22.62	--	75.76	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-11	4/19/1998	98.38	23.22	--	75.16	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-11	9/23/1998	98.38	22.41	--	75.97	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-11	4/28/1999	98.38	22.86	--	75.52	--	--	<0.0005	0.00063	<0.0005	<0.0005	<0.01	--	
MW-11	10/13/1999	98.38	22.93	--	75.45	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	--	
MW-11	5/19/2000	98.38	23.27	--	75.11	--	--	<0.001	<0.001	<0.001	<0.002	<0.002	--	
MW-11	9/27/2000	98.38	23.14	--	75.24	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.005	--	
MW-11	5/5/2001	98.38	23.59	--	74.79	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.005	--	
MW-11	8/0/2001	98.38	23.05	--	75.33	<0.001	--	<0.001	<0.001	<0.001	<0.003	--	--	Sample date defaulted to first date listed in historical data table
MW-11	10/2/2001	98.38	23.46	--	74.92	--	<0.05	<0.0005	<0.0005	<0.0005	<0.001	<0.001	--	
MW-11	5/1/2002	160.22	23.32	--	136.90	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.001	--	
MW-11	9/20/2002	160.22	23.21	--	137.01	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.001 / 0.002	--	
MW-11	5/20/2003	160.22	--	--	--	--	--	--	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-11	10/02/2003	160.22	--	--	--	--	--	--	--	--	--	--	--	
MW-11	5/1/2004	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed May 2004
MW-12	2/1/1992	--	--	--	--	--	--	0.0033	ND	ND	0.0038	--	--	Sample date accurate to month and year only
MW-12	9/1/1992	--	--	--	77.00	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-12	8/1/1993	--	--	--	76.58	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-12	8/2/2001	--	22.51	--	--	0.000252	--	<0.001	<0.001	<0.001	<0.003	--	--	Sample date defaulted to first date listed in historical data table
MW-12	9/21/2001	160.78	--	--	--	--	<0.05	--	--	--	--	--	--	
MW-12	5/1/2004	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed May 2004
MW-14A	5/1/1992	--	--	--	75.72	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-14A	9/1/1992	--	--	--	75.59	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-14A	11/1/1992	--	--	--	75.64	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-14A	5/1/1993	--	--	--	75.29	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-14A	8/1/1993	--	--	--	75.29	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-14A	11/1/1993	--	--	--	75.43	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-14A	6/1/1994	--	--	--	75.23	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-14A	8/1/1994	--	--	--	74.95	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-14A	8/2/2001	--	23.03	--	--	0.000321	--	<0.001	<0.001	<0.001	<0.003	--	--	Sample date defaulted to first date listed in historical data table
MW-14A	9/21/2001	160.21	--	--	--	--	<0.05	--	--	--	--	--	--	
MW-14A	5/1/2004	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed May 2004
MW-14B	9/1/1992	--	--	--	--	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-14B	8/1/1993	--	--	--	75.32	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-14B	8/2/2001	--	23.11	--	--	<0.001	--	<0.001	<0.001	<0.001	<0.003	--	--	Sample date defaulted to first date listed in historical data table
MW-14B	09/21/2001	160.2	--	--	--	--	<0.05	--	--	--	--	--	--	
MW-14B	05/01/2004	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed May 2004
MW-15	9/1/1992	--	--	--	--	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-15	11/1/1992	87.01	11.37	--	75.64	--	--	0.002	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-15	5/1/1993	87.01	11.71	--	75.30	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-15	8/1/1993	87.01	11.71	--	75.30	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-15	11/1/1993	87.01	11.54	--	75.47	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-15	3/1/1994	87.01	11.52	--	75.49	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-15	6/1/1994	87.01	11.77	--	75.24	--	--	ND	ND	ND	ND	--	--	Sample date accurate to month and year only
MW-15	8/1/1994	87.01	12.02	--	74.99	--	--	ND	ND	ND	ND	--	--	
MW-15	12/22/1994	87.01	11.68	--	75.33	--	--	ND	ND	ND	ND	--	--	
MW-15	3/31/1995	87.01	11.53	--	75.48	--	--	ND	ND	ND	ND	--	--	
MW-15	6/20/1995	87.01	11.23	--	75.78	--	--	ND	ND	ND	ND	--	--	Trace NAPL
MW-15	8/23/1995	87.01	11.55	--	75.46	--	--	ND	ND	ND	ND	--	--	
MW-15	11/16/1995	87.01	11.55	--	75.46	--	--	ND	ND	ND	ND	--	--	



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

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-g (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						1.5	2.2	0.0046	1.1	0.015	0.19	0.14	0.0017	
MW-15	1/30/1996	87.01	11.78	--	75.23	--	--	ND	ND	ND	ND	--	--	
MW-15	6/2/1996	87.01	11.48	--	75.53	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	Insufficient recharge
MW-15	8/26/1996	87.01	12.03	--	74.98	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-15	10/16/1996	87.01	12.5	--	74.51	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-15	4/28/1997	87.01	12.04	--	74.97	--	--	<0.0005	<b>0.000527</b>	<0.0005	<0.001	--	--	
MW-15	9/10/1997	87.01	11.29	--	75.72	--	--	<0.002	<0.002	<0.002	<0.002	--	--	
MW-15	4/19/1998	87.01	11.9	--	75.11	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-15	9/23/1998	87.01	11.06	--	75.95	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-15	4/28/1999	87.01	11.52	--	75.49	--	--	<0.0005	<b>0.00059</b>	<0.0005	<0.0005	<0.01	--	
MW-15	10/13/1999	87.01	11.57	--	75.44	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	--	
MW-15	5/19/2000	87.01	11.95	--	75.06	--	--	<0.001	<0.001	<0.001	<0.002	<0.002	--	
MW-15	9/27/2000	87.01	11.8	--	75.21	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.005	--	
MW-15	5/5/2001	87.01	--	--	--	--	--	--	--	--	--	--	--	
MW-15	10/20/2001	87.01	--	--	--	--	--	--	--	--	--	--	--	
MW-15	5/1/2002	148.9	--	--	--	--	--	--	--	--	--	--	--	
MW-15	9/20/2002	148.9	--	--	--	--	--	--	--	--	--	--	--	
MW-15	5/20/2003	148.9	--	--	--	--	--	--	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-15	10/2/2003	148.9	8.58	--	140.32	--	--	<0.0005	<0.0007	<0.0008	<0.0016	<0.002	--	
MW-15	6/1/2004	148.9	--	--	--	--	--	--	--	--	--	--	--	
MW-15	9/21/2004	148.9	--	--	--	--	--	--	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-15	5/12/2005	148.9	--	--	--	--	--	--	--	--	--	--	--	
MW-15	9/19/2005	148.9	--	--	--	--	--	--	--	--	--	--	--	
MW-15	5/8/2006	148.9	--	--	--	--	--	--	--	--	--	--	--	
MW-16	8/2/2001	--	13.92	--	--	<0.0001	--	<0.001	<0.001	<0.001	<0.003	--	--	Sample date defaulted to first date listed in historical data table
MW-16	10/2/2001	--	14.33	--	--	--	<0.05	<0.0005	<0.0005	<0.0005	<0.001	<0.001	--	Car parked over well
MW-16	5/1/2002	151.08	14.12	--	136.96	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.001	--	Car parked over well
MW-16	9/20/2002	151.08	14.04	--	137.04	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.001 / 0.002	--	
MW-16	5/20/2003	151.08	14.51	--	136.57	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	--	Sample date defaulted to first date listed in historical data table
MW-16	10/2/2003	151.08	14.3	--	136.78	--	--	<0.0005	<0.0007	<0.0008	<0.0016	<0.002	--	
MW-16	6/1/2004	151.08	13.86	--	137.22	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.002	--	
MW-16	9/21/2004	151.08	14.32	--	136.76	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.002	--	Sample date defaulted to first date listed in historical data table
MW-16	5/12/2005	151.08	14.04	--	137.04	--	--	<0.0005	<0.0005	<0.0005	<0.0015	<0.0025	--	
MW-16	9/19/2005	151.08	13.53	--	137.55	--	--	<0.0005	<0.0005	<0.0005	<0.001	<b>0.0025</b>	--	
MW-16	5/8/2006	151.08	14.53	--	136.55	--	--	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.001 / <0.001	--	--	
MW-16	9/24/2006	152.13	13.69	--	138.44	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-16	5/14/2007	152.13	14.13	--	138.00	--	--	<0.0005	<0.0007	<0.0008	<0.0016	<0.0005	--	
MW-16	9/12/2007	152.13	14.01	--	138.12	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
MW-16	5/1/2008	152.13	14.18	--	137.95	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	--	
MW-16	5/14/2009	152.13	--	--	--	--	--	--	--	--	--	--	--	Unable to Access - behind fenced area
MW-17	8/2/2001	--	11.7	--	--	<b>0.000118</b>	--	<0.0001	<0.001	<0.001	<0.003	--	--	Sample date defaulted to first date listed in historical data table
MW-17	10/2/2001	--	12.12	--	--	--	<0.05	<0.0005	<0.005	<0.005	<0.001	<0.001	--	
MW-17	5/1/2002	148.89	11.91	--	136.98	--	--	<0.0005	<0.005	<0.005	<0.001	<0.001	--	
MW-17	9/20/2002	148.89	11.86	--	137.03	--	--	<0.0005	<0.005	<0.005	<0.001	<0.001 / 0.002	--	
MW-17	5/20/2003	148.89	12.3	--	136.59	--	--	<0.0005	<0.005	<0.005	<0.001	<0.0005	--	Sample date defaulted to first date listed in historical data table
MW-17	10/2/2003	148.89	12.07	--	136.82	--	--	<0.0005	<0.0007	<0.0008	<0.0016	<0.002	--	
MW-17	6/1/2004	148.89	11.65	--	137.24	--	--	<0.0005 / <0.0005	<0.0005 / <0.0007	<0.0005 / <0.0008	<0.001 / <0.0008	<0.002 / <0.002	--	
MW-17	9/21/2004	148.89	12.13	--	136.76	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.002	--	Sample date defaulted to first date listed in historical data table
MW-17	5/12/2005	148.89	11.81	--	137.08	--	--	--	--	--	--	--	--	
MW-17	9/19/2005	148.89	11.45	--	137.44	--	--	--	--	--	--	--	--	
MW-17	5/8/2006	148.89	13.56	--	135.33	--	--	--	--	--	--	--	--	
MW-17	9/24/2006	148.91	12.69	--	136.22	--	--	--	--	--	--	--	--	
MW-17	5/14/2007	148.91	13.27	--	135.64	--	--	--	--	--	--	--	--	
MW-17	9/21/2007	148.91	11.77	--	137.14	--	--	--	--	--	--	--	--	
MW-17	5/1/2008	148.91	11.9	--	137.01	--	--	--	--	--	--	--	--	
MW-17	5/14/2009	148.91	--	--	--	--	--	--	--	--	--	--	--	Unable to Access - behind fenced area
MW-18	8/2/2001	--	13.3	--	--	<b>0.0132</b>	--	<0.001	<0.001	<0.001	<0.003	--	--	Sample date defaulted to first date listed in historical data table
MW-18	10/2/2001	--	13.46	--	--	--	<b>0.162</b>	<0.0005	<0.0005	<b>0.00139</b>	<b>0.0112</b>	<0.001	--	
MW-18	5/1/2002	150.5	12.88	--	137.62	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.001	--	
MW-18	9/20/2002	150.5	13.17	--	137.33	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.001 / 0.002	--	
MW-18	5/20/2003	150.5	13.6	--	136.90	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	--	Sample date defaulted to first date listed in historical data table
MW-18	10/2/2003	150.5	14.23	--	136.27	--	--	<0.0005	<0.0007	<0.0008	<0.0016	<0.002	--	
MW-18	6/1/2004	150.5	12.96	--	137.54	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.002	--	
MW-18	9/21/2004	150.5	14.01	--	136.49	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.002	--	Sample date defaulted to first date listed in historical data table

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

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-g (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Naphthalene (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>						<b>1.5</b>	<b>2.2</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.14</b>	<b>0.0017</b>	
MW-18	5/12/2005	150.5	13.06	--	137.44	--	--	--	--	--	--	--	--	
MW-18	9/19/2005	150.5	12.74	--	137.76	--	--	--	--	--	--	--	--	
MW-18	05/08/2006	150.78	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	1/30/1996	--	--	--	--	--	--	ND	ND	ND	ND	--	--	
Trip Blank	6/2/1996	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
Trip Blank	8/26/1996	--	--	--	--	--	--	<0.0005	<b>0.00061</b>	<0.0005	<0.001	--	--	
Trip Blank	10/16/1996	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
Trip Blank	4/28/1997	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
Trip Blank	9/10/1997	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
Trip Blank	4/19/1998	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
Trip Blank	9/23/1998	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
Trip Blank	4/28/1999	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.01	--	
Trip Blank	10/13/1999	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	--	
Trip Blank	9/27/2000	--	--	--	--	--	--	<0.0005	<b>0.000572</b>	<0.0005	<0.001	<0.005	--	
Trip Blank	5/5/2001	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.005	--	
Trip Blank	10/2/2001	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.001	--	
Trip Blank	5/1/2002	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.001	--	
Trip Blank	9/20/2002	--	--	--	--	--	--	<0.0005	<b>0.000518</b>	<0.0005	<0.001	<0.001	--	
Trip Blank	5/20/2003	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	Sample date defaulted to first date listed in historical data table
Trip Blank	10/2/2003	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	
Trip Blank	6/1/2004	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	
Trip Blank	9/21/2004	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	Sample date defaulted to first date listed in historical data table
Trip Blank	5/12/2005	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0015	<0.0025	--	
Trip Blank	9/19/2005	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0015	<0.0025	--	
Trip Blank	5/8/2006	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
Trip Blank	9/24/2006	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
Trip Blank	5/14/2007	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	--	
Trip Blank	9/21/2007	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
Trip Blank	5/1/2008	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	--	
Trip Blank	7/15/2008	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.001	--	--	
Trip Blank	4/30/2009	--	--	--	--	--	--	<0.01	<0.0005	<0.0005	<0.001	--	--	
Trip Blank	8/19/2009	--	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.001	--	--	
Trip Blank	4/20/2010	--	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.001	--	--	
Trip Blank	6/10/2010	--	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.001	--	--	
Trip Blank	8/27/2010	--	--	--	--	--	--	<0.010	<0.010	<0.0005	<0.0005	--	--	
Trip Blank	5/24/2011	--	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	--	--	
Trip Blank	7/26/2011	--	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	--	--	
Trip Blank	11/10/2011	--	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	--	--	
Trip Blank	6/20/2012	--	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	--	--	
Trip Blank	11/5/2012	--	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	--	--	
Trip Blank	4/30/2013	--	--	--	--	--	--	<0.010	<0.00062	<0.00077	<0.00081	--	--	
Trip Blank	11/08/2013	--	--	--	--	--	--	<0.10	<0.00024	<0.00023	<0.00024	--	--	
Trip Blank	4/28/2014	--	--	--	--	--	--	<0.050	<0.00015	<0.00011	<0.00016	--	--	Car parked over well
Trip Blank	11/7/2014	--	--	--	--	--	--	<0.050	<0.00015	<b>0.00012 J</b>	<0.00016	--	--	
Trip Blank	4/29/2015	--	--	--	--	--	--	<0.050	<0.0005	<0.0005	<0.0005	--	--	
Trip Blank	11/6/2015	--	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	--	--	
Trip Blank	4/21/2016	--	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	--	--	
Trip Blank	11/1/2016	--	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	--	--	
Trip Blank	10/17/2017	--	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	--	--	
Trip Blank	4/27/2018	--	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	
Trip Blank	10/18/2018	--	--	--	--	--	--	<0.010	<0.0002	<0.0002	<0.0005	--	--	
Trip Blank	4/3/2019	--	--	--	--	--	--	<0.014	<0.0002	<0.0004	<0.001	<0.0002	<0.001	
Trip Blank	9/11/2019	--	--	--	--	<0.014	<0.100	<0.000090	<0.00039	<0.00050	<0.00114	<0.00044	<b>0.000095 J*B</b>	
Trip Blank	4/22/2020	--	--	--	--	--	<0.100	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<b>&lt;0.00500</b>	
Tudor Motel	9/21/2007	--	--	--	--	--	--	--	--	--	--	--	--	
Tudor Motel	5/1/2008	--	--	--	--	--	--	--	--	--	--	--	--	
Tudor Motel	7/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	
Equipment Blank	9/11/2019	--	--	--	--	<0.076	<0.100	<b>0.000013 J</b>	<b>0.0011 J</b>	<0.00050	<0.00114	<0.00044	<b>0.000030 J*B</b>	
Equipment Blank	4/22/2020	--	--	--	--	<0.800	<0.100	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<b>&lt;0.00500</b>	



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

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL Thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-g (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Naphthalene (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>						<b>1.5</b>	<b>2.2</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.14</b>	<b>0.0017</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 relative to NAVD88  
 mg/L = Milligrams per liter  
 GW Elev = Groundwater elevation  
 <0.00100 = Not detected at or above the reported detection limit (RDL)  
**Bold** = Detected above laboratory method detection limit (MDL)  
**Bold and Shaded** = Value exceeds ADEC Groundwater Cleanup Level  
**Bold and Italicized** : Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level  
 [ ] = Blind Duplicate Sample Result  
 \* = LCS or LCSD is outside acceptance limits.  
 ND = Constituent considered non detect at the MDL

TPH-g = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to United States Environmental Protection Agency (USEPA) Method AK101  
 TPH-d = Total petroleum hydrocarbons, diesel range by LUFT GC/MS according to State of Alaska Method AK102.  
 Samples analytes by USEPA Method 8260D:  
 Benzene, Toluene, Ethylbenzene and Total Xylenes (collectively BTEX)  
 MTBE = Methyl-tert-butyl ether  
 Naphthalene  
 LUFT = Leaking Underground Fuel Tank  
 GC/MS = Gas chromatography/Mass Spectrometry  
 J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.  
 B = Compound considered non-detect at the listed value due to associated blank contamination.  
 ADEC = Alaska Department of Environmental Conservation  
 NAVD 88 = North American Vertical Datum of 1988  
 LNAPL = Light Non-Aqueous Phase Liquid  
 -- = Not Measured/Not analysed  
 The laboratory for this site was changed from Eurofins Calscience to Pace Analytical prior to the second quarter 2020 groundwater monitoring event. Prior to this date, Eurofins Calscience was using the carbon ranges as follows: TPH-g as C6-C10; TPH-d as C13-C22. Pace Analytical reports the following carbon ranges: TPH-g as C5-C12; TPH-d as C12-C22.

**Table 5. Historical Groundwater Analytical Results - Additional VOCs**

**First Quarter 1992 to Current**

Former Chevron-Branded Service Station 97324

4417 Lake Otis Parkway

Anchorage, Alaska

Well ID	Sample Date	EDC (mg/L)	TCE (mg/L)	PCE (mg/L)	cis-1,2-DCE (mg/L)	Methylene chloride (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>		<b>0.0017</b>	<b>0.0028</b>	<b>0.041</b>	<b>0.036</b>	<b>0.11</b>	
MW-1	2/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-1	5/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-1	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-1	11/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-1	5/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-1	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-1	11/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-1	3/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-1	6/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-1	8/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-1	12/22/1994	--	--	--	--	--	
MW-1	3/31/1995	--	--	--	--	--	
MW-1	6/20/1995	--	--	--	--	--	
MW-1	8/23/1995	--	--	--	--	--	
MW-1	11/16/1995	--	--	--	--	--	
MW-1	1/30/1996	--	--	--	--	--	
MW-1	6/2/1996	--	--	--	--	--	
MW-1	8/26/1996	--	--	--	--	--	
MW-1	10/16/1996	--	--	--	--	--	
MW-1	4/28/1997	--	--	--	--	--	
MW-1	9/10/1997	--	--	--	--	--	
MW-1	4/19/1998	--	--	--	--	--	
MW-1	9/23/1998	--	--	--	--	--	
MW-1	4/28/1999	--	--	--	--	--	
MW-1	5/5/2001	--	--	--	--	--	
MW-1	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-1	10/2/2001	--	--	--	--	--	
MW-1	5/1/2002	--	--	--	--	--	
MW-1	9/20/2002	--	--	--	--	--	
MW-1	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-1	10/2/2003	--	--	--	--	--	
MW-1	5/1/2004			DESTROYED - MAY 2004			
MW-1R	9/24/2006	--	--	--	--	--	
MW-1R	5/14/2007	--	--	--	--	--	
MW-1R	9/21/2007	--	--	--	--	--	
MW-1R	5/1/2008	<b>0.0182</b>	<b>0.004</b>	<0.005	<0.07	<0.005	
MW-1R	7/15/2008	<b>0.021</b>	<0.01	<0.008	<0.008	<b>0.021</b>	
MW-1R	5/14/2009	<0.005 / <0.005	<0.010 / <0.010	<0.008 / <0.008	<0.008 / <0.008	<0.020 / <0.020	
MW-1R	8/26/2009	<b>&lt;0.005J / 0.021 J</b>	<0.010 / <0.010	<0.008 / <0.008	<0.008 / <0.008	<0.020 / <0.020	
MW-1R	6/15/2010	<b>0.014 J / 0.010 J</b>	<0.010 / <0.010	<0.008 / <0.008	<0.008 / <0.008	<0.020 / <0.020	
MW-1R	9/5/2010	<0.003 / <0.003	<0.005 / <0.005	<0.004 / <0.004	<0.004 / <0.004	<0.010 / <0.010	
MW-1R	5/24/2011	<b>0.012</b>	<b>0.001 J</b>	<0.0008	<0.0008	<0.002	
MW-1R	5/24/2011	<b>0.012</b>	<b>0.001 J</b>	<0.0008	<0.0008	<0.002	
MW-1R	11/10/2011	<b>0.004 J / 0.007 J</b>	<0.001 / <0.001	<0.0008 / <0.0008	<0.0008 / <0.0008	<0.002 / <0.002	
MW-1R	6/20/2012	<b>0.004 J / 0.004 J</b>	<0.001 / <0.001	<b>0.0009 J / &lt;0.0008</b>	<0.0008 / <0.0008	<0.002 / <0.002	
MW-1R	11/5/2012	<b>0.0008 J / 0.0008 J</b>	<0.001 / <0.001	<0.0008 / <0.0008	<0.0008 / <0.0008	<0.002 / <0.002	

**Table 5. Historical Groundwater Analytical Results - Additional VOCs**

**First Quarter 1992 to Current**

Former Chevron-Branded Service Station 97324

4417 Lake Otis Parkway

Anchorage, Alaska

Well ID	Sample Date	EDC (mg/L)	TCE (mg/L)	PCE (mg/L)	cis-1,2-DCE (mg/L)	Methylene chloride (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>		<b>0.0017</b>	<b>0.0028</b>	<b>0.041</b>	<b>0.036</b>	<b>0.11</b>	
MW-1R	4/30/2013	0.003 / 0.0033	0.00013 J / 0.00015 J	0.0013 / 0.0012	<0.00085 / <0.00085	<0.002 / <0.002	
MW-1R	4/30/2013	0.0028 / 0.0034	0.00011 J / 0.00012 J	0.0012 / 0.001	<0.00085 / <0.00085	<0.002 / <0.002	Sample collected via hydrasleeve
MW-1R	11/8/2013	0.0042 J / 0.0030 J	<0.00060 / <0.00060	0.0021 J / 0.0020 J	<0.0011 / <0.0011	<0.010 / <0.010	
MW-1R	4/28/2014	0.0037 / 0.0037	0.00065 / 0.00061	0.0024 / 0.0022	<0.00013 / <0.00013	<0.0020 / <0.0020	
MW-1R	4/28/2014	<0.00066 UJ / 0.0038 J	<0.00046 / 0.00066	<0.00078 UJ / 0.0017 J	<0.00066 / <0.00013	<0.010 / <0.0020	Sample collected via hydrasleeve
MW-1R	11/7/2014	<0.00066 / 0.0021 J	<0.00046 / <0.00046	0.0019 J / 0.0016 J	<0.00066 / <0.00066	<0.010 / <0.010	
MW-1R	4/29/2015	0.003	<0.0005	<0.0005	<0.0005	<0.002	
MW-1R	11/6/2015	<0.001	<0.001	<0.001	<0.001	<0.004	
MW-1R	4/21/2016	0.001	<0.0005	<0.0005	<0.0005	<0.002	
MW-1R	11/1/2016	0.002	<0.0005	<0.0005	<0.0005	<0.002	
MW-1R	5/1/2017	0.001	<0.0005	0.0007 J	<0.0005	<0.002	
MW-1R	10/17/2017	0.001	<0.0005	<0.0005	<0.0005	<0.0005	
MW-1R	4/27/2018	0.002	<0.0005	<0.0005	<0.0005	<0.0005	
MW-1R	10/18/2018	<0.002	<0.0002	<0.0002	<0.0002	<0.0002	
MW-1R	4/9/2019	0.001 [0.001]	<0.0002 [<0.0002]	<0.0002 [0.0004 J]	<0.0002 [<0.0002]	<0.0003 [<0.0003]	
MW-1R	9/11/2019	0.0014	< 0.000090	< 0.00050B	< 0.00069	< 0.0014	
MW-2R	9/24/2006	--	--	--	--	--	
MW-2R	5/14/2007	--	--	--	--	--	
MW-2R	9/21/2007	--	--	--	--	--	
MW-2R	5/1/2008	0.0568 / 0.0505	<0.005 / <0.005	<0.005 / 0.00079	<0.07 / <0.07	<0.005 / <0.005	
MW-2R	7/15/2008	0.035 / 0.037	<0.005 / <0.005	<0.004 / <0.005	<0.004 / <0.07	<0.010 / <0.005	
MW-2R	5/14/2009	0.027	<0.002	<0.002	<0.002	<0.004	
MW-2R	8/26/2009	0.056	<0.005	<0.004	<0.004	<0.010	
MW-2R	6/15/2010	0.017	<0.001	<0.0008	<0.0008	<0.002	
MW-2R	9/5/2010	0.008	<0.001	0.001 J	<0.0008	<0.002	
MW-2R	5/24/2011	0.016 / 0.015	<0.001 / <0.001	<0.0008 / <0.0008	<0.0008 / <0.0008	<0.002 / <0.002	
MW-2R	11/10/2011	0.012	<0.001	<0.0008	<0.0008	<0.002	
MW-2R	6/20/2012	0.011	<0.001	<0.0008	<0.0008	<0.002	
MW-2R	11/8/2012	0.002 J	<0.001	<0.0008	<0.0008	<0.002	
MW-2R	4/30/2013	0.0091	<0.00083	0.00089 J	0.00022 J	<0.002	
MW-2R	4/30/2013	0.0049	<0.00083	0.00045 J	<0.00085	<0.002	Sample collected via hydrasleeve
MW-2R	11/8/2013	0.0053	<0.00012	0.00047 J	<0.00023	<0.0020	
MW-2R	4/28/2014	0.011	<0.00091	0.00077 J	<0.00013	<0.0020	
MW-2R	4/28/2014	0.0021	<0.00091	0.00027 J	<0.00013	<0.0020	Sample collected via hydrasleeve
MW-2R	11/7/2014	<0.00066	<0.00046	<0.00078	<0.00066	<0.010	
MW-2R	4/29/2015	0.003 / 0.003	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.002 / <0.002	
MW-2R	11/6/2015	0.002 / <0.003	<0.001 / <0.003	<0.001 / <0.003	<0.001 / <0.003	<0.004 / <0.010	
MW-2R	4/21/2016	0.008 / 0.009 J	<0.0005 / <0.005	0.0006 J / <0.005	<0.0005 / <0.005	<0.002 / <0.02	
MW-2R	11/1/2016	0.011 / 0.011	<0.0005 / <0.0005	0.0008 J / 0.0008 J	<0.0005 / <0.0005	<0.002 / <0.002	
MW-2R	5/1/2017	0.007 / 0.008	<0.0005 / <0.0005	0.0006 J / 0.0006 J	<0.0005 / <0.0005	<0.002 / <0.002	
MW-2R	10/17/2017	0.009 / 0.009	<0.0005 / <0.0005	0.0009 J / 0.0008 J	<0.0005 / <0.0005	<0.0005 / <0.0005	
MW-2R	4/27/2018	0.007 / 0.007	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	
MW-2R	10/18/2018	0.003 J / 0.003 J	<0.0002 / <0.0002	<0.0002 / <0.0002	<0.0002 / <0.0002	<0.0002 / <0.0002	
MW-2R	4/9/2019	0.005	<0.0002	0.0004 J	<0.0002	<0.0003	
MW-2R	9/11/2019	0.006	0.00011 J	< 0.00050B	< 0.00069	< 0.0014	
MW-2R	4/22/2020	0.00473	<0.00100	<0.00100	<0.00100	<0.00500	

**Table 5. Historical Groundwater Analytical Results - Additional VOCs**

**First Quarter 1992 to Current**

Former Chevron-Branded Service Station 97324

4417 Lake Otis Parkway

Anchorage, Alaska

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

**Table 5. Historical Groundwater Analytical Results - Additional VOCs**

**First Quarter 1992 to Current**

Former Chevron-Branded Service Station 97324

4417 Lake Otis Parkway

Anchorage, Alaska

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

**Table 5. Historical Groundwater Analytical Results - Additional VOCs**

**First Quarter 1992 to Current**

Former Chevron-Branded Service Station 97324

4417 Lake Otis Parkway

Anchorage, Alaska

Well ID	Sample Date	EDC (mg/L)	TCE (mg/L)	PCE (mg/L)	cis-1,2-DCE (mg/L)	Methylene chloride (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>		<b>0.0017</b>	<b>0.0028</b>	<b>0.041</b>	<b>0.036</b>	<b>0.11</b>	
MW-5	10/13/1999	--	--	--	--	--	
MW-5	5/19/2000	--	--	--	--	--	
MW-5	9/27/2000	--	--	--	--	--	
MW-5	5/5/2001	--	--	--	--	--	
MW-5	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-5	10/2/2001	--	--	--	--	--	
MW-5	5/1/2002	--	--	--	--	--	
MW-5	9/20/2002	--	--	--	--	--	
MW-5	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-5	10/2/2003	--	--	--	--	--	
MW-5	5/1/2004			DESTROYED - MAY 2004			
MW-6	2/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-6	5/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-6	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-6	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-6	11/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-6	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-6	9/21/2001	--	--	--	--	--	
MW-6	5/1/2004			DESTROYED - MAY 2004			
MW-7	2/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-7	5/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-7	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-7	11/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-7	5/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-7	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-7	11/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-7	3/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-7	6/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-7	8/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-7	12/22/1994	--	--	--	--	--	
MW-7	3/31/1995	--	--	--	--	--	
MW-7	6/20/1995	--	--	--	--	--	
MW-7	8/23/1995	--	--	--	--	--	
MW-7	11/16/1995	--	--	--	--	--	
MW-7	1/30/1996	--	--	--	--	--	
MW-7	6/2/1996	--	--	--	--	--	
MW-7	8/26/1996	--	--	--	--	--	
MW-7	10/16/1996	--	--	--	--	--	
MW-7	4/28/1997	--	--	--	--	--	
MW-7	9/10/1997	--	--	--	--	--	
MW-7	04/19/1998	--	--	--	--	--	
MW-7	09/23/1998	--	--	--	--	--	
MW-7	04/28/1999	--	--	--	--	--	
MW-7	10/13/1999	--	--	--	--	--	
MW-7	05/19/2000	--	--	--	--	--	
MW-7	9/27/2000	--	--	--	--	--	



**Table 5. Historical Groundwater Analytical Results - Additional VOCs**

**First Quarter 1992 to Current**

Former Chevron-Branded Service Station 97324

4417 Lake Otis Parkway

Anchorage, Alaska

Well ID	Sample Date	EDC (mg/L)	TCE (mg/L)	PCE (mg/L)	cis-1,2-DCE (mg/L)	Methylene chloride (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>		<b>0.0017</b>	<b>0.0028</b>	<b>0.041</b>	<b>0.036</b>	<b>0.11</b>	
MW-7	5/5/2001	--	--	--	--	--	
MW-7	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-7	10/2/2001	--	--	--	--	--	
MW-7	5/1/2002	--	--	--	--	--	
MW-7	9/20/2002	--	--	--	--	--	
MW-7	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-7	10/2/2003	--	--	--	--	--	
MW-7	5/1/2004			DESTROYED - MAY 2004			
MW-8	2/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-8	5/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-8	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-8	11/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-8	5/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-8	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-8	11/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-8	3/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-8	6/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-8	8/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-8	12/22/1994	--	--	--	--	--	
MW-8	3/31/1995	--	--	--	--	--	
MW-8	6/20/1995	--	--	--	--	--	
MW-8	8/23/1995	--	--	--	--	--	
MW-8	11/16/1995	--	--	--	--	--	
MW-8	1/30/1996	--	--	--	--	--	
MW-8	6/2/1996	--	--	--	--	--	
MW-8	8/26/1996	--	--	--	--	--	
MW-8	10/16/1996	--	--	--	--	--	
MW-8	4/28/1997	--	--	--	--	--	
MW-8	9/10/1997	--	--	--	--	--	
MW-8	4/19/1998	--	--	--	--	--	
MW-8	9/23/1998	--	--	--	--	--	
MW-8	9/21/2001	--	--	--	--	--	
MW-8R	9/24/2006	--	--	--	--	--	
MW-8R	5/14/2007	--	--	--	--	--	
MW-8R	9/21/2007	--	--	--	--	--	
MW-8R	5/1/2008	0.0174	<0.005	0.00695	<0.07	<0.005	
MW-8R	7/15/2008	0.011	<0.010	<0.008	<0.008	<0.020	
MW-8R	5/14/2009	<0.003	<0.005	0.005	<0.004	<0.010	
MW-8R	8/26/2009	<0.005	<0.010	<0.008	<0.008	0.023 J	
MW-8R	4/20/2010	0.004 J / 0.004 J	<0.005 / <0.005	0.005 J / <0.004	<0.004 / <0.004	<0.010 / <0.010	
MW-8RR	7/26/2011	0.024	<0.002	0.011	<0.002	<0.004	
MW-8RR	11/10/2011	0.005	<0.001	<0.0008	<0.0008	<0.002	
MW-8RR	6/20/2012	0.002 J	<0.001	0.0008 J	<0.0008	<0.002	
MW-8RR	11/8/2012	0.0006 J	<0.001	0.002 J	<0.0008	<0.002	
MW-8RR	4/30/2013	0.0033	<0.000083	0.0019	<0.000085	<0.002	

**Table 5. Historical Groundwater Analytical Results - Additional VOCs**

**First Quarter 1992 to Current**

Former Chevron-Branded Service Station 97324

4417 Lake Otis Parkway

Anchorage, Alaska

Well ID	Sample Date	EDC (mg/L)	TCE (mg/L)	PCE (mg/L)	cis-1,2-DCE (mg/L)	Methylene chloride (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>		<b>0.0017</b>	<b>0.0028</b>	<b>0.041</b>	<b>0.036</b>	<b>0.11</b>	
MW-8RR	4/30/2013	0.0025	<0.000083	0.002	0.00023 J	<0.002	Sample collected via hydrasleeve
MW-8RR	11/8/2013	0.00055 J	<0.00012	0.0032	<0.00023	<0.0020	
MW-8RR	4/28/2014	0.00065 J	<0.000091	0.0042	<0.00013	<0.0020	
MW-8RR	4/28/2014	0.00061 J	<0.000091	0.0042	<0.00013	<0.0020	Sample collected via hydrasleeve
MW-8RR	11/7/2014	0.0013	<0.000091	0.0024	<0.00013	<0.0020	
MW-8RR	4/29/2015	0.001	<0.0005	0.001	<0.0005	<0.002	
MW-8RR	11/6/2015	<0.001	<0.001	<0.001	<0.001	<0.004	
MW-8RR	4/21/2016	<0.001	<0.0005	0.002	<0.0005	<0.002	
MW-8RR	11/1/2016	0.001	<0.0005	0.004	<0.0005	<0.002	
MW-8RR	5/1/2017	0.002	<0.0005	0.004	<0.0005	<0.002	
MW-8RR	10/17/2017	0.001	<0.0005	0.003	<0.0005	<0.0005	
MW-8RR	4/27/2018	0.001	<0.0005	0.002	<0.0005	<0.0005	
MW-8RR	10/18/2018	0.003 J	<0.0002	0.003	<0.0002	<0.0002	
MW-8RR	4/9/2019	0.001	<0.0002	0.003 J	<0.0002	<0.0003	
MW-8RR	9/11/2019	0.00079 /0.00077	0.000057 J /0.000070 J	0.0018 /0.0017	< 0.00069 /< 0.00069	< 0.0014 / < 0.0014	
MW-8RR	4/22/2020	0.000636 J	<0.00100	0.00208 J	<0.00100	<0.00500	
MW-9	2/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-9	5/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-9	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-9	11/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-9	5/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-9	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-9	11/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-9	3/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-9	6/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-9	8/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-9	12/22/1994	--	--	--	--	--	
MW-9	3/31/1995	--	--	--	--	--	
MW-9	6/20/1995	--	--	--	--	--	
MW-9	8/23/1995	--	--	--	--	--	
MW-9	11/16/1995	--	--	--	--	--	
MW-9	1/30/1996	--	--	--	--	--	
MW-9	6/2/1996	--	--	--	--	--	
MW-9	8/26/1996	--	--	--	--	--	
MW-9	10/16/1996	--	--	--	--	--	
MW-9	4/28/1997	--	--	--	--	--	
MW-9	9/10/1997	--	--	--	--	--	
MW-9	4/19/1998	--	--	--	--	--	
MW-9	9/23/1998	--	--	--	--	--	
MW-9	4/28/1999	--	--	--	--	--	
MW-9	10/13/1999	--	--	--	--	--	
MW-9	5/19/2000	--	--	--	--	--	
MW-9	9/27/2000	--	--	--	--	--	
MW-9	5/5/2001	--	--	--	--	--	
MW-9	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-9	10/2/2001	--	--	--	--	--	
MW-9	5/1/2002	--	--	--	--	--	



**Table 5. Historical Groundwater Analytical Results - Additional VOCs**

**First Quarter 1992 to Current**

Former Chevron-Branded Service Station 97324

4417 Lake Otis Parkway

Anchorage, Alaska

Well ID	Sample Date	EDC (mg/L)	TCE (mg/L)	PCE (mg/L)	cis-1,2-DCE (mg/L)	Methylene chloride (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>		<b>0.0017</b>	<b>0.0028</b>	<b>0.041</b>	<b>0.036</b>	<b>0.11</b>	
MW-9	9/20/2002	--	--	--	--	--	
MW-9	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-9	10/2/2003	--	--	--	--	--	
MW-9	6/1/2004	--	--	--	--	--	
MW-9	9/21/2004	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-9	5/12/2005	--	--	--	--	--	
MW-9	9/19/2005	--	--	--	--	--	
MW-9	5/8/2006	--	--	--	--	--	
MW-9	9/24/2006	--	--	--	--	--	
MW-9	5/14/2007	--	--	--	--	--	
MW-9	9/21/2007	--	--	--	--	--	
MW-9	5/1/2008	<0.005	0.05	0.27	0.119	<0.005	
MW-9	7/15/2008	<0.0005	0.043	0.21	0.097	<0.002	
MW-9	5/14/2009	<0.0005	0.025	0.097	0.064	<0.002	
MW-9	8/26/2009	<0.0005	0.036	0.20	<0.0008	<0.002	
MW-9	4/20/2010	<0.0005	0.044	0.28 J	0.13	<0.002	
MW-9	9/5/2010	--	--	--	--	--	
MW-9	5/24/2011	<0.0005	0.011	0.055	0.032	<0.002	
MW-9	11/10/2011	<0.0005	0.005	0.034	0.013	<0.002	
MW-9	6/20/2012	<0.0005	0.006	0.013	0.014	<0.002	
MW-9	4/30/2013	<0.00037	0.0492	0.293	0.114	<0.002	
MW-9	4/30/2013	<0.00037	0.0441	0.216	0.112	<0.002	Sample collected via hydrasleeve
MW-9	11/8/2013	<0.00022	0.0055	0.024	0.013	<0.0020	
MW-9	4/28/2014	<0.00013	0.033	0.18	0.064	<0.0020	
MW-9	4/28/2014	<0.00013	<0.0041	0.018	0.0067	<0.0020	Sample collected via hydrasleeve
MW-9	11/7/2014	<0.00013	0.023	0.12	0.040	<0.0020	
MW-9	4/29/2015	<0.0005	0.003	0.008	0.005	<0.002	
MW-9	11/6/2015	<0.001	0.025	0.12	0.078	<0.004	
MW-9	4/21/2016	<0.0005	0.003	0.012	0.007	<0.002	
MW-9	11/1/2016	<0.0005	0.003	0.012	0.007	<0.002	
MW-9	5/1/2017	<0.003	0.008	0.026	0.030	<0.010	
MW-9	10/17/2017	<0.0005	0.003	0.012	0.01	<0.0005	
MW-9	4/27/2018	<0.0005	0.014	0.054	0.039	<0.0005	
MW-9	10/18/2018	<0.002	0.022	0.082	0.064	<0.0002	
MW-9	4/9/2019	<0.0003	0.023	0.085	0.067	<0.0003	
MW-9	9/11/2019	< 0.000024	0.022	0.068	0.058	< 0.0014	
MW-9	4/22/2020	<0.00100 [ $<0.00100$ ]	0.0219 [0.0216]	0.0828 [0.0805]	0.058	<0.00500	
MW-10	2/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-10	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-10	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-10	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-10	9/21/2001	--	--	--	--	--	
MW-10	5/1/2004			DESTROYED - MAY 2004			
MW-11	2/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-11	5/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-11	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only

**Table 5. Historical Groundwater Analytical Results - Additional VOCs**

**First Quarter 1992 to Current**

Former Chevron-Branded Service Station 97324

4417 Lake Otis Parkway

Anchorage, Alaska

Well ID	Sample Date	EDC (mg/L)	TCE (mg/L)	PCE (mg/L)	cis-1,2-DCE (mg/L)	Methylene chloride (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>		<b>0.0017</b>	<b>0.0028</b>	<b>0.041</b>	<b>0.036</b>	<b>0.11</b>	
MW-11	11/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-11	5/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-11	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-11	11/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-11	3/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-11	6/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-11	8/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-11	12/22/1994	--	--	--	--	--	
MW-11	3/31/1995	--	--	--	--	--	
MW-11	6/20/1995	--	--	--	--	--	
MW-11	8/23/1995	--	--	--	--	--	
MW-11	11/16/1995	--	--	--	--	--	
MW-11	1/30/1996	--	--	--	--	--	
MW-11	6/2/1996	--	--	--	--	--	
MW-11	8/26/1996	--	--	--	--	--	
MW-11	10/16/1996	--	--	--	--	--	
MW-11	4/28/1997	--	--	--	--	--	
MW-11	9/10/1997	--	--	--	--	--	
MW-11	4/19/1998	--	--	--	--	--	
MW-11	9/23/1998	--	--	--	--	--	
MW-11	4/28/1999	--	--	--	--	--	
MW-11	10/13/1999	--	--	--	--	--	
MW-11	05/19/2000	--	--	--	--	--	
MW-11	9/27/2000	--	--	--	--	--	
MW-11	5/5/2001	--	--	--	--	--	
MW-11	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-11	10/2/2001	--	--	--	--	--	
MW-11	5/1/2002	--	--	--	--	--	
MW-11	9/20/2002	--	--	--	--	--	
MW-11	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-11	10/2/2003	--	--	--	--	--	
MW-11	5/1/2004			DESTROYED - MAY 2004			
MW-12	2/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-12	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-12	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-12	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-12	9/21/2001	--	--	--	--	--	
MW-12	5/1/2004			DESTROYED - MAY 2004			
MW-14A	5/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-14A	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-14A	11/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-14A	5/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-14A	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-14A	11/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-14A	6/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-14A	8/1/1994	--	--	--	--	--	Sample date accurate to month and year only

**Table 5. Historical Groundwater Analytical Results - Additional VOCs**

**First Quarter 1992 to Current**

Former Chevron-Branded Service Station 97324

4417 Lake Otis Parkway

Anchorage, Alaska

Well ID	Sample Date	EDC (mg/L)	TCE (mg/L)	PCE (mg/L)	cis-1,2-DCE (mg/L)	Methylene chloride (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>		<b>0.0017</b>	<b>0.0028</b>	<b>0.041</b>	<b>0.036</b>	<b>0.11</b>	
MW-14A	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-14A	9/21/2001	--	--	--	--	--	
MW-14A	5/1/2004			DESTROYED - MAY 2004			
MW-14B	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-14B	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-14B	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-14B	9/21/2001	--	--	--	--	--	
MW-14B	5/1/2004			DESTROYED - MAY 2004			
MW-15	9/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-15	11/1/1992	--	--	--	--	--	Sample date accurate to month and year only
MW-15	5/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-15	8/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-15	11/1/1993	--	--	--	--	--	Sample date accurate to month and year only
MW-15	3/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-15	6/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-15	8/1/1994	--	--	--	--	--	Sample date accurate to month and year only
MW-15	12/22/1994	--	--	--	--	--	
MW-15	3/31/1995	--	--	--	--	--	
MW-15	6/20/1995	--	--	--	--	--	
MW-15	8/23/1995	--	--	--	--	--	
MW-15	11/16/1995	--	--	--	--	--	
MW-15	1/30/1996	--	--	--	--	--	
MW-15	6/2/1996	--	--	--	--	--	
MW-15	8/26/1996	--	--	--	--	--	
MW-15	10/16/1996	--	--	--	--	--	
MW-15	4/28/1997	--	--	--	--	--	
MW-15	9/10/1997	--	--	--	--	--	
MW-15	4/19/1998	--	--	--	--	--	
MW-15	9/23/1998	--	--	--	--	--	
MW-15	4/28/1999	--	--	--	--	--	
MW-15	10/13/1999	--	--	--	--	--	
MW-15	5/19/2000	--	--	--	--	--	
MW-15	9/27/2000	--	--	--	--	--	
MW-15	5/5/2001	--	--	--	--	--	
MW-15	10/20/2001	--	--	--	--	--	
MW-15	5/1/2002	--	--	--	--	--	
MW-15	9/20/2002	--	--	--	--	--	
MW-15	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-15	10/2/2003	--	--	--	--	--	
MW-15	6/1/2004	--	--	--	--	--	
MW-15	9/21/2004	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-15	5/12/2005	--	--	--	--	--	
MW-15	9/19/2005	--	--	--	--	--	
MW-15	5/8/2006	--	--	--	--	--	
MW-16	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table

**Table 5. Historical Groundwater Analytical Results - Additional VOCs**

**First Quarter 1992 to Current**

Former Chevron-Branded Service Station 97324

4417 Lake Otis Parkway

Anchorage, Alaska

Well ID	Sample Date	EDC (mg/L)	TCE (mg/L)	PCE (mg/L)	cis-1,2-DCE (mg/L)	Methylene chloride (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>		<b>0.0017</b>	<b>0.0028</b>	<b>0.041</b>	<b>0.036</b>	<b>0.11</b>	
MW-16	10/02/2001	--	--	--	--	--	
MW-16	5/1/2002	--	--	--	--	--	
MW-16	9/20/2002	--	--	--	--	--	
MW-16	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-16	10/02/2003	--	--	--	--	--	
MW-16	6/1/2004	--	--	--	--	--	
MW-16	9/21/2004	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-16	5/12/2005	--	--	--	--	--	
MW-16	9/19/2005	--	--	--	--	--	
MW-16	5/8/2006	--	--	--	--	--	
MW-16	9/24/2006	--	--	--	--	--	
MW-16	5/14/2007	--	--	--	--	--	
MW-16	9/12/2007	--	--	--	--	--	
MW-16	5/1/2008	<0.005	<b>0.0346</b>	<b>0.197</b>	<b>0.102</b>	<0.005	
MW-16	5/14/2009	FENCED, CANNOT BE ACCESSED					
MW-17	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-17	10/2/2001	--	--	--	--	--	
MW-17	5/1/2002	--	--	--	--	--	
MW-17	9/20/2002	--	--	--	--	--	
MW-17	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-17	10/2/2003	--	--	--	--	--	
MW-17	6/1/2004	--	--	--	--	--	
MW-17	9/21/2004	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-17	5/12/2005	--	--	--	--	--	
MW-17	9/19/2005	--	--	--	--	--	
MW-17	5/8/2006	--	--	--	--	--	
MW-17	9/24/2006	--	--	--	--	--	
MW-17	5/14/2007	--	--	--	--	--	
MW-17	9/21/2007	--	--	--	--	--	
MW-17	5/1/2008	<0.005	<0.005	<0.005	<0.07	<0.005	
MW-17	5/14/2009	FENCED, CANNOT BE ACCESSED					
MW-18	8/2/2001	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-18	10/02/2001	--	--	--	--	--	
MW-18	5/1/2002	--	--	--	--	--	
MW-18	9/20/2002	--	--	--	--	--	
MW-18	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-18	10/2/2003	--	--	--	--	--	
MW-18	6/1/2004	--	--	--	--	--	
MW-18	9/21/2004	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
MW-18	5/12/2005	--	--	--	--	--	
MW-18	9/19/2005	--	--	--	--	--	
MW-18	5/8/2006	--	--	--	--	--	
Trip Blank	1/30/1996	--	--	--	--	--	
Trip Blank	6/2/1996	--	--	--	--	--	
Trip Blank	8/26/1996	--	--	--	--	--	

**Table 5. Historical Groundwater Analytical Results - Additional VOCs**

**First Quarter 1992 to Current**

Former Chevron-Branded Service Station 97324

4417 Lake Otis Parkway

Anchorage, Alaska

Well ID	Sample Date	EDC (mg/L)	TCE (mg/L)	PCE (mg/L)	cis-1,2-DCE (mg/L)	Methylene chloride (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>		<b>0.0017</b>	<b>0.0028</b>	<b>0.041</b>	<b>0.036</b>	<b>0.11</b>	
Trip Blank	10/16/1996	--	--	--	--	--	
Trip Blank	4/28/1997	--	--	--	--	--	
Trip Blank	9/10/1997	--	--	--	--	--	
Trip Blank	4/19/1998	--	--	--	--	--	
Trip Blank	09/23/1998	--	--	--	--	--	
Trip Blank	4/28/1999	--	--	--	--	--	
Trip Blank	10/13/1999	--	--	--	--	--	
Trip Blank	9/27/2000	--	--	--	--	--	
Trip Blank	5/5/2001	--	--	--	--	--	
Trip Blank	10/2/2001	--	--	--	--	--	
Trip Blank	5/1/2002	--	--	--	--	--	
Trip Blank	9/20/2002	--	--	--	--	--	
Trip Blank	5/20/2003	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
Trip Blank	10/2/2003	--	--	--	--	--	
Trip Blank	6/1/2004	--	--	--	--	--	
Trip Blank	9/21/2004	--	--	--	--	--	Sample date defaulted to first date listed in historical data table
Trip Blank	5/12/2005	--	--	--	--	--	
Trip Blank	9/19/2005	--	--	--	--	--	
Trip Blank	5/8/2006	--	--	--	--	--	
Trip Blank	9/24/2006	--	--	--	--	--	
Trip Blank	5/14/2007	--	--	--	--	--	
Trip Blank	9/21/2007	--	--	--	--	--	
Trip Blank	5/1/2008	<0.005	<0.005	<0.005	<0.07	<0.005	
Trip Blank	7/15/2008	<0.005	<0.005	<0.005	<0.07	<0.005	
Trip Blank	4/30/2009	<0.0005	<0.001	<0.0008	<0.0008	<0.002	
Trip Blank	8/19/2009	<0.0005	<0.001	<0.0008	<0.0008	<0.002	
Trip Blank	4/20/2010	<0.0005	<0.001	<0.0008	<0.0008	<0.002	
Trip Blank	6/10/2010	<0.0005	<0.001	<0.0008	<0.0008	<0.002	
Trip Blank	8/27/2010	<0.0005	<0.001	<0.0008	<0.0008	<0.002	
Trip Blank	5/24/2011	<0.0005	<0.001	<0.0008	<0.0008	<0.002	
Trip Blank	7/26/2011	<0.0005	<0.001	<0.0008	<0.0008	<0.002	
Trip Blank	11/10/2011	<0.0005	<0.001	<0.0008	<0.0008	<0.002	
Trip Blank	6/20/2012	<0.0005	<0.001	<0.0008	<0.0008	<0.002	
Trip Blank	11/5/2012	<0.0005	<0.001	<0.0008	<0.0008	<0.002	
Trip Blank	4/30/2013	<0.00037	<0.000083	<0.00013	<0.000085	<0.002	
Trip Blank	11/8/2013	<0.00022	<0.00012	<0.00029	<0.00023	<0.0020	
Trip Blank	4/28/2014	<0.00013	<0.000091	<0.00016	<0.00013	<0.0020	
Trip Blank	11/7/2014	<0.00013	<0.000091	<0.00016	<0.00013	<0.0020	
Trip Blank	4/21/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	
Trip Blank	11/1/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	
Trip Blank	5/1/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	
Trip Blank	4/27/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Trip Blank	10/18/2018	<0.002	<0.0002	<0.0002	<0.0002	<0.0002	
Trip Blank	4/3/2019	<0.0003	<0.0002	<0.0002	<0.0002	<0.0003	
Trip Blank	9/11/2019	< 0.000024	< 0.0000090	<b>0.000020 J</b>	< 0.00069	< 0.0014	
Trip Blank	4/22/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	
Tudor Motel	9/21/2007	<0.005	<0.0001	<0.0001	<0.0001	<0.0005	

**Table 5. Historical Groundwater Analytical Results - Additional VOCs**

**First Quarter 1992 to Current**

Former Chevron-Branded Service Station 97324

4417 Lake Otis Parkway

Anchorage, Alaska

Well ID	Sample Date	EDC (mg/L)	TCE (mg/L)	PCE (mg/L)	cis-1,2-DCE (mg/L)	Methylene chloride (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>		<b>0.0017</b>	<b>0.0028</b>	<b>0.041</b>	<b>0.036</b>	<b>0.11</b>	
<b>Tudor Motel</b>	5/1/2008	<0.005	<0.005	<0.005	<0.07	<0.0005	
<b>Tudor Motel</b>	7/15/2008	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	
<b>Equipment Blank</b>	4/22/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	

**Notes:**

ID = Identification

MW = Groundwater monitoring well

mg/L = Milligrams per liter

<0.00500 = Not detected at or above the Reported Detection Limit

**Bold** = Detected above laboratory method detection limit (MDL)

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

**Bold and *Italicized*** : Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level

[ ] = Blind Duplicate Sample Result

ADEC = Alaska Department of Environmental Conservation

EDC = 1,2-Dichloroethane

TCE = Trichloroethylene

PCE = Tetrachloroethylene

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

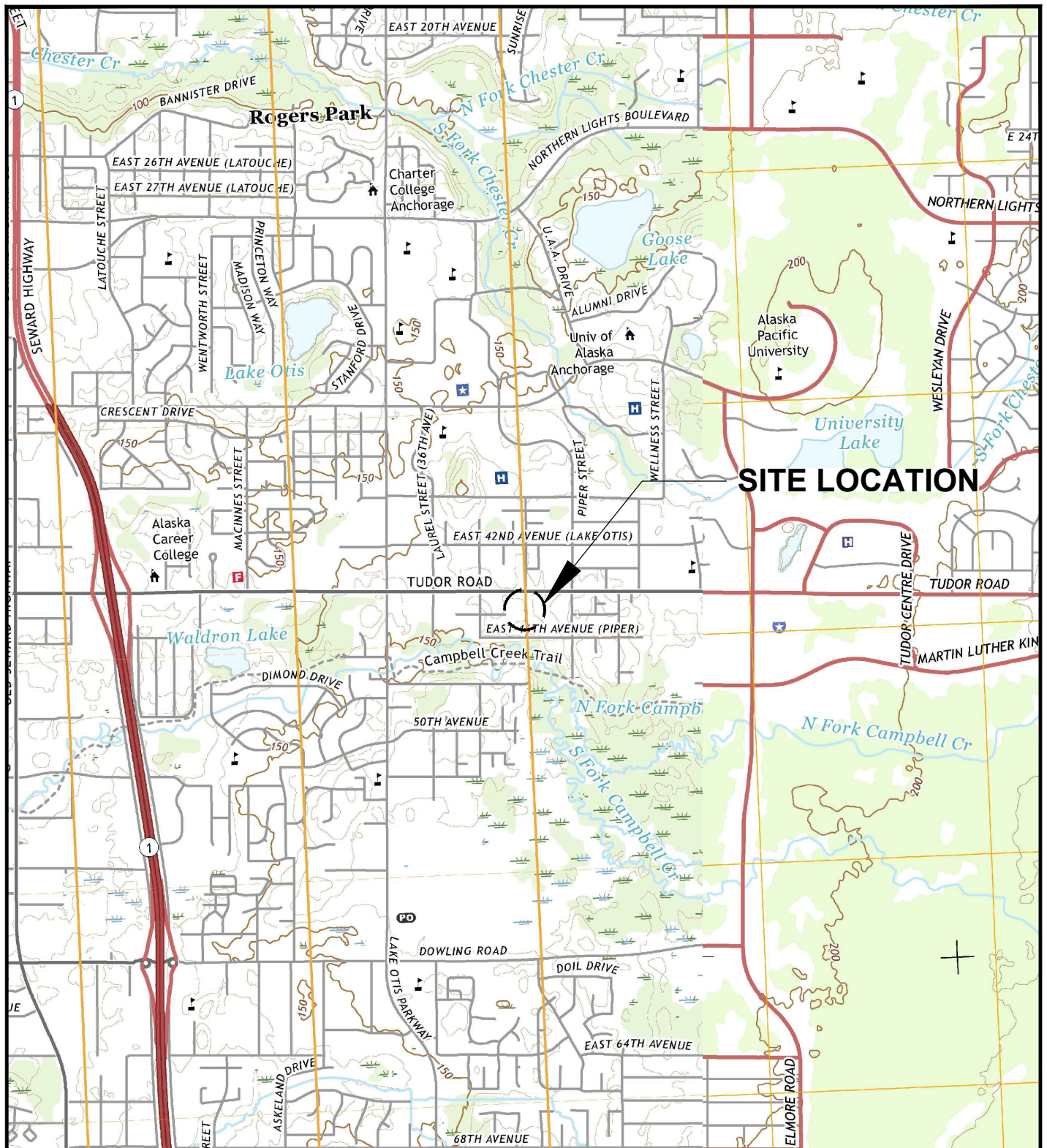
Constituents analyzed by United States Environmental Protection Agency Method 8260D

<sup>a</sup> = Levels established in ADEC Groundwater Cleanup Levels (18 AAC 75.345)

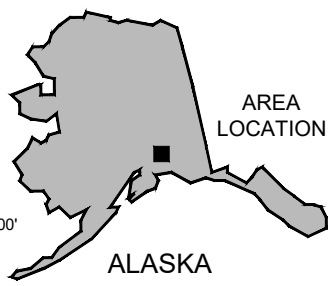
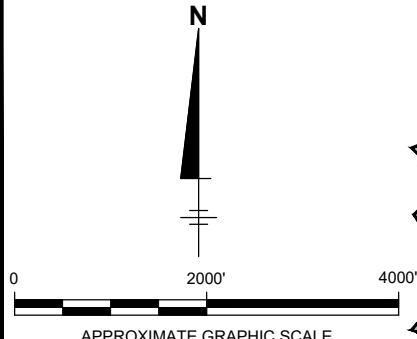
# FIGURES







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

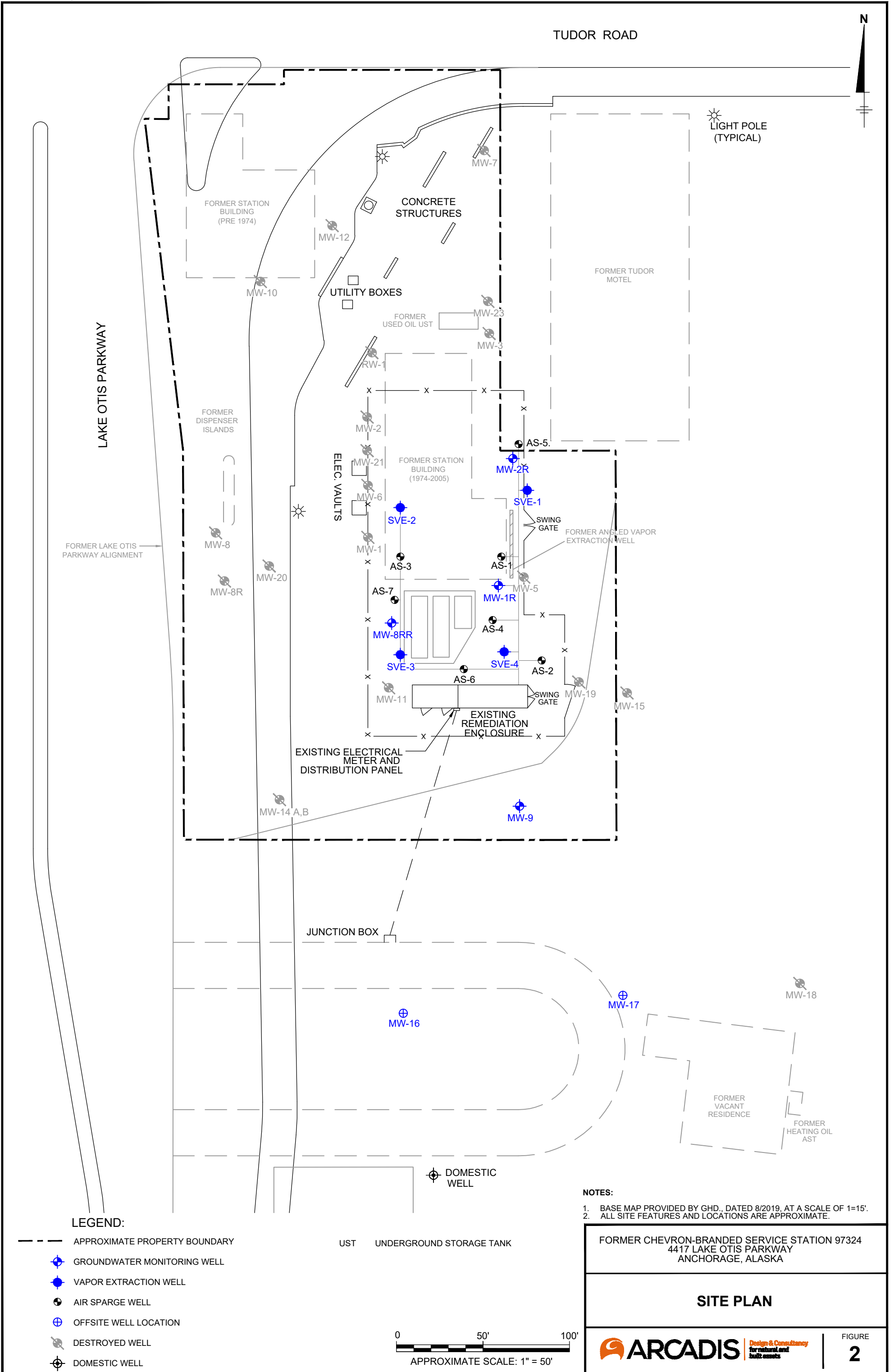


FORMER CHEVRON-BRANDED SERVICE STATION  
 97324 4417 LAKE OTIS PARKWAY  
 ANCHORAGE, ALASKA

**SITE LOCATION MAP**

	Design & Consultancy for natural and built assets	FIGURE
		<b>1</b>





**LEGEND:**

- APPROXIMATE PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL
- VAPOR EXTRACTION WELL
- AIR SPARGE WELL
- ⊕ OFFSITE WELL LOCATION
- ☒ DESTROYED WELL
- ⊕ DOMESTIC WELL
- UST UNDERGROUND STORAGE TANK

**NOTES:**

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

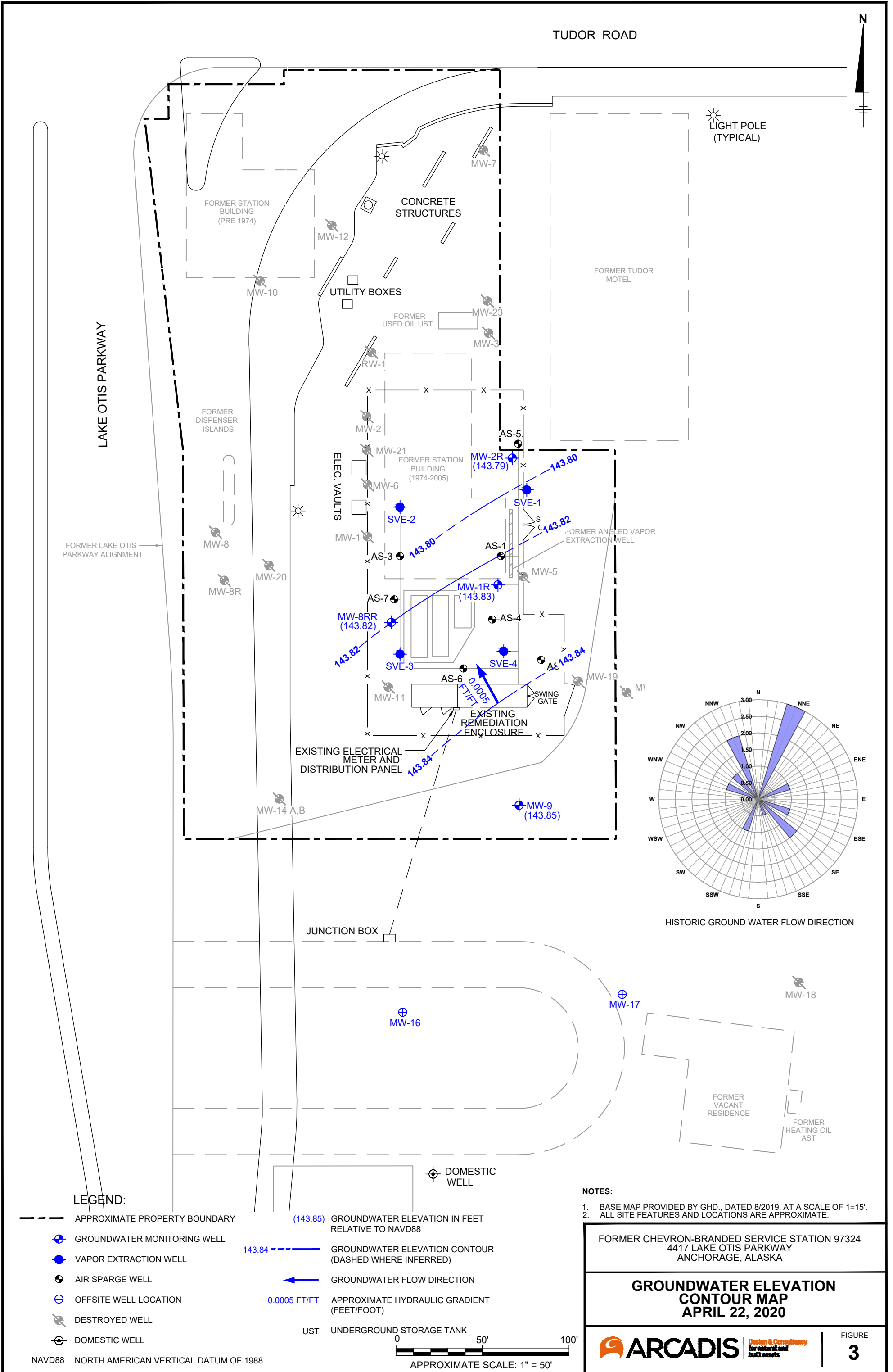
FORMER CHEVRON-BRANDED SERVICE STATION 97324  
 4417 LAKE OTIS PARKWAY  
 ANCHORAGE, ALASKA

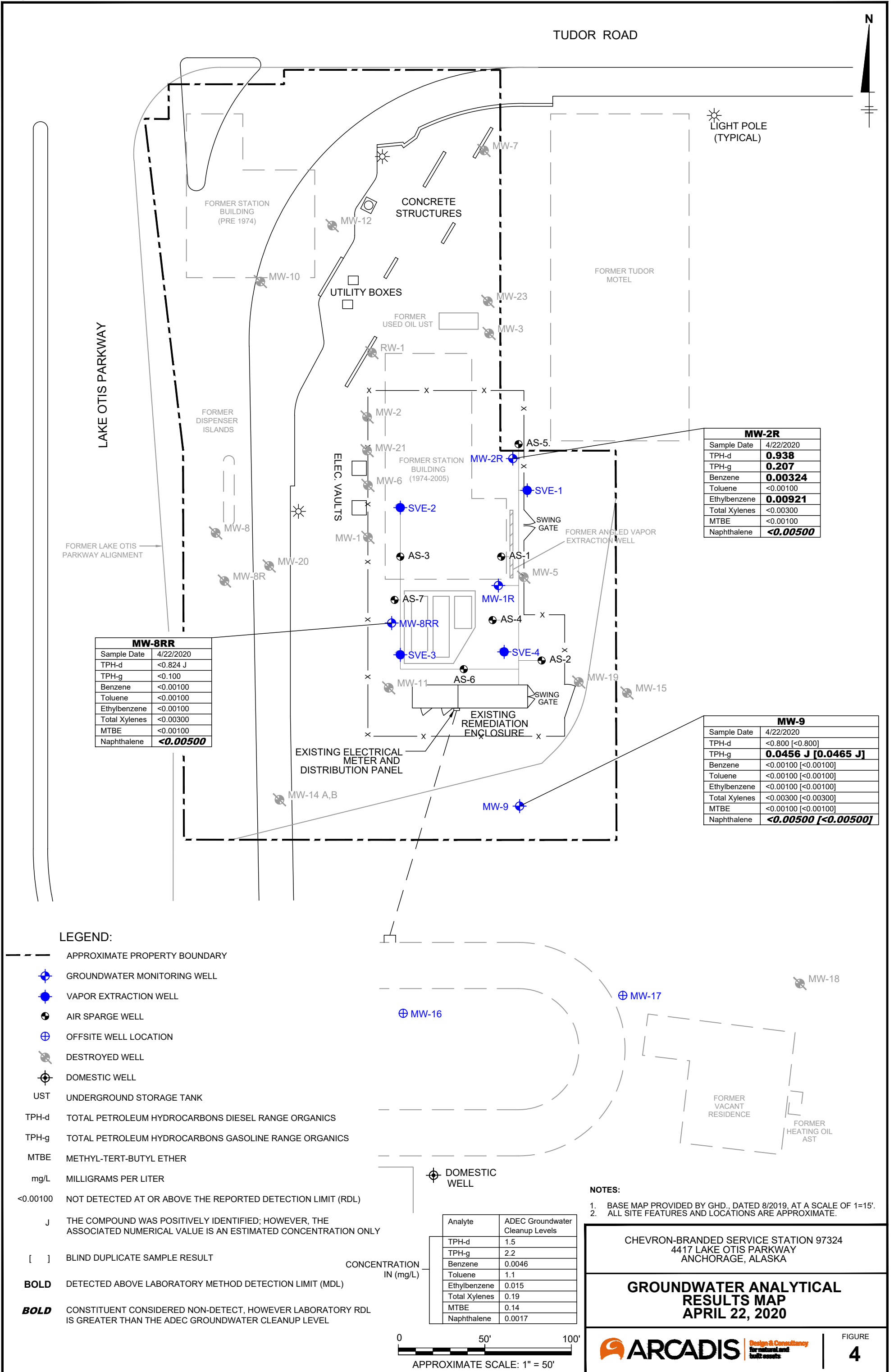
**SITE PLAN**



FIGURE

**2**

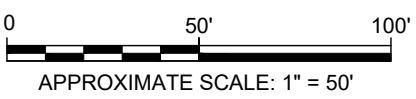




**LEGEND:**

- APPROXIMATE PROPERTY BOUNDARY
- ⊕ GROUNDWATER MONITORING WELL
- ⊕ VAPOR EXTRACTION WELL
- ⊕ AIR SPARGE WELL
- ⊕ OFFSITE WELL LOCATION
- ⊕ DESTROYED WELL
- ⊕ DOMESTIC WELL
- UST UNDERGROUND STORAGE TANK
- TPH-d TOTAL PETROLEUM HYDROCARBONS DIESEL RANGE ORGANICS
- TPH-g TOTAL PETROLEUM HYDROCARBONS GASOLINE RANGE ORGANICS
- MTBE METHYL-TERT-BUTYL ETHER
- mg/L MILLIGRAMS PER LITER
- <0.00100 NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT (RDL)
- J THE COMPOUND WAS POSITIVELY IDENTIFIED; HOWEVER, THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY
- [ ] BLIND DUPLICATE SAMPLE RESULT
- BOLD** DETECTED ABOVE LABORATORY METHOD DETECTION LIMIT (MDL)
- BOLD** CONSTITUENT CONSIDERED NON-DETECT, HOWEVER LABORATORY RDL IS GREATER THAN THE ADEC GROUNDWATER CLEANUP LEVEL

Analyte	ADEC Groundwater Cleanup Levels
TPH-d	1.5
TPH-g	2.2
Benzene	0.0046
Toluene	1.1
Ethylbenzene	0.015
Total Xylenes	0.19
MTBE	0.14
Naphthalene	0.0017



**NOTES:**

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

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

**GROUNDWATER ANALYTICAL RESULTS MAP**  
 APRIL 22, 2020

**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 97324**

4417 Lake Otis Parkway

Anchorage, Alaska

ADEC File No: 2100.26.008

HAZARD ID No: 23885

June 19, 2020

## Appendix A: 97324 Site Description and Background

# 1 97324 SITE BACKGROUND AND HISTORY

## 1.1 Site Description and Vicinity

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

## 1.2 Site History

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

# 2 SITE CHARACTERIZATIONS

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

# 3 CURRENT SITE MONITORING ACTIVITIES

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

# 4 GEOLOGY AND HYDROGEOLOGY

## 4.1 Site Hydrogeology

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

# 5 REFERENCES

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

# APPENDIX B







# Daily Log

## Groundwater Gauging Log

<b>Client:</b>		Chevron					
<b>Site ID:</b>		97324					
<b>Site Location:</b>		4417 Lake Otis Pkwy, Anchorage, AK 99507					
<b>Date(s):</b>		04/22/2020					
<b>Sampler(s):</b>		Evan Wujcik					
Well ID	Date	Gauging Time	Static Water Level (ft bmp)	Depth to Product (ft bmp)	Total Depth (ft bmp)	PID Reading (ppm)	Comments
MW-1R	04/22/2020	09:32	23.73	--	30.90	0	Well obstructed by ice, could not sample
MW-2R	04/22/2020	09:33	24.46	--	31.30	0	--
MW-8RR	04/22/2020	09:31	22.61	--	32.60	0	--
MW-9	04/22/2020	08:27	15.39	--	19.40	0	--

**Project Number** 30043268 **Well ID** MW-2R **Date** 9/29/2020

**Site Location** 4417 Lake Otis Pkwy, Anchorage, AK 99507 **Site ID** 97324 **Weather(°F)** Clear

**Measuring Pt. Description** Top of Casing **Screen Setting (ft-bmp)** NA to NA **Casing Diameter (in.)** 2 **Well Casing Material** PVC

**Static Water Level (ft-bmp)** 0 **Total Depth (ft-bmp)** 0 **Water Column (ft)** 0.00 **Gallons in Well** 0

**Pump Intake (ft-bmp)** 0 **Purge Method** Low-Flow **Sample Method** Low-Flow

**Sample Time** 08:43 **Volumes Purged** **Sample ID** MW-2R-W-20 **Sampled by** Evan Wujcik

**Purge Start** 08:44 **Gallons Purged** 0.95 **Replicate/Code No.**

**Purge End** 08:44

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Total Volume purged (ml)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
#Error				--	--	--	--	--	--	--	--	--
11:33	0	300	24.45	900	7.66	0.860	134	0.65	6.19	134	Clear	None
11:36	3	300	24.45	1800	7.62	0.861	125	0.31	6.20	132	Clear	None
11:39	6	300	24.46	2700	7.59	0.863	116	0.06	6.17	130	Clear	None
11:42	9	300	24.46	3600	7.57	0.864	103	0.00	6.17	131	Clear	None

**Comments:**

**Well Casing Volume Conversion**

Well diameter (inches) 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
= gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Sample Information**

Sample ID: MW-2R-W-20 Sample Time: 08:43 Sample Depth (ft-bmp): 0

Analytes and Methods: GRO AK 101, DRO AK 102, 8260B Full Scan, PAH 8270

ft-bmp = feet below measuring point  
in. = inches  
ft = feet  
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter  
NTU = Nephelometric Turbidity Unit  
mg/L = milligrams per liter

mV = millivolts  
°F = degrees Fahrenheit  
°C = degrees Celsius

Project Number 30043268 Well ID MW-8RR Date 9/29/2020

Site Location 4417 Lake Otis Pkwy, Anchorage, AK 99507 Site ID 97324 Weather(°F) Clear

Measuring Pt. Description Top of Casing Screen Setting (ft-bmp) NA to NA Casing Diameter (in.) 2 Well Casing Material PVC

Static Water Level (ft-bmp) 0 Total Depth (ft-bmp) 0 Water Column (ft) 0.00 Gallons in Well 0

Pump Intake (ft-bmp) 0 Purge Method Low-Flow Sample Method Low-Flow

Sample Time 08:45 Volumes Purged Sample ID MW-8RR-W-20 Sampled by Evan Wujcik

Purge Start 08:47 Gallons Purged 0.95 Replicate/Code No.

Purge End 08:47

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Total Volume purged (ml)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
#Error				--	--	--	--	--	--	--	--	--
10:33	0	300	22.61	900	7.92	0.671	174	2.93	5.85	126	Clear	None
10:36	3	300	22.61	1800	7.86	0.672	165	2.86	5.84	123	Clear	None
10:39	6	300	22.61	2700	7.90	0.673	160	2.69	5.84	126	Clear	None
10:42	9	300	22.61	3600	7.92	0.674	151	2.50	5.84	125	Clear	None

#### Comments:

#### Well Casing Volume Conversion

Well diameter (inches) 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
= gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

#### Sample Information

Sample ID: MW-8RR-W-20 Sample Time: 08:45 Sample Depth (ft-bmp): 0

Analytes and Methods: GRO AK 101, DRO AK 102, 8260B Full Scan

ft-bmp = feet below measuring point  
in. = inches  
ft = feet  
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter  
NTU = Nephelometric Turbidity Unit  
mg/L = milligrams per liter

mV = millivolts  
°F = degrees Fahrenheit  
°C = degrees Celsius

Project Number 30043268 Well ID MW-9 Date 9/29/2020

Site Location 4417 Lake Otis Pkwy, Anchorage, AK 99507 Site ID 97324 Weather(°F) Clear

Measuring Pt. Description Top of Casing Screen Setting (ft-bmp) NA to NA Casing Diameter (in.) 2 Well Casing Material PVC

Static Water Level (ft-bmp) 0 Total Depth (ft-bmp) 0 Water Column (ft) 0.00 Gallons in Well 0

Pump Intake (ft-bmp) 0 Purge Method Low-Flow Sample Method Low-Flow

Sample Time 08:48 Volumes Purged Sample ID MW-9-W-20 Sampled by Evan Wujcik

Purge Start 08:49 Gallons Purged 0.95 Replicate/Code No.

Purge End 08:49

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Total Volume purged (ml)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
#Error				--	--	--	--	--	--	--	--	--
09:33	0	300	15.39	900	8.04	0.382	27.9	2.01	5.42	80	Clear	None
09:36	3	300	15.39	1800	8.00	0.341	24.8	1.22	5.34	87	Clear	None
09:39	6	300	15.39	2700	7.93	0.337	22.3	0.68	5.34	91	Clear	None
09:42	9	300	15.39	3600	7.81	0.334	22.1	0.59	5.30	97	Clear	None

#### Comments:

#### Well Casing Volume Conversion

Well diameter (inches) 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
= gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

#### Sample Information

Sample ID: MW-9-W-20 Sample Time: 08:48 Sample Depth (ft-bmp): 0

Analytes and Methods: GRO AK 101, DRO AK 102, 8260B Full Scan

ft-bmp = feet below measuring point  
in. = inches  
ft = feet  
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter  
NTU = Nephelometric Turbidity Unit  
mg/L = milligrams per liter

mV = millivolts  
°F = degrees Fahrenheit  
°C = degrees Celsius

# APPENDIX C





1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

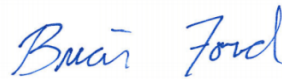
8 Al

9 Sc

## Arcadis - Chevron - AK

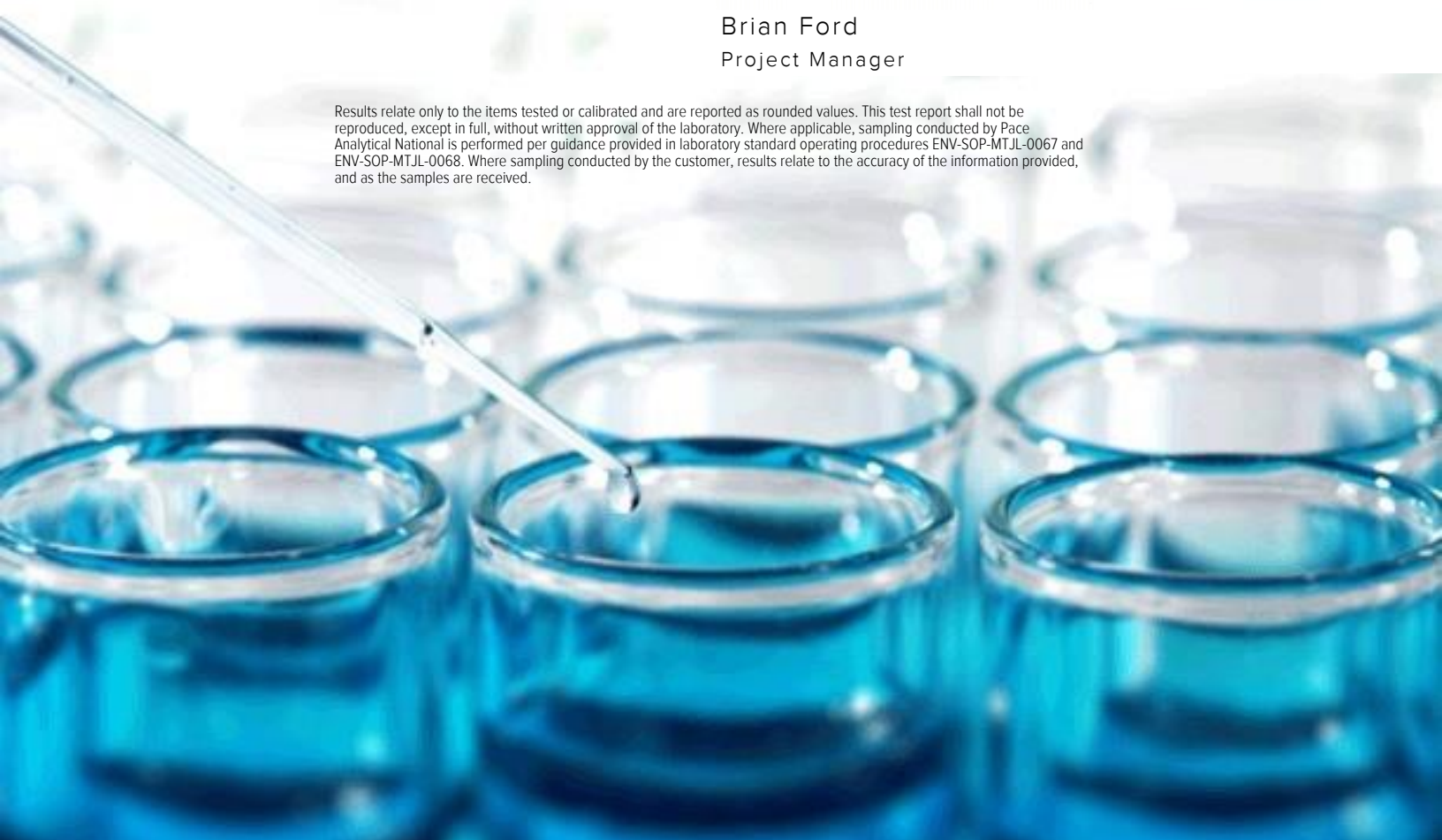
Sample Delivery Group: L1211750  
Samples Received: 04/23/2020  
Project Number: 30043268.5133  
Description: 97324  
Site: 97324  
Report To: Nicole Monroe  
880 H St.  
Anchorage, AK 99501

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.





<b>Cp: Cover Page</b>	<b>1</b>	<b>1</b> Cp
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	<b>2</b> Tc
<b>Cn: Case Narrative</b>	<b>4</b>	
<b>Sr: Sample Results</b>	<b>5</b>	<b>3</b> Ss
EQB-1-W-200422 L1211750-01	<b>5</b>	
MW-9-W-200422 L1211750-02	<b>7</b>	<b>4</b> Cn
MW-8RR-W-200422 L1211750-03	<b>9</b>	<b>5</b> Sr
MW-2R-W-200422 L1211750-04	<b>11</b>	
BD-1-W-200422 L1211750-05	<b>14</b>	<b>6</b> Qc
TRIP BLANK-200422 L1211750-06	<b>16</b>	
<b>Qc: Quality Control Summary</b>	<b>18</b>	<b>7</b> Gl
Volatile Organic Compounds (GC) by Method AK101	<b>18</b>	
Volatile Organic Compounds (GC/MS) by Method 8260D	<b>19</b>	<b>8</b> Al
Semi-Volatile Organic Compounds (GC) by Method AK102	<b>26</b>	
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	<b>28</b>	<b>9</b> Sc
<b>Gl: Glossary of Terms</b>	<b>30</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>31</b>	
<b>Sc: Sample Chain of Custody</b>	<b>32</b>	

# SAMPLE SUMMARY



## EQB-1-W-200422 L1211750-01 GW

Collected by EW      Collected date/time 04/22/20 09:30      Received date/time 04/23/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1465846	1	04/25/20 08:32	04/25/20 08:32	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1465844	1	05/01/20 00:50	05/01/20 00:50	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1466521	1	04/27/20 04:13	04/27/20 04:13	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1466952	1	04/29/20 19:43	04/30/20 12:39	JN	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## MW-9-W-200422 L1211750-02 GW

Collected by EW      Collected date/time 04/22/20 10:00      Received date/time 04/23/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1465846	1	04/25/20 08:56	04/25/20 08:56	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1465844	100	05/01/20 02:48	05/01/20 02:48	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1466521	1	04/27/20 04:33	04/27/20 04:33	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1466952	1	04/29/20 19:43	04/30/20 12:59	JN	Mt. Juliet, TN

## MW-8RR-W-200422 L1211750-03 GW

Collected by EW      Collected date/time 04/22/20 11:00      Received date/time 04/23/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1465846	1	04/25/20 09:20	04/25/20 09:20	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1465844	1	05/01/20 02:01	05/01/20 02:01	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1466521	1	04/27/20 04:54	04/27/20 04:54	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1469015	1.03	04/30/20 23:52	05/01/20 15:04	CLG	Mt. Juliet, TN

## MW-2R-W-200422 L1211750-04 GW

Collected by EW      Collected date/time 04/22/20 12:00      Received date/time 04/23/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1465846	1	04/25/20 09:44	04/25/20 09:44	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1465844	20	05/01/20 02:24	05/01/20 02:24	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1466521	1	04/27/20 05:14	04/27/20 05:14	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1466952	1	04/29/20 19:43	04/30/20 13:40	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1465507	1.02	04/23/20 23:45	04/24/20 12:33	DMG	Mt. Juliet, TN

## BD-1-W-200422 L1211750-05 GW

Collected by EW      Collected date/time 04/22/20 00:00      Received date/time 04/23/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1465846	1	04/25/20 10:08	04/25/20 10:08	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1465844	100	05/01/20 03:11	05/01/20 03:11	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1466521	1	04/27/20 05:35	04/27/20 05:35	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1466952	1	04/29/20 19:43	04/30/20 14:00	JN	Mt. Juliet, TN

## TRIP BLANK-200422 L1211750-06 GW

Collected by EW      Collected date/time 04/22/20 00:00      Received date/time 04/23/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1465846	1	04/25/20 02:02	04/25/20 02:02	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1465844	1	04/30/20 23:40	04/30/20 23:40	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1466521	1	04/26/20 23:21	04/26/20 23:21	ADM	Mt. Juliet, TN



Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

### Volatile Organic Compounds (GC/MS) by Method 8260D

The associated batch QC was below the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG1466521	(LCSD) R3522591-2, L1211750-01, 02, 03, 04, 05, 06	cis-1,3-Dichloropropene

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG1465844	(LCSD) R3523843-2, L1211750-01, 02, 04, 05, 06	1,2,3-Trichloropropane and 1,2-Dibromoethane
WG1466521	(LCSD) R3522591-2, L1211750-01, 02, 04, 05, 06	Hexachloro-1,3-butadiene

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG1466521	(MSD) R3522591-5, L1211750-03	Bromobenzene and Tetrachloroethene

### Semi-Volatile Organic Compounds (GC) by Method AK102

Surrogate recovery limits have been exceeded; values are outside lower control limits.

Batch	Analyte	Lab Sample ID
WG1469015	o-Terphenyl	(BLANK) R3524006-1, L1211750-03

The associated batch QC was below the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG1469015	(LCS) R3524006-6, L1211750-03	AK102 DRO C10-C25

### Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG1465507	(LCSD) R3521937-2, L1211750-04	1-Methylnaphthalene and 2-Chloronaphthalene



Collected date/time: 04/22/20 09:30

L1211750

## Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHGAK C6 to C10	U		10.0	100	1	04/25/2020 08:32	<a href="#">WG1465846</a>
(S) a,a,a-Trifluorotoluene(FID)	101			50.0-150		04/25/2020 08:32	<a href="#">WG1465846</a>

## Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2,3-Trichloropropane	U	J3	0.00200	0.00500	1	05/01/2020 00:50	<a href="#">WG1465844</a>
Acetone	U		11.3	50.0	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,2-Dibromoethane	U	J3	0.00410	0.00500	1	05/01/2020 00:50	<a href="#">WG1465844</a>
Acrolein	U	J0	2.54	50.0	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Acrylonitrile	U		0.671	10.0	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Benzene	U		0.0941	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Bromobenzene	U	J0	0.118	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Bromochloromethane	U		0.128	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Bromodichloromethane	U		0.136	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Bromoform	U		0.129	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Bromomethane	U		0.605	5.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
n-Butylbenzene	U		0.157	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
sec-Butylbenzene	U		0.125	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
tert-Butylbenzene	U		0.127	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Carbon disulfide	U		0.0962	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Carbon tetrachloride	U		0.128	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Chlorobenzene	U		0.116	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Chlorodibromomethane	U		0.140	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Chloroethane	U		0.192	5.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Chloroform	U		0.111	5.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Chloromethane	U		0.960	2.50	1	04/27/2020 04:13	<a href="#">WG1466521</a>
2-Chlorotoluene	U		0.106	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
4-Chlorotoluene	U		0.114	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Dibromomethane	U		0.122	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Dichlorodifluoromethane	U		0.374	5.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,1-Dichloroethane	U		0.100	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,2-Dichloroethane	U		0.0819	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,1-Dichloroethene	U		0.188	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
trans-1,2-Dichloroethene	U		0.149	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,2-Dichloropropane	U		0.149	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,1-Dichloropropene	U		0.142	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,3-Dichloropropane	U		0.110	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
cis-1,3-Dichloropropene	U	J4	0.111	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
2,2-Dichloropropane	U		0.161	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Di-isopropyl ether	U		0.105	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Ethylbenzene	U		0.137	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Hexachloro-1,3-butadiene	U	J3	0.337	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Isopropylbenzene	U		0.105	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
p-Isopropyltoluene	U		0.120	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
2-Butanone (MEK)	U		1.19	10.0	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Methylene Chloride	U		0.430	5.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Methyl tert-butyl ether	U		0.101	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/22/20 09:30

L1211750

## Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Naphthalene	U		1.00	5.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
n-Propylbenzene	U		0.0993	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Styrene	U		0.118	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Tetrachloroethene	U		0.300	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Toluene	U		0.278	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Trichloroethene	U		0.190	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Trichlorofluoromethane	U		0.160	5.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Vinyl chloride	U		0.234	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
Xylenes, Total	U		0.174	3.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
o-Xylene	U		0.174	1.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
m&p-Xylene	U		0.430	2.00	1	04/27/2020 04:13	<a href="#">WG1466521</a>
(S) Toluene-d8	104			80.0-120		04/27/2020 04:13	<a href="#">WG1466521</a>
(S) 4-Bromofluorobenzene	103			77.0-126		04/27/2020 04:13	<a href="#">WG1466521</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		04/27/2020 04:13	<a href="#">WG1466521</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		229	800	1	04/30/2020 12:39	<a href="#">WG1466952</a>
(S) o-Terphenyl	71.3			50.0-150		04/30/2020 12:39	<a href="#">WG1466952</a>





Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHGAK C6 to C10	45.6	J	10.0	100	1	04/25/2020 08:56	WG1465846
(S) a,a,a-Trifluorotoluene(FID)	101			50.0-150		04/25/2020 08:56	WG1465846

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2,3-Trichloropropane	U	J3	0.200	0.500	100	05/01/2020 02:48	WG1465844
Acetone	U		11.3	50.0	1	04/27/2020 04:33	WG1466521
1,2-Dibromoethane	U	J3	0.410	0.500	100	05/01/2020 02:48	WG1465844
Acrolein	U	J0	2.54	50.0	1	04/27/2020 04:33	WG1466521
Acrylonitrile	U		0.671	10.0	1	04/27/2020 04:33	WG1466521
Benzene	U		0.0941	1.00	1	04/27/2020 04:33	WG1466521
Bromobenzene	U	J0	0.118	1.00	1	04/27/2020 04:33	WG1466521
Bromochloromethane	U		0.128	1.00	1	04/27/2020 04:33	WG1466521
Bromodichloromethane	U		0.136	1.00	1	04/27/2020 04:33	WG1466521
Bromoform	U		0.129	1.00	1	04/27/2020 04:33	WG1466521
Bromomethane	U		0.605	5.00	1	04/27/2020 04:33	WG1466521
n-Butylbenzene	U		0.157	1.00	1	04/27/2020 04:33	WG1466521
sec-Butylbenzene	U		0.125	1.00	1	04/27/2020 04:33	WG1466521
tert-Butylbenzene	U		0.127	1.00	1	04/27/2020 04:33	WG1466521
Carbon disulfide	U		0.0962	1.00	1	04/27/2020 04:33	WG1466521
Carbon tetrachloride	U		0.128	1.00	1	04/27/2020 04:33	WG1466521
Chlorobenzene	U		0.116	1.00	1	04/27/2020 04:33	WG1466521
Chlorodibromomethane	U		0.140	1.00	1	04/27/2020 04:33	WG1466521
Chloroethane	U		0.192	5.00	1	04/27/2020 04:33	WG1466521
Chloroform	U		0.111	5.00	1	04/27/2020 04:33	WG1466521
Chloromethane	U		0.960	2.50	1	04/27/2020 04:33	WG1466521
2-Chlorotoluene	U		0.106	1.00	1	04/27/2020 04:33	WG1466521
4-Chlorotoluene	U		0.114	1.00	1	04/27/2020 04:33	WG1466521
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	04/27/2020 04:33	WG1466521
Dibromomethane	U		0.122	1.00	1	04/27/2020 04:33	WG1466521
1,2-Dichlorobenzene	0.195	J	0.107	1.00	1	04/27/2020 04:33	WG1466521
1,3-Dichlorobenzene	U		0.110	1.00	1	04/27/2020 04:33	WG1466521
1,4-Dichlorobenzene	U		0.120	1.00	1	04/27/2020 04:33	WG1466521
Dichlorodifluoromethane	U		0.374	5.00	1	04/27/2020 04:33	WG1466521
1,1-Dichloroethane	U		0.100	1.00	1	04/27/2020 04:33	WG1466521
1,2-Dichloroethane	U		0.0819	1.00	1	04/27/2020 04:33	WG1466521
1,1-Dichloroethene	U		0.188	1.00	1	04/27/2020 04:33	WG1466521
cis-1,2-Dichloroethene	58.0		0.126	1.00	1	04/27/2020 04:33	WG1466521
trans-1,2-Dichloroethene	0.393	J	0.149	1.00	1	04/27/2020 04:33	WG1466521
1,2-Dichloropropane	U		0.149	1.00	1	04/27/2020 04:33	WG1466521
1,1-Dichloropropene	U		0.142	1.00	1	04/27/2020 04:33	WG1466521
1,3-Dichloropropane	U		0.110	1.00	1	04/27/2020 04:33	WG1466521
cis-1,3-Dichloropropene	U	J4	0.111	1.00	1	04/27/2020 04:33	WG1466521
trans-1,3-Dichloropropene	U		0.118	1.00	1	04/27/2020 04:33	WG1466521
2,2-Dichloropropane	U		0.161	1.00	1	04/27/2020 04:33	WG1466521
Di-isopropyl ether	U		0.105	1.00	1	04/27/2020 04:33	WG1466521
Ethylbenzene	U		0.137	1.00	1	04/27/2020 04:33	WG1466521
Hexachloro-1,3-butadiene	U	J3	0.337	1.00	1	04/27/2020 04:33	WG1466521
Isopropylbenzene	U		0.105	1.00	1	04/27/2020 04:33	WG1466521
p-Isopropyltoluene	U		0.120	1.00	1	04/27/2020 04:33	WG1466521
2-Butanone (MEK)	U		1.19	10.0	1	04/27/2020 04:33	WG1466521
Methylene Chloride	U		0.430	5.00	1	04/27/2020 04:33	WG1466521
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	04/27/2020 04:33	WG1466521
Methyl tert-butyl ether	U		0.101	1.00	1	04/27/2020 04:33	WG1466521



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Naphthalene	U		1.00	5.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
n-Propylbenzene	U		0.0993	1.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
Styrene	U		0.118	1.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
Tetrachloroethene	82.8		0.300	1.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
Toluene	U		0.278	1.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
Trichloroethene	21.9		0.190	1.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
Trichlorofluoromethane	U		0.160	5.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
Vinyl chloride	U		0.234	1.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
Xylenes, Total	U		0.174	3.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
o-Xylene	U		0.174	1.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
m&p-Xylene	U		0.430	2.00	1	04/27/2020 04:33	<a href="#">WG1466521</a>
(S) Toluene-d8	107			80.0-120		04/27/2020 04:33	<a href="#">WG1466521</a>
(S) 4-Bromofluorobenzene	106			77.0-126		04/27/2020 04:33	<a href="#">WG1466521</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		04/27/2020 04:33	<a href="#">WG1466521</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1211750-02 WG1465844: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		229	800	1	04/30/2020 12:59	<a href="#">WG1466952</a>
(S) o-Terphenyl	64.0			50.0-150		04/30/2020 12:59	<a href="#">WG1466952</a>



Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHGAK C6 to C10	U		10.0	100	1	04/25/2020 09:20	<a href="#">WG1465846</a>
(S) a,a,a-Trifluorotoluene(FID)	101			50.0-150		04/25/2020 09:20	<a href="#">WG1465846</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2,3-Trichloropropane	U		0.00200	0.00500	1	05/01/2020 02:01	<a href="#">WG1465844</a>
Acetone	U		11.3	50.0	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,2-Dibromoethane	0.0110		0.00410	0.00500	1	05/01/2020 02:01	<a href="#">WG1465844</a>
Acrolein	U	<u>JO</u>	2.54	50.0	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Acrylonitrile	U		0.671	10.0	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Benzene	U		0.0941	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Bromobenzene	U	<u>JO J3</u>	0.118	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Bromochloromethane	U		0.128	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Bromodichloromethane	U		0.136	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Bromoform	U		0.129	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Bromomethane	U		0.605	5.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
n-Butylbenzene	U		0.157	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
sec-Butylbenzene	U		0.125	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
tert-Butylbenzene	U		0.127	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Carbon disulfide	U		0.0962	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Carbon tetrachloride	U		0.128	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Chlorobenzene	U		0.116	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Chlorodibromomethane	U		0.140	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Chloroethane	U		0.192	5.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Chloroform	U		0.111	5.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Chloromethane	U		0.960	2.50	1	04/27/2020 04:54	<a href="#">WG1466521</a>
2-Chlorotoluene	U		0.106	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
4-Chlorotoluene	U		0.114	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Dibromomethane	U		0.122	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Dichlorodifluoromethane	U		0.374	5.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,1-Dichloroethane	U		0.100	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,2-Dichloroethane	0.636	<u>J</u>	0.0819	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,1-Dichloroethene	U		0.188	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
trans-1,2-Dichloroethene	U		0.149	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,2-Dichloropropane	U		0.149	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,1-Dichloropropene	U		0.142	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,3-Dichloropropane	U		0.110	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
cis-1,3-Dichloropropene	U	<u>J4</u>	0.111	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
2,2-Dichloropropane	U		0.161	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Di-isopropyl ether	U		0.105	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Ethylbenzene	U		0.137	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Isopropylbenzene	U		0.105	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
p-Isopropyltoluene	U		0.120	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
2-Butanone (MEK)	U		1.19	10.0	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Methylene Chloride	U		0.430	5.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Methyl tert-butyl ether	U		0.101	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Naphthalene	U		1.00	5.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
n-Propylbenzene	U		0.0993	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Styrene	U		0.118	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Tetrachloroethene	2.08	<u>J3</u>	0.300	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Toluene	U		0.278	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Trichloroethene	U		0.190	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Trichlorofluoromethane	U		0.160	5.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Vinyl chloride	U		0.234	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
Xylenes, Total	U		0.174	3.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
o-Xylene	U		0.174	1.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
m&p-Xylene	U		0.430	2.00	1	04/27/2020 04:54	<a href="#">WG1466521</a>
(S) Toluene-d8	106			80.0-120		04/27/2020 04:54	<a href="#">WG1466521</a>
(S) 4-Bromofluorobenzene	106			77.0-126		04/27/2020 04:54	<a href="#">WG1466521</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		04/27/2020 04:54	<a href="#">WG1466521</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U	<u>J4</u>	236	824	1.03	05/01/2020 15:04	<a href="#">WG1469015</a>
(S) o-Terphenyl	31.6	<u>J2</u>		50.0-150		05/01/2020 15:04	<a href="#">WG1469015</a>

Sample Narrative:

L1211750-03 WG1469015: Duplicate analysis confirms sample results.



Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHGAK C6 to C10	207		10.0	100	1	04/25/2020 09:44	<a href="#">WG1465846</a>
(S) a,a,a-Trifluorotoluene(FID)	81.2			50.0-150		04/25/2020 09:44	<a href="#">WG1465846</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2,3-Trichloropropane	U	J3	0.0400	0.100	20	05/01/2020 02:24	<a href="#">WG1465844</a>
Acetone	U		11.3	50.0	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,2-Dibromoethane	U	J3	0.0820	0.100	20	05/01/2020 02:24	<a href="#">WG1465844</a>
Acrolein	U	J0	2.54	50.0	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Acrylonitrile	U		0.671	10.0	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Benzene	3.24		0.0941	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Bromobenzene	U	J0	0.118	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Bromochloromethane	U		0.128	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Bromodichloromethane	U		0.136	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Bromoform	U		0.129	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Bromomethane	U		0.605	5.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
n-Butylbenzene	U		0.157	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
sec-Butylbenzene	6.04		0.125	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
tert-Butylbenzene	7.77		0.127	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Carbon disulfide	U		0.0962	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Carbon tetrachloride	U		0.128	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Chlorobenzene	U		0.116	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Chlorodibromomethane	U		0.140	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Chloroethane	U		0.192	5.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Chloroform	U		0.111	5.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Chloromethane	U		0.960	2.50	1	04/27/2020 05:14	<a href="#">WG1466521</a>
2-Chlorotoluene	U		0.106	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
4-Chlorotoluene	U		0.114	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Dibromomethane	U		0.122	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Dichlorodifluoromethane	U		0.374	5.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,1-Dichloroethane	U		0.100	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,2-Dichloroethane	4.73		0.0819	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,1-Dichloroethene	U		0.188	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
trans-1,2-Dichloroethene	U		0.149	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,2-Dichloropropane	U		0.149	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,1-Dichloropropene	U		0.142	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,3-Dichloropropane	U		0.110	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
cis-1,3-Dichloropropene	U	J4	0.111	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
2,2-Dichloropropane	U		0.161	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Di-isopropyl ether	U		0.105	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Ethylbenzene	9.21		0.137	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Hexachloro-1,3-butadiene	U	J3	0.337	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Isopropylbenzene	16.2		0.105	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
p-Isopropyltoluene	2.99		0.120	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
2-Butanone (MEK)	U		1.19	10.0	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Methylene Chloride	U		0.430	5.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Methyl tert-butyl ether	U		0.101	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Naphthalene	U		1.00	5.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
n-Propylbenzene	17.8		0.0993	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Styrene	U		0.118	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Tetrachloroethene	U		0.300	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Toluene	U		0.278	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Trichloroethene	U		0.190	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Trichlorofluoromethane	U		0.160	5.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Vinyl chloride	U		0.234	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
Xylenes, Total	U		0.174	3.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
o-Xylene	U		0.174	1.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
m&p-Xylene	U		0.430	2.00	1	04/27/2020 05:14	<a href="#">WG1466521</a>
(S) Toluene-d8	94.8			80.0-120		04/27/2020 05:14	<a href="#">WG1466521</a>
(S) 4-Bromofluorobenzene	90.7			77.0-126		04/27/2020 05:14	<a href="#">WG1466521</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		04/27/2020 05:14	<a href="#">WG1466521</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1211750-04 WG1465844: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	938		229	800	1	04/30/2020 13:40	<a href="#">WG1466952</a>
(S) o-Terphenyl	73.3			50.0-150		04/30/2020 13:40	<a href="#">WG1466952</a>

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0194	0.0510	1.02	04/24/2020 12:33	<a href="#">WG1465507</a>
Acenaphthene	U		0.0194	0.0510	1.02	04/24/2020 12:33	<a href="#">WG1465507</a>
Acenaphthylene	U		0.0173	0.0510	1.02	04/24/2020 12:33	<a href="#">WG1465507</a>
Benzo(a)anthracene	U		0.0204	0.0510	1.02	04/24/2020 12:33	<a href="#">WG1465507</a>
Benzo(a)pyrene	U		0.0184	0.0510	1.02	04/24/2020 12:33	<a href="#">WG1465507</a>
Benzo(b)fluoranthene	U		0.0173	0.0510	1.02	04/24/2020 12:33	<a href="#">WG1465507</a>
Benzo(g,h,i)perylene	U		0.0184	0.0510	1.02	04/24/2020 12:33	<a href="#">WG1465507</a>
Benzo(k)fluoranthene	U		0.0204	0.255	1.02	04/24/2020 12:33	<a href="#">WG1465507</a>
Chrysene	U		0.0184	0.0510	1.02	04/24/2020 12:33	<a href="#">WG1465507</a>
Dibenz(a,h)anthracene	U		0.0184	0.0510	1.02	04/24/2020 12:33	<a href="#">WG1465507</a>
Fluoranthene	U		0.0112	0.0510	1.02	04/24/2020 12:33	<a href="#">WG1465507</a>
Fluorene	U		0.0173	0.0510	1.02	04/24/2020 12:33	<a href="#">WG1465507</a>
Indeno(1,2,3-cd)pyrene	U		0.0184	0.0510	1.02	04/24/2020 12:33	<a href="#">WG1465507</a>
Naphthalene	0.256	J	0.131	0.510	1.02	04/24/2020 12:33	<a href="#">WG1465507</a>
Phenanthrene	U		0.0184	0.0510	1.02	04/24/2020 12:33	<a href="#">WG1465507</a>
Pyrene	U		0.0173	0.0510	1.02	04/24/2020 12:33	<a href="#">WG1465507</a>
1-Methylnaphthalene	0.360	JJ3	0.0204	0.510	1.02	04/24/2020 12:33	<a href="#">WG1465507</a>
2-Methylnaphthalene	U		0.0286	0.510	1.02	04/24/2020 12:33	<a href="#">WG1465507</a>



Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
2-Chloronaphthalene	U	<u>J3</u>	0.0122	0.510	1.02	04/24/2020 12:33	<a href="#">WG1465507</a>
(S) Nitrobenzene-d5	63.2			11.0-135		04/24/2020 12:33	<a href="#">WG1465507</a>
(S) 2-Fluorobiphenyl	51.0			32.0-120		04/24/2020 12:33	<a href="#">WG1465507</a>
(S) p-Terphenyl-d14	70.6			23.0-122		04/24/2020 12:33	<a href="#">WG1465507</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHGAK C6 to C10	46.5	J	10.0	100	1	04/25/2020 10:08	WG1465846
(S) a,a,a-Trifluorotoluene(FID)	101			50.0-150		04/25/2020 10:08	WG1465846

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2,3-Trichloropropane	U	J3	0.200	0.500	100	05/01/2020 03:11	WG1465844
Acetone	U		11.3	50.0	1	04/27/2020 05:35	WG1466521
1,2-Dibromoethane	U	J3	0.410	0.500	100	05/01/2020 03:11	WG1465844
Acrolein	U	J0	2.54	50.0	1	04/27/2020 05:35	WG1466521
Acrylonitrile	U		0.671	10.0	1	04/27/2020 05:35	WG1466521
Benzene	U		0.0941	1.00	1	04/27/2020 05:35	WG1466521
Bromobenzene	U	J0	0.118	1.00	1	04/27/2020 05:35	WG1466521
Bromochloromethane	U		0.128	1.00	1	04/27/2020 05:35	WG1466521
Bromodichloromethane	U		0.136	1.00	1	04/27/2020 05:35	WG1466521
Bromoform	U		0.129	1.00	1	04/27/2020 05:35	WG1466521
Bromomethane	U		0.605	5.00	1	04/27/2020 05:35	WG1466521
n-Butylbenzene	U		0.157	1.00	1	04/27/2020 05:35	WG1466521
sec-Butylbenzene	U		0.125	1.00	1	04/27/2020 05:35	WG1466521
tert-Butylbenzene	U		0.127	1.00	1	04/27/2020 05:35	WG1466521
Carbon disulfide	U		0.0962	1.00	1	04/27/2020 05:35	WG1466521
Carbon tetrachloride	U		0.128	1.00	1	04/27/2020 05:35	WG1466521
Chlorobenzene	U		0.116	1.00	1	04/27/2020 05:35	WG1466521
Chlorodibromomethane	U		0.140	1.00	1	04/27/2020 05:35	WG1466521
Chloroethane	U		0.192	5.00	1	04/27/2020 05:35	WG1466521
Chloroform	U		0.111	5.00	1	04/27/2020 05:35	WG1466521
Chloromethane	U		0.960	2.50	1	04/27/2020 05:35	WG1466521
2-Chlorotoluene	U		0.106	1.00	1	04/27/2020 05:35	WG1466521
4-Chlorotoluene	U		0.114	1.00	1	04/27/2020 05:35	WG1466521
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	04/27/2020 05:35	WG1466521
Dibromomethane	U		0.122	1.00	1	04/27/2020 05:35	WG1466521
1,2-Dichlorobenzene	0.177	J	0.107	1.00	1	04/27/2020 05:35	WG1466521
1,3-Dichlorobenzene	U		0.110	1.00	1	04/27/2020 05:35	WG1466521
1,4-Dichlorobenzene	U		0.120	1.00	1	04/27/2020 05:35	WG1466521
Dichlorodifluoromethane	U		0.374	5.00	1	04/27/2020 05:35	WG1466521
1,1-Dichloroethane	U		0.100	1.00	1	04/27/2020 05:35	WG1466521
1,2-Dichloroethane	U		0.0819	1.00	1	04/27/2020 05:35	WG1466521
1,1-Dichloroethene	U		0.188	1.00	1	04/27/2020 05:35	WG1466521
cis-1,2-Dichloroethene	58.1		0.126	1.00	1	04/27/2020 05:35	WG1466521
trans-1,2-Dichloroethene	0.389	J	0.149	1.00	1	04/27/2020 05:35	WG1466521
1,2-Dichloropropane	U		0.149	1.00	1	04/27/2020 05:35	WG1466521
1,1-Dichloropropene	U		0.142	1.00	1	04/27/2020 05:35	WG1466521
1,3-Dichloropropane	U		0.110	1.00	1	04/27/2020 05:35	WG1466521
cis-1,3-Dichloropropene	U	J4	0.111	1.00	1	04/27/2020 05:35	WG1466521
trans-1,3-Dichloropropene	U		0.118	1.00	1	04/27/2020 05:35	WG1466521
2,2-Dichloropropane	U		0.161	1.00	1	04/27/2020 05:35	WG1466521
Di-isopropyl ether	U		0.105	1.00	1	04/27/2020 05:35	WG1466521
Ethylbenzene	U		0.137	1.00	1	04/27/2020 05:35	WG1466521
Hexachloro-1,3-butadiene	U	J3	0.337	1.00	1	04/27/2020 05:35	WG1466521
Isopropylbenzene	U		0.105	1.00	1	04/27/2020 05:35	WG1466521
p-Isopropyltoluene	U		0.120	1.00	1	04/27/2020 05:35	WG1466521
2-Butanone (MEK)	U		1.19	10.0	1	04/27/2020 05:35	WG1466521
Methylene Chloride	U		0.430	5.00	1	04/27/2020 05:35	WG1466521
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	04/27/2020 05:35	WG1466521
Methyl tert-butyl ether	U		0.101	1.00	1	04/27/2020 05:35	WG1466521



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Naphthalene	U		1.00	5.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
n-Propylbenzene	U		0.0993	1.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
Styrene	U		0.118	1.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
Tetrachloroethene	80.5		0.300	1.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
Toluene	U		0.278	1.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
Trichloroethene	21.6		0.190	1.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
Trichlorofluoromethane	U		0.160	5.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
Vinyl chloride	U		0.234	1.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
Xylenes, Total	U		0.174	3.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
o-Xylene	U		0.174	1.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
m&p-Xylene	U		0.430	2.00	1	04/27/2020 05:35	<a href="#">WG1466521</a>
(S) Toluene-d8	106			80.0-120		04/27/2020 05:35	<a href="#">WG1466521</a>
(S) 4-Bromofluorobenzene	101			77.0-126		04/27/2020 05:35	<a href="#">WG1466521</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		04/27/2020 05:35	<a href="#">WG1466521</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1211750-05 WG1465844: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		229	800	1	04/30/2020 14:00	<a href="#">WG1466952</a>
(S) o-Terphenyl	63.5			50.0-150		04/30/2020 14:00	<a href="#">WG1466952</a>



Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHGAK C6 to C10	U		10.0	100	1	04/25/2020 02:02	<a href="#">WG1465846</a>
(S) a,a,a-Trifluorotoluene(FID)	101			50.0-150		04/25/2020 02:02	<a href="#">WG1465846</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2,3-Trichloropropane	U	J3	0.00200	0.00500	1	04/30/2020 23:40	<a href="#">WG1465844</a>
Acetone	U		11.3	50.0	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,2-Dibromoethane	U	J3	0.00410	0.00500	1	04/30/2020 23:40	<a href="#">WG1465844</a>
Acrolein	U	J0	2.54	50.0	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Acrylonitrile	U		0.671	10.0	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Benzene	U		0.0941	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Bromobenzene	U	J0	0.118	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Bromochloromethane	U		0.128	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Bromodichloromethane	U		0.136	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Bromoform	U		0.129	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Bromomethane	U		0.605	5.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
n-Butylbenzene	U		0.157	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
sec-Butylbenzene	U		0.125	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
tert-Butylbenzene	U		0.127	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Carbon disulfide	U		0.0962	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Carbon tetrachloride	U		0.128	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Chlorobenzene	U		0.116	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Chlorodibromomethane	U		0.140	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Chloroethane	U		0.192	5.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Chloroform	U		0.111	5.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Chloromethane	U		0.960	2.50	1	04/26/2020 23:21	<a href="#">WG1466521</a>
2-Chlorotoluene	U		0.106	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
4-Chlorotoluene	U		0.114	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Dibromomethane	U		0.122	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Dichlorodifluoromethane	U		0.374	5.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,1-Dichloroethane	U		0.100	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,2-Dichloroethane	U		0.0819	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,1-Dichloroethene	U		0.188	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
trans-1,2-Dichloroethene	U		0.149	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,2-Dichloropropane	U		0.149	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,1-Dichloropropene	U		0.142	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,3-Dichloropropane	U		0.110	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
cis-1,3-Dichloropropene	U	J4	0.111	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
2,2-Dichloropropane	U		0.161	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Di-isopropyl ether	U		0.105	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Ethylbenzene	U		0.137	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Hexachloro-1,3-butadiene	U	J3	0.337	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Isopropylbenzene	U		0.105	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
p-Isopropyltoluene	U		0.120	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
2-Butanone (MEK)	U		1.19	10.0	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Methylene Chloride	U		0.430	5.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Methyl tert-butyl ether	U		0.101	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Naphthalene	U		1.00	5.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
n-Propylbenzene	U		0.0993	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Styrene	U		0.118	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Tetrachloroethene	U		0.300	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Toluene	U		0.278	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Trichloroethene	U		0.190	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Trichlorofluoromethane	U		0.160	5.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Vinyl chloride	U		0.234	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
Xylenes, Total	U		0.174	3.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
o-Xylene	U		0.174	1.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
m&p-Xylene	U		0.430	2.00	1	04/26/2020 23:21	<a href="#">WG1466521</a>
(S) Toluene-d8	106			80.0-120		04/26/2020 23:21	<a href="#">WG1466521</a>
(S) 4-Bromofluorobenzene	99.2			77.0-126		04/26/2020 23:21	<a href="#">WG1466521</a>
(S) 1,2-Dichloroethane-d4	101			70.0-130		04/26/2020 23:21	<a href="#">WG1466521</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3521895-2 04/25/20 01:14

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TPHGAK C6 to C10	U		10.0	100
(S) a,a,a-Trifluorotoluene(FID)	101			60.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3521895-1 04/25/20 00:25 • (LCSD) R3521895-5 04/25/20 12:33

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
TPHGAK C6 to C10	400	475	456	119	114	60.0-120			4.08	20
(S) a,a,a-Trifluorotoluene(FID)				102	102	60.0-120				

5 Sr

6 Qc

7 Gl

L1211750-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1211750-03 04/25/20 09:20 • (MS) R3521895-3 04/25/20 11:21 • (MSD) R3521895-4 04/25/20 11:45

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TPHGAK C6 to C10	400	U	411	407	103	102	1	70.0-130			0.978	20
(S) a,a,a-Trifluorotoluene(FID)					102	102		50.0-150				

8 Al

9 Sc



Method Blank (MB)

(MB) R3523843-3 04/30/20 22:53

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
1,2,3-Trichloropropane	U		0.00200	0.00500
1,2-Dibromoethane	U		0.00410	0.00500

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3523843-1 04/30/20 21:43 • (LCSD) R3523843-2 04/30/20 22:07

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
1,2,3-Trichloropropane	0.0500	0.0490	0.0610	98.0	122	70.0-130		J3	21.8	20
1,2-Dibromoethane	0.0500	0.0500	0.0630	100	126	70.0-130		J3	23.0	20

L1211750-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1211750-03 05/01/20 02:01 • (MS) R3523843-4 05/01/20 03:34 • (MSD) R3523843-5 05/01/20 03:58

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
1,2,3-Trichloropropane	0.0500	U	0.0570	0.0580	114	116	1	70.0-130			1.74	20
1,2-Dibromoethane	0.0500	0.0110	0.0610	0.0650	100	108	1	70.0-130			6.35	20



Method Blank (MB)

(MB) R3522591-3 04/26/20 22:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromochloromethane	U		0.128	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3522591-3 04/26/20 22:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.337	1.00
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trimethylbenzene	U		0.104	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
o-Xylene	U		0.174	1.00
m&p-Xylene	U		0.430	2.00
(S) Toluene-d8	109			80.0-120
(S) 4-Bromofluorobenzene	100			77.0-126
(S) 1,2-Dichloroethane-d4	102			70.0-130

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3522591-1 04/26/20 21:39 • (LCSD) R3522591-2 04/26/20 21:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	25.1	25.8	100	103	19.0-160			2.75	27
Acrolein	25.0	6.76	6.50	27.0	26.0	10.0-160			3.92	26





Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3522591-1 04/26/20 21:39 • (LCSD) R3522591-2 04/26/20 21:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acrylonitrile	25.0	25.1	24.6	100	98.4	55.0-149			2.01	20
Benzene	5.00	4.59	4.79	91.8	95.8	70.0-123			4.26	20
Bromobenzene	5.00	3.96	4.48	79.2	89.6	73.0-121			12.3	20
Bromodichloromethane	5.00	4.54	4.62	90.8	92.4	75.0-120			1.75	20
Bromochloromethane	5.00	5.13	5.20	103	104	76.0-122			1.36	20
Bromoform	5.00	4.51	4.30	90.2	86.0	68.0-132			4.77	20
Bromomethane	5.00	5.49	5.60	110	112	10.0-160			1.98	25
n-Butylbenzene	5.00	4.30	4.86	86.0	97.2	73.0-125			12.2	20
sec-Butylbenzene	5.00	4.20	4.80	84.0	96.0	75.0-125			13.3	20
tert-Butylbenzene	5.00	4.23	4.68	84.6	93.6	76.0-124			10.1	20
Carbon disulfide	5.00	4.87	4.98	97.4	99.6	61.0-128			2.23	20
Carbon tetrachloride	5.00	5.01	5.00	100	100	68.0-126			0.200	20
Chlorobenzene	5.00	4.72	4.48	94.4	89.6	80.0-121			5.22	20
Chlorodibromomethane	5.00	4.61	4.68	92.2	93.6	77.0-125			1.51	20
Chloroethane	5.00	5.53	6.32	111	126	47.0-150			13.3	20
Chloroform	5.00	4.67	4.92	93.4	98.4	73.0-120			5.21	20
Chloromethane	5.00	5.44	5.90	109	118	41.0-142			8.11	20
2-Chlorotoluene	5.00	4.32	5.01	86.4	100	76.0-123			14.8	20
4-Chlorotoluene	5.00	4.03	4.54	80.6	90.8	75.0-122			11.9	20
1,2-Dibromo-3-Chloropropane	5.00	4.24	4.92	84.8	98.4	58.0-134			14.8	20
Dibromomethane	5.00	4.75	4.63	95.0	92.6	80.0-120			2.56	20
1,2-Dichlorobenzene	5.00	4.36	4.98	87.2	99.6	79.0-121			13.3	20
1,3-Dichlorobenzene	5.00	4.43	4.80	88.6	96.0	79.0-120			8.02	20
1,4-Dichlorobenzene	5.00	4.19	4.73	83.8	94.6	79.0-120			12.1	20
Dichlorodifluoromethane	5.00	6.44	6.54	129	131	51.0-149			1.54	20
1,1-Dichloroethane	5.00	4.82	4.93	96.4	98.6	70.0-126			2.26	20
1,2-Dichloroethane	5.00	4.89	4.90	97.8	98.0	70.0-128			0.204	20
1,1-Dichloroethene	5.00	4.82	4.97	96.4	99.4	71.0-124			3.06	20
cis-1,2-Dichloroethene	5.00	4.81	4.92	96.2	98.4	73.0-120			2.26	20
trans-1,2-Dichloroethene	5.00	4.67	4.94	93.4	98.8	73.0-120			5.62	20
1,2-Dichloropropane	5.00	4.51	4.48	90.2	89.6	77.0-125			0.667	20
1,1-Dichloropropene	5.00	4.81	4.95	96.2	99.0	74.0-126			2.87	20
1,3-Dichloropropane	5.00	4.65	4.23	93.0	84.6	80.0-120			9.46	20
cis-1,3-Dichloropropene	5.00	4.23	3.98	84.6	79.6	80.0-123		J4	6.09	20
trans-1,3-Dichloropropene	5.00	4.44	4.14	88.8	82.8	78.0-124			6.99	20
2,2-Dichloropropane	5.00	4.75	4.97	95.0	99.4	58.0-130			4.53	20
Di-isopropyl ether	5.00	4.90	5.13	98.0	103	58.0-138			4.59	20
Ethylbenzene	5.00	4.96	4.78	99.2	95.6	79.0-123			3.70	20
Hexachloro-1,3-butadiene	5.00	4.06	5.34	81.2	107	54.0-138		J3	27.2	20
Isopropylbenzene	5.00	4.88	4.85	97.6	97.0	76.0-127			0.617	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3522591-1 04/26/20 21:39 • (LCSD) R3522591-2 04/26/20 21:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
p-Isopropyltoluene	5.00	4.26	4.88	85.2	97.6	76.0-125			13.6	20
2-Butanone (MEK)	25.0	24.5	23.7	98.0	94.8	44.0-160			3.32	20
Methylene Chloride	5.00	5.20	5.12	104	102	67.0-120			1.55	20
4-Methyl-2-pentanone (MIBK)	25.0	26.3	25.1	105	100	68.0-142			4.67	20
Methyl tert-butyl ether	5.00	4.94	5.04	98.8	101	68.0-125			2.00	20
Naphthalene	5.00	4.31	4.70	86.2	94.0	54.0-135			8.66	20
n-Propylbenzene	5.00	4.23	4.83	84.6	96.6	77.0-124			13.2	20
Styrene	5.00	4.74	4.66	94.8	93.2	73.0-130			1.70	20
1,1,1,2-Tetrachloroethane	5.00	4.83	4.94	96.6	98.8	75.0-125			2.25	20
1,1,2,2-Tetrachloroethane	5.00	4.31	4.75	86.2	95.0	65.0-130			9.71	20
Tetrachloroethene	5.00	4.90	4.47	98.0	89.4	72.0-132			9.18	20
Toluene	5.00	4.57	4.48	91.4	89.6	79.0-120			1.99	20
1,1,2-Trichlorotrifluoroethane	5.00	5.27	5.66	105	113	69.0-132			7.14	20
1,2,3-Trichlorobenzene	5.00	4.33	4.78	86.6	95.6	50.0-138			9.88	20
1,2,4-Trichlorobenzene	5.00	4.25	4.99	85.0	99.8	57.0-137			16.0	20
1,1,1-Trichloroethane	5.00	5.09	5.27	102	105	73.0-124			3.47	20
1,1,2-Trichloroethane	5.00	4.79	4.51	95.8	90.2	80.0-120			6.02	20
Trichloroethene	5.00	4.34	4.56	86.8	91.2	78.0-124			4.94	20
Trichlorofluoromethane	5.00	5.64	5.90	113	118	59.0-147			4.51	20
1,2,3-Trimethylbenzene	5.00	4.24	4.81	84.8	96.2	77.0-120			12.6	20
1,2,4-Trimethylbenzene	5.00	4.03	4.62	80.6	92.4	76.0-121			13.6	20
1,3,5-Trimethylbenzene	5.00	4.15	4.73	83.0	94.6	76.0-122			13.1	20
Vinyl chloride	5.00	5.53	5.86	111	117	67.0-131			5.79	20
Xylenes, Total	15.0	14.5	14.0	96.7	93.3	79.0-123			3.51	20
o-Xylene	5.00	4.92	4.78	98.4	95.6	80.0-122			2.89	20
m&p-Xylene	10.0	9.61	9.26	96.1	92.6	80.0-122			3.71	20
(S) Toluene-d8				106	102	80.0-120				
(S) 4-Bromofluorobenzene				104	97.2	77.0-126				
(S) 1,2-Dichloroethane-d4				104	102	70.0-130				

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1211750-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1211750-03 04/27/20 04:54 • (MS) R3522591-4 04/27/20 09:22 • (MSD) R3522591-5 04/27/20 09:43

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acrolein	25.0	U	11.6	16.1	46.4	64.4	1	10.0-160			32.5	39
Benzene	5.00	U	3.69	4.43	73.8	88.6	1	17.0-158			18.2	27
Acetone	25.0	U	32.0	33.8	128	135	1	10.0-160			5.47	35
Acrylonitrile	25.0	U	26.9	30.9	108	124	1	21.0-160			13.8	32



L1211750-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1211750-03 04/27/20 04:54 • (MS) R3522591-4 04/27/20 09:22 • (MSD) R3522591-5 04/27/20 09:43

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromobenzene	5.00	U	3.06	4.07	61.2	81.4	1	30.0-149		J3	28.3	28
n-Butylbenzene	5.00	U	3.13	4.01	62.6	80.2	1	31.0-150			24.6	30
Bromodichloromethane	5.00	U	4.37	4.79	87.4	95.8	1	31.0-150			9.17	27
sec-Butylbenzene	5.00	U	2.90	3.82	58.0	76.4	1	33.0-155			27.4	29
Bromochloromethane	5.00	U	4.54	5.60	90.8	112	1	38.0-142			20.9	26
tert-Butylbenzene	5.00	U	3.05	3.84	61.0	76.8	1	34.0-153			22.9	28
Bromoform	5.00	U	4.77	5.43	95.4	109	1	29.0-150			12.9	29
Bromomethane	5.00	U	4.04	4.71	80.8	94.2	1	10.0-160			15.3	38
Carbon disulfide	5.00	U	3.44	4.48	68.8	89.6	1	10.0-156			26.3	28
Carbon tetrachloride	5.00	U	3.77	4.71	75.4	94.2	1	23.0-159			22.2	28
Chlorobenzene	5.00	U	3.73	4.59	74.6	91.8	1	33.0-152			20.7	27
Chlorodibromomethane	5.00	U	4.33	5.12	86.6	102	1	37.0-149			16.7	27
Chloroethane	5.00	U	4.36	5.43	87.2	109	1	10.0-160			21.9	30
2-Chlorotoluene	5.00	U	3.19	4.10	63.8	82.0	1	32.0-153			25.0	28
4-Chlorotoluene	5.00	U	3.07	3.91	61.4	78.2	1	32.0-150			24.1	28
Chloroform	5.00	U	3.93	4.74	78.6	94.8	1	29.0-154			18.7	28
Chloromethane	5.00	U	4.25	5.15	85.0	103	1	10.0-160			19.1	29
1,2-Dibromo-3-Chloropropane	5.00	U	4.68	5.12	93.6	102	1	22.0-151			8.98	34
Dibromomethane	5.00	U	4.47	5.33	89.4	107	1	30.0-151			17.6	27
1,2-Dichlorobenzene	5.00	U	3.60	4.34	72.0	86.8	1	34.0-149			18.6	28
1,3-Dichlorobenzene	5.00	U	3.51	4.36	70.2	87.2	1	36.0-146			21.6	27
1,4-Dichlorobenzene	5.00	U	3.39	4.27	67.8	85.4	1	35.0-142			23.0	27
Dichlorodifluoromethane	5.00	U	4.38	5.51	87.6	110	1	10.0-160			22.9	29
1,1-Dichloroethane	5.00	U	3.84	4.66	76.8	93.2	1	25.0-158			19.3	27
1,2-Dichloroethane	5.00	0.636	5.45	5.93	96.3	106	1	29.0-151			8.44	27
1,1-Dichloroethene	5.00	U	3.53	4.41	70.6	88.2	1	11.0-160			22.2	29
1,1-Dichloropropene	5.00	U	3.49	4.48	69.8	89.6	1	25.0-158			24.8	27
cis-1,2-Dichloroethene	5.00	U	4.11	4.61	82.2	92.2	1	10.0-160			11.5	27
1,3-Dichloropropane	5.00	U	4.26	5.02	85.2	100	1	38.0-147			16.4	27
trans-1,2-Dichloroethene	5.00	U	3.79	4.39	75.8	87.8	1	17.0-153			14.7	27
1,2-Dichloropropane	5.00	U	3.99	4.52	79.8	90.4	1	30.0-156			12.5	27
2,2-Dichloropropane	5.00	U	3.42	4.22	68.4	84.4	1	24.0-152			20.9	29
Ethylbenzene	5.00	U	3.67	4.46	73.4	89.2	1	30.0-155			19.4	27
cis-1,3-Dichloropropene	5.00	U	3.96	4.63	79.2	92.6	1	34.0-149			15.6	28
trans-1,3-Dichloropropene	5.00	U	4.31	5.03	86.2	101	1	32.0-149			15.4	28
Di-isopropyl ether	5.00	U	4.72	5.35	94.4	107	1	21.0-160			12.5	28
Isopropylbenzene	5.00	U	3.65	4.48	73.0	89.6	1	28.0-157			20.4	27
Hexachloro-1,3-butadiene	5.00	U	3.36	3.84	67.2	76.8	1	20.0-154			13.3	34
p-Isopropyltoluene	5.00	U	3.03	3.79	60.6	75.8	1	30.0-154			22.3	29
2-Butanone (MEK)	25.0	U	28.8	29.9	115	120	1	10.0-160			3.75	32

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



L1211750-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1211750-03 04/27/20 04:54 • (MS) R3522591-4 04/27/20 09:22 • (MSD) R3522591-5 04/27/20 09:43

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Naphthalene	5.00	U	4.88	5.20	97.6	104	1	12.0-156			6.35	35
Methylene Chloride	5.00	U	4.37	5.01	87.4	100	1	23.0-144			13.6	28
4-Methyl-2-pentanone (MIBK)	25.0	U	27.9	31.8	112	127	1	29.0-160			13.1	29
n-Propylbenzene	5.00	U	2.96	3.87	59.2	77.4	1	31.0-154			26.6	28
Methyl tert-butyl ether	5.00	U	5.10	5.75	102	115	1	28.0-150			12.0	29
Toluene	5.00	U	3.54	4.28	70.8	85.6	1	26.0-154			18.9	28
Styrene	5.00	U	3.64	4.49	72.8	89.8	1	33.0-155			20.9	28
1,1,1,2-Tetrachloroethane	5.00	U	4.10	4.86	82.0	97.2	1	36.0-151			17.0	29
1,1,2,2-Tetrachloroethane	5.00	U	4.22	5.18	84.4	104	1	33.0-150			20.4	28
Tetrachloroethene	5.00	2.08	5.08	6.69	60.0	92.2	1	10.0-160		J3	27.4	27
1,1,2-Trichlorotrifluoroethane	5.00	U	3.80	4.87	76.0	97.4	1	23.0-160			24.7	30
1,2,3-Trichlorobenzene	5.00	U	4.63	4.36	92.6	87.2	1	17.0-150			6.01	36
1,2,3-Trimethylbenzene	5.00	U	3.38	4.20	67.6	84.0	1	32.0-149			21.6	28
1,2,4-Trichlorobenzene	5.00	U	4.13	4.33	82.6	86.6	1	24.0-150			4.73	33
1,1,1-Trichloroethane	5.00	U	3.70	4.81	74.0	96.2	1	23.0-160			26.1	28
1,2,4-Trimethylbenzene	5.00	U	3.05	3.75	61.0	75.0	1	26.0-154			20.6	27
1,1,2-Trichloroethane	5.00	U	4.44	5.27	88.8	105	1	35.0-147			17.1	27
1,3,5-Trimethylbenzene	5.00	U	2.94	3.79	58.8	75.8	1	28.0-153			25.3	27
Trichloroethene	5.00	U	3.51	4.04	70.2	80.8	1	10.0-160			14.0	25
Trichlorofluoromethane	5.00	U	4.07	5.05	81.4	101	1	17.0-160			21.5	31
Xylenes, Total	15.0	U	10.9	13.7	72.7	91.3	1	29.0-154			22.8	28
Vinyl chloride	5.00	U	3.96	5.06	79.2	101	1	10.0-160			24.4	27
o-Xylene	5.00	U	3.77	4.67	75.4	93.4	1	45.0-144			21.3	26
m&p-Xylenes	10.0	U	7.13	9.02	71.3	90.2	1	43.0-146			23.4	26
(S) Toluene-d8					102	107		80.0-120				
(S) 4-Bromofluorobenzene					99.9	99.9		77.0-126				
(S) 1,2-Dichloroethane-d4					109	104		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3523593-1 04/30/20 10:18

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
AK102 DRO C10-C25	U		229	800
<i>(S) o-Terphenyl</i>	65.8		60.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3523593-2 04/30/20 10:38 • (LCSD) R3523593-3 04/30/20 10:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
AK102 DRO C10-C25	3000	2250	2250	75.0	75.0	75.0-125			0.000	20
<i>(S) o-Terphenyl</i>				88.5	88.0	60.0-120				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3524006-1 05/01/20 13:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
AK102 DRO C10-C25	U		229	800
(S) o-Terphenyl	53.5	<u>J2</u>		60.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3524006-6 05/01/20 22:28

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
AK102 DRO C10-C25	3000	2110	70.3	75.0-125	<u>J4</u>
(S) o-Terphenyl			75.3	60.0-120	

L1211750-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1211750-03 05/01/20 15:04 • (MS) R3524006-4 05/01/20 15:24 • (MSD) R3524006-5 05/01/20 15:44

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
AK102 DRO C10-C25	2890	U	2300	2280	79.6	79.7	1	75.0-125			0.873	20
(S) o-Terphenyl					78.4	78.2		50.0-150				

Sample Narrative:

OS: Duplicate analysis confirms sample results.



Method Blank (MB)

(MB) R3521937-3 04/24/20 07:55

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Anthracene	U		0.0190	0.0500
Acenaphthene	U		0.0190	0.0500
Acenaphthylene	U		0.0170	0.0500
Benzo(a)anthracene	U		0.0200	0.0500
Benzo(a)pyrene	U		0.0180	0.0500
Benzo(b)fluoranthene	U		0.0170	0.0500
Benzo(g,h,i)perylene	U		0.0180	0.0500
Benzo(k)fluoranthene	U		0.0200	0.250
Chrysene	U		0.0180	0.0500
Dibenz(a,h)anthracene	U		0.0180	0.0500
Fluoranthene	U		0.0110	0.0500
Fluorene	U		0.0170	0.0500
Indeno(1,2,3-cd)pyrene	U		0.0180	0.0500
Naphthalene	U		0.128	0.500
Phenanthrene	U		0.0180	0.0500
Pyrene	U		0.0170	0.0500
1-Methylnaphthalene	U		0.0200	0.500
2-Methylnaphthalene	U		0.0280	0.500
2-Chloronaphthalene	U		0.0120	0.500
(S) Nitrobenzene-d5	56.0			11.0-135
(S) 2-Fluorobiphenyl	45.1			32.0-120
(S) p-Terphenyl-d14	76.0			23.0-122

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3521937-1 04/24/20 07:09 • (LCSD) R3521937-2 04/24/20 07:32

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	2.00	1.59	1.46	79.5	73.0	43.0-127			8.52	20
Acenaphthene	2.00	1.27	1.05	63.5	52.5	42.0-120			19.0	20
Acenaphthylene	2.00	1.25	1.05	62.5	52.5	43.0-120			17.4	20
Benzo(a)anthracene	2.00	1.52	1.50	76.0	75.0	46.0-120			1.32	20
Benzo(a)pyrene	2.00	1.45	1.42	72.5	71.0	44.0-122			2.09	20
Benzo(b)fluoranthene	2.00	1.52	1.49	76.0	74.5	43.0-122			1.99	20
Benzo(g,h,i)perylene	2.00	1.56	1.51	78.0	75.5	25.0-137			3.26	23
Benzo(k)fluoranthene	2.00	1.42	1.38	71.0	69.0	39.0-128			2.86	22
Chrysene	2.00	1.56	1.56	78.0	78.0	42.0-129			0.000	20
Dibenz(a,h)anthracene	2.00	1.56	1.50	78.0	75.0	25.0-139			3.92	22
Fluoranthene	2.00	1.60	1.58	80.0	79.0	48.0-131			1.26	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3521937-1 04/24/20 07:09 • (LCSD) R3521937-2 04/24/20 07:32

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Fluorene	2.00	1.36	1.15	68.0	57.5	42.0-120			16.7	20
Indeno(1,2,3-cd)pyrene	2.00	1.60	1.54	80.0	77.0	37.0-133			3.82	20
Naphthalene	2.00	1.15	0.927	57.5	46.3	30.0-120			21.5	22
Phenanthrene	2.00	1.50	1.38	75.0	69.0	42.0-120			8.33	20
Pyrene	2.00	1.32	1.36	66.0	68.0	38.0-124			2.99	20
1-Methylnaphthalene	2.00	1.30	1.05	65.0	52.5	43.0-120		J3	21.3	20
2-Methylnaphthalene	2.00	1.23	1.03	61.5	51.5	40.0-120			17.7	20
2-Chloronaphthalene	2.00	1.16	0.920	58.0	46.0	39.0-120		J3	23.1	20
(S) Nitrobenzene-d5				69.5	56.5	11.0-135				
(S) 2-Fluorobiphenyl				56.5	45.8	32.0-120				
(S) p-Terphenyl-d14				82.5	81.5	23.0-122				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.



### Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

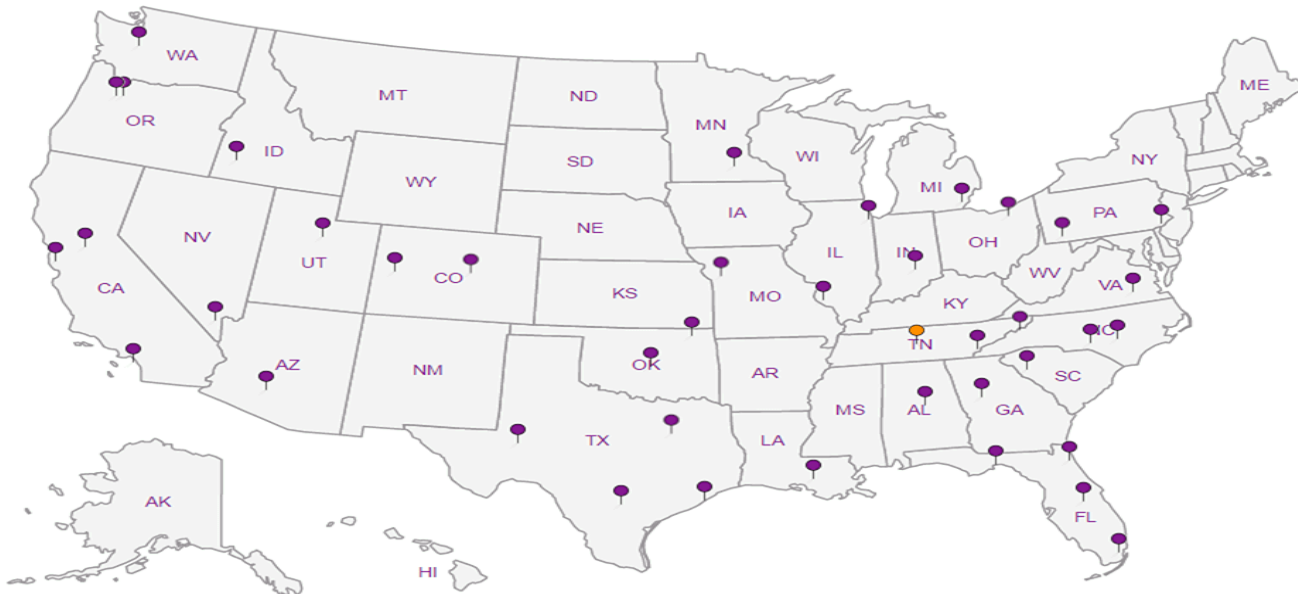
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**Arcadis - Chevron - AK**

880 H St.  
Anchorage, AK 99501

Report to:  
**Nicole Monroe**

Project Description: **97324**

Phone: **907-276-8095**

Fax:

Collected by (print):  
**E. Wijcik**

Collected by (signature):  
*E. Wijcik*

Immediately  
Packed on Ice N  Y

Billing Information:  
Attn: Accounts Payable  
630 Plaza Dr Ste 600  
Highlands Ranch, CO 80129

Email To:  
Nicole.Monroe@arcadis.com;environmentDM-

City/State Collected: **Anchorage, AK**

Please Circle:  
PT MT CT ET  
**AK ST**

Lab Project #  
**CHEVARCAK-97324**

Client Project #  
**30043268.5133**

Site/Facility ID #

**97324**

P.O. #

Quote #

Rush? (Lab MUST Be Notified)

Same Day  Five Day   
Next Day  5 Day (Rad Only)   
Two Day  10 Day (Rad Only)   
Three Day  **Standard**

Date Results Needed

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	AK101 40mlAmb HCl	AK102 100ml Amb HCl	EDB/123TCP V524LL 40mlAmb-HCl	PAHs 8270E-SIM 100ml Amb-NoPres	VOCs 8260D 40mlAmb-HCl								
EQB-1-W-200422	Grab	GW	—	4.22.20	0730	11	X	X	X	X	X								-01
MW-9-W-200422	Grab	GW	—	4.22.20	1000	11	X	X	X	X	X								-02
MW-8R-R-W-200422	Grab	GW	—	4.22.20	1100	33	X	X	X	X	X							MS/MSD	-03
MW-2R-W-200422	Grab	GW	—	4.22.20	1200	13	X	X	X	X	X								-04
BD-1-W-200422	Grab	GW	—	4.22.20	—	14	X	X	X	X	X								-05
Trip Blank	—	GW	—	4.22.20	—	3	X	X	X	X	X								-06
		GW																	
		GW																	
		GW																	

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:  
pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_  
Samples returned via:  UPS  FedEx  Courier  
Tracking # \_\_\_\_\_

Sample Receipt Checklist	
COC Seal Present/Intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable	
VOA Zero Headspace:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Relinquished by: (Signature) <i>E. Wijcik</i>	Date: <b>4.22.20</b>	Time: <b>1230</b> <b>0700</b>	Received by: (Signature) <i>[Signature]</i>	Trip Blank Received: <input checked="" type="checkbox"/> Yes / No <b>3</b> HCL / MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: <b>18.8</b> °C <b>79</b> Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: <b>4-23</b> Time: <b>0830</b> Hold: Condition: NCF <b>OK</b>

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



SDG # **L1211756**  
T **H150**  
Acctnum: **CHEVARCAK**  
Template: **T164366**  
Prelogin: **P761688**  
PM: **110 - Brian Ford**  
PB: **BF 3/18/20**  
Shipped Via: **FedEX 2nd Day**

Remarks | Sample # (lab only)

# APPENDIX D



**Laboratory Data Review Checklist**

Completed By:

Bhagyashree A Fulzele

Title:

Project Chemist

Date:

May 06,2020

Consultant Firm:

ARCADIS U.S., Inc

Laboratory Name:

Pace Analytical

Laboratory Report Number:

L1211750

Laboratory Report Date:

05/05/2020

CS Site Name:

First Semi Annual 2020 Groundwater Monitoring Report

ADEC File Number:

2100.26.008

Hazard Identification Number:

23885

**Note: Any N/A or No box checked must have an explanation in the comments box.**

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes  No  N/A  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  N/A  Comments:

No.

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes  No  N/A  Comments:

Yes.

b. Correct analyses requested?

Yes  No  N/A  Comments:

Yes.

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes  No  N/A  Comments:

Yes.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes  No  N/A  Comments:

Yes.

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes  No  N/A  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  N/A  Comments:

No.

e. Data quality or usability affected?

Comments:

Data quality/usability was not affected.

4. Case Narrative

a. Present and understandable?

Yes  No  N/A  Comments:

Yes.

b. Discrepancies, errors, or QC failures identified by the lab?

Yes  No  N/A  Comments:

Yes.

c. Were all corrective actions documented?

Yes  No  N/A  Comments:

Yes.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Data quality/usability was not affected.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes  No  N/A  Comments:

Yes.

b. All applicable holding times met?

Yes  No  N/A  Comments:

Yes.

c. All soils reported on a dry weight basis?

Yes  No  N/A  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  N/A  Comments:

Yes.

e. Data quality or usability affected?

Data quality/usability was not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes  No  N/A  Comments:

Yes.

ii. All method blank results less than limit of quantitation (LOQ) or project specified objectives?

Yes  No  N/A  Comments:

Yes.

iii. If above LOQ or project specified objectives, what samples are affected?

Comments:

None of the samples were affected.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes  No  N/A  Comments:

No.

v. Data quality or usability affected?

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  N/A  Comments:

Yes.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes  No  N/A  Comments:

Metals/Inorganic analysis was not requested for project samples.



- iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes  No  N/A  Comments:

Method SW846 8260D: LCSD recovery for compound cis-1,3-dichloropropene was less than the control limit in preparation batch WG1466521. The compound cis-1,3-dichloropropene result in associated samples were non-detect and qualified as estimated (UJ).

Method AK102: LCS recovery for compound AK102 DRO C10-C25 was less than the control limit in preparation batch WG1469015. The compound result in associated sample was non-detect and qualified as estimated (UJ).

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes  No  N/A  Comments:

Method SW846 8260D: LCS/LCSD RPD for compounds 1,2,3-trichloropropane, 1,2-dibromoethane were greater than the control limit in batch WG1465844 and hexachloro-1,3-butadiene was greater than the control limit in preparation batch WG1466521. These compound results in associated samples were qualified as estimated (J/UJ).

Method SW846 8270E-SIM: LCS/LCSD RPD for compounds 1-methylnaphthalene and 2-chloronaphthalene were greater than the control limit in preparation batch WG1465507. These compound results in associated sample were qualified as estimated (J/UJ).

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Accuracy:

Method SW846 8260D: Compound cis-1,3-dichloropropene result in samples MW-9-W-200422, MW-8RR-W-200422, MW-2R-W-200422 and BD-1-W-200422 were qualified as estimated (UJ).

Method AK102: Compound AK102 DRO C10-C25 result in sample MW-8RR-W-200422 was qualified as estimated (UJ).

Precision:

Method SW846 8260D: Compounds 1,2,3-trichloropropane, 1,2-dibromoethane and hexachloro-1,3-butadiene result in samples MW-9-W-200422, MW-8RR-W-200422, MW-2R-W-200422 and BD-1-W-200422 were qualified as estimated (J/UJ).

Method SW846 8270E-SIM: Compounds 1-methylnaphthalene and 2-chloronaphthalene result in sample MW-2R-W-200422 were qualified as estimated (J/UJ).

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes  No  N/A  Comments:

Yes.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The LCS/LCSD recoveries and RPD exceedances are considered minor and would result in the estimation of the associated data. The reported data should still consider as usable.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

**Note: Leave blank if not required for project**

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes  No  N/A  Comments:

The MS/MSD analysis was performed on sample MW-8RR-W-200422.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes  No  N/A  Comments:

Metals/Inorganic analysis was not requested for project samples.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes  No  N/A  Comments:

Yes.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes  No  N/A  Comments:

Method SW846 8260D: The RPD between the MS/MSD recovery was greater than the control limit for compound bromobenzene and tetrachloroethene in sample MW-8RR-W-200422. The compound result was non-detect and qualified as estimated (UJ).

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

MW-8RR-W-200422

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes  No  N/A  Comments:

Yes.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The MS/MSD RPD exceedances are considered minor and would result in the estimation of associated data. The reported data should still consider as usable.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes  No  N/A  Comments:

Yes.

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes  No  N/A  Comments:

Method AK102: Surrogate o-terphenyl was less than the control limit in sample MW-8RR-W-200422. The associated result was qualified as estimated (UJ).

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes  No  N/A  Comments:

Yes.

iv. Data quality or usability affected?

Comments:

Surrogate recovery exceedances are considered as minor and would result in the estimation of associated data. The reported data should still consider as usable.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes  No  N/A  Comments:

Trip blank sample was collected as TRIP BLANK-200422.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes  No  N/A  Comments:

Yes.

iii. All results less than LOQ and project specified objectives?

Yes  No  N/A  Comments:

Yes.

iv. If above LOQ or project specified objectives, what samples are affected?

Comments:

None of the samples were affected.

v. Data quality or usability affected?

Comments:

Data quality/usability was not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes  No  N/A  Comments:

Yes.

ii. Submitted blind to lab?

Yes  No  N/A  Comments:

Field duplicate BD-1-W-200422 was collected from sample MW-9-W-200422.

iii. Precision – All relative percent differences (RPD) less than specified project objectives?  
(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  N/A  Comments:

The RPDs between the parent and duplicate samples were acceptable.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

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  N/A  Comments:

Equipment blank sample was collected as EQB-1-W-200422.

i. All results less than LOQ and project specified objectives?

Yes  No  N/A  Comments:

No.

ii. If above LOQ or project specified objectives, what samples are affected?

Comments:

None of the samples were affected.

iii. Data quality or usability affected?

Comments:

Data quality/usability was not affected.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes  No  N/A       Comments:

Yes.
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