





# Second Semiannual 2017 Groundwater Monitoring Report

Former Chevron-Branded Service Station 96097  
303 West Fireweed Lane  
Anchorage, Alaska  
ADEC File ID: 2100.26.007  
Hazard ID: 24073

Chevron Environmental Management Company

**GHD** | 14998 West 6th Avenue, Suite 800, Golden, Colorado USA 80401  
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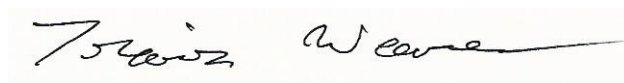
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Jeffrey Cloud  
Chemist



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Travis Weaver  
Project Engineer



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Siobhan Pritchard, P.G.  
Senior Project Geologist



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## Acronyms and Abbreviations

AAC	Alaska Administrative Code
ADEC	Alaska Department of Environmental Conservation
BTEX	benzene, toluene, ethylbenzene, and xylenes
COPCs	contaminants of potential concern
CSM	conceptual site model
DRO	diesel range organics
ft btoc	feet below top of casing
GRO	gasoline range organics
GAC	granular activated carbon
No	number
PAH	polynuclear aromatic hydrocarbons
P.G.	Professional GeologistUSTs      underground storage tanks
VOCs	volatile organic compounds



# 1. Introduction

GHD is submitting this *Second Semiannual 2017 Groundwater Monitoring Report* to the Alaska Department of Environmental Conservation (ADEC) on behalf of Chevron Environmental Management Company (Chevron) for former Chevron-branded service station 96097. GHD conducted groundwater monitoring and sampling in accordance with the ADEC's August 2017 *Field Sampling Guidance for Contaminated Sites and Underground Storage Tank Sites*. Reporting was performed by GHD in accordance with ADEC's March 7, 2017 *Site Characterization Work Plan and Reporting Guidance for Investigation of Contaminated Sites*.

Project objectives are to monitor current groundwater conditions to evaluate petroleum hydrocarbon attenuation.

## 1.1 Site Description and Background

The site is located at 303 West Fireweed Lane, Anchorage, Alaska (Figure 1). The property's legal description is LEO WILDER LT 1A-1. The site latitude and longitude are approximately 61.198631° north and 149°887336° west. The site is a former Chevron service station, which included six fuel underground storage tanks (USTs). In 1990, one waste oil UST was removed from the southwest corner of the station building and according to ADEC records identified hydrocarbon impacts to soil. In 1992, three gasoline USTs, one waste oil UST, and one heating oil UST were removed and three double-walled fiberglass gasoline USTs, nine dispensers, and product lines were installed. The site ceased operations as a service station in 2000 and all site facilities, including all USTs, product lines, dispensers, and station building were removed. The site is currently a Sockeye Inn hotel with parking.

The surrounding area is a mixed commercial and light industrial land use. The site is bordered by a Buddhist temple to the north, West Fireweed Lane to the south, C Street to the east, and Reilly's Bar to the west. There are no current plans to redevelop the site.

Seven onsite groundwater monitoring wells and six offsite groundwater monitoring wells are monitored semiannually. Five onsite and five offsite wells are sampled semiannually (Figure 2). Site photographs are included in Appendix A.

## 1.2 Hydrogeology

The site is located in south central Alaska, between the northern Knik Arm and southern Turnagain Arm of Cook Inlet. Historic static groundwater depths have ranged between 42.45 and 60.52 feet below top of casing (ft btoc) from 1992 to present. Static groundwater depths ranged from 42.45 (MW-13) to 58.23 ft btoc (MW-12) on October 2, 2017. Groundwater flow was to the northwest with a gradient of 0.18, which is consistent with historical data (Figure 2).

## 1.3 Conceptual Site Model

GHD updated the conceptual site model (CSM) for this site. The human health CSM scoping and graphics forms are presented in Appendix B.



## 1.4 Contaminants of Potential Concern - Cleanup Levels

Site contaminants of potential concern (COPCs) are:

Table 1.1 Contaminants of Potential Concern

COPCs	ADEC Cleanup Levels	
	Groundwater (mg/L)	Soil (mg/kg)
DRO	1.5	250
GRO	2.2	300
benzene	0.0046	0.022
PAH*		
mg/L	milligrams per liter	
mg/kg	milligrams per kilogram	
DRO	diesel range organics	
GRO	gasoline range organics	
PAH	polynuclear aromatic hydrocarbons	
*	various constituents, see Tables 3 and 4 or referenced ADEC regulations for specific cleanup levels	

ADEC Table C Groundwater Cleanup Levels (Title 18 Alaska Administrative Code (AAC) 75.345) and ADEC Method Two Soil Cleanup Levels, Tables B1 and B2, under 40-inch zone, migration to groundwater (Title 18 AAC 75.341) are the default site cleanup levels for groundwater and soil.

## 2. Groundwater Monitoring and Sampling

GHD gauged wells MW-4R, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10R, and MW-12 through MW-17 on October 2, 2017. GHD sampled all wells with the exception of wells MW-4R, MW-15, and MW-17, which are monitor only, on October 2-3, 2017. Field monitoring data is presented in Appendix C.

### 2.1 Low-Flow Sampling

Prior to gauging each well cap was removed to allow groundwater levels to stabilize and equilibrate. Depth to groundwater and total well depth were measured using a water level meter capable of 0.01 foot accuracy. A QED Sample Pro bladder pump with a self-contained compressor and control unit was used to purge groundwater from the well. The pump intake was set as close to the soil/groundwater interface as possible and caution was exercised to ensure that the water table was within the screened interval of the well. Clean disposable Teflon-lined tubing and bladders were used to minimize the risk of volatile contaminant absorption by the sampling equipment. GHD continuously monitored water levels while purging and adjusted the pumping rate as needed to limit drawdown to 0.3 feet. Water quality parameters (listed below) were measured continuously and



recorded every five minutes. Groundwater samples were collected only after a minimum of three successive readings fell within the following ADEC limits:

- pH:  $\pm 0.1$
- conductivity:  $\pm 3\%$
- oxidation/reduction potential:  $\pm 10$  millivolts
- dissolved oxygen:  $\pm 10\%$
- turbidity:  $\pm 10\%$

## 2.2 Data Quality

All appropriate field instruments were calibrated prior to mobilization according to the manufacturer's specifications and calibration was checked and documented onsite on a daily basis. Equipment calibration forms are available in Appendix C. All field staff are trained in routine operation and maintenance of instruments. All reusable sampling equipment was decontaminated between wells with a stiff brush and laboratory-grade detergent and rinsed twice with clean water and once with distilled water between wells.

Samples analyzed for volatile organic compounds (VOCs) were collected before samples for non-volatile compounds. Groundwater samples, including one duplicate per ten samples collected, were collected directly into clean containers supplied by the laboratory, placed on ice in an insulated cooler, chilled to approximately 4°C (+/- 2°C). Coolers were sealed and shipped to Eurofins analytical laboratory under chain-of-custody. Laboratory data was qualified by a GHD chemist and an ADEC lab checklist was completed.

## 2.3 Purged Groundwater Disposal

Approximately 8.75 gallons of groundwater not used for sampling was filtered through granular activated carbon (GAC) and purged to the ground surface in the center of the site to ensure no offsite runoff.

# 3. Results and Findings

## 3.1 Groundwater Analytical Methods

Collected groundwater samples were analyzed for one or more of the following:

- Diesel range organics (DRO) by Alaska Series Method AK102
- Gasoline range organics (GRO) by Alaska Series Method AK101
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by method SW-846 8260
- Polynuclear aromatic hydrocarbons (PAH) by method SW-846 8270C SIM





### 3.2 Groundwater Sampling Results

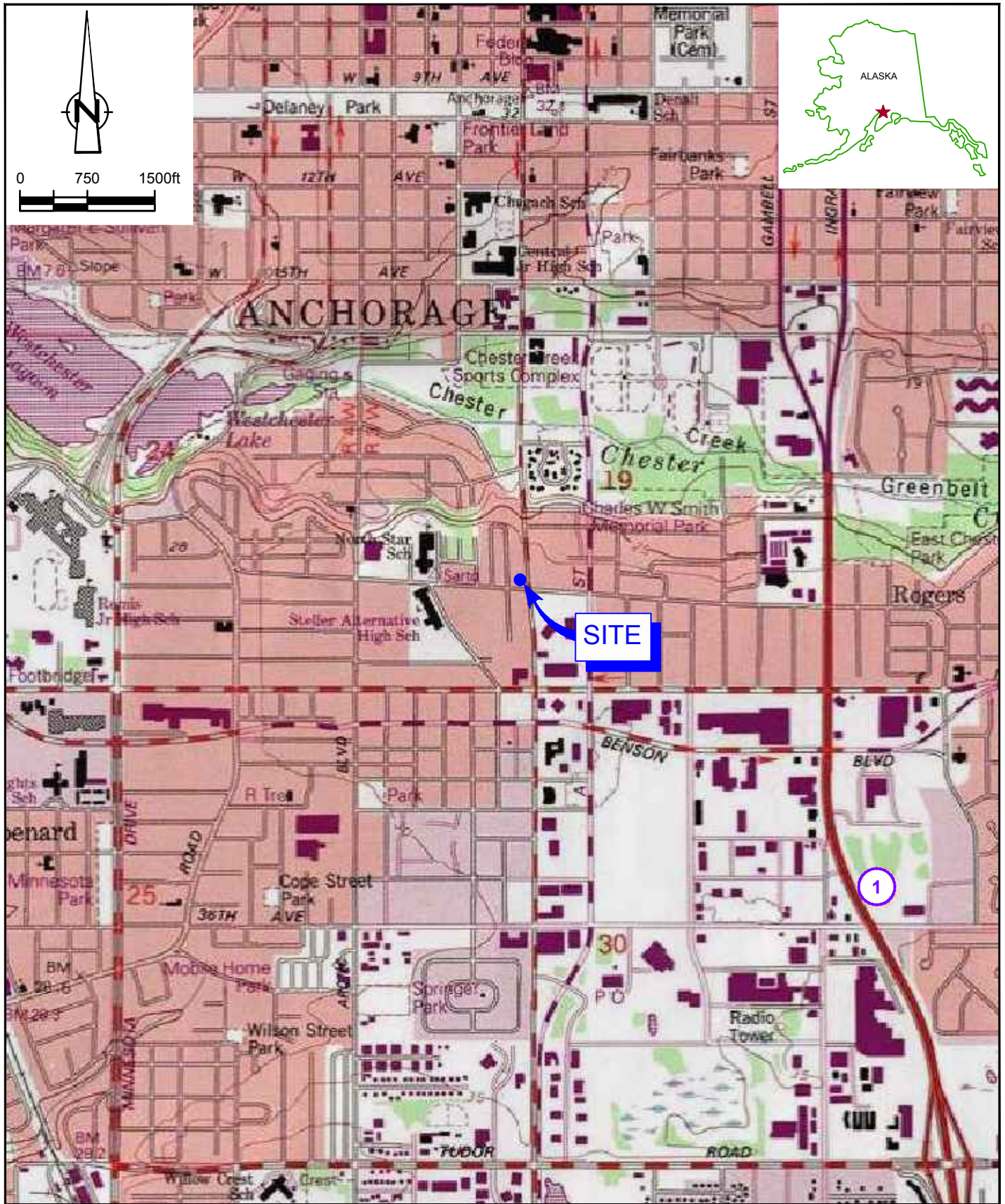
No DRO, GRO, or benzene was detected above ADEC Table C cleanup levels in wells MW-5, MW-6, MW-8, MW-9, MW-12, MW-13, MW-14, or MW-16. MW-7 contained the highest concentrations DRO (2.8 milligrams per liter (mg/L)), GRO (12 mg/L), benzene (0.009) and naphthalene (0.17 mg/L). Current groundwater analytical data is presented in Table 1 and Table 3. Historical groundwater analytical data is presented in Tables 2 and 4. Petroleum hydrocarbon concentrations are presented on Figure 2. The laboratory analytical report is presented in Appendix D. Historical groundwater analytical data and petroleum hydrocarbon concentration graphs are presented in Appendix E.

Based on the quality assurance/quality control review, the data submitted were judged to be acceptable for use with the qualifications noted. The ADEC Laboratory Review Checklist and memorandum are presented in Appendix F.

## 4. Conclusions

Petroleum hydrocarbons are stable and continue to be detected above ADEC Table C cleanup levels in wells downgradient of the former USTs. GHD will continue semiannual groundwater monitoring and sampling in 2018.

# Figures



SOURCE: TOPO MAPS

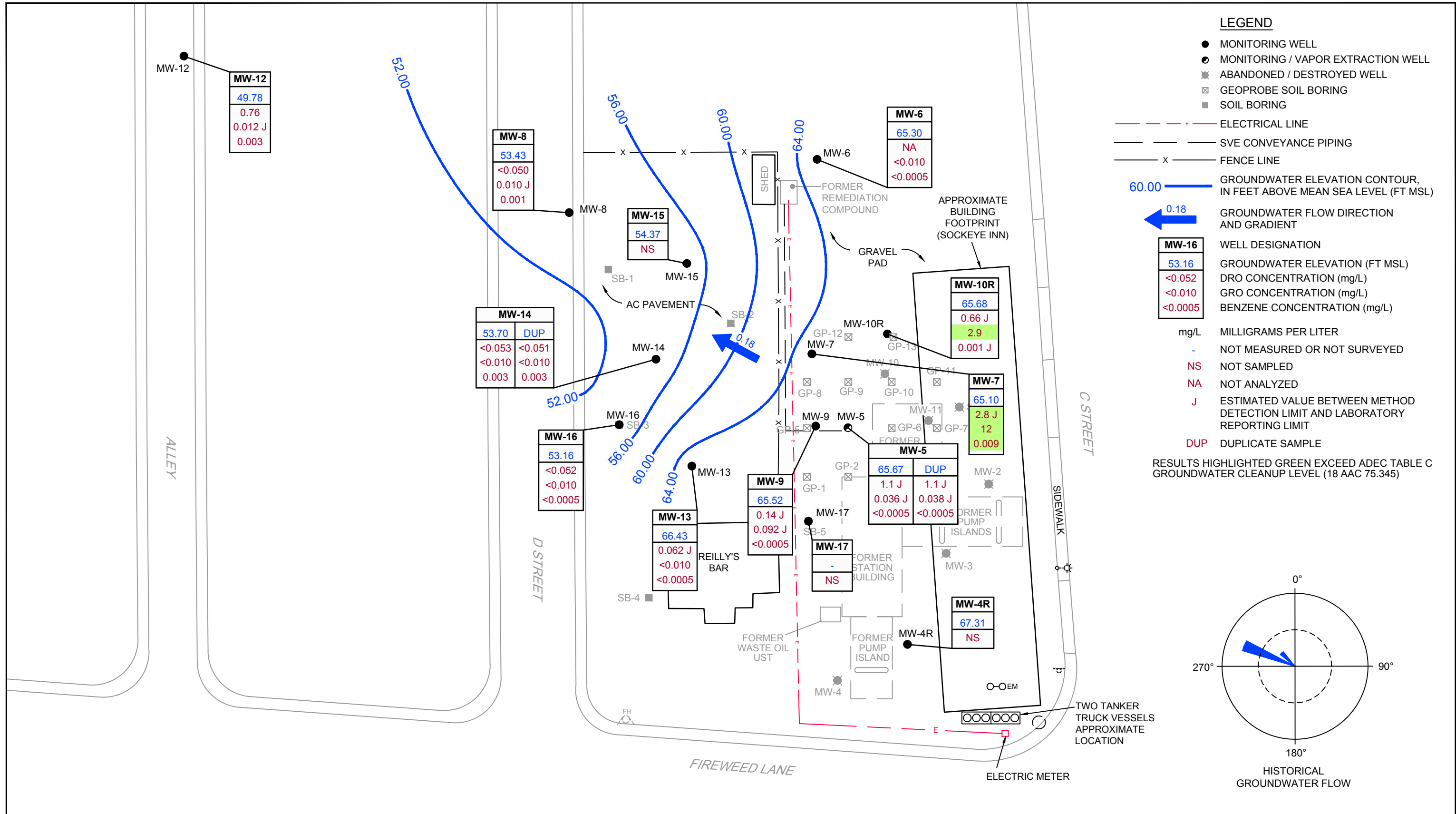


FORMER CHEVRON-BRANDED SERVICE STATION 96097  
 303 WEST FIREWEED LANE  
 ANCHORAGE, ALASKA

62328-95  
 Dec 4, 2017

VICINITY MAP

FIGURE 1



SOURCE: SITE PLAN PROVIDED BY SECOR, MODIFIED WITH AUGUST 29, 2008 SURVEY PROVIDED BY McCLANE CONSULTING



FORMER CHEVRON-BRANDED SERVICE STATION 96097  
 303 WEST FIREWEED LANE  
 ANCHORAGE, ALASKA  
 GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON  
 CONCENTRATION MAP - OCTOBER 2-3, 2017

62328-95  
 Dec 7, 2017

FIGURE 2

# Tables

**Table 1**  
**Current Groundwater Analytical Results**  
**Former Chevron-Branded Service Station 96097**  
**303 W. Fireweed Ln.**  
**Anchorage, AK**

Location ID	Date	TOC ft msl	DTW ft btoc	GWE ft msl	HYDROCARBONS		PRIMARY VOCS			
					DRO mg/l	GRO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylene (total) mg/l
<b>ADEC Groundwater Cleanup Levels 2016<sup>a</sup></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>
MW-4R	10/02/2017 <sup>3</sup>	110.24	42.93	67.31	-	-	-	-	-	-
MW-5	10/02/2017	109.77	44.10	65.67	1.1 J / 1.1 J	0.036 J / 0.038 J	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005
MW-6	10/02/2017	110.23	44.93	65.30	-	<0.010	<0.0005	<0.0005	<0.0005	<0.0005
MW-7	10/02/2017	108.86	43.76	65.10	<b>2.8 J</b>	<b>12</b>	<b>0.009</b>	0.033	<b>1.2</b>	<b>1.2</b>
MW-8	10/03/2017	108.01	54.58	53.43	<0.050	0.010 J	0.001	<0.0005	<0.0005	<0.0005
MW-9	10/02/2017	109.64	44.12	65.52	0.14 J	0.092 J	<0.0005	<0.0005	<0.0005	<0.0005
MW-10R	10/02/2017	109.64	43.96	65.68	0.66 J	<b>2.9</b>	0.001 J	0.001	<b>0.10</b>	0.093
MW-12	10/03/2017	108.01	58.23	49.78	0.76	0.012 J	0.003	<0.0005	<0.0005	<0.0005
MW-13	10/03/2017	108.88	42.45	66.43	0.062 J	<0.010	<0.0005	<0.0005	<0.0005	<0.0005
MW-14	10/03/2017	109.00	55.30	53.70	<0.053 / <0.051	<0.010 / <0.010	0.003 / 0.003	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005
MW-15	10/02/2017 <sup>3</sup>	108.69	54.32	54.37	-	-	-	-	-	-
MW-16	10/03/2017	108.85	55.69	53.16	<0.052	<0.010	<0.0005	<0.0005	<0.0005	<0.0005
MW-17	10/02/2017 <sup>3</sup>	-	43.95	-	-	-	-	-	-	-
QA	10/3/2017	-	-	-	-	<0.010	<0.0005	<0.0005	<0.0005	<0.0005

Table 1

**Current Groundwater Analytical Results  
Former Chevron-Branded Service Station 96097  
303 W. Fireweed Ln.  
Anchorage, AK**

**Notes and Abbreviations**

ID = Identification

TOC = top of casing

DTW = depth to water

GWE = groundwater elevation

DRO = Diesel Range Organics by Alaska Series Method AK102

GRO = Gasoline Range Organics by Alaska Series Method AK101

Benzene, Toluene, Ethylbenzene, and Total Xylenes by SW-846 8021B or 8260B

Total Xylenes = Sum of m-, o-, and p-xylenes

MTBE = Methyl Tertiary-Butyl Ether

ADEC = Alaska Department of Environmental Conservation

<sup>a</sup> = Levels established in ADEC Table C Groundwater Cleanup Levels (18 AAC 75.345)**BOLD** = Indicates concentration above the ADEC Table C Groundwater Cleanup Level

NA = Not Applicable

ft msl = feet above mean sea level

ft btoc = Feet Below Top of Casing

mg/L = Milligrams per Liter

ND = Not detected above laboratory method detection limits

U = Non-detect

J = Estimated value

- = Not Measured/Not Analyzed

&lt;x = Constituent not detected above x milligrams per liter

x / y = Sample Results / Blind Duplicate Results

<sup>1</sup> = BTEX by SW-846 8021B<sup>2</sup> = DRO with Silica Gel Cleanup<sup>3</sup> = Gauge Only<sup>4</sup> = Inaccessible<sup>5</sup> = Obstruction

**Table 2**  
**Historical Groundwater Analytical Results**  
**Former Chevron-Branded Service Station 96097**  
**303 W. Fireweed Ln.**  
**Anchorage, AK**

Location	Date	TOC ft msl	DTW ft btoc	GWE ft msl	HYDROCARBONS		PRIMARY VOCS				
					DRO mg/l	GRO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylene (total) mg/l	MTBE mg/l
<b>ADEC Groundwater Cleanup Levels 2016<sup>a</sup></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>
MW-1	09/01/1992	97.90	45.54	52.36	-	-	-	-	-	-	-
MW-1	05/01/1993	97.90	45.65	52.25	-	-	-	-	-	-	-
MW-1	08/01/1993	97.90	45.97	51.93	-	-	-	-	-	-	-
MW-1	11/01/1993	97.90	45.56	52.34	-	-	-	-	-	-	-
MW-1	03/01/1994	97.90	45.95	51.95	-	-	-	-	-	-	-
MW-1	06/01/1994	97.90	46.03	51.87	-	-	-	-	-	-	-
MW-1	08/01/1994	97.90	46.40	51.50	-	-	-	-	-	-	-
MW-1	12/22/1994	97.90	46.22	51.68	-	-	-	-	-	-	-
MW-1	03/21/1995	97.90	46.45	51.45	-	-	-	-	-	-	-
MW-1	06/15/1995	97.90	45.96	51.94	-	-	-	-	-	-	-
MW-1	08/24/1995	97.90	46.11	51.79	-	-	-	-	-	-	-
MW-1	11/14/1995	97.90	45.98	51.92	-	-	-	-	-	-	-
MW-1	01/29/1996	97.90	46.23	51.67	-	-	-	-	-	-	-
MW-1	05/29/1996	97.90	46.84	51.06	-	-	-	-	-	-	-
MW-1	08/20/1996	97.90	47.09	50.81	-	-	-	-	-	-	-
MW-1	10/15/1996	97.90	47.00	50.90	-	-	-	-	-	-	-
MW-1	04/27/1997	97.90	46.90	51.00	-	-	-	-	-	-	-
MW-1	09/07/1997	97.90	45.74	52.16	-	-	-	-	-	-	-
MW-1	04/21/1998	97.90	45.45	52.45	-	-	-	-	-	-	-
MW-1	09/17/1998	97.90	45.99	51.91	-	-	-	-	-	-	-
MW-1	04/26/1999	97.90	45.34	52.56	-	-	-	-	-	-	-
MW-1	10/11/1999	97.90	46.45	51.45	-	-	-	-	-	-	-
MW-1	05/18/2000	97.90	46.00	51.90	-	-	-	-	-	-	-
MW-1	09/25/2000	97.90	--	--	-	-	-	-	-	-	-
MW-1	05/08/2001	97.90	--	--	-	-	-	-	-	-	-
MW-1	10/03/2001	97.90	--	--	-	-	-	-	-	-	-
MW-1	05/03/2002	97.90	--	--	-	-	-	-	-	-	-
MW-1	09/28/2002	97.90	--	--	-	-	-	-	-	-	-
MW-1	05/22/2003	104.80	--	--	-	-	-	-	-	-	-
MW-1	10/13/2003	104.80	--	--	-	-	-	-	-	-	-
MW-1	06/10/2004	104.80	--	--	-	-	-	-	-	-	-
MW-1	09/22/2004	104.80	--	--	-	-	-	-	-	-	-
MW-1	05/18/2005	104.80	--	--	-	-	-	-	-	-	-
MW-1	09/28/2005	104.80	--	--	-	-	-	-	-	-	-
MW-1	05/17/2006	104.80	--	--	-	-	-	-	-	-	-
MW-1	09/23/2006	--	--	--	-	-	-	-	-	-	-
MW-1	05/16/2007	--	--	--	-	-	-	-	-	-	-
MW-2	09/01/1992	104.27	--	--	-	-	-	-	-	-	-
MW-2	09/23/2006	--	--	--	-	-	-	-	-	-	-
MW-2	05/16/2007	--	--	--	-	-	-	-	-	-	-
MW-4	09/01/1992	99.00	45.32	53.68	-	-	-	-	-	-	-
MW-4	05/01/1993	99.00	45.40	53.60	-	-	-	-	-	-	-
MW-4	08/01/1993	99.00	45.68	53.32	-	-	-	-	-	-	-
MW-4	11/01/1993	99.00	45.27	53.73	-	-	-	-	-	-	-
MW-4	12/22/1994	99.00	45.61	53.39	-	-	-	-	-	-	-
MW-4	03/21/1995	99.00	45.85	53.15	-	-	-	-	-	-	-
MW-4	06/15/1995	99.00	45.60	53.40	-	-	-	-	-	-	-



**Table 2**  
**Historical Groundwater Analytical Results**  
**Former Chevron-Branded Service Station 96097**  
**303 W. Fireweed Ln.**  
**Anchorage, AK**

Location	Date	TOC ft msl	DTW ft btoc	GWE ft msl	HYDROCARBONS		PRIMARY VOCS				
					DRO mg/l	GRO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylene (total) mg/l	MTBE mg/l
<b>ADEC Groundwater Cleanup Levels 2016<sup>a</sup></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>
MW-4	08/24/1995	99.00	45.53	53.47	-	-	-	-	-	-	-
MW-4	11/14/1995	99.00	45.33	53.67	-	-	-	-	-	-	-
MW-4	01/29/1996	99.00	45.61	53.39	-	-	-	-	-	-	-
MW-4	05/29/1996	99.00	46.24	52.76	-	-	-	-	-	-	-
MW-4	08/20/1996	99.00	46.49	52.51	-	-	-	-	-	-	-
MW-4	10/15/1996	99.00	46.41	52.59	-	-	-	-	-	-	-
MW-4	04/27/1997	99.00	46.14	52.86	-	-	-	-	-	-	-
MW-4	09/07/1997	99.00	44.97	54.03	-	-	-	-	-	-	-
MW-4	04/21/1998	99.00	44.66	54.34	-	-	-	-	-	-	-
MW-4	09/17/1998	99.00	47.02	51.98	-	-	-	-	-	-	-
MW-4	04/26/1999	99.00	45.54	53.46	-	-	-	-	-	-	-
MW-4	10/11/1999	99.00	45.62	53.38	-	-	-	-	-	-	-
MW-4	05/18/2000	99.00	45.20	53.80	-	-	-	-	-	-	-
MW-4	09/25/2000	99.00	44.70	54.30	-	-	-	-	-	-	-
MW-4	05/08/2001	99.00	45.76	53.24	-	-	-	-	-	-	-
MW-4	10/03/2001	99.00	45.71	53.29	-	-	-	-	-	-	-
MW-4	05/03/2002	99.00	45.80	53.20	-	-	-	-	-	-	-
MW-4	09/28/2002	99.00	45.73	53.27	-	-	-	-	-	-	-
MW-4	05/22/2003	104.28	45.26	59.02	-	-	-	-	-	-	-
MW-4	10/13/2003	104.28	45.55	58.73	-	-	-	-	-	-	-
MW-4	06/10/2004	104.28	45.42	58.86	-	-	-	-	-	-	-
MW-4	09/22/2004	104.28	45.42	58.86	-	-	-	-	-	-	-
MW-4	05/18/2005	104.28	--	--	-	-	-	-	-	-	-
MW-4	09/28/2005	104.28	45.34	58.94	-	-	-	-	-	-	-
MW-4	05/17/2006	104.28	45.68	58.60	-	-	-	-	-	-	-
MW-4	09/23/2006	--	45.11	--	-	-	-	-	-	-	-
MW-4	05/16/2007	103.92	44.24	59.68	-	-	-	-	-	-	-
MW-4	09/27/2007	103.92	--	--	-	-	-	-	-	-	-
MW-4	05/17/2008	103.93	--	--	-	-	-	-	-	-	-
MW-4	09/14/2008	103.93	--	--	-	-	-	-	-	-	-
MW-4R	09/28/2011	--	45.18	--	<0.50 / <0.048 <sup>2</sup>	<0.0100	<0.00050	<0.00050	-	-	-
MW-4R	05/21/2012	--	44.67	--	0.072 / 0.053 <sup>2</sup>	<0.0100	<0.00050	<0.00050	<0.00050	<0.00150	-
MW-4R	09/18/2012	--	44.52	--	<0.25 / <0.25 <sup>2</sup>	<0.0100	<0.00050	<0.00050	<0.00050	<0.00150	-
MW-4R	05/06/2013	110.24	44.27	65.97	-	-	-	-	<0.00050	<0.00150	-
MW-4R	05/07/2013	110.24	--	--	<0.5100 / <0.4800	<0.1000 / <0.1000	<0.00100 / <0.00100	<0.00100 / <0.00100	-	-	-
MW-4R	09/16/2013	110.24	44.07	66.17	<0.4100	<0.1000	<0.00100	<0.00100	<0.00100 / <0.00100	<0.00300 / <0.00300	-
MW-4R	05/02/2014	110.24	43.54	66.70	-	-	-	-	<0.00100	<0.00300	-
MW-4R	05/05/2014	110.24	--	--	<0.40 / <0.42	<0.1000 / <0.1000	<0.00100 / <0.00100	<0.00100 / <0.00100	-	-	-
MW-4R	09/02/2014	110.24	43.81	66.43	-	-	-	-	<0.00100 / <0.00100	<0.00300 / <0.00300	-
MW-4R	09/03/2014	110.24	--	--	<0.40	<0.1000	<0.00100	<0.00100	-	-	-
MW-4R	04/15/2015	110.24	44.23	66.01	-	-	-	-	<0.00100	<0.00300	-
MW-4R	04/16/2015	110.24	--	--	<0.053	<0.0100	<0.00050	<0.00050	-	-	-
MW-4R	10/29/2015	110.24	44.27	65.97	<0.052	<0.0100	<0.00050	<0.00050	<0.00050	<0.00050	-
MW-4R	04/19/2016	110.24	44.76	65.48	0.64	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	-
MW-4R	09/23/2016	110.24	44.79	65.45	<0.18 J	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	-
MW-4R	05/08/2017	110.24	44.11	66.13	0.31	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	-
MW-4R	10/02/2017	110.24	42.93	67.31	-	-	-	-	-	-	-

**Table 2**  
**Historical Groundwater Analytical Results**  
**Former Chevron-Branded Service Station 96097**  
**303 W. Fireweed Ln.**  
**Anchorage, AK**

Location	Date	TOC ft msl	DTW ft btoc	GWE ft msl	HYDROCARBONS		PRIMARY VOCS				
					DRO mg/l	GRO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylene (total) mg/l	MTBE mg/l
<b>ADEC Groundwater Cleanup Levels 2016<sup>a</sup></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>
MW-5	09/01/1992	98.89	46.89	52.00	-	-	-	-	<0.00050	<0.00050	-
MW-5	05/01/1993	98.89	--	--	-	-	-	-	-	-	-
MW-5	12/22/1994	98.89	47.69	51.22	-	-	-	-	-	-	-
MW-5	03/21/1995	98.89	47.87	51.02	-	-	-	-	-	-	-
MW-5	06/15/1995	98.89	47.73	51.49	-	-	-	-	-	-	-
MW-5	08/24/1995	98.89	47.71	51.36	-	-	-	-	-	-	-
MW-5	11/14/1995	98.89	47.50	51.43	-	-	-	-	-	-	-
MW-5	01/29/1996	98.89	47.75	51.14	-	-	-	-	-	-	-
MW-5	05/29/1996	98.89	48.44	50.45	-	-	-	-	-	-	-
MW-5	08/20/1996	98.89	48.61	50.30	-	-	-	-	-	-	-
MW-5	10/15/1996	98.89	48.55	50.36	-	-	-	-	-	-	-
MW-5	04/27/1997	98.89	48.35	50.56	-	-	-	-	-	-	-
MW-5	09/07/1997	98.89	47.55	51.83	-	-	-	-	-	-	-
MW-5	04/21/1998	98.89	47.58	52.00	-	-	-	-	-	-	-
MW-5	09/17/1998	98.89	48.35	50.88	-	-	-	-	-	-	-
MW-5	04/26/1999	98.89	48.13	50.86	-	-	-	-	-	-	-
MW-5	10/11/1999	98.89	47.90	51.01	-	-	-	-	-	-	-
MW-5	05/18/2000	98.89	47.78	51.35	-	-	-	-	-	-	-
MW-5	09/25/2000	98.89	47.33	51.62	-	-	-	-	-	-	-
MW-5	05/08/2001	98.89	47.96	51.14	-	-	-	-	-	-	-
MW-5	10/03/2001	98.89	48.12	50.8	-	-	-	-	-	-	-
MW-5	05/03/2002	98.89	47.81	51.08	-	-	-	-	-	-	-
MW-5	09/28/2002	98.89	48.09	50.8	-	-	-	-	-	-	-
MW-5	05/22/2003	104.60	47.38	57.22	-	-	-	-	-	-	-
MW-5	10/13/2003	104.60	48.08	56.52	-	-	-	-	-	-	-
MW-5	06/11/2004	98.89	47.54	51.35	-	<b>22</b>	<b>0.022</b>	0.032	<b>0.099</b>	<b>2.5</b>	<0.0030
MW-5	09/22/2004	98.89	47.73	51.16	-	<b>6.9</b>	<b>0.002</b>	0.017	<b>0.009</b>	<b>0.31</b>	<0.0020
MW-5	05/18/2005	98.89	46.31	52.58	-	<b>4.9</b>	<b>0.017</b>	0.003	<b>0.022</b>	<b>0.4</b>	<0.0020
MW-5	09/28/2005	104.60	47.46	57.14	<b>1400</b>	<b>2.2</b>	0.001	<0.00050	0.006	0.049	<0.0020
MW-5	05/17/2006	104.60	47.90	56.7	<b>720</b>	<b>6.4</b>	<b>0.01</b>	0.002	<b>0.036</b>	<b>0.31</b>	<0.0020
MW-5	09/23/2006	--	47.21	--	<b>130</b>	<b>2.6</b>	0.001	<0.00050	<b>0.016</b>	0.071	-
MW-5	05/16/2007	104.54	46.33	58.21	<b>36 / 27</b>	<b>2.6 / 1.7</b>	0.003 / 0.002 , 0.002	<0.0050 / <0.0050 , <0.0050	0.006 / 0.005 , 0.005	0.03 <sup>1</sup> / 0.03 , 0.03 <sup>1</sup>	-
MW-5	09/27/2007	104.54	--	--	-	-	-	-	-	-	-
MW-5	05/17/2008	104.54	--	--	-	-	-	-	-	-	-
MW-5	09/14/2008	104.54	45.58	58.96	<b>17</b>	<b>3.6</b>	<b>0.01</b>	0.003	0.04	<b>0.2</b>	-
MW-5	05/29/2009	104.54	45.39	59.15	<b>68</b>	1.2	0.0042	0.0012	0.0099	0.057	-
MW-5	09/17/2009	104.54	45.92	58.62	<b>100</b>	1.4	0.0036	0.0019	0.0093	0.084	-
MW-5	05/11/2010	104.54	45.86	58.68	<b>11</b>	1.2	0.0017	<0.0050	0.0023	0.048	-
MW-5	09/07/2010	104.54	45.81	58.73	<b>18</b>	0.037	<0.00050	<0.00050	<0.00050	<0.00150	-
MW-5	04/20/2011	104.54	45.74	58.80	<b>11 / 6</b>	1 / 1.2	0.0034 <sup>1</sup> / 0.0043	0.0016 / 0.0017	0.0026 <sup>1</sup> / 0.0031	0.029 / 0.036	-
MW-5	09/28/2011	104.54	46.18	58.36	<b>170 / 3.3<sup>2</sup></b>	0.35	0.0009	<0.00050	0.0006	0.0038	-
MW-5	05/21/2012	104.54	45.73	58.81	<b>25 / 18<sup>2</sup></b>	1.2	0.003	0.0028	0.0018	0.014	-
MW-5	09/18/2012	104.54	45.67	58.87	<b>3.5 / 2.8<sup>2</sup></b>	1.1	0.0024	<0.0030	0.00150 J	0.0052	-
MW-5	05/07/2013	109.77	45.45	64.32	1.3000 / 1.2000 / <0.5200 <sup>2</sup> / 0.5300 <sup>2</sup>	0.2990 / 0.4500	<0.00100 / <0.00100	<0.00100 / <0.00100	<0.00100 / <0.00100	<0.00300 / <0.00300	-
MW-5	09/16/2013	109.77	45.32	64.45	0.98 / 0.5600 <sup>2</sup>	<0.1000	<0.00100	<0.00100	<0.00100	<0.00300	-
MW-5	05/05/2014	109.77	44.87	64.90	1.4 / 0.68	0.353 / 0.351	0.0019 / <0.00100	0.0034 / 0.0011	0.0011 / <0.00100	0.0065 / <0.00300	-
MW-5	09/03/2014	109.77	45.29	64.48	0.61	0.552	0.0022	<0.00100	0.0058	<0.00300	-
MW-5	04/16/2015	109.77	45.68	64.09	<b>5</b>	0.34	<0.00050	<0.00050	<0.00050	0.00070 J	-

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**303 W. Fireweed Ln.**  
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Location	Date	TOC ft msl	DTW ft btoc	GWE ft msl	HYDROCARBONS		PRIMARY VOCS				
					DRO mg/l	GRO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylene (total) mg/l	MTBE mg/l
<b>ADEC Groundwater Cleanup Levels 2016<sup>a</sup></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>
MW-5	10/29/2015	109.77	45.83	63.94	0.72	0.0670 J	<0.00050	<0.00050	<0.00050	<0.00050	-
MW-5	04/19/2016	109.77	46.00	63.77	2.7	0.38	<0.0005	0.0006 J	<0.0005	<0.0005	-
MW-5	09/23/2016	109.77	46.31	63.46	2.0	0.76	0.002	<0.0005	0.015	<0.0005	-
MW-5	05/08/2017	109.77	45.76	64.01	16 J / 2.2 J	0.41 / 0.46	0.005 J / 0.002 J	0.028 J / 0.011 J	0.028 J / 0.009 J	0.19 / 0.12	-
MW-5	10/02/2017	109.77	44.10	65.67	1.1 J / 1.1 J	0.036 J / 0.038 J	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005
MW-6	06/15/1995	98.12	47.18	50.94	-	-	-	-	-	-	-
MW-6	08/24/1995	98.12	47.64	50.48	-	-	-	-	-	-	-
MW-6	11/14/1995	98.12	47.50	50.62	-	-	-	-	-	-	-
MW-6	01/29/1996	98.12	47.84	50.28	-	-	-	-	-	-	-
MW-6	05/29/1996	98.12	48.22	49.90	-	-	-	-	-	-	-
MW-6	08/20/1996	98.12	48.42	49.70	-	-	-	-	-	-	-
MW-6	10/15/1996	98.12	48.37	49.75	-	-	-	-	-	-	-
MW-6	04/27/1997	98.12	48.12	50.00	-	-	-	-	-	-	-
MW-6	09/07/1997	98.12	46.36	51.76	-	-	-	-	-	-	-
MW-6	04/21/1998	98.12	46.65	51.47	-	-	-	-	-	-	-
MW-6	09/17/1998	98.12	47.22	50.90	-	-	-	-	-	-	-
MW-6	04/26/1999	98.12	--	--	-	-	-	-	-	-	-
MW-6	10/11/1999	98.12	47.62	50.50	-	-	-	-	-	-	-
MW-6	05/18/2000	98.12	47.15	50.97	-	-	-	-	-	-	-
MW-6	09/25/2000	98.12	46.95	51.17	-	-	-	-	-	-	-
MW-6	05/08/2001	98.12	47.70	50.42	-	-	-	-	-	-	-
MW-6	10/03/2001	98.12	--	--	-	-	-	-	-	-	-
MW-6	05/03/2002	98.12	47.40	50.72	-	-	-	-	-	-	-
MW-6	09/28/2002	98.12	47.77	50.35	-	-	-	-	-	-	-
MW-6	05/22/2003	104.60	47.11	57.49	-	-	-	-	-	-	-
MW-6	10/13/2003	103.60	47.60	56.00	-	-	-	-	-	-	-
MW-6	06/10/2004	103.60	47.18	56.42	-	<0.0100 / <0.0100	<0.00050 / <0.00050	<0.00050 / <0.00050	<0.00050 / <0.00050	<0.00050 / <0.00050	<0.0020 / <0.0020
MW-6	09/22/2004	103.60	47.34	56.26	-	<0.0100	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020
MW-6	05/18/2005	103.60	46.73	56.87	-	<0.0100	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020
MW-6	09/28/2005	103.60	47.09	56.61	<0.0250	<0.0100	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020
MW-6	05/17/2006	103.60	47.55	56.05	0.034	<0.0100	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020
MW-6	09/23/2006	103.60	46.98	56.62	-	-	-	-	-	-	-
MW-6	05/16/2007	103.60	46.19	57.41	0.13	<0.0100	<0.0010	<0.0010	<0.0010	<0.0020	-
MW-6	09/27/2007	103.60	--	--	-	-	-	-	-	-	-
MW-6	05/17/2008	103.60	--	--	-	-	-	-	-	-	-
MW-6	09/14/2008	103.60	46.65	56.95	0.069	<0.0100	<0.0010	<0.0010	<0.0010	<0.0020	-
MW-6	05/29/2009	103.60	46.50	57.10	<0.0510	<0.010	<0.00050	<0.00050	<0.00050	<0.00150	-
MW-6	09/17/2009	103.60	46.96	56.64	<0.0510	<0.010	<0.00050	<0.00050	<0.00050	<0.00150	-
MW-6	05/11/2010	103.60	46.89	56.71	-	-	-	-	-	-	-
MW-6	09/07/2010	103.60	46.93	56.67	0.21	<0.0100	<0.00050	<0.00050	<0.00050	<0.00150	-
MW-6	04/20/2011	103.60	46.77	56.83	0.11	-	-	-	-	-	-
MW-6	09/28/2011	103.60	47.22	56.38	0.053 / <0.048 <sup>2</sup>	-	-	-	-	-	-
MW-6	05/21/2012	103.60	46.68	56.92	0.055 / <0.050 <sup>2</sup>	-	-	-	-	-	-
MW-6	09/18/2012	103.60	46.71	56.89	<0.047 / <0.047 <sup>2</sup>	-	-	-	-	-	-
MW-6	05/06/2013	110.23	46.46	63.77	<0.4800	<0.1000	<0.00100	<0.00100	<0.00100	<0.00300	-
MW-6	05/06/2013	110.23	--	--	<0.5700	<0.1000	<0.00100	<0.00100	<0.00100	<0.00300	-
MW-6	09/16/2013	110.23	46.34	63.89	<0.4000	-	-	-	-	-	-
MW-6	05/02/2014	110.23	45.95	64.28	<0.40	-	-	-	-	-	-

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Location	Date	TOC ft msl	DTW ft btoc	GWE ft msl	HYDROCARBONS		PRIMARY VOCS				
					DRO mg/l	GRO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylene (total) mg/l	MTBE mg/l
<b>ADEC Groundwater Cleanup Levels 2016<sup>a</sup></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>
MW-6	05/02/2014	110.23	--	--	<0.40	-	-	-	-	-	-
MW-6	09/03/2014	110.23	45.95	64.28	<0.40	<0.1000	<0.00100	<0.00100	<0.00100	<0.00300	-
MW-6	04/16/2015	110.23	46.69	63.54	0.086 J	-	-	-	-	-	-
MW-6	10/29/2015	110.23	46.76	63.47	0.68	<0.0100	<0.00050	<0.00050	<0.00050	<0.00050	-
MW-6	04/19/2016	110.23	46.94	63.29	0.44	-	-	-	-	-	-
MW-6	09/23/2016	110.23	47.21	63.02	0.12 J U	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	-
MW-6	05/08/2017	110.23	46.75	63.48	0.071 J	<0.010	0.002	0.01	0.008	0.11	-
MW-6	10/02/2017	110.23	44.93	65.30	-	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-7	05/22/2003	103.90	47.20	56.70	-	-	-	-	-	-	-
MW-7	10/13/2003	103.90	47.75	56.15	-	-	-	-	-	-	-
MW-7	06/10/2004	103.90	47.36	56.54	-	<b>70 / 75</b>	<b>2 / 2</b>	<b>11 / 11</b>	<b>2.4 / 2.4</b>	<b>8.5 / 8.5</b>	-
MW-7	09/22/2004	103.90	47.53	56.37	-	<b>68 / 69</b>	<b>2.4 / 2.6</b>	<b>12 / 11</b>	<b>2.9 / 2.9</b>	<b>9.9 / 9.7</b>	-
MW-7	05/18/2005	103.90	46.94	56.96	-	<b>65 / 69</b>	<b>0.96 / 1.1</b>	<b>9.6 / 10</b>	<b>2.6 / 2.6</b>	<b>9.1 / 9.4</b>	-
MW-7	09/28/2005	103.90	47.24	56.66	<b>12</b>	<b>65</b>	<b>0.79</b>	<b>9.4</b>	<b>2.6</b>	<b>9.2</b>	-
MW-7	05/17/2006	103.90	47.70	56.20	<b>12</b>	<b>64</b>	<b>0.64</b>	<b>7.3</b>	<b>2.4</b>	<b>9.5</b>	-
MW-7	09/23/2006	103.90	47.25	56.65	<b>10</b>	<b>45</b>	<b>0.27</b>	<b>3.6</b>	<b>2.5</b>	<b>7.3</b>	-
MW-7	05/16/2007	104.31	46.44	57.87	<b>6.3</b>	<b>36</b>	<b>0.2</b>	<b>2.7</b>	<b>2.4</b>	<b>5.9</b>	-
MW-7	09/27/2007	104.31	--	--	-	-	-	-	-	-	-
MW-7	05/17/2008	104.31	--	--	-	-	-	-	-	-	-
MW-7	09/14/2008	104.31	45.19	59.12	<b>3.9</b>	<b>34</b>	<b>0.1</b>	<b>1.3</b>	<b>2.7</b>	<b>5.8</b>	-
MW-7	05/29/2009	104.31	45.07	59.24	<b>2.3</b>	<b>26</b>	<b>0.068</b>	<b>0.63</b>	<b>2.4</b>	<b>4.4</b>	-
MW-7	09/17/2009	104.31	45.54	58.77	<b>2.3</b>	<b>23</b>	<b>0.073</b>	<b>0.48</b>	<b>2.6</b>	<b>3.9</b>	-
MW-7	05/11/2010	104.31	45.49	58.82	<b>3.4</b>	<b>23</b>	<b>0.071</b>	<b>0.3</b>	<b>2.7</b>	<b>3.5</b>	-
MW-7	09/07/2010	104.31	45.50	58.81	<b>3.1</b>	<b>19</b>	<b>0.052</b>	<b>0.18</b>	<b>2.2</b>	<b>2.5</b>	-
MW-7	04/20/2011	104.31	45.36	58.95	<b>3</b>	<b>20</b>	<b>0.087</b>	<b>0.12</b>	<b>2.8</b>	<b>2.5</b>	-
MW-7	09/28/2011	104.31	45.79	58.52	<b>3.7 / 1.2<sup>2</sup></b>	<b>16</b>	<b>0.061</b>	<b>0.097</b>	<b>2.3</b>	<b>2.2</b>	-
MW-7	05/21/2012	104.31	45.34	58.97	<b>3.4 / 0.38<sup>2</sup></b>	<b>16</b>	<b>0.061</b>	<b>0.068</b>	<b>2.2</b>	<b>1.7</b>	-
MW-7	09/18/2012	104.31	45.28	59.03	<b>4 / 2.2<sup>2</sup></b>	<b>15</b>	<b>0.062</b>	<b>0.069</b>	<b>2.3</b>	<b>1.9</b>	-
MW-7	05/06/2013	108.86	45.46	63.40	-	-	-	-	-	-	-
MW-7	05/07/2013	108.86	--	--	<b>2.8000 / 2.3000 / 1.9000<sup>2</sup> / 1.4000<sup>2</sup></b>	<b>21.2000 / 15.9000</b>	<b>0.0217 / 0.0208</b>	<b>0.0756 / 0.0727</b>	<b>2.21 / 1.77</b>	<b>2.1 / 1.94</b>	-
MW-7	09/16/2013	108.86	44.99	63.87	<b>3.1 / 2.6000<sup>2</sup></b>	<b>22.7</b>	<b>0.0192</b>	<b>0.0505</b>	<b>2.3</b>	<b>2.42</b>	-
MW-7	05/02/2014	108.86	44.55	64.31	<b>3.5 / 2.6</b>	<b>21.1 / 12.5</b>	<b>0.01460 / 0.01300</b>	<b>0.0928 / 0.06010</b>	<b>2.3100 / 1.6800</b>	<b>2.930 / 1.88</b>	-
MW-7	09/03/2014	108.86	44.96	63.90	<b>4</b>	<b>0.232</b>	<b>&lt;0.02000</b>	<b>0.083</b>	<b>2.53</b>	<b>3.07</b>	-
MW-7	04/16/2015	108.86	45.30	63.56	<b>2.1 / 4.6</b>	<b>20 / 20</b>	<b>0.012 / 0.013</b>	<b>0.052 / 0.06</b>	<b>1.4 / 1.8</b>	<b>1.5 / 2</b>	-
MW-7	10/29/2015	108.86	45.89	62.97	<b>4.4</b>	<b>19</b>	<b>0.0130 J</b>	<b>0.044</b>	<b>1.7</b>	<b>1.9</b>	-
MW-7	04/19/2016	108.86	45.56	63.30	<b>4.9 J</b>	-	-	-	-	-	-
MW-7 DUP	04/19/2016	108.86	45.56	63.30	<b>2.0 J</b>	<b>20</b>	<b>0.014</b>	<b>0.044</b>	<b>1.7</b>	<b>1.8</b>	-
MW-7	09/23/2016	108.86	45.85	63.01	<b>5.8</b>	<b>18</b>	<b>0.014</b>	<b>0.053</b>	<b>1.7</b>	<b>2.1</b>	-
MW-7-DUP	09/23/2016	108.86	45.85	63.01	<b>5.4</b>	<b>17</b>	<b>0.013</b>	<b>0.047</b>	<b>1.5</b>	<b>1.8</b>	-
MW-7	5/8/2017 <sup>4</sup>	108.86	--	--	-	-	-	-	-	-	-
MW-7	10/02/2017	108.86	43.76	65.10	<b>2.8 J</b>	<b>12</b>	<b>0.009</b>	<b>0.033</b>	<b>1.2</b>	<b>1.2</b>	<0.001
MW-8	09/28/2002	--	56.83	--	-	-	-	-	-	-	-
MW-8	05/22/2003	101.38	56.33	45.05	-	-	-	-	-	-	-
MW-8	10/13/2003	101.38	56.75	44.63	-	-	-	-	-	-	-
MW-8	05/27/2004	101.38	--	--	-	<b>0.39 , 0.46</b>	<b>0.074</b>	<b>0.0006</b>	<b>0.029</b>	<b>0.0007</b>	<0.00050
MW-8	06/10/2004	101.38	56.35	56.35	<b>0.76</b>	<b>0.41</b>	<b>0.085</b>	<b>0.0008</b>	<b>0.032</b>	<b>0.0012</b>	-

**Table 2**  
**Historical Groundwater Analytical Results**  
**Former Chevron-Branded Service Station 96097**  
**303 W. Fireweed Ln.**  
**Anchorage, AK**

Location	Date	TOC ft msl	DTW ft btoc	GWE ft msl	HYDROCARBONS		PRIMARY VOCS				
					DRO mg/l	GRO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylene (total) mg/l	MTBE mg/l
<b>ADEC Groundwater Cleanup Levels 2016<sup>a</sup></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>
MW-8	09/22/2004	101.38	56.45	44.93	0.7	0.31 , 0.7	<b>0.078</b>	0.0007	<b>0.032</b>	0.0012	-
MW-8	05/18/2005	101.38	55.80	45.58	0.36	0.43	<b>0.062</b>	0.0008	<b>0.039</b>	0.0013	-
MW-8	09/29/2005	101.38	56.12	45.26	0.34	0.39	<b>0.06</b>	0.0008	<b>0.036</b>	0.001	-
MW-8	05/17/2006	101.38	56.49	44.89	0.33	0.32	<b>0.045</b>	0.0004	<b>0.035</b>	<0.00060	-
MW-8	09/23/2006	101.38	56.30	45.08	0.59	0.3	<b>0.046</b>	0.0004	<b>0.037</b>	<0.00060	-
MW-8	05/16/2007	101.38	55.88	45.50	0.21	0.1	<b>0.02</b>	<0.0010	<b>0.02</b>	<0.0020	-
MW-8	09/27/2007	101.38	56.23	45.15	0.15	0.3	<b>0.03</b>	<0.0010	<b>0.04</b>	<0.0010	-
MW-8	05/17/2008	101.38	56.01	45.37	0.29 / 0.25	0.1 / 0.1	<b>0.02 / 0.02</b>	<0.0010 / <0.0010	<b>0.02 / 0.02</b>	<0.0010 / <0.0010	-
MW-8	09/14/2008	101.38	56.26	45.12	0.25	0.05	<0.0010	0.001	<0.0010	0.001	-
MW-8	05/31/2009	101.38	56.09	45.29	<0.0470	0.14	<b>0.017</b>	<0.00050	<b>0.029</b>	<0.00050	-
MW-8	09/18/2009	101.38	56.42	44.96	0.049	0.12	<b>0.017</b>	<0.00050	<b>0.026</b>	<0.00050	-
MW-8	05/11/2010	101.38	56.32	45.06	0.24	0.089	<b>0.013</b>	<0.00050	<b>0.017</b>	<0.00050	-
MW-8	09/07/2010	101.38	56.50	44.88	0.44	0.11	<b>0.0099</b>	<0.00050	<b>0.028</b>	<0.00050	-
MW-8	09/28/2011	101.38	56.70	44.68	<b>25 / 0.35<sup>2</sup></b>	0.074	<b>0.012</b>	<0.00050	0.0087	<0.00050	-
MW-8	05/21/2012	101.38	56.25	45.13	-	-	-	-	-	-	-
MW-8	09/18/2012	101.38	56.26	45.12	0.38 / 0.15 J <sup>2</sup>	0.0490 J	<b>0.011</b>	<0.00050	<0.00050	<0.00050	-
MW-8	05/06/2013	108.01	--	--	--	--	-	-	-	-	-
MW-8	09/17/2013	108.01	56.03	51.98	<0.4100	<0.1000	<b>0.0079</b>	<0.00100	<0.00100	<0.00100	-
MW-8	05/05/2014	108.01	55.69	52.32	<0.40	<0.1000	<b>0.0053</b>	<0.00100	<0.00100	<0.00100	-
MW-8	05/05/2014	108.01	--	--	<0.42	<0.1000	<b>0.0075</b>	<0.00100	<0.00100	<0.00100	-
MW-8	09/02/2014	108.01	56.06	51.95	<0.42	<0.1000	<b>0.0071</b>	<0.00100	<0.00100	<0.00100	-
MW-8	04/15/2015	108.01	--	--	--	--	-	-	-	-	-
MW-8	10/29/2015	108.01	56.71	51.3	0.13 J	0.0310 J	0.004	<0.00050	<0.00050	<0.00050	-
MW-8	04/19/2016	108.01	53.61	54.40	0.23 J	0.034 J	0.004	<0.0005	<0.0005	<0.0005	-
MW-8	09/23/2016	108.01	56.55	51.46	0.36	0.035 J	0.003	<0.0005	<0.0005	<0.0005	-
MW-8	05/08/2017	108.01	56.21	51.80	0.71	0.038 J	<0.0005	<0.0005	<0.0005	<0.0005	-
MW-8	10/03/2017	108.01	54.58	53.43	<0.050	0.010 J	0.001	<0.0005	<0.0005	<0.0005	<0.0005
MW-9	10/13/2003	104.17	47.62	56.55	-	-	-	-	-	-	-
MW-9	06/10/2004	104.17	47.22	56.95	-	-	-	-	-	-	-
MW-9	06/11/2004	104.17	--	--	1.4	0.91	<b>0.007</b>	0.001	<b>0.031</b>	0.001	<0.0020
MW-9	06/11/2004	104.17	--	--	1.4	-	<b>0.007</b>	0.001	<b>0.031</b>	0.001	<0.0020
MW-9	06/11/2004	104.17	--	--	1.4	-	<b>0.007</b>	0.001	<b>0.031</b>	0.001	<0.0020
MW-9	09/22/2004	104.17	47.40	56.77	<b>7.2</b>	<b>5.4 , 7.2</b>	<b>0.043</b>	0.002	<b>0.28</b>	0.002	<0.0020
MW-9	05/18/2005	104.17	46.80	57.37	0.98	0.5	0.003	<0.00050	0.006	<0.00050	<0.0020
MW-9	09/28/2005	104.17	47.13	57.04	<b>10 / 11</b>	<b>2.3 / 2.3</b>	<b>0.018 / 0.017</b>	0.001 / 0.001	<b>0.13 / 0.13</b>	0.001 / 0.001	<0.0020 / <0.0020
MW-9	05/17/2006	104.17	47.59	56.58	<b>15 / 5.4</b>	1.1 / 1.2	<b>0.008 / 0.009</b>	0.0007 / 0.0007	<b>0.066 / 0.066</b>	0.0007 / 0.0007	<0.0020 / <0.0020
MW-9	09/23/2006	104.17	47.16	57.01	<b>2.2 / 1.9</b>	0.2 / 0.21	0.003 / 0.003	<0.00050 / <0.00050	0.006 / 0.007	<0.00050 / <0.00050	-
MW-9	05/16/2007	104.70	46.31	58.39	<b>2.6</b>	0.3	0.003	<0.0010	0.01	<0.0010	-
MW-9	09/27/2007	104.70	--	--	-	-	-	-	-	-	-
MW-9	05/17/2008	104.70	--	--	-	-	-	-	-	-	-
MW-9	09/14/2008	104.70	45.45	59.25	<b>4.3</b>	1.9	<b>0.01</b>	0.001	<b>0.06</b>	0.001	-
MW-9	05/29/2009	104.70	45.27	59.43	<b>1.6</b>	0.61	<b>0.0056</b>	0.0008	<b>0.034</b>	0.0008	-
MW-9	09/17/2009	104.70	45.86	58.84	<b>2.7</b>	1.3	<b>0.0086</b>	0.0008	<b>0.078</b>	0.0008	-
MW-9	05/11/2010	104.70	45.84	58.86	<b>2.3</b>	1.4	<b>0.009</b>	0.0012	<b>0.089</b>	0.0012	-
MW-9	09/07/2010	104.70	47.18	57.52	<b>3.1</b>	2.1	<b>0.011</b>	0.0011	<b>0.11</b>	0.0011	-
MW-9	04/20/2011	104.70	45.76	58.94	<b>2.9</b>	2	<b>0.015</b>	0.0014	<b>0.1</b>	0.0014	-
MW-9	09/28/2011	104.70	46.16	58.54	<b>5.8 / 0.63<sup>2</sup></b>	1.4 / 1.5	<b>0.0094<sup>1</sup> / 0.01</b>	0.0012 <sup>1</sup> / 0.0014	<b>0.071<sup>1</sup> / 0.072</b>	0.0012 <sup>1</sup> / 0.0014	-
MW-9	05/21/2012	104.70	45.70	59.00	<b>2.1 / 0.48<sup>2</sup></b>	1.2	<b>0.0069</b>	0.0012	<b>0.035</b>	0.0012	-

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**303 W. Fireweed Ln.**  
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Location	Date	TOC ft msl	DTW ft btoc	GWE ft msl	HYDROCARBONS		PRIMARY VOCS				
					DRO mg/l	GRO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylene (total) mg/l	MTBE mg/l
<b>ADEC Groundwater Cleanup Levels 2016<sup>a</sup></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>
MW-9	09/18/2012	104.70	45.41	59.29	2.1 / 0.34 <sup>2</sup>	1.2	0.0089	0.00130J	0.049	0.00130 J	-
MW-9	05/06/2013	109.64	45.50	64.14	-	-	-	-	-	-	-
MW-9	05/07/2013	109.64	--	--	1.1 / <0.5000 <sup>2</sup>	0.562	0.0025	<0.00100	0.021	<0.00100	-
MW-9	05/07/2013	109.64	--	--	1.6 / <0.5000 <sup>2</sup>	1.01	0.0033	<0.00100	0.032	<0.00100	-
MW-9	09/16/2013	109.64	45.32	64.32	1.7 / 0.5600 <sup>2</sup>	1.04	0.0033	<0.00100	0.0371	<0.00100	-
MW-9	05/05/2014	109.64	44.88	64.76	<0.40	<0.1000	<0.00100	<0.00100	0.0012	<0.00100	-
MW-9	05/05/2014	109.64	--	--	<0.42	0.146	0.0011	<0.00100	<0.00100	<0.00100	-
MW-9	09/03/2014	109.64	45.27	64.37	0.88	<0.1000	<0.00100	<0.00100	<0.00100	<0.00100	-
MW-9	04/16/2015	109.64	45.70	63.94	1.4	0.67	0.003	<0.00050	0.011	<0.00050	-
MW-9	10/29/2015	109.64	45.84	63.8	1.5	0.84	0.002	<0.00050	0.014	<0.00050	-
MW-9	04/19/2016	109.64	46.00	63.64	1.5	0.95	0.003	<0.0005	0.012	<0.0005	-
MW-9	09/23/2016	109.64	46.25	63.39	7.5	0.073 J	<0.0005	<0.0005	<0.0005	<0.0005	-
MW-9	05/08/2017	109.64	45.74	63.90	1.1	0.95	0.034	0.006	0.026	0.007	-
MW-9	10/02/2017	109.64	44.12	65.52	0.14 J	0.092 J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-10	10/13/2003	103.26	46.68	56.58	-	-	-	-	-	-	-
MW-10	06/01/2004	103.26	--	--	2.9	5.5	0.01	0.014	0.4	0.014	<0.0020
MW-10	06/10/2004	103.26	46.26	57.00	-	-	-	-	-	-	-
MW-10	09/22/2004	103.26	46.45	56.81	1.3	0.76	0.001	0.0009	0.062	0.0009	<0.0020
MW-10	05/18/2005	103.26	--	--	-	-	-	-	-	-	-
MW-10	09/28/2005	103.26	46.15	57.11	0.24	0.61	0.0006	0.0008	0.03	0.0008	<0.0020
MW-10	05/17/2006	103.26	46.63	56.63	0.75	2.1	0.003	<0.00050	0.097	<0.00050	<0.0020
MW-10	09/23/2006	103.26	46.17	57.09	-	-	-	-	-	-	-
MW-10	05/16/2007	103.74	45.25	58.49	0.93	1.3	0.007	0.002	0.09	0.002	-
MW-10	09/27/2007	103.74	--	--	-	-	-	-	-	-	-
MW-10	05/29/2009	103.74	--	--	-	-	-	-	-	-	-
MW-10	05/11/2010	103.74	--	--	13	-	-	-	-	-	-
MW-10R	09/28/2011	--	46.15	--	3.6 / 2.2 <sup>2</sup>	8.7	0.027	0.007	0.26	0.007	-
MW-10R	05/21/2012	--	45.65	--	12 / 3 <sup>2</sup>	17	0.055	0.053	0.21	0.053	-
MW-10R	09/18/2012	--	45.82	--	9.12	6.7	0.022	0.006	0.14	0.006	-
MW-10R	05/07/2013	109.64	44.47	65.17	1.5 / 1.2000 <sup>2</sup>	3.77	<0.00500	<0.00500	0.1880	<0.00500	-
MW-10R	05/07/2013	109.64	--	--	1.6 / 1.3000 <sup>2</sup>	4.81	<0.00500	<0.00500	0.168	<0.00500	-
MW-10R	09/16/2013	109.64	45.28	64.36	2.1 / 1.8000 <sup>2</sup>	2.17	0.0014	0.0013	0.0534	0.0013	-
MW-10R	05/02/2014	109.64	44.78	64.86	1.7	2.97	<0.00500	<0.00500	0.183	<0.00500	-
MW-10R	05/02/2014	109.64	--	--	2.1	2.51	<0.00500	<0.00500	0.0513	<0.00500	-
MW-10R	09/03/2014	109.64	46.21	63.43	2.2	4.97	<0.00500	<0.00500	0.173	<0.00500	-
MW-10R	04/16/2015	109.64	45.61	64.03	5.9	3.6	0.002	0.002	0.16	0.002	-
MW-10R	10/29/2015	109.64	45.76	63.88	2.5	3	0.00090 J	0.0010 J	0.051	0.0010J	-
MW-10R	04/19/2016	109.64	45.93	63.71	3.6	4.5	0.002	0.002	0.13	0.13	-
MW-10R	09/23/2016	109.64	46.24	63.40	1.6	3.5	0.001	0.001	0.057	0.062	-
MW-10R	05/08/2017	109.64	45.68	63.96	1.7	3.9	0.0009 J	<0.0005	0.005	0.036	-
MW-10R	10/02/2017	109.64	43.96	65.68	0.66 J	2.9	0.001 J	0.001	0.10	0.093	<0.0005
MW-11	10/13/2003	103.27	46.42	56.85	-	-	-	-	-	-	-
MW-11	06/10/2004	103.27	46.02	57.25	-	-	-	-	-	-	-
MW-11	06/11/2004	103.27	--	--	8.1	11	0.11	0.39	0.6	0.39	<0.0020
MW-11	06/11/2004	103.27	--	--	8.1	-	0.11	0.39	0.6	0.39	<0.0020
MW-11	06/11/2004	103.27	--	--	8.1	-	0.11	0.39	0.6	0.39	<0.0020

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<b>ADEC Groundwater Cleanup Levels 2016<sup>a</sup></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>
MW-11	09/22/2004	103.27	46.21	57.06	0.64	0.011	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020
MW-11	05/18/2005	103.27	45.61	57.66	<b>2.6</b>	<b>6.3</b>	<b>0.033</b>	0.15	<b>0.41</b>	0.15	<0.0020
MW-11	09/28/2005	103.27	45.90	57.37	0.032	0.029	<0.00050	<0.00050	0.002	<0.00050	<0.0020
MW-11	05/17/2006	103.27	--	--	-	-	-	-	-	-	-
MW-11	09/23/2006	103.27	--	--	-	-	-	-	-	-	-
MW-11	05/16/2007	103.27	--	--	-	-	-	-	-	-	-
MW-12	10/13/2003	101.38	60.52	40.86	<b>12</b>	0.56	<b>0.18</b>	<0.00050	<0.00050	<0.00050	<0.0020
MW-12	05/27/2004	101.38	--	--	-	0.32, <b>8.5</b>	<b>0.12</b>	<0.00050	<0.00050	<0.00050	<0.00050
MW-12	06/11/2004	101.38	60.12	41.26	<b>3.4</b>	0.41	<b>0.15</b>	0.0006	0.0006	0.0006	<0.0020
MW-12	09/22/2004	101.38	60.23	41.15	<b>2.3</b>	0.38, <b>2.3</b>	<b>0.16</b>	0.0005	<0.00050	0.0005	<0.0020
MW-12	05/18/2005	101.38	58.47	42.91	0.96	0.68	<b>0.17</b>	0.0009	0.001	0.0009	<0.0020
MW-12	09/29/2005	101.38	59.86	41.52	<b>1.7</b>	0.58	<b>0.19</b>	0.0008	0.001	0.0008	<0.0020
MW-12	05/17/2006	101.38	60.12	41.26	<b>1.8</b>	0.56	<b>0.18</b>	0.0008	0.001	0.0008	<0.0020
MW-12	09/23/2006	101.38	60.04	41.34	<b>2.1</b>	0.63	<b>0.17</b>	0.0007	0.001	0.0007	-
MW-12	05/16/2007	101.38	59.58	41.8	<b>1.8</b>	0.4	<b>0.1</b>	<0.0010	0.002	<0.0010	-
MW-12	09/27/2007	101.38	59.97	41.41	1.4 / 0.71	0.4 / 0.4	<b>0.1 / 0.1</b>	<0.0010 / <0.0010	0.002 / 0.002	<0.0010 / <0.0010	-
MW-12	05/17/2008	101.38	--	--	-	-	-	-	-	-	-
MW-12	09/14/2008	101.38	60.02	57.76	1.2	0.4	<b>0.1</b>	<0.0010	0.002	<0.0010	-
MW-12	05/29/2009	101.38	59.79	41.59	0.089	0.34	<b>0.13</b>	<0.00050	0.0017	<0.00050	-
MW-12	09/18/2009	101.38	60.15	41.23	0.071	0.26	<b>0.12</b>	<0.00050	0.0009	<0.00050	-
MW-12	05/11/2010	101.38	60.00	41.38	0.38	0.21	<b>0.092</b>	0.0005	0.0006	0.0005	-
MW-12	09/07/2010	101.38	60.40	40.98	0.74 / 1.1	0.17 / 0.18	<b>0.089<sup>1</sup> / 0.088</b>	<0.00050 <sup>1</sup> / <0.00050	<0.00050 <sup>1</sup> / <0.00050	<0.00050 <sup>1</sup> / <0.00050	-
MW-12	04/20/2011	101.38	--	--	0.71	0.16	<b>0.069</b>	<0.00050	0.0006	<0.00050	-
MW-12	04/26/2011	101.38	60.29	41.09	-	-	-	-	-	-	-
MW-12	09/28/2011	101.38	60.62	40.76	<b>3.2 / 0.056<sup>2</sup></b>	0.13 / 0.13	<b>0.072<sup>1</sup> / 0.075</b>	<0.00050 <sup>1</sup> / <0.00050	<0.00050 <sup>1</sup> / <0.00050	<0.00050 <sup>1</sup> / <0.00050	-
MW-12	05/21/2012	101.38	60.10	41.28	0.26 / 0.16 <sup>2</sup>	0.13	<b>0.06</b>	<0.00050	<0.00050	<0.00050	-
MW-12	09/18/2012	101.38	60.12	41.26	0.52 / 0.33 <sup>2</sup>	0.13	<b>0.068</b>	<0.00050	0.00060 J	<0.00050	-
MW-12	05/06/2013	108.01	59.90	48.11	<0.5400 / <0.4800	0.1600 / 0.1240	<b>0.0588 / 0.0458</b>	<0.00100 / <0.00100	<0.00100 / <0.00100	<0.00100 / <0.00100	-
MW-12	09/16/2013	108.01	59.96	48.05	<0.4100 / <0.4100	0.1600 / 0.17	<b>0.0523 / 0.0549</b>	<0.00100 / <0.00100	<0.00100 / <0.00100	<0.00100 / <0.00100	-
MW-12	05/02/2014	108.01	59.56	48.45	<0.42 / <0.40	0.153 / 0.14	<b>0.04250 / 0.038702</b>	<0.00100 / <0.00100	<0.00100 / <0.00100	<0.00100 / <0.00100	-
MW-12	09/02/2014	108.01	59.96	48.05	<0.40	<10.0000	<b>0.0417</b>	<0.00200	<0.00200	<0.00200	-
MW-12	04/16/2015	108.01	60.24	47.77	0.28	0.1000 J	<b>0.04</b>	<0.00050	<0.00050	<0.00050	-
MW-12	10/29/2015	108.01	60.14	47.87	0.31	0.0810 J	-	<0.00050	<0.00050	<0.00050	-
MW-12	04/19/2016	108.01	60.01	48.00	0.17 J	0.086 J	<b>0.031</b>	<0.0005	<0.0005	<0.0005	-
MW-12	09/23/2016	108.86	60.36	63.01	0.58 J	0.088 J	<b>0.035</b>	<0.0005	<0.0005	<0.0005	-
MW-12-DUP	09/23/2016	108.86	60.36	63.01	1.0 J	0.083 J	<b>0.035</b>	<0.0005	<0.0005	<0.0005	-
MW-12	05/08/2017	108.01	59.99	48.02	<0.052	0.064 J	<b>0.021</b>	<0.0005	<b>0.044</b>	<b>0.30</b>	-
MW-12	10/03/2017	108.01	58.23	49.78	0.76	0.012 J	0.003	<0.0005	<0.0005	<0.0005	<0.0005
MW-13	05/09/2005	--	--	--	0.065	<0.0100	<0.00050	<0.00050	<0.00050	<0.00050	-
MW-13	06/16/2005	--	--	--	0.04	<0.0100	<0.00050	<0.00050	<0.00050	<0.00050	-
MW-13	09/29/2005	102.25	44.60	57.65	0.024	<0.0100	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020
MW-13	05/17/2006	102.25	45.21	57.04	0.21	<0.0100	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020
MW-13	09/23/2006	102.25	44.69	57.56	-	-	-	-	-	-	-
MW-13	05/16/2007	102.25	43.77	58.48	0.61	<0.0100	<0.0010	<0.0010	<0.0010	<0.0010	-
MW-13	09/27/2007	102.25	44.16	58.09	0.27	<0.0100	<0.0010	<0.0010	<0.0010	<0.0010	-
MW-13	05/17/2008	102.25	43.86	58.39	-	-	-	-	-	-	-
MW-13	09/14/2008	102.25	44.32	57.93	0.37	<0.0100	<0.0010	<0.0010	<0.0010	<0.0010	-

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**Former Chevron-Branded Service Station 96097**  
**303 W. Fireweed Ln.**  
**Anchorage, AK**

Location	Date	TOC ft msl	DTW ft btoc	GWE ft msl	HYDROCARBONS		PRIMARY VOCS				
					DRO mg/l	GRO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylene (total) mg/l	MTBE mg/l
ADEC Groundwater Cleanup Levels 2016 <sup>a</sup>					1.5	2.2	0.0046	1.1	0.015	0.19	0.14
MW-13	05/31/2009	102.25	44.22	58.03	<0.0510	<0.010	<0.00050	<0.00050	<0.00050	<0.00050	-
MW-13	09/18/2009	102.25	44.67	57.58	<0.0490	<0.010	<0.00050	<0.00050	<0.00050	<0.00050	-
MW-13	05/11/2010	102.25	44.55	57.70	-	-	-	-	-	-	-
MW-13	09/07/2010	102.25	44.49	57.76	<0.052	<0.0100	<0.00050	<0.00050	<0.00050	<0.00050	-
MW-13	09/28/2011	102.25	47.78	54.47	1.2 / <0.049 <sup>2</sup>	<0.0100	<0.00050	<0.00050	<0.00050	<0.00050	-
MW-13	05/21/2012	102.25	44.25	58.00	-	-	-	-	-	-	-
MW-13	09/18/2012	102.25	44.24	58.01	0.25 J / 0.19 / 0.077 J <sup>2</sup>	<0.0100 / <0.0100	<0.00050 <sup>1</sup> / <0.00050	<0.00050 <sup>1</sup> / <0.00050	<0.00050 <sup>1</sup> / <0.00050	<0.00050 <sup>1</sup> / <0.00050	-
MW-13	05/06/2013	108.88	--	--	-	-	-	-	-	-	-
MW-13	09/17/2013	108.88	43.91	64.97	<0.4100	<0.1000	<0.00100	<0.00100	<0.00100	<0.00100	-
MW-13	05/02/2014	108.88	43.50	65.38	-	-	-	-	-	-	-
MW-13	09/02/2014	108.88	43.91	64.97	0.45	<0.1000	<0.00100	<0.00100	<0.00100	<0.00100	-
MW-13	04/15/2015	108.88	44.30	64.58	-	-	-	-	-	-	-
MW-13	10/29/2015	108.88	44.32	64.56	0.32	<0.0100	<0.00050	<0.00050	<0.00050	<0.00050	-
MW-13	04/19/2016	108.88	44.68	64.20	0.78	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	-
MW-13	09/23/2016	108.88	44.83	64.05	0.63	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--
MW-13	05/08/2017	108.88	44.35	64.53	0.39	<0.010	0.003	<0.0005	<0.0005	0.020	-
MW-13	10/03/2017	108.88	42.45	66.43	0.062 J	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-14	06/16/2005	--	--	--	<b>15 / 19</b>	0.22 / 0.21	<b>0.044 / 0.043</b>	<0.00050 / <0.00050	0.011 / 0.011	<0.00050 / <0.00050	-
MW-14	09/29/2005	102.35	56.59	45.76	0.081	0.079	<b>0.025</b>	<0.00050	0.003	<0.00050	<0.0020
MW-14	05/17/2006	102.35	56.93	45.42	<b>1.6</b>	0.061	<b>0.019</b>	<0.00050	0.002	<0.00050	<0.0020
MW-14	09/23/2006	102.35	56.77	45.58	<b>2.9</b>	0.046	<b>0.011</b>	<0.00050	0.0009	<0.00050	-
MW-14	05/16/2007	102.35	56.28	46.07	<b>1.8</b>	0.02	<b>0.009</b>	<0.0010	<0.0010	<0.0010	-
MW-14	09/27/2007	102.35	56.68	45.67	0.57	0.03	<b>0.01</b>	<0.0010	0.001	<0.0010	-
MW-14	05/17/2008	102.35	56.44	45.91	<b>6.6</b>	0.03	<b>0.01</b>	<0.0010	<0.0010	<0.0010	-
MW-14	09/14/2008	102.35	56.71	45.64	1	0.04	<b>0.01</b>	<0.0010	0.002	<0.0010	-
MW-14	05/31/2009	102.35	56.56	45.79	<0.0500	0.02	<b>0.008</b>	<0.00050	0.001	<0.00050	-
MW-14	09/18/2009	102.35	56.96	45.39	0.47	0.032	<b>0.0093</b>	<0.00050	0.0027	<0.00050	-
MW-14	05/11/2010	102.35	56.77	45.58	0.43	0.027	<b>0.0087</b>	<0.00050	0.0012	<0.00050	-
MW-14	09/08/2010	102.35	56.95	45.40	1.5	0.024	<b>0.01</b>	<0.00050	0.0016	<0.00050	-
MW-14	04/20/2011	102.35	56.82	45.53	0.053	0.028	<b>0.0098</b>	<0.00050	0.0011	<0.00050	-
MW-14	09/28/2011	102.35	57.15	45.20	1.4 / 0.35 <sup>2</sup>	0.021	<b>0.009</b>	<0.00050	0.0007	<0.00050	-
MW-14	05/21/2012	102.35	56.70	45.65	0.32 / 0.19 <sup>2</sup>	0.02	<b>0.0074</b>	<0.00050	<0.00050	<0.00050	-
MW-14	09/18/2012	102.35	56.70	45.65	<b>1.8 / 1.3<sup>2</sup></b>	0.0150J	<b>0.0065</b>	<0.00050	<0.00050	<0.00050	-
MW-14	05/08/2013	109.00	56.02	52.98	<0.5400 / <0.5100	<0.1000 / <0.1000	<b>0.0057 / 0.0038</b>	<0.00100 / <0.00100	<0.00100 / <0.00100	<0.00100 / <0.00100	-
MW-14	09/17/2013	109.00	56.54	52.46	<0.4100	<0.1000	<b>0.0054</b>	<0.00100	<0.00100	<0.00100	-
MW-14	05/05/2014	109.00	56.18	52.82	<0.40 / <0.40	<0.1000 / <0.1000	<b>0.0048 / 0.004</b>	<0.00100 / <0.00100	<0.00100 / <0.00100	<0.00100 / <0.00100	-
MW-14	09/02/2014	109.00	56.53	52.47	<0.42	<0.1000	0.0043	<0.00100	<0.00100	<0.00100	-
MW-14	04/15/2015	109.00	--	--	-	-	-	-	-	-	-
MW-14	10/29/2015	109.00	56.90	52.1	0.29	0.0170 J	0.005	<0.00050	<0.00050	<0.00050	-
MW-14	04/19/2016 <sup>4</sup>	109.00	--	--	-	-	-	-	-	-	-
MW-14	09/23/2016	109.00	57.03	51.97	0.56	0.015 J	0.004	<0.0005	<0.0005	<0.0005	-
MW-14	05/08/2017	109.00	56.70	52.30	0.28	0.018 J	0.0009 J	<0.0005	0.005	0.036	-
MW-14	10/03/2017	109.00	55.30	53.70	<0.053 / <0.051	<0.010 / <0.010	0.003 / 0.003	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005
MW-15	05/11/2005	--	--	--	<0.0230	<0.0100	<0.00050	<0.00050	<0.00050	<0.00050	-
MW-15	06/16/2005	--	--	--	0.25	<0.0100	<0.00050	<0.00050	<0.00050	<0.00050	-
MW-15	09/29/2005	102.04	55.84	46.20	0.031	<0.0100	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020
MW-15	05/17/2006	102.04	56.22	45.82	0.071	0.076	0.014	<0.00050	0.004	<0.00050	<0.0020



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Location	Date	TOC ft msl	DTW ft btoc	GWE ft msl	HYDROCARBONS		PRIMARY VOCS				
					DRO mg/l	GRO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylene (total) mg/l	MTBE mg/l
<b>ADEC Groundwater Cleanup Levels 2016<sup>3</sup></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>
MW-15	09/23/2006	102.04	56.04	46.00	-	-	-	-	-	-	-
MW-15	05/16/2007	102.04	55.45	46.59	0.077	<0.0100	<0.0010	<0.0010	<0.0010	<0.0010	-
MW-15	09/27/2007	102.04	55.92	46.12	0.072	<0.0100	<0.0010	<0.0010	<0.0010	<0.0010	-
MW-15	05/17/2008	102.04	55.62	46.42	-	-	-	-	-	-	-
MW-15	09/14/2008	102.04	55.95	46.09	0.093 / 0.11	<0.0100 / <0.0100	0.001 <sup>1</sup> / <0.0010	<0.0010 <sup>1</sup> / <0.0010	<0.0010 <sup>1</sup> / <0.0010	<0.0010 <sup>1</sup> / <0.0010	-
MW-15	05/31/2009	102.04	55.74	46.30	<0.0480 / <0.0510	<0.010 / <0.0100	0.0007 <sup>1</sup> / 0.0007	<0.00050 <sup>1</sup> / <0.00050	<0.00050 <sup>1</sup> / <0.00050	<0.00050 <sup>1</sup> / <0.00050	-
MW-15	09/18/2009	102.04	56.04	46.00	<0.0520	0.024 / --	<b>0.0052</b>	<0.00050	0.0023	<0.00050	-
MW-15	05/11/2010	102.04	56.06	45.98	0.069 / 0.073	0.012 / <0.0100	0.0015 <sup>1</sup> / 0.0016	<0.00050 <sup>1</sup> / <0.00050	<0.00050 <sup>1</sup> / <0.00050	<0.00050 <sup>1</sup> / <0.00050	-
MW-15	09/07/2010	102.04	56.22	45.82	0.098	0.028	0.0021	<0.00050	0.0009	<0.00050	-
MW-15	04/20/2011	102.04	56.14	45.90	-	-	-	-	-	-	-
MW-15	09/28/2011	102.04	56.40	45.64	-	-	-	-	-	-	-
MW-15	05/21/2012	102.24	--	--	-	-	-	-	-	-	-
MW-15	09/18/2012	102.24	--	--	-	-	-	-	-	-	-
MW-15	05/06/2013	108.69	55.76	52.93	-	-	-	-	-	-	-
MW-15	09/16/2013	108.69	--	--	-	-	-	-	-	-	-
MW-15	05/02/2014	108.69	55.42	53.27	-	-	-	-	-	-	-
MW-15	09/02/2014	108.69	55.80	52.89	-	-	-	-	-	-	-
MW-15	04/15/2015	108.69	56.07	52.62	-	-	-	-	-	-	-
MW-15	10/29/2015	108.69	56.03	52.66	-	-	-	-	-	-	-
MW-15	04/19/2016 <sup>3</sup>	108.69	56.06	52.63	-	-	-	-	-	-	-
MW-15	09/23/2016	108.69	56.33	52.36	-	-	-	-	-	-	-
MW-15	5/8/2017 <sup>3</sup>	108.69	55.98	52.71	-	-	-	-	-	-	-
MW-15	10/02/2017	108.69	54.32	54.37	-	-	-	-	-	-	-
MW-16	06/05/2008	--	--	--	<b>6.5</b>	1.3	<b>0.007</b>	0.0008	<b>0.03</b>	0.0008	-
MW-16	09/14/2008	--	57.01	--	<b>55</b>	0.3	0.001	<0.0010	0.005	<0.0010	-
MW-16	05/31/2009	108.84	57.45	51.39	<b>2.9</b>	1.4	<b>0.0068</b>	0.0013	<b>0.041</b>	0.0013	-
MW-16	09/18/2009	108.84	57.18	51.66	<b>8 / 2.6</b>	0.74 / 0.72	0.0031 <sup>1</sup> / 0.0029	0.0008 <sup>1</sup> / 0.0007	<b>0.02<sup>1</sup> / 0.018</b>	0.0008 <sup>1</sup> / 0.0007	-
MW-16	05/11/2010	108.84	57.10	51.74	<b>4.5</b>	0.027	<0.00050	<0.00050	<0.00050	<0.00050	-
MW-16	09/07/2010	108.84	57.25	51.59	<b>2.6</b>	<0.0100	<0.00050	<0.00050	<0.00050	<0.00050	-
MW-16	09/28/2011	108.84	57.46	51.38	<b>330 / 71<sup>2</sup></b>	0.55	0.0013	<0.00050	0.0021	<0.00050	-
MW-16	05/21/2012	--	--	--	<b>39 / 39<sup>2</sup></b>	0.034	<0.00050	<0.00050	<0.00050	<0.00050	-
MW-16	09/18/2012	108.84	57.05	51.79	<b>23 / 13<sup>2</sup></b>	0.0250 J	<0.00050	<0.00050	<0.00050	<0.00050	-
MW-16	05/08/2013	108.85	56.80	52.05	<b>7.5000 / 2.0000 / 7.5000<sup>2</sup> / 1.4000<sup>2</sup></b>	<0.1000 / <0.1000	<0.00100 / <0.00100	<0.00100 / <0.00100	<0.00100 / 0.0024	<0.00100 / <0.00100	-
MW-16	09/17/2013	108.85	56.85	52.00	<b>7 / 6.6 / 6.2000<sup>2</sup></b>	<0.1000 / <0.1000	<0.00100 / <0.00100	<0.00100 / <0.00100	<0.00100 / <0.00100	<0.00100 / <0.00100	-
MW-16	05/02/2014	108.85	56.45	52.40	-	-	-	-	-	-	-
MW-16	09/02/2014	108.85	56.83	52.02	<b>5.3</b>	<0.1000	<0.00100	<0.00100	<0.00100	<0.00100	-
MW-16	04/15/2015	108.85	--	--	-	-	-	-	-	-	-
MW-16	10/29/2015	108.85	57.16	51.69	<b>4.5</b>	0.0180 J	<0.00050	<0.00050	<0.00050	<0.00050	-
MW-16	04/19/2016 <sup>4</sup>	108.85	57.13	51.72	-	-	-	-	-	-	-
MW-16	09/23/2016	108.85	57.39	51.46	<b>18</b>	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	-
MW-16	5/8/2017 <sup>5</sup>	108.85	--	--	-	-	-	-	-	-	-
MW-16	10/03/2017	108.85	55.69	53.16	<0.052	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-17	06/10/2004	-	-	-	-	<0.0100	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020
MW-17	09/22/2004	-	-	-	-	<0.0100	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020
MW-17	05/18/2005	-	-	-	-	<0.0100	<0.00020	<0.00020	<0.00020	<0.00020	-
MW-17	09/28/2005	-	-	-	-	<0.0100	<0.00020	<0.00020	<0.00020	<0.00020	-

**Table 2**  
**Historical Groundwater Analytical Results**  
**Former Chevron-Branded Service Station 96097**  
**303 W. Fireweed Ln.**  
**Anchorage, AK**

Location	Date	TOC ft msl	DTW ft btoc	GWE ft msl	HYDROCARBONS		PRIMARY VOCS				
					DRO mg/l	GRO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylene (total) mg/l	MTBE mg/l
<b>ADEC Groundwater Cleanup Levels 2016<sup>a</sup></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>
MW-17	05/17/2006	-	-	-	-	<0.0100	<0.00020	<0.00020	<0.00020	<0.00020	-
MW-17	09/23/2006	-	-	-	-	<0.0100	<0.00020	<0.00020	<0.00020	<0.00020	-
MW-17	05/16/2007	-	-	-	-	<0.0100	<0.0010	<0.0010	<0.0010	<0.0010	-
MW-17	09/27/2007	-	-	-	-	<0.0100	<0.0010	<0.0010	<0.0010	<0.0010	-
MW-17	05/17/2008	-	-	-	-	<0.0100	-	-	-	-	-
MW-17	09/13/2008	-	-	-	1.1	<0.0100	<0.0010	<0.0010	<0.0010	<0.0010	-
MW-17	09/14/2008	-	-	-	-	<0.0100	<0.0010	<0.0010	<0.0010	<0.0010	-
MW-17	05/29/2009	-	45.59	-	<0.0480	<0.010	<0.00050	<0.00050	0.0008	<0.00050	-
MW-17	09/17/2009	-	46.01	-	<0.0530	0.014	<0.00050	<0.00050	0.0014	<0.00050	-
MW-17	05/11/2010	-	45.82	-	<0.0490	<0.010, <0.0100	<0.00050, <0.00050 <sup>1</sup>	<0.00050, <0.00050 <sup>1</sup>	<0.00050, <0.00050 <sup>1</sup>	<0.00050, <0.00050	-
MW-17	09/07/2010	-	45.88	-	-	<0.0100	<0.00050	<0.00050	-	<0.00050	-
MW-17	09/08/2010	-	-	-	0.094 / 0.57	<0.0100 / <0.0100	<0.00050 <sup>1</sup> / <0.00050	<0.00050 <sup>1</sup> / <0.00050	<0.00050 <sup>1</sup> / <0.00050	<0.00050 <sup>1</sup> / <0.00050	-
MW-17	04/20/2011	-	45.75	-	-	-	-	-	-	-	-
MW-17	09/28/2011	-	46.13	-	-	-	-	-	-	-	-
MW-17	09/02/2014	-	45.23	-	-	-	-	-	-	-	-
MW-17	04/15/2015	-	45.61	-	-	-	-	-	-	-	-
MW-17	10/29/2015	-	47.61	-	0.93	<0.0100	<0.00050	-	<0.00050	-	-
MW-17	04/19/2016 <sup>3</sup>	-	45.88	-	-	-	-	-	-	-	-
MW-17	09/23/2016	-	46.08	-	-	-	-	-	-	-	-
MW-17	5/8/2017 <sup>5</sup>	-	-	-	-	-	-	-	-	-	-
MW-17	10/02/2017	-	43.95	-	-	-	-	-	-	-	-
QA	04/19/2016	-	-	-	-	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	-
QA	09/23/2016	-	-	-	-	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	-
QA	05/08/2017	-	-	-	-	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	-
QA	10/3/2017	-	-	-	-	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Table 2

**Historical Groundwater Analytical Results**  
**Former Chevron-Branded Service Station 96097**  
**303 W. Fireweed Ln.**  
**Anchorage, AK**

Location	Date	TOC ft msl	DTW ft btoc	GWE ft msl	HYDROCARBONS		PRIMARY VOCS				
					DRO mg/l	GRO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylene (total) mg/l	MTBE mg/l
<b>ADEC Groundwater Cleanup Levels 2016<sup>a</sup></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>

**Notes and Abbreviations**

TOC = top of casing

DTW = depth to water

GWE = groundwater elevation

DRO = Diesel Range Organics by Alaska Series Method AK102

GRO = Gasoline Range Organics by Alaska Series Method AK101

Benzene, Toluene, Ethylbenzene, and Total Xylenes by SW-846 8021B or 8260B

Total Xylenes = Sum of m-, o-, and p-xylenes

MTBE = Methyl Tertiary-Butyl Ether

ADEC = Alaska Department of Environmental Conservation

<sup>a</sup> = Levels established in ADEC Table C Groundwater Cleanup Levels (18 AAC 75.345)**BOLD** = Indicates concentration above the ADEC Table C Groundwater Cleanup Level

NA = Not Applicable

ft msl = feet above mean sea level

ft btoc = Feet Below Top of Casing

mg/L = Milligrams per Liter

ND = Not detected above laboratory method detection limits

U = Non-detect

J = Estimated value

- = Not Measured/Not Analyzed

&lt;x = Constituent not detected above x milligrams per liter

x / y = Sample Results / Blind Duplicate Results

<sup>1</sup> = BTEX by SW-846 8021B<sup>2</sup> = DRO with Silica Gel Cleanup<sup>3</sup> = Gauge Only<sup>4</sup> = Inaccessible<sup>5</sup> = Obstruction

**Table 3**  
**Current PAH Groundwater Analytical Results**  
**Former Chevron-Branded Service Station 96097**  
**303 W. Fireweed Ln.**  
**Anchorage, AK**

Location ID	Date	Acenaphthene mg/L	Acenaphthylene mg/L	Anthracene mg/L	Benzo(a)anthracene mg/L	Benzo(a)Pyrene mg/L	Benzo(b)Fluoranthene mg/L	Benzo(g,h,i)perylene mg/L	Benzo(k)Fluoranthene mg/L
<b>ADEC Groundwater Cleanup Levels 2016<sup>a</sup></b>		<b>0.53</b>	<b>0.26</b>	<b>0.043</b>	<b>0.00012</b>	<b>0.000034</b>	<b>0.00034</b>	<b>0.00026</b>	<b>0.00080</b>
MW-5	10/02/2017	<0.0000095 / <0.0000095	<0.0000095 / 0.000011 J	<0.0000095 / <0.0000095	0.000018 J / 0.000011 J	0.000052 / 0.00003 J	0.00014 J / 0.00007 J	0.00011 J / 0.000049	0.000031 J / 0.000015 J
MW-7	10/02/2017	0.00012	<0.0000095	<0.0000095	<0.0000095	<0.0000095	<0.0000095	<0.0000095	<0.0000095
MW-9	10/02/2017	0.000011 J	<0.0000097	<0.0000097	<0.0000097	<0.0000097	<0.0000097	<0.0000097	<0.0000097
MW-10R	10/02/2017	0.000095	<0.0000095	<0.0000095	<0.0000095	<0.0000095	<0.0000095	<0.0000095	<0.0000095

**Table 3**  
**Current PAH Groundwater Analytical Results**  
**Former Chevron-Branded Service Station 96097**  
**303 W. Fireweed Ln.**  
**Anchorage, AK**

Location ID	Date	Chrysene mg/L	Dibenz(a,h)anthracene mg/L	Fluorene mg/L	Fluoranthene mg/L	Indeno(1,2,3-cd)pyrene mg/L	Naphthalene mg/L	Phenanthrene mg/L	Pyrene mg/L
<b>ADEC Groundwater Cleanup Levels 2016<sup>a</sup></b>		<b>0.0020</b>	<b>0.000034</b>	<b>0.29</b>	<b>0.26</b>	<b>0.00019</b>	<b>0.0017</b>	<b>0.17</b>	<b>0.12</b>
MW-5	10/02/2017	0.00013 J / 0.000064 J	0.000012 J / <0.0000095	<0.0000095 / <0.0000095	0.00005 / 0.000031 J	0.000037 J / 0.000018 J	<0.000029 / <0.000029	<0.000029 / <0.000029	0.00012 J / 0.000052 J
MW-7	10/02/2017	<0.0000095	<0.0000095	0.000055	<0.0000095	<0.0000095	<b>0.17</b>	0.000032 J	<0.0000095
MW-9	10/02/2017	<0.0000097	<0.0000097	0.000014 J	<0.0000097	<0.0000097	0.00021	<0.000029	<0.0000097
MW-10R	10/02/2017	<0.0000095	<0.0000095	0.000041 J	0.000012 J	<0.0000095	<b>0.028</b>	<0.000029	0.000016 J

**Notes and Abbreviations**

PAH = polynuclear aromatic hydrocarbons

ID = Identification

ADEC = Alaska Department of Environmental Conservation

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

**BOLD** = Indicates concentration above the ADEC Table C Groundwater Cleanup Level

NA = Not Applicable

mg/L = Milligrams per Liter

J = Estimated value

- = Not Measured/Not Analyzed

<x = Constituent not detected above x milligrams per liter

x / y = Sample Results / Blind Duplicate Results

Table 4

**Historical PAH Groundwater Analytical Results  
Former Chevron-Branded Service Station 96097  
303 W. Fireweed Ln.  
Anchorage, AK**

Location ID	Date	Acenaphthene mg/l	Acenaphthylene mg/l	Anthracene mg/l	Benzo(a)anthracene mg/l	Benzo(a)Pyrene mg/l	Benzo(b)Fluoranthene mg/l	Benzo(g,h,i)perylene mg/l	Benzo(k)Fluoranthene mg/l
<b>ADEC Groundwater Cleanup Levels 2016<sup>a</sup></b>		0.53	0.26	0.043	0.00012	0.000034	0.00034	0.00026	0.0008
MW-4R	04/19/2016	--	--	--	--	--	--	--	--
MW-4R	09/23/2016	--	--	--	--	--	--	--	--
MW-4R	05/08/2017	--	--	--	--	--	--	--	--
MW-5	06/11/2004	--	--	--	--	--	--	--	--
MW-5	09/22/2004	--	--	--	--	--	--	--	--
MW-5	05/18/2005	--	--	--	--	--	--	--	--
MW-5	09/28/2005	--	--	--	--	--	--	--	--
MW-5	05/17/2006	--	--	--	--	--	--	--	--
MW-5	09/23/2006	--	--	--	--	--	--	--	--
MW-5	05/29/2009	--	--	--	--	--	--	--	--
MW-5	09/17/2009	--	--	--	--	--	--	--	--
MW-5	05/11/2010	0.00096	0.0015	0.0008	<b>0.0022</b>	<b>0.0016</b>	<b>0.0051</b>	0.0014	0.0017
MW-5	09/07/2010	<0.0010	<0.0010	<0.0010	<b>0.0024</b>	<b>0.0016</b>	<b>0.0034</b>	0.0029	<0.0010
MW-5	04/20/2011	<0.000190	<0.000190	<0.000190	<b>0.00033</b>	<b>0.00032</b>	0.00085	0.00066	<0.000190
MW-5	09/28/2011	0.00013	0.000072	<0.0000110	<b>0.00021</b>	<b>0.00013</b>	0.00031	0.00021	0.00014
MW-5	05/21/2012	<0.0000960	<0.0000960	<0.0000960	<b>0.0021</b>	<b>0.0013</b>	<b>0.0025</b>	0.0019	0.0011
MW-5	09/18/2012	0.0000890 J	0.000130 J	0.000110 J	<b>0.00033</b>	<b>0.000240J</b>	0.0004	0.000220J	0.000240J
MW-5	05/07/2013	<0.0000440/ <0.0000430	<0.0000440/ <0.0000430	<0.0000440/ <0.0000430	<0.0000440/ <0.0000430	<0.0000440/ <0.0000430	<0.000110/ <0.000110	<0.0000440/ <0.0000430	<0.0000440/ <0.0000430
MW-5	09/16/2013	<0.0000400	<0.0000400	<0.0000400	<0.0000400	<0.0000400	<0.0000400	<0.0000400	<0.0000400
MW-5	05/05/2014	<0.0000400/ <0.0000430	<0.0000400/ <0.0000430	<0.0000400/ <0.0000430	<0.0000400/ <0.0000430	<0.0000400/ <0.0000430	<0.0000400/ <0.0000430	<0.0000400/ <0.0000430	<0.0000400/ <0.0000430
MW-5	09/03/2014	0.000048	<0.0000400	<0.0000400	<0.0000400	<0.0000400	<0.0000400	<0.0000400	<0.0000400
MW-5	04/16/2015	0.000140 J	0.000230 J	0.000410 J	<b>0.00082</b>	<b>0.00072</b>	<b>0.0019</b>	0.0011	0.00052
MW-5	10/29/2015	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010J	<0.00010
MW-5	04/19/2016	0.00050 J	0.00036 J	<0.00026	<b>0.0012 J</b>	<b>0.0012 J</b>	<b>0.0031</b>	0.0018	0.00074 J
MW-5	09/23/2016	0.00010	<0.000095	<0.000095	<0.000095	<0.000095	0.000010 J	0.000012 J	<0.000095
MW-5	05/08/2017	0.00057 / 0.00032 J	0.00055 / 0.00062	0.0017 / 0.0013	<b>0.0013 J / 0.0019 J</b>	<b>0.0015 / 0.0018</b>	<b>0.0040 / 0.0050</b>	<b>0.0016 / 0.0020</b>	<b>0.00097 / 0.0012</b>
MW-5	10/02/2017	<0.000095 / <0.000095	<0.000095 / 0.000011 J	<0.000095 / <0.000095	0.000018 J / 0.000011 J	0.000052 / 0.00003 J	0.00014 J / 0.00007 J	0.00011 J / 0.000049	0.000031 J / 0.000015 J
MW-6	06/10/2004	--	--	--	--	--	--	--	--
MW-6	09/22/2004	--	--	--	--	--	--	--	--
MW-6	05/18/2005	--	--	--	--	--	--	--	--
MW-6	09/28/2005	--	--	--	--	--	--	--	--
MW-6	05/17/2006	--	--	--	--	--	--	--	--
MW-6	05/29/2009	--	--	--	--	--	--	--	--
MW-6	09/17/2009	--	--	--	--	--	--	--	--
MW-6	09/23/2016	--	--	--	--	--	--	--	--
MW-6	05/08/2017	--	--	--	--	--	--	--	--
MW-7	05/17/2006	--	--	--	--	--	--	--	--
MW-7	09/23/2006	--	--	--	--	--	--	--	--
MW-7	05/16/2007	--	--	--	--	--	--	--	--
MW-7	09/14/2008	--	--	--	--	--	--	--	--
MW-7	05/29/2009	--	--	--	--	--	--	--	--
MW-7	09/17/2009	--	--	--	--	--	--	--	--
MW-7	05/11/2010	0.00012	0.000061	0.000011	<0.0000950	<0.0000950	0.000012	<0.0000950	<0.0000950
MW-7	09/07/2010	0.00014	0.00007	0.000058	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
MW-7	04/20/2011	0.00019	0.000097	0.000021	<0.0000960	<0.0000960	0.000017	0.00001	<0.0000960
MW-7	09/28/2011	0.00014	<0.000080	<0.0000960	<0.0000960	<0.0000960	<0.0000960	<0.0000960	<0.0000960
MW-7	05/21/2012	0.00018	<0.0000980	<0.0000980	<0.0000980	<0.0000980	<0.0000980	<0.0000980	<0.0000980
MW-7	09/18/2012	0.00011	0.000066	<0.0000980	<0.0000980	<0.0000980	<0.0000980	<0.0000980	<0.0000980
MW-7	05/07/2013	0.00014/0.000088	<0.0000420/ <0.0000440	0.000044/ <0.0000440	<0.0000420/ <0.0000440	<0.0000420/ <0.0000440	<0.000100/ <0.000110	<0.0000420/ <0.0000440	<0.0000420/ <0.0000440
MW-7	09/16/2013	0.00014	0.000081	<0.0000440	<0.0000440	<0.0000440	<0.0000440	<0.0000440	<0.0000440

Table 4

**Historical PAH Groundwater Analytical Results  
Former Chevron-Branded Service Station 96097  
303 W. Fireweed Ln.  
Anchorage, AK**

Location ID	Date	Acenaphthene mg/l	Acenaphthylene mg/l	Anthracene mg/l	Benzo(a)anthracene mg/l	Benzo(a)Pyrene mg/l	Benzo(b)Fluoranthene mg/l	Benzo(g,h,i)perylene mg/l	Benzo(k)Fluoranthene mg/l
<b>ADEC Groundwater Cleanup Levels 2016<sup>a</sup></b>		0.53	0.26	0.043	0.00012	0.000034	0.00034	0.00026	0.0008
MW-7	05/02/2014	0.00018/0.00012	0.000082/0.000056	<0.0000420/ <0.0000430	<0.0000420/ <0.0000430	<0.0000420/ <0.0000430	<0.0000420/ <0.0000430	<0.0000420/ <0.0000430	<0.0000420/ <0.0000430
MW-7	09/03/2014	0.00015	0.000056	<0.0000420	<0.0000420	<0.0000420	<0.0000420	<0.0000420	<0.0000420
MW-7	04/16/2015	0.00022	0.0001	0.0000280 J	<0.00000980	<0.00000980	<0.00000980	<0.00000980	<0.00000980
MW-7	10/29/2015	0.00030 J	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
MW-7	04/19/2016	--	--	--	--	--	--	--	--
MW-7	09/23/2016	0.00016 J / 0.00025 J	0.000070 / 0.000080	0.000016 J / 0.000018 J	<0.0000098/ <0.0000097	<0.0000098/ <0.0000097	<0.0000098/ <0.0000097	<0.0000098/ <0.0000097	<0.0000098/ <0.0000097
MW-7	05/08/2017 <sup>1</sup>	--	--	--	--	--	--	--	--
MW-7	10/02/2017	0.00012	<0.0000095	<0.0000095	<0.0000095	<0.0000095	<0.0000095	<0.0000095	<0.0000095
MW-8	05/31/2009	--	--	--	--	--	--	--	--
MW-8	09/18/2009	--	--	--	--	--	--	--	--
MW-8	04/19/2016	--	--	--	--	--	--	--	--
MW-8	09/23/2016	--	--	--	--	--	--	--	--
MW-8	05/08/2017	--	--	--	--	--	--	--	--
MW-9	05/29/2009	--	--	--	--	--	--	--	--
MW-9	09/17/2009	--	--	--	--	--	--	--	--
MW-9	04/20/2011	0.00013	0.000033	<0.0000980	<0.0000980	<0.0000980	0.000013	0.000011	<0.0000980
MW-9	09/28/2011	0.00014	<0.000020	<0.0000960	<0.0000960	<0.0000960	<0.0000960	<0.0000960	<0.0000960
MW-9	05/21/2012	0.00015	0.000026	<0.0000110	<0.0000110	<0.0000110	0.000018	0.000013	<0.0000110
MW-9	09/18/2012	0.00013	0.0000310J	<0.0000970	<0.0000970	<0.0000970	0.0000120J	<0.0000970	<0.0000970
MW-9	05/07/2013	0.000088	<0.0000430	<0.0000420	<0.0000430	<0.0000430	<0.000100	<0.0000420	<0.0000420
MW-9	05/07/2013	0.000082	<0.0000420	<0.0000430	<0.0000420	<0.0000420	<0.000110	<0.0000430	<0.0000430
MW-9	09/16/2013	0.00015	<0.0000410	<0.0000410	<0.0000410	<0.0000410	<0.0000410	<0.0000410	<0.0000410
MW-9	05/05/2014	<0.0000430	<0.0000430	<0.0000430	<0.0000430	<0.0000430	<0.0000430	<0.0000430	<0.0000430
MW-9	05/05/2014	<0.0000430	<0.0000430	<0.0000430	<0.0000430	<0.0000430	<0.0000430	<0.0000430	<0.0000430
MW-9	09/03/2014	<0.0000420	<0.0000420	<0.0000420	<0.0000420	<0.0000420	0.000071	0.000085	<0.0000420
MW-9	04/16/2015	0.00015	0.0000220J	<0.0000940	<0.0000940	0.0000110 J	0.0000300J	0.0000280J	0.0000100J
MW-9	10/29/2015	0.00020 J	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
MW-9	04/19/2016	0.00017	0.000017 J	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097
MW-9	09/23/2016	<0.000095	<0.000095	0.000096 J	<b>0.00043 J</b>	<b>0.00047 J</b>	<b>0.0010</b>	0.00084	0.00043 J
MW-9	05/08/2017	0.00013	0.000014 J	<0.000095	<0.000095	<0.000095	0.000018 J	<0.000095	<0.000095
MW-9	10/02/2017	0.00011 J	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097
MW-10R	09/28/2011	0.00053	<0.000390	<0.0000950	0.000031	0.000017	0.00003	0.000024	0.000017
MW-10R	05/21/2012	0.00041	0.00029	0.000079	0.000028	<0.0000970	0.000011	0.000019	<0.0000970
MW-10R	09/18/2012	0.00027	0.00015	0.0000190 J	<0.0000980	<0.0000980	<0.0000980	<0.0000980	<0.0000980
MW-10R	05/07/2013	0.000087	<0.0000450	<0.0000440	<0.0000450	<0.0000450	<0.000110	<0.0000440	<0.0000440
MW-10R	05/07/2013	0.000077	<0.0000440	<0.0000450	<0.0000440	<0.0000440	<0.000110	<0.0000450	<0.0000450
MW-10R	09/16/2013	0.00085	0.000085	<0.0000420	<0.0000420	<0.0000420	<0.0000420	<0.0000420	<0.0000420
MW-10R	05/02/2014	0.00014	0.00007	<0.0000420	<0.0000420	<0.0000420	<0.0000410	<0.0000410	<0.0000410
MW-10R	05/02/2014	0.00019	0.000079	<0.0000410	<0.0000410	<0.0000410	<0.0000420	<0.0000420	<0.0000420
MW-10R	09/03/2014	0.0002	0.000083	<0.0000400	<0.0000400	<0.0000400	<0.0000400	<0.0000400	<0.0000400
MW-10R	04/16/2015	0.00063	0.00039	0.00025	<b>0.00015</b>	0.0000350 J	0.0000380J	0.0000320J	0.0000260J
MW-10R	10/29/2015	0.00030 J	<0.00010	<0.00010	<b>0.00020 J</b>	<0.00010	<0.00010	<0.00010	<0.00010
MW-10R	04/19/2016	0.00034	0.00012 J	0.000094 J	0.00011 J	<0.000052	<0.000052	<0.000052	<0.000052
MW-10R	09/23/2016	0.00087	0.000023 J	0.000011 J	0.00002 J	<0.000098	<0.000098	<0.000098	<0.000098
MW-10R	05/08/2017	0.00069	0.00034 J	0.00026 J	<b>0.00028 J</b>	<0.00010	<b>0.00041 J</b>	0.00016 J	0.00014 J
MW-10R	10/02/2017	0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095
MW-12	05/29/2009	--	--	--	--	--	--	--	--
MW-12	09/18/2009	--	--	--	--	--	--	--	--
MW-12	04/20/2011	<0.0000970	<0.0000970	<0.0000970	<0.0000970	<0.0000970	<0.0000970	<0.0000970	<0.0000970

**Table 4**  
**Historical PAH Groundwater Analytical Results**  
**Former Chevron-Branded Service Station 96097**  
**303 W. Fireweed Ln.**  
**Anchorage, AK**

Location ID	Date	Acenaphthene mg/l	Acenaphthylene mg/l	Anthracene mg/l	Benzo(a)anthracene mg/l	Benzo(a)Pyrene mg/l	Benzo(b)Fluoranthene mg/l	Benzo(g,h,i)perylene mg/l	Benzo(k)Fluoranthene mg/l
<b>ADEC Groundwater Cleanup Levels 2016<sup>a</sup></b>		0.53	0.26	0.043	0.00012	0.000034	0.00034	0.00026	0.0008
MW-12	09/23/2016	--	--	--	--	--	--	--	--
MW-12	05/08/2017	--	--	--	--	--	--	--	--
MW-13	05/31/2009	--	--	--	--	--	--	--	--
MW-13	09/18/2009	--	--	--	--	--	--	--	--
MW-13	09/23/2016	--	--	--	--	--	--	--	--
MW-13	05/08/2017	--	--	--	--	--	--	--	--
MW-14	05/31/2009	--	--	--	--	--	--	--	--
MW-14	09/18/2009	--	--	--	--	--	--	--	--
MW-14	09/23/2016	--	--	--	--	--	--	--	--
MW-14	05/08/2017	--	--	--	--	--	--	--	--
MW-15	05/31/2009	--	--	--	--	--	--	--	--
MW-15	09/18/2009	--	--	--	--	--	--	--	--
MW-15	09/23/2016	--	--	--	--	--	--	--	--
MW-15	05/08/2017	--	--	--	--	--	--	--	--
MW-16	05/31/2009	--	--	--	--	--	--	--	--
MW-16	09/18/2009	--	--	--	--	--	--	--	--
MW-16	09/23/2016	--	--	--	--	--	--	--	--
MW-16	05/08/2017	--	--	--	--	--	--	--	--
MW-17	05/16/2007	--	--	--	--	--	--	--	--
MW-17	09/14/2008	--	--	--	--	--	--	--	--
MW-17	05/29/2009	--	--	--	--	--	--	--	--
MW-17	09/17/2009	--	--	--	--	--	--	--	--
MW-17	09/23/2016	--	--	--	--	--	--	--	--
MW-17	05/08/2017	--	--	--	--	--	--	--	--
QA	04/19/2016	--	--	--	--	--	--	--	--
QA	09/23/2016	--	--	--	--	--	--	--	--
QA	05/08/2017	--	--	--	--	--	--	--	--



Table 4

**Historical PAH Groundwater Analytical Results  
Former Chevron-Branded Service Station 96097  
303 W. Fireweed Ln.  
Anchorage, AK**

Location ID	Date	Chrysene mg/l	Dibenz(a,h)anthracene mg/l	Fluorene mg/l	Fluoranthene mg/l	Indeno(1,2,3-cd)pyrene mg/l	Naphthalene mg/l	Phenanthrene mg/l	Pyrene mg/l
<b>ADEC Groundwater Cleanup Levels 2016<sup>a</sup></b>									
		0.002	0.000034	0.29	0.26	0.00019	0.0017	0.17	0.12
MW-4R	04/19/2016	--	--	--	--	--	--	--	--
MW-4R	09/23/2016	--	--	--	--	--	--	--	--
MW-4R	05/08/2017	--	--	--	--	--	--	--	--
MW-5	06/11/2004	--	--	--	--	--	--	--	--
MW-5	09/22/2004	--	--	--	--	--	--	--	--
MW-5	05/18/2005	--	--	--	--	--	--	--	--
MW-5	09/28/2005	--	--	--	--	--	--	--	--
MW-5	05/17/2006	--	--	--	--	--	--	--	--
MW-5	09/23/2006	--	--	--	--	--	--	--	--
MW-5	05/29/2009	--	--	--	--	--	--	--	--
MW-5	09/17/2009	--	--	--	--	--	--	--	--
MW-5	05/11/2010	0.0043	<b>0.00025</b>	0.0031	0.0056	<b>0.00079</b>	<b>0.0067</b>	0.0035	0.0068
MW-5	09/07/2010	0.0041	<0.0010	<0.0010	0.0066	<b>0.0011</b>	<b>0.0027</b>	0.004	0.0057
MW-5	04/20/2011	0.00086	<0.000190	0.00042	0.00089	<b>0.00029</b>	0.00058	0.00062	0.001
MW-5	09/28/2011	0.00043	0.000033	0.0003	0.00046	0.000088	0.00076	0.00054	0.00065
MW-5	05/21/2012	0.0036	<b>0.00023</b>	0.002	0.0045	<b>0.00069</b>	<b>0.0046</b>	0.0046	0.0056
MW-5	09/18/2012	0.00049	0.0000670J	0.0000870J	0.00064	<b>0.000120 J</b>	0.00044	0.000170J	0.00071
MW-5	05/07/2013	<0.0000440/ <0.0000430	<0.0000440/ <0.0000430	<0.0000440/ <0.0000430	<0.0000440/ <0.0000430	<0.0000440/ <0.0000430	<0.0000440/ <0.0000430	<0.0000440/ <0.0000430	<0.0000440/ <0.0000430
MW-5	09/16/2013	<0.0000400	<0.0000400	<0.0000400	<0.0000400	<0.0000400	<0.0000400	<0.0000400	<0.0000400
MW-5	05/05/2014	<0.0000400/ <0.0000430	<0.0000400/ <0.0000430	0.000065/ <0.0000430	<0.0000400/ <0.0000430	<0.0000400/ <0.0000430	0.00020.000059	<0.0000400/ <0.0000430	<0.0000400/ <0.0000430
MW-5	09/03/2014	<0.0000400	<0.0000400	0.000054	<0.0000400	<0.0000400	<b>0.0019</b>	<0.0000400	<0.0000400
MW-5	04/16/2015	0.0025	<b>0.000130J</b>	0.00062	0.002	<b>0.000430 J</b>	0.00084	0.0014	0.0025
MW-5	10/29/2015	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
MW-5	04/19/2016	0.0038	<b>0.00028 J</b>	0.00080 J	0.0032	<b>0.00075 J</b>	0.00085 J	0.0025	0.0050
MW-5	09/23/2016	<0.0000095	<0.0000095	0.00012	0.00010 J	<0.0000095	0.00081	<0.000029	0.000013 J
MW-5	05/08/2017	<b>0.0041 / 0.0048</b>	<b>0.00021 J / 0.00030 J</b>	0.0011 / 0.0014	0.0033 / 0.0039	0.00070 / 0.00080	0.0013 / 0.0014	0.0028 J / 0.0037 J	0.0062 / 0.010
MW-5	10/02/2017	0.00013 J / 0.000064 J	0.000012 J / <0.0000095	<0.0000095 / <0.0000095	0.00005 / 0.000031 J	0.000037 J / 0.000018 J	<0.000029 / <0.000029	<0.000029 / <0.000029	0.00012 J / 0.000052 J
MW-6	06/10/2004	--	--	--	--	--	--	--	--
MW-6	09/22/2004	--	--	--	--	--	--	--	--
MW-6	05/18/2005	--	--	--	--	--	--	--	--
MW-6	09/28/2005	--	--	--	--	--	--	--	--
MW-6	05/17/2006	--	--	--	--	--	--	--	--
MW-6	05/29/2009	--	--	--	--	--	--	--	--
MW-6	09/17/2009	--	--	--	--	--	--	--	--
MW-6	09/23/2016	--	--	--	--	--	--	--	--
MW-6	05/08/2017	--	--	--	--	--	--	--	--
MW-7	05/17/2006	--	--	--	--	--	--	--	--
MW-7	09/23/2006	--	--	--	--	--	--	--	--
MW-7	05/16/2007	--	--	--	--	--	--	--	--
MW-7	09/14/2008	--	--	--	--	--	--	--	--
MW-7	05/29/2009	--	--	--	--	--	--	--	--
MW-7	09/17/2009	--	--	--	--	--	--	--	--
MW-7	05/11/2010	0.00001	<0.00000950	0.00007	0.000018	<0.00000950	<b>0.45</b>	0.000092	0.000013
MW-7	09/07/2010	<0.000010	<0.000010	0.000076	0.000012	<0.000010	<b>0.45</b>	0.00007	<0.000010
MW-7	04/20/2011	0.000017	<0.00000960	0.00013	0.00003	<0.00000960	<b>0.39</b>	0.0001	0.000032
MW-7	09/28/2011	<0.00000960	<0.00000960	0.000065	<0.00000960	<0.00000960	<b>0.38</b>	0.000036	<0.00000960
MW-7	05/21/2012	<0.0000980	<0.0000980	<0.0000980	<0.0000980	<0.0000980	<b>0.37</b>	<0.000290	<0.0000980
MW-7	09/18/2012	<0.0000980	<0.0000980	0.00006	<0.0000980	<0.0000980	<b>0.34</b>	0.0000410 J	<0.0000980
MW-7	05/07/2013	<0.0000420/ <0.0000440	<0.0000420/ <0.0000440	0.000054/ <0.0000440	<0.0000420/ <0.0000440	<0.0000420/ <0.0000440	<b>0.35/0.208</b>	<0.0000420/ <0.0000440	<0.0000420/ <0.0000440
MW-7	09/16/2013	<0.0000440	<0.0000440	0.000078	<0.0000440	<0.0000440	<b>0.336</b>	<0.0000440	<0.0000440

Table 4

**Historical PAH Groundwater Analytical Results  
Former Chevron-Branded Service Station 96097  
303 W. Fireweed Ln.  
Anchorage, AK**

Location ID	Date	Chrysene mg/l	Dibenz(a,h)anthracene mg/l	Fluorene mg/l	Fluoranthene mg/l	Indeno(1,2,3-cd)pyrene mg/l	Naphthalene mg/l	Phenanthrene mg/l	Pyrene mg/l
<b>ADEC Groundwater Cleanup Levels 2016<sup>a</sup></b>		0.002	0.000034	0.29	0.26	0.00019	0.0017	0.17	0.12
MW-7	05/02/2014	<0.0000420/ <0.0000430	<0.0000420/ <0.0000430	0.000083/0.000054	<0.0000420/ <0.0000430	<0.0000420/ <0.0000430	<b>0.241/0.183</b>	0.000044/ <0.0000430	<0.0000420/ <0.0000430
MW-7	09/03/2014	<0.0000420	<0.0000420	0.000074	<0.0000420	<0.0000420	<b>0.25</b>	0.000057	<0.0000420
MW-7	04/16/2015	0.0000100J	<0.00000980	0.00014	0.0000200 J	<0.00000980	<b>0.3</b>	0.00015	0.0000230 J
MW-7	10/29/2015	<0.00010	<0.00010	0.00020J	<0.00010	<0.00010	<b>0.3</b>	0.00030 J	<0.00010
MW-7	04/19/2016	--	--	--	--	--	--	--	--
MW-7	09/23/2016	<0.0000098/<0.0000097	<0.0000098/<0.0000097	0.000090 / 0.00011	0.000016 J / 0.000013 J	<0.0000098/<0.0000097	<b>0.27 / 0.27</b>	0.00011 / 0.00011	0.000016 J / 0.000016 J
MW-7	05/08/2017 <sup>1</sup>	--	--	--	--	--	--	--	--
MW-7	10/02/2017	<0.0000095	<0.0000095	0.000055	<0.0000095	<0.0000095	<b>0.17</b>	0.000032 J	<0.0000095
MW-8	05/31/2009	--	--	--	--	--	--	--	--
MW-8	09/18/2009	--	--	--	--	--	--	--	--
MW-8	04/19/2016	--	--	--	--	--	--	--	--
MW-8	09/23/2016	--	--	--	--	--	--	--	--
MW-8	05/08/2017	--	--	--	--	--	--	--	--
MW-9	05/29/2009	--	--	--	--	--	--	--	--
MW-9	09/17/2009	--	--	--	--	--	--	--	--
MW-9	04/20/2011	0.000014	<0.00000980	0.00023	0.000022	<0.00000980	<b>0.015</b>	0.000046	0.000013
MW-9	09/28/2011	<0.00000960	<0.00000960	0.00027	0.000014	<0.00000960	<b>0.012</b>	0.00003	0.000014
MW-9	05/21/2012	0.000022	<0.0000110	0.00028	0.00002	<0.0000110	<b>0.0077</b>	0.000061	0.000023
MW-9	09/18/2012	<0.00000970	<0.00000970	0.00025	0.0000120 J	<0.00000970	<b>0.0081</b>	0.0000320 J	0.0000150 J
MW-9	05/07/2013	<0.0000420	<0.0000420	0.000095	<0.0000430	<0.0000430	0.00076	<0.0000420	<0.0000430
MW-9	05/07/2013	<0.0000430	<0.0000430	0.00011	<0.0000420	<0.0000420	<b>0.0025</b>	<0.0000430	<0.0000420
MW-9	09/16/2013	<0.0000410	<0.0000410	0.00021	<0.0000410	<0.0000410	<b>0.0037</b>	<0.0000410	<0.0000410
MW-9	05/05/2014	<0.0000430	<0.0000430	<0.0000430	<0.0000430	<0.0000430	0.00045	<0.0000430	<0.0000430
MW-9	05/05/2014	<0.0000430	<0.0000430	<0.0000430	<0.0000430	<0.0000430	0.00047	<0.0000430	<0.0000430
MW-9	09/03/2014	0.00011	<0.0000420	<0.0000420	0.000086	<0.0000420	<0.0000420	<0.0000420	0.00014
MW-9	04/16/2015	0.000048	<0.00000940	0.00016	0.0000330 J	0.0000120 J	<b>0.0044</b>	0.0000400 J	0.0000250 J
MW-9	10/29/2015	<0.00010	<0.00010	0.00030J	<0.00010	<0.00010	<b>0.002</b>	<0.00010	<0.00010
MW-9	04/19/2016	<0.0000097	<0.0000097	0.00029	<0.0000097	<0.0000097	<b>0.0021</b>	<0.000029	<0.0000097
MW-9	09/23/2016	0.0013	<b>0.00011 J</b>	0.00014 J	<b>0.0010</b>	<b>0.00035 J</b>	0.00053 J	0.00066	0.0013
MW-9	05/08/2017	0.000019 J	<0.0000095	0.00023	0.000019 J	<0.0000095	0.0018	0.000042 J	0.000029 J
MW-9	10/02/2017	<0.0000097	<0.0000097	0.000014 J	<0.0000097	<0.0000097	0.00021	<0.000029	<0.0000097
MW-10R	09/28/2011	0.000018	<0.00000950	0.00034	0.000059	<0.00000950	<b>0.13</b>	0.00029	0.000071
MW-10R	05/21/2012	0.000024	<0.00000970	0.00026	0.000096	<0.00000970	<b>0.069</b>	0.00025	0.000088
MW-10R	09/18/2012	<0.00000980	<0.00000980	0.00012	0.0000190 J	<0.00000980	<b>0.04</b>	0.000071	0.0000230 J
MW-10R	05/07/2013	<0.0000440	<0.0000440	<0.0000450	<0.0000450	<0.0000450	<b>0.0107</b>	<0.0000440	<0.0000450
MW-10R	05/07/2013	<0.0000450	<0.0000450	<0.0000440	<0.0000440	<0.0000440	<b>0.0071</b>	<0.0000450	<0.0000440
MW-10R	09/16/2013	<0.0000420	<0.0000420	0.00008	<0.0000420	<0.0000420	<b>0.036</b>	0.000051	<0.0000420
MW-10R	05/02/2014	<0.0000410	<0.0000410	0.000062	<0.0000420	<0.0000420	<b>0.0488</b>	<0.0000410	<0.0000410
MW-10R	05/02/2014	<0.0000420	<0.0000420	0.000075	<0.0000410	<0.0000410	<b>0.0355</b>	0.000044	<0.0000420
MW-10R	09/03/2014	<0.0000400	<0.0000400	0.000088	<0.0000400	<0.0000400	<b>0.0646</b>	0.000057	<0.0000400
MW-10R	04/16/2015	0.00012	<0.00000960	0.00049	0.00036	0.0000110 J	<b>0.15</b>	0.0008	0.00049
MW-10R	10/29/2015	<0.00010	<0.00010	0.00020J	0.00020 J	<0.00010	<b>0.014</b>	0.0006	0.00040 J
MW-10R	04/19/2016	0.000082 J	<0.0000052	0.00021 J	0.00019 J	<0.0000052	<b>0.021</b>	0.00034	0.00038
MW-10R	09/23/2016	0.000015 J	<0.0000098	0.00003 J	0.000036 J	<0.0000098	<b>0.0089</b>	<0.000029	0.000051
MW-10R	05/08/2017	0.00026 J	<0.00010	0.00050 J	0.00047 J	<0.00010	<b>0.030</b>	0.0010	0.0012
MW-10R	10/02/2017	<0.0000095	<0.0000095	0.000041 J	0.000012 J	<0.0000095	<b>0.028</b>	<0.000029	0.000016 J
MW-12	05/29/2009	--	--	--	--	--	--	--	--
MW-12	09/18/2009	--	--	--	--	--	--	--	--
MW-12	04/20/2011	<0.00000970	<0.00000970	<0.00000970	<0.00000970	<0.00000970	<0.0000290	0.000011	<0.00000970

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**Historical PAH Groundwater Analytical Results**  
**Former Chevron-Branded Service Station 96097**  
**303 W. Fireweed Ln.**  
**Anchorage, AK**

Location ID	Date	Chrysene mg/l	Dibenz(a,h)anthracene mg/l	Fluorene mg/l	Fluoranthene mg/l	Indeno(1,2,3-cd)pyrene mg/l	Naphthalene mg/l	Phenanthrene mg/l	Pyrene mg/l
<b>ADEC Groundwater Cleanup Levels 2016<sup>a</sup></b>		0.002	0.000034	0.29	0.26	0.00019	0.0017	0.17	0.12
MW-12	09/23/2016	--	--	--	--	--	--	--	--
MW-12	05/08/2017	--	--	--	--	--	--	--	--
MW-13	05/31/2009	--	--	--	--	--	--	--	--
MW-13	09/18/2009	--	--	--	--	--	--	--	--
MW-13	09/23/2016	--	--	--	--	--	--	--	--
MW-13	05/08/2017	--	--	--	--	--	--	--	--
MW-14	05/31/2009	--	--	--	--	--	--	--	--
MW-14	09/18/2009	--	--	--	--	--	--	--	--
MW-14	09/23/2016	--	--	--	--	--	--	--	--
MW-14	05/08/2017	--	--	--	--	--	--	--	--
MW-15	05/31/2009	--	--	--	--	--	--	--	--
MW-15	09/18/2009	--	--	--	--	--	--	--	--
MW-15	09/23/2016	--	--	--	--	--	--	--	--
MW-15	05/08/2017	--	--	--	--	--	--	--	--
MW-16	05/31/2009	--	--	--	--	--	--	--	--
MW-16	09/18/2009	--	--	--	--	--	--	--	--
MW-16	09/23/2016	--	--	--	--	--	--	--	--
MW-16	05/08/2017	--	--	--	--	--	--	--	--
MW-17	05/16/2007	--	--	--	--	--	--	--	--
MW-17	09/14/2008	--	--	--	--	--	--	--	--
MW-17	05/29/2009	--	--	--	--	--	--	--	--
MW-17	09/17/2009	--	--	--	--	--	--	--	--
MW-17	09/23/2016	--	--	--	--	--	--	--	--
MW-17	05/08/2017	--	--	--	--	--	--	--	--
QA	04/19/2016	--	--	--	--	--	--	--	--
QA	09/23/2016	--	--	--	--	--	--	--	--
QA	05/08/2017	--	--	--	--	--	--	--	--

**Notes and Abbreviations**

PAH = polynuclear aromatic hydrocarbons

ID = Identification

ADEC = Alaska Department of Environmental Conservation

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

**BOLD** = Indicates concentration above the ADEC Table C Groundwater Cleanup Level

NA = Not Applicable

mg/L = Milligrams per Liter

J = Estimated value

- = Not Measured/Not Analyzed

<x = Constituent not detected above x milligrams per liter

x / y = Sample Results / Blind Duplicate Results

<sup>1</sup> = Inaccessible

# Appendix A

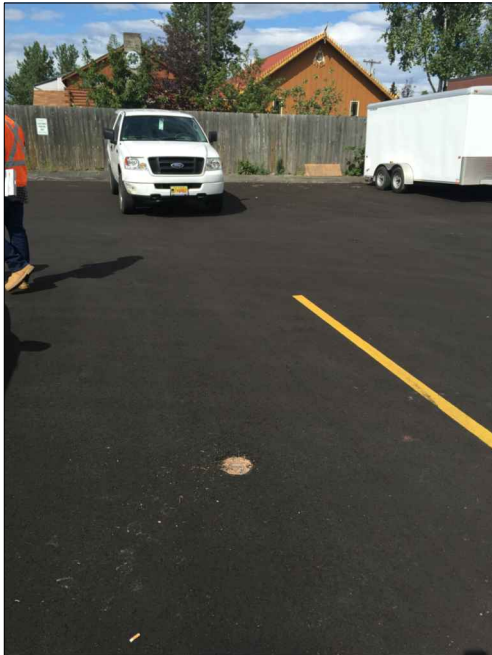
## Site Photographs



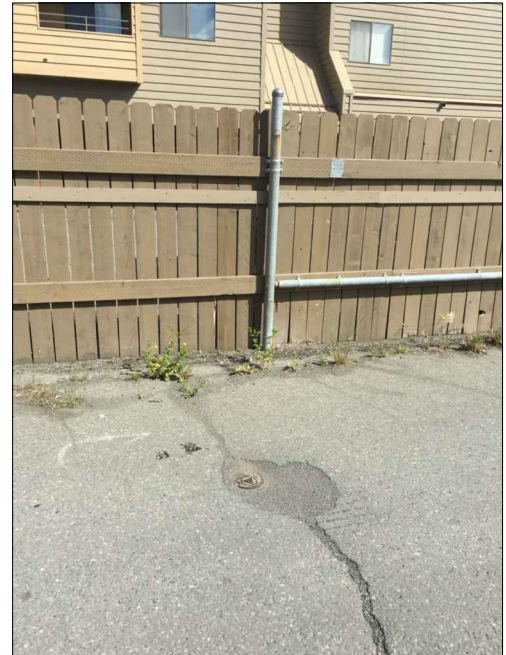
1. Site overview, looking south



2. Well MW-4R



3. Well MW-15



4. Well MW-12



FORMER CHEVRON-BRANDED SERVICE STATION 96097  
303 WEST FIREWEED LANE  
ANCHORAGE, ALASKA

SITE PHOTOGRAPHS

062328-95  
Oct 19, 2016

# Appendix B

## Human Health Conceptual Site Model Scoping and Graphics Forms

# Appendix A - Human Health Conceptual Site Model Scoping Form and Standardized Graphic

Site Name:

File Number:

Completed by:

## Introduction

The form should be used to reach agreement with the Alaska Department of Environmental Conservation (DEC) about which exposure pathways should be further investigated during site characterization. From this information, summary text about the CSM and a graphic depicting exposure pathways should be submitted with the site characterization work plan and updated as needed in later reports.

*General Instructions: Follow the italicized instructions in each section below.*

## 1. General Information:

**Sources** (*check potential sources at the site*)

- |  |  |
|--|--|
| <input type="checkbox"/> USTs                          | <input type="checkbox"/> Vehicles                    |
| <input type="checkbox"/> ASTs                          | <input type="checkbox"/> Landfills                   |
| <input type="checkbox"/> Dispensers/fuel loading racks | <input type="checkbox"/> Transformers                |
| <input type="checkbox"/> Drums                         | <input type="checkbox"/> Other: <input type="text"/> |

**Release Mechanisms** (*check potential release mechanisms at the site*)

- |                                 |  |
|---------------------------------|--|
| <input type="checkbox"/> Spills | <input type="checkbox"/> Direct discharge            |
| <input type="checkbox"/> Leaks  | <input type="checkbox"/> Burning                     |
|                                 | <input type="checkbox"/> Other: <input type="text"/> |

**Impacted Media** (*check potentially-impacted media at the site*)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface soil (0-2 feet bgs*)  | <input type="checkbox"/> Groundwater                 |
| <input type="checkbox"/> Subsurface soil (>2 feet bgs) | <input type="checkbox"/> Surface water               |
| <input type="checkbox"/> Air                           | <input type="checkbox"/> Biota                       |
| <input type="checkbox"/> Sediment                      | <input type="checkbox"/> Other: <input type="text"/> |

**Receptors** (*check receptors that could be affected by contamination at the site*)

- |  |  |
|--|--|
| <input type="checkbox"/> Residents (adult or child)                      | <input type="checkbox"/> Site visitor                |
| <input type="checkbox"/> Commercial or industrial worker                 | <input type="checkbox"/> Trespasser                  |
| <input type="checkbox"/> Construction worker                             | <input type="checkbox"/> Recreational user           |
| <input type="checkbox"/> Subsistence harvester (i.e. gathers wild foods) | <input type="checkbox"/> Farmer                      |
| <input type="checkbox"/> Subsistence consumer (i.e. eats wild foods)     | <input type="checkbox"/> Other: <input type="text"/> |

\* bgs - below ground surface

**2. Exposure Pathways:** *(The answers to the following questions will identify complete exposure pathways at the site. Check each box where the answer to the question is "yes".)*

a) Direct Contact -

1. Incidental Soil Ingestion

Are contaminants present or potentially present in surface soil between 0 and 15 feet below the ground surface? (Contamination at deeper depths may require evaluation on a site-specific basis.)

*If the box is checked, label this pathway complete:*

Comments:

2. Dermal Absorption of Contaminants from Soil

Are contaminants present or potentially present in surface soil between 0 and 15 feet below the ground surface? (Contamination at deeper depths may require evaluation on a site specific basis.)

Can the soil contaminants permeate the skin (see Appendix B in the guidance document)?

*If both boxes are checked, label this pathway complete:*

Comments:

b) Ingestion -

1. Ingestion of Groundwater

Have contaminants been detected or are they expected to be detected in the groundwater, or are contaminants expected to migrate to groundwater in the future?

Could the potentially affected groundwater be used as a current or future drinking water source? Please note, only leave the box unchecked if DEC has determined the groundwater is not a currently or reasonably expected future source of drinking water according to 18 AAC 75.350.

*If both boxes are checked, label this pathway complete:*

Comments:



## 2. Ingestion of Surface Water

Have contaminants been detected or are they expected to be detected in surface water, or are contaminants expected to migrate to surface water in the future?

Could potentially affected surface water bodies be used, currently or in the future, as a drinking water source? Consider both public water systems and private use (i.e., during residential, recreational or subsistence activities).

*If both boxes are checked, label this pathway complete:*

Comments:

## 3. Ingestion of Wild and Farmed Foods

Is the site in an area that is used or reasonably could be used for hunting, fishing, or harvesting of wild or farmed foods?

Do the site contaminants have the potential to bioaccumulate (see Appendix C in the guidance document)?

Are site contaminants located where they would have the potential to be taken up into biota? (i.e. soil within the root zone for plants or burrowing depth for animals, in groundwater that could be connected to surface water, etc.)

*If all of the boxes are checked, label this pathway complete:*

Comments:

### c) Inhalation-

#### 1. Inhalation of Outdoor Air

Are contaminants present or potentially present in surface soil between 0 and 15 feet below the ground surface? (Contamination at deeper depths may require evaluation on a site specific basis.)

Are the contaminants in soil volatile (see Appendix D in the guidance document)?

*If both boxes are checked, label this pathway complete:*

Comments:

## 2. Inhalation of Indoor Air

Are occupied buildings on the site or reasonably expected to be occupied or placed on the site in an area that could be affected by contaminant vapors? (within 30 horizontal or vertical feet of petroleum contaminated soil or groundwater; within 100 feet of non-petroleum contaminated soil or groundwater; or subject to "preferential pathways," which promote easy airflow like utility conduits or rock fractures)

Are volatile compounds present in soil or groundwater (see Appendix D in the guidance document)?

*If both boxes are checked, label this pathway complete:*

Comments:

**3. Additional Exposure Pathways:** *(Although there are no definitive questions provided in this section, these exposure pathways should also be considered at each site. Use the guidelines provided below to determine if further evaluation of each pathway is warranted.)*

**Dermal Exposure to Contaminants in Groundwater and Surface Water**

Dermal exposure to contaminants in groundwater and surface water may be a complete pathway if:

- Climate permits recreational use of waters for swimming.
- Climate permits exposure to groundwater during activities, such as construction.
- Groundwater or surface water is used for household purposes, such as bathing or cleaning.

Generally, DEC groundwater cleanup levels in 18 AAC 75, Table C, are deemed protective of this pathway because dermal absorption is incorporated into the groundwater exposure equation for residential uses.

*Check the box if further evaluation of this pathway is needed:*

Comments:

**Inhalation of Volatile Compounds in Tap Water**

Inhalation of volatile compounds in tap water may be a complete pathway if:

- The contaminated water is used for indoor household purposes such as showering, laundering, and dish washing.
- The contaminants of concern are volatile (common volatile contaminants are listed in Appendix D in the guidance document.)

DEC groundwater cleanup levels in 18 AAC 75, Table C are protective of this pathway because the inhalation of vapors during normal household activities is incorporated into the groundwater exposure equation.

*Check the box if further evaluation of this pathway is needed:*

Comments:

## Inhalation of Fugitive Dust

Inhalation of fugitive dust may be a complete pathway if:

- Nonvolatile compounds are found in the top 2 centimeters of soil. The top 2 centimeters of soil are likely to be dispersed in the wind as dust particles.
- Dust particles are less than 10 micrometers (Particulate Matter - PM<sub>10</sub>). Particles of this size are called respirable particles and can reach the pulmonary parts of the lungs when inhaled.

DEC human health soil cleanup levels in Table B1 of 18 AAC 75 are protective of this pathway because the inhalation of particulates is incorporated into the soil exposure equation.

*Check the box if further evaluation of this pathway is needed:*

Comments:

## Direct Contact with Sediment

This pathway involves people's hands being exposed to sediment, such as during some recreational, subsistence, or industrial activity. People then incidentally ingest sediment from normal hand-to-mouth activities. In addition, dermal absorption of contaminants may be of concern if the the contaminants are able to permeate the skin (see Appendix B in the guidance document). This type of exposure should be investigated if:

- Climate permits recreational activities around sediment.
- The community has identified subsistence or recreational activities that would result in exposure to the sediment, such as clam digging.

Generally, DEC direct contact soil cleanup levels in 18 AAC 75, Table B1, are assumed to be protective of direct contact with sediment.

*Check the box if further evaluation of this pathway is needed:*

Comments:

**4. Other Comments** *(Provide other comments as necessary to support the information provided in this form.)*

[Empty box for providing other comments]

# HUMAN HEALTH CONCEPTUAL SITE MODEL GRAPHIC FORM

Site: Chevron 96097  
 File ID: 2100.26.007

Completed By: GHD Services, Inc.  
 Date Completed: 6/16/17

**Instructions:** Follow the numbered directions below. Do not consider contaminant concentrations or engineering/land use controls when describing pathways.

(1) Media	(2) Transport Mechanisms
<input type="checkbox"/> Surface Soil (0-2 ft bgs)	<input checked="" type="checkbox"/> Direct release to surface soil <i>check soil</i> <input type="checkbox"/> Migration to subsurface <i>check soil</i> <input type="checkbox"/> Migration to groundwater <i>check groundwater</i> <input type="checkbox"/> Volatilization <i>check air</i> <input type="checkbox"/> Runoff or erosion <i>check surface water</i> <input type="checkbox"/> Uptake by plants or animals <i>check biota</i> <input type="checkbox"/> Other (list): _____
<input checked="" type="checkbox"/> Subsurface Soil (2-15 ft bgs)	<input checked="" type="checkbox"/> Direct release to subsurface soil <i>check soil</i> <input checked="" type="checkbox"/> Migration to groundwater <i>check groundwater</i> <input checked="" type="checkbox"/> Volatilization <i>check air</i> <input type="checkbox"/> Uptake by plants or animals <i>check biota</i> <input type="checkbox"/> Other (list): _____
<input type="checkbox"/> Ground-water	<input type="checkbox"/> Direct release to groundwater <i>check groundwater</i> <input type="checkbox"/> Volatilization <i>check air</i> <input type="checkbox"/> Flow to surface water body <i>check surface water</i> <input type="checkbox"/> Flow to sediment <i>check sediment</i> <input type="checkbox"/> Uptake by plants or animals <i>check biota</i> <input type="checkbox"/> Other (list): _____
<input type="checkbox"/> Surface Water	<input type="checkbox"/> Direct release to surface water <i>check surface water</i> <input type="checkbox"/> Volatilization <i>check air</i> <input type="checkbox"/> Sedimentation <i>check sediment</i> <input type="checkbox"/> Uptake by plants or animals <i>check biota</i> <input type="checkbox"/> Other (list): _____
<input type="checkbox"/> Sediment	<input type="checkbox"/> Direct release to sediment <i>check sediment</i> <input type="checkbox"/> Resuspension, runoff, or erosion <i>check surface water</i> <input type="checkbox"/> Uptake by plants or animals <i>check biota</i> <input type="checkbox"/> Other (list): _____

(3) Exposure Media	(4) Exposure Pathway/Route	(5) Current & Future Receptors						
		Residents (adults or children)	Commercial or Industrial workers	Site visitors, trespassers, or recreational users	Construction workers	Farmers or subsistence harvesters	Subsistence consumers	Other
<input checked="" type="checkbox"/> soil	<input checked="" type="checkbox"/> Incidental Soil Ingestion <input checked="" type="checkbox"/> Dermal Absorption of Contaminants from Soil <input type="checkbox"/> Inhalation of Fugitive Dust	C/F	C/F	C/F	C/F			
<input checked="" type="checkbox"/> groundwater	<input checked="" type="checkbox"/> Ingestion of Groundwater <input type="checkbox"/> Dermal Absorption of Contaminants in Groundwater <input type="checkbox"/> Inhalation of Volatile Compounds in Tap Water	C/F	C/F	C/F	C/F			
<input checked="" type="checkbox"/> air	<input checked="" type="checkbox"/> Inhalation of Outdoor Air <input checked="" type="checkbox"/> Inhalation of Indoor Air <input type="checkbox"/> Inhalation of Fugitive Dust	C/F	C/F	C/F	C/F			
<input type="checkbox"/> surface water	<input type="checkbox"/> Ingestion of Surface Water <input type="checkbox"/> Dermal Absorption of Contaminants in Surface Water <input type="checkbox"/> Inhalation of Volatile Compounds in Tap Water							
<input type="checkbox"/> sediment	<input type="checkbox"/> Direct Contact with Sediment							
<input type="checkbox"/> biota	<input type="checkbox"/> Ingestion of Wild or Farmed Foods							

# Appendix C

## Monitoring Data Package



# DAILY FIELD REPORT

Project Name: CEMC 96097	GHD Proj. Mgr: S. RICHARD	Field Rep: O. YAN
Project Number: 062328	Date: 10/2/17	Site Address: 303 W. FIREWEED LN, ANCHORAGE, AK
Scope of Work: PERFORM GW MONITORING SAMPLING.		Weather:
Equipment: YSI/TURBIDITY/MUSO/WATER LEVEL METE		

Time	Activity/Comments	SWA
0750	LOAD TRUCK & MOB TO OFFICE DEPT TO GET TANK	
0803	MOB TO AIRPORT TO SHIP SAMPLES	
0836	MOB TO SITE TO SAMPLE	
0850	ARRIVE ON SITE, NOTIFY PROPERTY & PM, CONDUCT SAFETY MEETING	
0910	Set up onsite → begin gauging onsite wells. MW-10C; MW-7; MW-6	
0927	MW-9, MW-5, MW-4.	
	SET UP THE LR SAMPLING @ MW-4.	
0940	COLLECT SAMPLE @ MW-7.	
1010	SET UP @ MW-10C FOR LOW-FLOW SAMPLING	
1025	GAUGE REMAINING WELLS ONITE/ORTING	
1055	COLLECT SAMPLE FROM MW-7.	
1125	SET UP FOR LF SAMPLING @ MW-5.	
1203	COLLECT SAMPLE; COLLECT DUPLICATE SAMPLE.	
1250	FINISH COLLECTING SAMPLES.	
1256	SET UP @ MW-5 LOCATION → LF SAMPLING.	
1332	COLLECT SAMPLE @ MW-9	
1350	SET UP @ MW-6 LOCATION → LF SAMPLING/PURGE @ 1356	
1428	COLLECT SAMPLE @ MW-6	
1435	SITE CLEAN-UP.	
1450	HEAD TO TTT; PICK UP SUPPLIES.	
1510	HEAD BACK TO OFFICE.	
1525	BACK @ OFFICE → POST-FIELD PAPERWORK	

SWA Key:	A: Person or People	B: Equipment	C: Environmental
	D: Procedures/Processes/JSA-review/revise	E: Visitors	

Operational Mileage: Start \_\_\_\_\_ End \_\_\_\_\_ Total \_\_\_\_\_







# Groundwater Monitoring Field Sheet

Project Name: 96097 (ADEC File ID: 2100.26.007)  
 Field Staff: O.Yan / O. Yan

Project Number: 062328  
 Date: 10/2/17

Well ID	Time	DTW (ft-btoc)	DTB (ft-btoc)	DTP (ft-btocP)	Product Thickness (feet)	Amount of Product Removed (feet)	Casing Diameter (Inches)	PID (ppm)	Comments
MW-4R	0956	42.13	52.76	-	-	-	2"	-	*gauge only
MW-5	0933	44.10	49.40	-	-	-	4"	-	
MW-6	0924	44.73	54.02	-	-	-	2"	-	
MW-7	0918	43.76	52.59	-	-	-	2"	-	
MW-8	1103	54.58	64.14	-	-	-	2"	-	
MW-9	0928	44.12	51.67	-	-	-	4"	-	
MW-10R	0913	43.96	51.99	-	-	-	2"	-	
MW-12	1208	58.23	67.98	-	-	-	2"	-	
MW-13	1049	42.45	63.98	-	-	-	2"	-	
MW-15	1054	54.32	61.72	-	-	-	2"	-	
MW-16	1111	55.69	62.73	-	-	-	2"	-	* gauge only
MW-16	1854	55.30	64.09	-	-	-	2"	-	
MW-17	1033	43.95	52.47	-	-	-	2"	-	* gauge only
GAC Filtered Water Volume: <u>8.75</u> gallons <span style="float: right;">Volume logged on Portable GAC Volume Tracking Log? <input checked="" type="checkbox"/></span>									

DTP - depth to product; DTW - depth to water; DTB - depth to bottom; ft-btoc - feet below top of casing; ppm - parts per million



# Groundwater Sampling Form

Project No. 062328 PM Siobhan Pritchard Well ID MW-5 Date 10/2/17 Page 1 of 10

Site ID / Location 96097 / 303 West Fireweed Lane, Anchorage, AK (ADEC File ID: 2100.26.007)  
 Screen Casing Well Material x PVC  
 Setting (ft-btoc) Unknown Diameter (in.) 4" SS

Sampled by O. Yan  
T. Weaver

Static Water Level (ft-btoc) 49.10 Total Depth (ft-btoc) 49.90 Water Column / Gallons in Well 5.3 / 3.15  
 Sample ID MW-5-W-171002  
 Dup ID DUP-1-W-171002  
 Sample Time 1203 Start \_\_\_\_\_ End \_\_\_\_\_

No-Purge Method				Low Flow Method			
Sampler Length (in)	36 <input type="checkbox"/>	30 <input type="checkbox"/>	Depth of Sampler (ft-btoc)	Pump type	Bladder <input checked="" type="checkbox"/>	Other <input type="checkbox"/>	Pump Intake (ft-btoc)
Weights	Top <input type="checkbox"/>	Bottom <input type="checkbox"/>	Position	Flow rate (ml/minute)	<u>100</u>		Volumes Purged
Was Tension Baler used to collect non volatile samples	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Supended Bottom set	Did well Dewater?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Purge Time: Start <u>1129</u> End <u>1159</u>

Time	Minutes Elapsed	Rate (gpm) (ml/min)	Depth to Water (ft)	Gallons Purged	Temp (°C)	Cond. (mS/cm) 3%	Dissolved Oxygen (mg/L) 10%	pH 0.1	Redox (mV) 10	Turbidity (NTU)	Additional notes
1134	5	100	44.98	0.20	8.83	0.102	12.52	6.49	19.2	94.74	CLM
1139	10	100	44.56	0.4	8.57	0.043	12.90	6.30	35.9	73.85	" "
1144	15	100	44.56	0.55	8.61	0.083	11.94	6.27	38.8	64.72	" "
1149	20	80	44.51	0.65	8.90	0.085	10.87	6.27	40.56	92.92	" "
1154	25	80	44.54	0.75	8.97	0.087	9.77	6.23	41.3	46.55	" "

Constituents Sampled	Container	Number	Preservative
BTEX by 8260 <input checked="" type="checkbox"/> 8021 <input type="checkbox"/>	40 mL voa	3	HCl
HVOCs by 8260 <input type="checkbox"/>			
GRO by AK 101 <input checked="" type="checkbox"/>	40 mL voa	3	HCl
DRO by AK 102 <input checked="" type="checkbox"/>	250 mL amber	2	HCl
RRO by AK 103 <input type="checkbox"/>			
Lead by 6010 <input type="checkbox"/>			
PAHs by 8270 <input checked="" type="checkbox"/>	250 mL amber	2	None
Alkalinity by 2320B <input type="checkbox"/>			
Methane by RSK175 <input type="checkbox"/>			
Sulfate by EPA 300 <input type="checkbox"/>			
Nitrate/Nitrite by EPA 300 <input type="checkbox"/>			
Ferrous Iron <input type="checkbox"/>			

**Well Casing Volumes**

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

**Field Test Results:** Ferrous Iron \_\_\_\_\_ mg/L Nitrate \_\_\_\_\_ mg/L Other \_\_\_\_\_

**Well Information**

Well Location: ON SITE Well Locked at Arrival: Yes / No

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

Well Completion: Flush Mount / Stick Up

**Additional Notes**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



# Groundwater Sampling Form

Project No. 062328 PM Siobhan Pritchard Well ID MW-6 Date 10/2/17 Page 2 of 10

Site ID / Location 96097 / 303 West Fireweed Lane, Anchorage, AK (ADEC File ID: 2100.26.007)  
 Screen Casing Well Material x PVC / SS Sampled by O. Yan / T. Weaver  
 Setting (ft-btoc) 45-60 Diameter (in.) 2"

Static Water Level (ft-btoc) 44.92 Total Depth (ft-btoc) 54.02 Water Column / Gallons in Well 9.09 / 1.454  
 Sample ID MW-6-W-171002  
 Dup ID \_\_\_\_\_

Sample Time 1428 Start \_\_\_\_\_ End \_\_\_\_\_

**No-Purge Method**  
 Sampler Length (in) 36  Depth of Sampler (ft-btoc) \_\_\_\_\_  
30   
 Weights Top  Position \_\_\_\_\_  
 Bottom  Suspended   
 Bottom set   
 Was Perlon Baler used to collect non volatile samples Yes  No

**Low Flow Method**  
 Pump type Bladder  / Other   
 Pump Intake (ft-btoc) 45.40  
 Volumes Purged 0.70 GAL  
 Flow rate (ml/minute) 100 Purge Time: Start 1356 / End 1426  
 Did well Dewater? Yes  No

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	Temp (°C)	Cond. (mS/cm) 3%	Dissolved Oxygen (mg/L) 10%	pH 0.1	Redox (mV) 10	Turbidity (NTU)	Additional notes
1401	5	100	45.06	0.10	8.35	0.561	5.91	7.04	-79.5	227.1	CLOUDY
1406	10	100	45.07	0.20	8.14	0.549	2.95	7.00	-82.9	194.1	" "
1411	15	100	45.07	0.3	8.07	0.545	1.81	7.00	-87.4	179.5	CLEAR
1416	20	100	45.01	0.4	8.11	0.543	1.90	7.01	-89.0	115.5	CLEAR
1421	25	100	45.11	0.50	7.81	0.546	1.98	7.02	-94.8	32.87	CLEAR

Constituents Sampled	Container	Number	Preservative
BTEX by 8260 <b>4Q ONLY</b> <input checked="" type="checkbox"/> 8021 <input type="checkbox"/>	40 mL voa	3	HCl
HVOCs by 8260 <input type="checkbox"/>	40 mL voa	3	HCl
GRO by AK 101 <b>4Q ONLY</b> <input checked="" type="checkbox"/>	250 mL amber	2	HCl
GRO by AK 102 <input checked="" type="checkbox"/>			
RRO by AK 103 <input type="checkbox"/>			
Lead by 6010 <input type="checkbox"/>			
PAHs by 8270 <input type="checkbox"/>			
Alkalinity by 2320B <input type="checkbox"/>			
Methane by RSK175 <input type="checkbox"/>			
Sulfate by EPA 300 <input type="checkbox"/>			
Nitrate/Nitrite by EPA 300 <input type="checkbox"/>			
Ferrous Iron <input type="checkbox"/>			

**Well Casing Volumes**

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

**Field Test Results:**

Ferrous Iron	mg/L	Nitrate	mg/L	Other
--------------	------	---------	------	-------

**Well Information**

Well Location: ONSITE - W PLANTER  
 Condition of Well: GOOD  
 Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / NO  
 Well Locked at Departure: Yes / NO

**Additional Notes**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



# Groundwater Sampling Form

Project No. 062328 PM Siobhan Pritchard Well ID MW-7 Date 10/2/17 Page 3 of 10

Site ID / Location 96097 / 303 West Fireweed Lane, Anchorage, AK (ADEC File ID: 2100.26.007)  
 Screen Casing Well Material x PVC Sampled by O. Yan  
 Setting (ft-btoc) 45-89 Diameter (in.) 2" SS T. Weaver

Static Water Level (ft-btoc) 43.76 Total Depth (ft-btoc) 52.57 Water Column / Gallons in Well 0.81 / 1.410  
 Sample ID MW-7-W-171002  
 Dup ID \_\_\_\_\_

Sample Time 1000 Start \_\_\_\_\_ End \_\_\_\_\_

**No-Purge Method**  
 Sampler Length (in) 36  30   
 Depth of Sampler (ft-btoc) \_\_\_\_\_  
 Weights Top  Bottom   
 Position Suspended  Bottom set   
 Was Perlon Baler used to collect non volatile samples Yes  No

**Low Flow Method**  
 Pump type Bladder  Other   
 Pump Intake (ft-btoc) 49.20  
 Volumes Purged 0.9 Gal  
 Flow rate (ml/minute) 100-120 Purge Time: Start 927 End 957  
 Did well Dewater? Yes  No

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	Temp (°C)	Cond. (mS/cm) 3%	Dissolved Oxygen (mg/L) 10%	pH 0.1	Redox (mV) 10	Turbidity (NTU)	Additional notes
0932	5	120	43.77	0.10	8.25	0.893	4.78	6.73	-47.6	55.07	clean
0937	10	100	43.81	0.30	7.87	0.861	2.26	6.78	-66.4	38.65	" "
0942	15	100	43.81	0.45	7.73	0.859	1.67	6.80	-70.1	29.26	" "
0947	20	100	43.84	0.55	7.75	0.854	3.72	6.89	-58.3	19.85	" "
0952	25	100	43.82	0.65	7.81	0.851	4.21	6.93	-60.0	13.50	" "

Constituents Sampled	Container	Number	Preservative
BTEX by 8260 <input checked="" type="checkbox"/> 8021 <input type="checkbox"/>	40 mL voa <input checked="" type="checkbox"/>	3	HCl
HVOCs by 8260 <input type="checkbox"/>			
GRO by AK 101 <input checked="" type="checkbox"/>	40 mL voa <input checked="" type="checkbox"/>	3	HCl
DRO by AK 102 <input checked="" type="checkbox"/>	250 mL amber <input checked="" type="checkbox"/>	2	HCl
RRO by AK 103 <input type="checkbox"/>			
Lead by 6010 <input type="checkbox"/>			
PAHs by 8270 <input checked="" type="checkbox"/>	250 mL amber <input checked="" type="checkbox"/>	2	None
Alkalinity by 2320B <input type="checkbox"/>			
Methane by RSK175 <input type="checkbox"/>			
Sulfate by EPA 300 <input type="checkbox"/>			
Nitrate/Nitrite by EPA 300 <input type="checkbox"/>			
Ferrous Iron <input type="checkbox"/>			

**Well Casing Volumes**

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

**Field Test Results:** Ferrous Iron \_\_\_\_\_ mg/L Nitrate \_\_\_\_\_ mg/L Other \_\_\_\_\_

**Well Information**  
 Well Location: 6NS 17E Well Locked at Arrival: Yes / No  
 Condition of Well: Good Well Locked at Departure: Yes / No  
 Well Completion: Flush Mount / Stick Up

**Additional Notes**  
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 \_\_\_\_\_  
 \_\_\_\_\_



# Groundwater Sampling Form

Project No. 062328 PM Siobhan Pritchard Well ID MW-8 Date 10/3/17 Page 4 of 10  
 Site ID / Location 96097 / 303 West Fireweed Lane, Anchorage, AK (ADEC File ID: 2100.26.007)  
 Screen Casing Well Material x PVC SS Sampled by O. Yan  
 Setting (ft-btoc) Unknown Diameter (in.) 2" SS T. Weaver  
 Static Water Level (ft-btoc) 54.55 Total Depth (ft-btoc) 64.14 Water Column / Gallons in Well 9.59 / 1.534 Sample ID MW-8-W-171003  
 Dup ID 1186 Start          End         

**No-Purge Method**  
 Sampler Length (in) 36  30  Depth of Sampler (ft-btoc) \_\_\_\_\_  
 Weights Top  Bottom  Position \_\_\_\_\_  
 Suspended  Bottom set   
 Yes  No   
 Was Perlon Baler used to collect non volatile samples \_\_\_\_\_

**Low Flow Method**  
 Pump type Bladder  Other   
 Pump Intake (ft-btoc) 54.95  
 Flow rate (ml/minute) 100 Volumes Purged 1.06 GAL  
 Did well Dewater? Yes  No  Purge Time: Start 1104 End 1134

Time	Minutes Elapsed	Rate (gpm) (ml/min)	Depth to Water (ft)	Gallons Purged	Temp (°C)	Cond. (mS/cm) 3%	Dissolved Oxygen (mg/L) 10%	pH 0.1	Redox (mV) 10	Turbidity (NTU)	Additional notes
1109	5	100	54.55	0.10	9.30	0.610	8.88	6.83	-66.9	17.34	CLEAR/clear
1104	10	100	54.62	0.25	8.61	0.617	6.84	6.86	-72.6	62.05	" " / " "
1119	15	100	54.63	0.40	8.26	0.632	4.50	6.92	-83.9	33.50	" "
1124	20	100	54.63	0.55	8.09	0.646	4.14	6.95	-89.0	17.78	" "
1129	25	100	54.64	0.70	8.05	0.654	4.07	6.97	-94.9	15.82	" "

Constituents Sampled	Container	Number	Preservative
BTEX by 8260 <input checked="" type="checkbox"/> 8021 <input type="checkbox"/>	40 mL voa	3 ✓	HCl
HVOCs by 8260 <input type="checkbox"/>	40 mL voa	3 ✓	HCl
GRO by AK 101 <input checked="" type="checkbox"/>	250 mL amber	2 ✓	HCl
DRO by AK 102 <input checked="" type="checkbox"/>			HCl
RRO by AK 103 <input checked="" type="checkbox"/>			
Lead by 6010 <input type="checkbox"/>			
PAHs by 8270 <input type="checkbox"/>			
Alkalinity by 2320B <input type="checkbox"/>			
Methane by RSK175 <input type="checkbox"/>			
Sulfate by EPA 300 <input type="checkbox"/>			
Nitrate/Nitrite by EPA 300 <input type="checkbox"/>			
Ferrous Iron <input type="checkbox"/>			

**Well Casing Volumes**

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

**Field Test Results:**

Ferrous Iron	mg/L	Nitrate	mg/L	Other
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**Well Information**

Well Location: OFFSITE - ALONG D STREET

Condition of Well: GOOD

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

**Additional Notes**

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# Groundwater Sampling Form

Project No. 062328 PM Siobhan Pritchard Well ID MW-9 Date 10/2/17 Page 5 of 10

Site ID / Location 96097 / 303 West Fireweed Lane, Anchorage, AK (ADEC File ID: 2100.26.007)  
 Screen Casing Well Material x PVC Sampled by O. Yan  
 Setting (ft-btoc) Unknown Diameter (in.) 4" SS T. Weaver

Static Water Level (ft-btoc) 44.12 Total Depth (ft-btoc) 51.67 Water Column / Gallons in Well 7.55 / 4.908  
 Sample ID MW-9-W171002  
 Dup ID       

Sample Time 1335 Start        End       

**No-Purge Method**  
 Sampler Length (in) 36  30   
 Weights Top  Bottom   
 Position         
 Suspended   
 Bottom set   
 Was Perlon Baler used to collect non volatile samples Yes  No

**Low Flow Method**  
 Pump type Bladder  Other   
 Pump Intake (ft-btoc) 44.55  
 Volumes Purged 1.0 gal  
 Flow rate (ml/minute) 100  
 Purge Time: Start 1302 End 1332  
 Did well Dewater? Yes  No

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	Temp (°C)	Cond. (mS/cm) 3%	Dissolved Oxygen (mg/L) 10%	pH 0.1	Redox (mV) 10	Turbidity (NTU)	Additional notes
1307	5	10	44.21	0.10	8.79	0.858	7.52	6.26	63.2	55.40	Clear
1312	10	10	44.20	0.25	8.55	0.866	6.09	6.27	65.1	46.37	" "
1317	15	10	44.20	0.45	8.31	0.874	4.63	6.32	71.5	48.81	" "
1322	20	10	44.20	0.60	8.31	0.880	4.49	6.36	72.7	56.87	" "
1329	25	10	44.	0.80	8.29	0.892	4.47	6.38	73.9	53.82	" "

Constituents Sampled	Container	Number	Preservative
BTEX by 8260 <input checked="" type="checkbox"/> 8021 <input type="checkbox"/>	40 mL voa	3 ✓	HCl
HVOCs by 8260 <input type="checkbox"/>	40 mL voa	3 ✓	HCl
GRO by AK 101 <input checked="" type="checkbox"/>	250 mL amber	2 ✓	HCl
DRO by AK 102 <input checked="" type="checkbox"/>	250 mL amber	2 ✓	HCl
RRO by AK 103 <input type="checkbox"/>			
Lead by 6010 <input type="checkbox"/>			
PAHs by 8270 <input checked="" type="checkbox"/>	250 mL amber	2 ✓	None
Alkalinity by 2320B <input type="checkbox"/>			
Methane by RSK175 <input type="checkbox"/>			
Sulfate by EPA 300 <input type="checkbox"/>			
Nitrate/Nitrite by EPA 300 <input type="checkbox"/>			
Ferrous Iron <input type="checkbox"/>			

**Well Casing Volumes**

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

**Field Test Results:** Ferrous Iron        mg/L Nitrate        mg/L Other       

**Well Information**  
 Well Location: ON SITE  
 Condition of Well: Cross  
 Well Completion: Flush Mount / Stick Up  
 Well Locked at Arrival: Yes / No  
 Well Locked at Departure: Yes / No

**Additional Notes**  
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 \_\_\_\_\_  
 \_\_\_\_\_



# Groundwater Sampling Form

Project No. 062328 PM Siobhan Pritchard Well ID MW-10R Date 10/2/17 Page 6 of 10

Site ID / Location 96097 / 303 West Fireweed Lane, Anchorage, AK (ADEC File ID: 2100.26.007)  
 Screen Casing Well Material x PVC Sampled by O. Yan  
 Setting (ft-btoc) 40-55 Diameter (in.) 2" SS T. Weaver

Static Water Level (ft-btoc) 43.14 Total Depth (ft-btoc) 51.99 Water Column / Gallons in Well 7.53 / 1.205  
 Sample ID MW-10-W-171002  
 Dup ID \_\_\_\_\_  
 Sample Time 1055 Start \_\_\_\_\_ End \_\_\_\_\_

<b>No-Purge Method</b>				<b>Low Flow Method</b>			
Sampler Length (in)	36 <input type="checkbox"/>	30 <input type="checkbox"/>	Depth of Sampler (ft-btoc)	Pump type	Bladder <input checked="" type="checkbox"/>	Other <input type="checkbox"/>	Pump Intake (ft-btoc) <u>44.40</u>
Weights	Top <input type="checkbox"/>	Bottom <input type="checkbox"/>	Position	Flow rate (ml/minute)	<u>10</u>		Volumes Purged <u>0.660</u>
Was Perlon Baler used to collect non volatile samples				Did well Dewater?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Purge Time: Start <u>1022</u> End <u>1052</u>
Suspended <input type="checkbox"/>							
Bottom set <input type="checkbox"/>							
Yes <input type="checkbox"/> No <input type="checkbox"/>							

Time	Minutes Elapsed	Rate (gpm) (ml/min)	Depth to Water (ft)	Gallons Purged	Temp (°C)	Cond. (mS/cm) 3%	Dissolved Oxygen (mg/L) 10%	pH 0.1	Redox (mV) 10	Turbidity (NTU)	Additional notes
1027	5	100	43.97	0.10	9.07	0.663	2.69	6.90	-76.4	75.10	clear
1032	10	100	43.99	0.20	8.93	0.660	1.70	6.86	-78.9	83.82	" "
1037	15	100	43.99	0.25	8.90	0.660	1.70	6.86	-79.0	86.18	" "
1042	20	100	44.00	0.30	8.85	0.660	1.69	6.86	-77.2	90.08	" "
1047	25	100	44.00	0.40	8.68	0.659	1.87	6.87	-76.8	82.75	" "

Constituents Sampled	Container	Number	Preservative
BTEX by 8260 <input checked="" type="checkbox"/> 8021 <input type="checkbox"/>	40 mL voa	3 ✓	HCl
HVOCs by 8260 <input type="checkbox"/>	40 mL voa	3 ✓	HCl
GRO by AK 101 <input checked="" type="checkbox"/>	250 mL amber	2 ✓	HCl
DRO by AK 102 <input type="checkbox"/>			
RRO by AK 103 <input type="checkbox"/>			
Lead by 6010 <input type="checkbox"/>	4 L	1 ✓	
PAHs by 8270 <input checked="" type="checkbox"/>	250 mL amber	2	None
Alkalinity by 2320B <input type="checkbox"/>			
Methane by RSK175 <input type="checkbox"/>			
Sulfate by EPA 300 <input type="checkbox"/>			
Nitrate/Nitrite by EPA 300 <input type="checkbox"/>			
Ferrous Iron <input type="checkbox"/>			

**Well Casing Volumes**

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

**Field Test Results:** Ferrous Iron \_\_\_\_\_ mg/L Nitrate \_\_\_\_\_ mg/L Other \_\_\_\_\_

**Well Information**

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

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

Well Completion: Flush Mount / Stick Up

**Additional Notes**

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\_\_\_\_\_





# Groundwater Sampling Form

Project No. 062328 PM Siobhan Pritchard Well ID MW-12 Date 10/3/17 Page 7 of 10  
 Site ID / Location 96097 / 303 West Fireweed Lane, Anchorage, AK (ADEC File ID: 2100.26.007)  
 Screen Casing Well Material x PVC Sampled by O. Yan  
 Setting (ft-btoc) Unknown Diameter (in.) 2" SS T. Weaver

Static Water Level (ft-btoc) 58.23 Total Depth (ft-btoc) 67.88 Water Column / Gallons in Well 9.65 / 1.544 Sample ID MW-12-N-171003  
 Dup ID \_\_\_\_\_  
 Sample Time 1250 Start \_\_\_\_\_ End \_\_\_\_\_

**No-Purge Method**  
 Sampler Length (in) 36  30  Depth of Sampler (ft-btoc) \_\_\_\_\_  
 Weights Top  Bottom  Position \_\_\_\_\_  
 Suspended  Bottom set   
 Yes  No

**Low Flow Method**  
 Pump type Bladder  Other   
 Pump Intake (ft-btoc) 58.65  
 Flow rate (ml/minute) 1.0 Volumes Purged \_\_\_\_\_  
 Did well Dewater? Yes  No  Purge Time: Start 1217 End 1257

Waterion Baler used to collect non volatile samples

Time	Minutes Elapsed	Rate (gpm) (ML/Min)	Depth to Water (ft)	Gallons Purged	Temp (°C)	Cond. (mS/cm) 3%	Dissolved Oxygen (mg/L) 10%	pH 0.1	Redox (mV) 10	Turbidity (NTU)	Additional notes
1222	5	1.00	58.25	0.16	9.58	0.581	6.96	7.03	-89.1	40.37	Clear
1227	10	1.00	58.21	0.25	9.10	0.581	5.79	7.02	-89.8	25.07	" "
1232	15	1.00	58.25	0.35	8.81	0.587	5.96	7.03	-94.6	23.25	" "
1237	20	1.00	58.24	0.45	8.63	0.590	6.23	7.04	-96.7	22.08	" "
1242	25	1.00	58.24	0.55	8.60	0.589	6.22	7.04	-98.1	21.56	" "

Constituents Sampled	Container	Number	Preservative
BTEX by 8260 <input checked="" type="checkbox"/> 8021 <input type="checkbox"/>	40 mL voa	3 ✓	HCl
HVOCs by 8260 <input type="checkbox"/>	40 mL voa	3 ✓	HCl
GRO by AK 101 <input type="checkbox"/>	250 mL amber	2 ✓	HCl
DRO by AK 102 <input type="checkbox"/>			
RRO by AK 103 <input type="checkbox"/>			
Lead by 6010 <input type="checkbox"/>			
PAHs by 8270 <input type="checkbox"/>			
Alkalinity by 2320B <input type="checkbox"/>			
Methane by RSK175 <input type="checkbox"/>			
Sulfate by EPA 300 <input type="checkbox"/>			
Nitrate/Nitrite by EPA 300 <input type="checkbox"/>			
Ferrous Iron <input type="checkbox"/>			

**Well Casing Volumes**

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

**Field Test Results:** Ferrous Iron \_\_\_\_\_ mg/L Nitrate \_\_\_\_\_ mg/L Other \_\_\_\_\_

**Well Information**  
 Well Location: OFFICE → Always wet Well Locked at Arrival: Yes / No  
 Condition of Well: Good Well Locked at Departure: Yes / No  
 Well Completion: Flush Mount / Stick Up

**Additional Notes**  
BENTONITE KEEPS RISING TO TOP; CLEANED OUT; WILL NOT TO ADD FEA CURVE



# Groundwater Sampling Form

Project No. 062328 PM Siobhan Pritchard Well ID MW-13 Date 10/3/12 Page 8 of 10

Site ID / Location 96097 / 303 West Fireweed Lane, Anchorage, AK (ADEC File ID: 2100.26.007)  
 Screen Casing Well Material x PVC Sampled by O. Yan  
 Setting (ft-btoc) Unknown Diameter (in.) 2" SS T. Weaver

Static Water Level (ft-btoc) 42.50 Total Depth (ft-btoc) 63.98 Water Column / Gallons in Well 21.48 / 3.437  
 Sample ID MW-13-W-171003  
 Dup ID ---

Sample Time 0911 Start --- End ---

**No-Purge Method**  
 Sampler Length (in) 36  Depth of Sampler (ft-btoc) ---  
30   
 Weights Top  Position Suspended   
 Bottom  Bottom set   
 Was Perlon Baler used to collect non volatile samples Yes  No

**Low Flow Method**  
 Pump type Bladder   
 Other   
 Pump Intake (ft-btoc) 42.90  
 Volumes Purged 1.20 GAL  
 Flow rate (ml/minute) 100-120 Purge Time: Start 0839  
 Did well Dewater? Yes  No  End 0909

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	Temp (°C)	Cond. (mS/cm) 3%	Dissolved Oxygen (mg/L) 10%	pH 0.1	Redox (mV) 10	Turbidity (NTU)	Additional notes
0844	5	100	42.52	0.10	8.27	0.660	4.54	6.75	149.4	26.56	CLEAR
0849	10	102	42.53	0.35	8.09	0.641	4.76	6.76	135.4	25.94	" "
0854	15	100	42.52	0.50	7.92	0.634	5.41	6.71	128.6	22.88	" "
0859	20	100	42.52	0.65	7.81	0.633	5.65	6.86	119.8	27.29	" "
0904	25	100	42.52	1.0	7.79	0.633	5.71	6.87	108.0	26.77	" "

Constituents Sampled	Container	Number	Preservative
BTEX by 8260 <input checked="" type="checkbox"/> 8021 <input type="checkbox"/>	40 mL voa	3 ✓	HCl
HVOCs by 8260 <input type="checkbox"/>			
GRO by AK 101 <input checked="" type="checkbox"/>	40 mL voa	3 ✓	HCl
DRO by AK 102 <input checked="" type="checkbox"/>	250 mL amber	2 ✓	HCl
RRO by AK 103 <input type="checkbox"/>			
Lead by 6010 <input type="checkbox"/>			
PAHs by 8270 <input type="checkbox"/>			
Alkalinity by 2320B <input type="checkbox"/>			
Methane by RSK175 <input type="checkbox"/>			
Sulfate by EPA 300 <input type="checkbox"/>			
Nitrate/Nitrite by EPA 300 <input type="checkbox"/>			
Ferrous Iron <input type="checkbox"/>			

**Well Casing Volumes**

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

**Field Test Results:** Ferrous Iron mg/L Nitrate mg/L Other

**Well Information**  
 Well Location: OFFSITE - REILLY'S Well Locked at Arrival: Yes / No  
 Condition of Well: Good Well Locked at Departure: Yes / No  
 Well Completion: Flush Mount / Stick Up

**Additional Notes**  
ROTS ARE STRIPPED



# Groundwater Sampling Form

Project No. 062328 PM Siobhan Pritchard Well ID MW-14 Date 10/5/12 Page 9 of 10

Site ID / Location 96097 / 303 West Fireweed Lane, Anchorage, AK (ADEC File ID: 2100.26.007)  
 Screen Casing Well Material x PVC Sampled by O. Yan  
 Setting (ft-btoc) Unknown Diameter (in.) 2" SS T. Weaver

Static Water Level (ft-btoc) 55.43 Total Depth (ft-btoc) 62.73 Water Column / Gallons in Well 7.30 / 1.168  
 Sample ID MW-14-W-171003  
 Dup ID DUP-2-W-171003

Sample Time 1041 Start            End           

**No-Purge Method**  
 Sampler Length (in) 36  30   
 Depth of Sampler (ft-btoc)             
 Weights Top  Bottom   
 Position Suspended  Bottom set   
 Wash Rinse Baler used to collect non volatile samples Yes  No

**Low Flow Method**  
 Pump type Bladder  Other   
 Pump Intake (ft-btoc) 55.85  
 Volumes Purged 0.85 GAL  
 Flow rate (ml/minute) 100-120 Purge Time: Start 1009 End 1037  
 Did well Dewater? Yes  No

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	Temp (°C)	Cond. (mS/cm) 3%	Dissolved Oxygen (mg/L) 10%	pH 0.1	Redox (mV) 10	Turbidity (NTU)	Additional notes
1014	5	100	55.43	0.10	9.30	0.779	3.90	6.84	-75.8	57.51	CLEAR
1019	10	100	55.43	0.35	8.91	0.789	3.55	6.91	-87.9	40.60	" "
1024	15	100	55.43	0.45	8.47	0.800	3.96	6.96	-96.3	24.19	" "
1029	20	100	55.43	0.55	8.29	0.804	4.15	6.98	-99.5	19.29	" "
1034	25	100	55.43	0.65	8.21	0.805	4.12	6.99	-101.6	18.64	" "

Constituents Sampled	Container	Number	Preservative
BTEX by 8260 <input checked="" type="checkbox"/> 8021 <input type="checkbox"/>	40 mL voa	3/3 ✓	HCl
HVOCs by 8260 <input type="checkbox"/>			
GRO by AK 101 <input checked="" type="checkbox"/>	40 mL voa	3/3 ✓	HCl
DRO by AK 102 <input checked="" type="checkbox"/>	250 mL amber	2/2 ✓	HCl
RRO by AK 103 <input type="checkbox"/>			
Lead by 6010 <input type="checkbox"/>			
PAHs by 8270 <input type="checkbox"/>			
Alkalinity by 2320B <input type="checkbox"/>			
Methane by RSK175 <input type="checkbox"/>			
Sulfate by EPA 300 <input type="checkbox"/>			
Nitrate/Nitrite by EPA 300 <input type="checkbox"/>			
Ferrous Iron <input type="checkbox"/>			

**Well Casing Volumes**

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

**Field Test Results:** Ferrous Iron            mg/L Nitrate            mg/L Other           

**Well Information**  
 Well Location: OFF SITE - REILLY'S. Well Locked at Arrival: Yes / No  
 Condition of Well: Good Well Locked at Departure: Yes / No  
 Well Completion: Flush Mount / Stick Up

**Additional Notes**  
BOTH BOLTS STRIPPED



# Groundwater Sampling Form

Project No. 062328 PM Siobhan Pritchard Well ID MW-16 Date 10/3/17 Page 10 of 16

Site ID / Location 96097 / 303 West Fireweed Lane, Anchorage, AK (ADEC File ID: 2100.26.007)  
 Screen Casing Well Material x PVC Sampled by O. Yan  
 Setting (ft-btoc) Unknown Diameter (in.) 2" SS T. Weaver

Static Water Level (ft-btoc) 55.71 Total Depth (ft-btoc) 62.73 Water Column / Gallons in Well 7.02 / 1.123 Sample ID MW-16-W-171003

Sample Time 0956 Dup ID \_\_\_\_\_ Start \_\_\_\_\_ End \_\_\_\_\_

No-Purge Method				Low Flow Method			
Sampler Length (in)	36 <input type="checkbox"/>	30 <input type="checkbox"/>	Depth of Sampler (ft-btoc)	Pump type	Bladder <input checked="" type="checkbox"/>	Other <input type="checkbox"/>	Pump Intake (ft-btoc)
Weights	Top <input type="checkbox"/>	Bottom <input type="checkbox"/>	Position	Flow rate (ml/minute)	<u>100</u>		Volumes Purged
Was Perlon Baler used to collect non volatile samples				Did well Dewater?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Purge Time: Start <u>0929</u> End <u>0959</u>
Supended <input type="checkbox"/>							
Bottom set <input type="checkbox"/>							
Yes <input type="checkbox"/> No <input type="checkbox"/>							

Time	Minutes Elapsed	Rate (gpm) (ml/min)	Depth to Water (ft)	Gallons Purged	Temp (°C)	Cond. (mS/cm) 3%	Dissolved Oxygen (mg/L) 10%	pH 0.1	Redox (mV) 10	Turbidity (NTU)	Additional notes
0929	5	100	55.71	0.10	9.67	0.720	6.31	6.94	-78.6	14.59	CLEAR
0934	10	100	55.72	0.20	9.25	0.731	3.33	7.01	-94.9	8.49	" "
0939	15	100	55.73	0.35	8.60	0.735	2.71	7.04	-98.3	7.84	" "
0944	20	100	55.73	0.45	8.35	0.735	2.51	7.04	-99.2	4.34	" "
0949	25	100	55.72	0.55	8.30	0.734	2.34	7.05	-99.0	4.20	" "

Constituents Sampled	Container	Number	Preservative
BTEX by 8260 <input checked="" type="checkbox"/> 8021 <input type="checkbox"/>	40 mL voa	3 ✓	HCl
HVOCs by 8260 <input type="checkbox"/>			
GRO by AK 101 <input checked="" type="checkbox"/>	40 mL voa	3 ✓	HCl
DRO by AK 102 <input checked="" type="checkbox"/>	250 mL amber	2 ✓	HCl
RRO by AK 103 <input type="checkbox"/>			
Lead by 6010 <input type="checkbox"/>			
PAHs by 8270 <input type="checkbox"/>			
Alkalinity by 2320B <input type="checkbox"/>			
Methane by RSK175 <input type="checkbox"/>			
Sulfate by EPA 300 <input type="checkbox"/>			
Nitrate/Nitrite by EPA 300 <input type="checkbox"/>			
Ferrous Iron <input type="checkbox"/>			

**Well Casing Volumes**

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

**Field Test Results:** Ferrous Iron \_\_\_\_\_ mg/L Nitrate \_\_\_\_\_ mg/L Other \_\_\_\_\_

**Well Information**

Well Location: OFFSITE - RYLLY'S PARKING Well Locked at Arrival: Yes / No

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

Well Completion: Flush Mount / Stick Up

**Additional Notes**

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# TTT Environmental

The preferred source for instrument  
Rentals, Sales, Service, and Supplies!

## CALIBRATION/INSPECTION REPORT

Calibration Date: 9/26/2017  
Report Date (check-out): 9/26/2017

Company Name: GHD  
Rental Description: HF Scientific Micro TPW Turbidimeter

S/O #: S172481  
Serial #: 5147

CALIBRATION*					
Sensor	Zero Value	Calibration*		Alarm Level	
		Desired reading	Instrument reading	Low	High
NTU	na	1000 NTU	1000 NTU	na	na
NTU	na	10 NTU	10 NTU	na	na
NTU	na	0.02 NTU	0.02 NTU	na	na

\* Calibrated per manufacturer specifications

CALIBRATION SOLUTION INFORMATION						
Components	Conc.	Lot #	Manuf.	Accuracy	Fill Date	Exp. Date
Formazin Solution	1000	60503	ProCal	+/- 1%	na	06/2019
Formazin Solution	10.0	60591	ProCal	+/- 1%	na	06/2019
Formazin Solution	0.02	60501	ProCal	+/- 0.02	na	06/2019

Calibrated by: Shandra M. [Signature] Signature: \_\_\_\_\_

Item Description	Qty	Checked Out?	Checked In?	Damaged / Missing?
HF Scientific Micro TPW Turbidimeter	1	<input checked="" type="checkbox"/>		
Manual	1	<input checked="" type="checkbox"/>		
Sample vials	3	<input checked="" type="checkbox"/>		
In reclosable bag:				
Silicone Oil, Kim Wipes, 4 Spare AAA Batteries	1	<input checked="" type="checkbox"/>		

Instrument Function Test / Inspection (Correct all deficiencies)	Pre-rental Check-out	Post-rental Check-in (Tag any "damaged" or "No's" for Service to correct)	
Inspect instrument for cracks & damage, LCD for proper display, and light chamber for water/dust/debris:		No Damage	Damaged
Ensure spare batteries in kit are unused and contacts sealed with white tape:	Yes	Yes	No
Dispose of any secondary calibration standard vial or sample vial that has excessive scratches, cracks, or staining:		Yes	No
HF Scientific recommends TPW Turbidimeters are recalibrated at least once every three months. Calibrated since the last rental?:	Yes		
Rental checklist completed?:	Yes	Yes	

Comments: \_\_\_\_\_

Signature (Check-out): [Signature] Signature (Check-in): \_\_\_\_\_

Phone: (907) 770-9041 Fax: (907) 770-9046 Email: info@tttenviro.com www.tttenviro.com

# TTT Environmental

The preferred source for instrument  
Rentals, Sales, Service, and Supplies!

## CALIBRATION/INSPECTION REPORT

Calibration Date: 9/26/2017  
Report Date (check-out): 9/26/2017

Company Name: GHD  
Rental Description: YSI 556

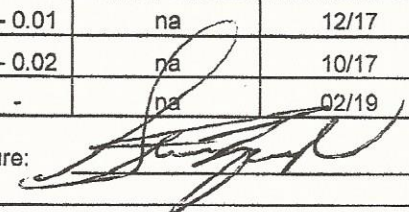
S/O #: S172481  
Serial #: 556-11.H100451

CALIBRATION*					
Sensor	Zero Value	Calibration*		mV	Slope/Gain
		Desired reading	Instrument reading		
Spec. Conductivity/Cond.	na	1.413 @25 C	1.413 @ 20.70 C	1.413/1297	0.99
pH	na	7.02 @20 C	7.02 @ 20.60 C	-2.4	
pH	na	4.00 @20 C	4.00 @ 20.72 C	166.8	169
pH	na	10.05 @20 C	10.07 @ 21.16 C	-176.5	174
ORP	na	240mV @25 C	240.0 @ 20.85 C	0.2	
D.O.	na	100% @25 C	99.2 % 19.70 C	BP=29.68	.858
			9.08		

\* Calibrated per manufacturer specifications

CALIBRATION SOLUTION INFORMATION						
Components	Conc.	Lot #	Manuf.	Accuracy	Fill Date	Exp. Date
Specific Conductivity	1.413@25C	RU1	OAKTON	--	na	11/17
pH	7.00@25C	RV1	YSI	+/- 0.01	na	10/17
pH	4.01@25C	SW1	YSI	+/- 0.01	na	12/17
pH	10.01@25C	SV1	YSI	+/- 0.02	na	10/17
ORP	240mV	7320	Hanna	-	na	02/19

Calibrated by: Steve Ziegler

Signature: 

INSTRUMENT INSPECTION			
Item	Pre-rental Check-out	Post-rental Check-in	
		("Damaged" or "No" may indicate customer charge)	
Inspect all instrument components for cracks, damage, etc:		No Damage	Damaged
Meter (battery cover screws) & cable?:		No Damage	Damaged
Cable is plugged into handheld?:	Yes	Yes	No
Instrument powers on/off properly?:	Yes	Yes	No
Battery power bar (lower right hand corner) shows at least 30%?:	Yes		
Display/LCD contrast is correct and no black streaks in LCD screen exist?:	Yes	Yes	No
All display readings are positive (excluding pHmV & ORP)?:	Yes	Yes	No
Probe inspection?:		No Damage	Damaged
Probe transport cup is attached & contains 1/4" tap water or pH 4 buffer?:	Yes	Yes	No
Calibrated within the last 10 days?:	Yes		
Rental checklist completed?:	Yes		Yes

Comments: \_\_\_\_\_

Signature (Check-out): 

Signature (Check-in): \_\_\_\_\_

# TTT Environmental

The preferred source for instrument Rentals, Sales, Service, and Supplies!

## INSTRUMENT RENTAL FUNCTION/CHECKLIST

Company Name: CHD  
 Rental Description: YSI 556

S/O #: 5172481  
 Serial #: 0451

Item Description	Checked Out?	Checked In?	Damaged / Missing?
556 Multi parameter meter with barometer	✓		
Wrist strap	✓		
4 meter probe assembly w/ pH/ORP, cond./temp. & DO	✓		
Pelican carrying case	✓		
556 Quick-start Guide & CD in ziploc bag	✓		
YSI 5511 Maintenance kit (including the following):	✓		
Probe installation/removal tool	✓		
DO sensor set screw	✓		
Allen wrench for DO sensor set screw	✓		
DO sensor port plug	✓		
Conductivity probe cleaning brush	✓		
O-Rings for DO sensor	✓		
2 - Replacement Flow cell O-ring	✓		
DO membrane kit (w/2 replacement caps & instructions)	✓		
DO membrane solution (at least 1/4 full)	✓		
Probe Sensor Guard	✓		
Transport/Calibration cup	✓		
Stainless Steel sampling cup	✓		
<b>Optional:</b>			
Flow cell (including the following):			
2 each hose barb: 3/16", 1/4", 3/8", 1/2"			
Optional - 2 each YSI body couplings			
Both upper and lower o-rings in place on flow cell			

Instrument Function Test / Inspection (Correct all deficiencies)	
Pelican case general condition, rubber seal, TTT label, & foam in place and in good condition:	Yes
TTT property tag in place on top of instrument:	Yes
Instrument display face plate in good condition (only minor scratches and smears); And backlight functions properly:	Yes
Date and Time set correctly (Esc/system setup/date & time):	Yes
Shutoff time set to 60 min. (Esc/system setup/shut off time):	Yes
All data deleted (Esc/file/delete all files/delete):	Yes
Battery power bar (lower right hand corner) shows at least 30%:	Yes

Signature (Check-out): [Signature]      Signature (Check-in): \_\_\_\_\_

Declared Value: \$3,700

- \* By renting with TTT customer agrees to the rental terms and conditions (copy available upon request).
- \* Customer is responsible for all parts and equipment damaged or missing during rental.
- \* All instruments have been inspected and calibrated (when applicable) prior to rental.
- \* TTT suggests calibrating/bump testing instruments prior to each days use.

# Appendix D

## Laboratory Analytical Report





## ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental  
2425 New Holland Pike  
Lancaster, PA 17601

Prepared for:

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

Report Date: November 20, 2017 16:24

**Project: 96097**

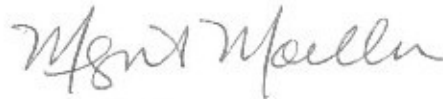
Account #: 10880  
Group Number: 1859370  
PO Number: 0015242269  
Release Number: CARRIER  
State of Sample Origin: AK

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/> . To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To GHD  
Electronic Copy To GHD  
Electronic Copy To GHD  
Electronic Copy To GHD  
Electronic Copy To Chevron

Attn: GHD EDF  
Attn: Siobhan Pritchard  
Attn: Sarah Gillette  
Attn: Jeffrey Cloud  
Attn: GHD EDD

Respectfully Submitted,



Megan A. Moeller  
Senior Specialist

(717) 556-7261



## SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection Date/Time</u>	<u>ELLE#</u>
MW-5-W-171002 Grab Groundwater	10/02/2017 12:03	9248292
MW-6-W-171002 Grab Groundwater	10/02/2017 14:28	9248293
MW-7-W-171002 Grab Groundwater	10/02/2017 10:00	9248294
MW-9-W-171002 Grab Groundwater	10/02/2017 13:35	9248295
MW-10R-W-171002 Grab Groundwater	10/02/2017 10:55	9248296
MW-8-W-171003 Grab Groundwater	10/03/2017 11:36	9248297
MW-12-W-171003 Grab Groundwater	10/03/2017 12:50	9248298
MW-13-W-171003 Grab Groundwater	10/03/2017 09:11	9248299
MW-14-W-171003 Grab Groundwater	10/03/2017 10:41	9248300
MW-16-W-171003 Grab Groundwater	10/03/2017 09:56	9248301
DUP-1-WD-171002 Grab Groundwater	10/02/2017	9248302
DUP-2-WD-171003 Grab Groundwater	10/03/2017	9248303
QA-1-T-171003 Water	10/03/2017	9248304

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Project Name: 96097  
ELLE Group #: 1859370

**General Comments:**

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below.

Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set.

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

For dual column analyses, the surrogate (for multi-surrogate tests, at least one surrogate) must be within the acceptance limits on at least one of the two columns.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

**Analysis Specific Comments:****SW-846 8260B, GC/MS Volatiles**

Batch #: 4172851AA (Sample number(s): 9248292-9248299 UNSPK: 9248292)

The recovery(ies) for the following analyte(s) in the MS and/or MSD exceeded the acceptance window indicating a positive bias: 1,1-Dichloroethene

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside acceptance windows: Chloroethane

**SW-846 8270C SIM, GC/MS Semivolatiles**

Sample #s: 9248295

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Batch #: 17282WAM026 (Sample number(s): 9248292, 9248294-9248296, 9248302)

The recovery(ies) for one or more surrogates exceeded the acceptance window indicating a positive bias for sample(s) 9248295

**AK 102-SV 4/8/02, GC Petroleum Hydrocarbons**

Sample #s: 9248292, 9248294, 9248295, 9248296, 9248302

The recovery for a target analyte(s) in the Laboratory Control spike(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is within our statistically derived limits the data is reported.

Batch #: 172830023A (Sample number(s): 9248292, 9248294-9248296, 9248302)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window:

DRO C10-C25

**Sample Description:** MW-5-W-171002 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
**ELLE Sample #:** WW 9248292  
**ELLE Group #:** 1859370  
**Matrix:** Groundwater

**Project Name:** 96097

Submission Date/Time: 10/05/2017 09:40

Collection Date/Time: 10/02/2017 12:03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>			<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	Acetone	67-64-1	N.D.	0.006	0.020	1
10335	Benzene	71-43-2	N.D.	0.0005	0.001	1
10335	Bromodichloromethane	75-27-4	N.D.	0.0005	0.001	1
10335	Bromoform	75-25-2	N.D.	0.0005	0.004	1
10335	Bromomethane	74-83-9	N.D.	0.0005	0.001	1
10335	2-Butanone	78-93-3	N.D.	0.003	0.010	1
10335	Carbon Disulfide	75-15-0	N.D.	0.001	0.005	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.0005	0.001	1
10335	Chlorobenzene	108-90-7	N.D.	0.0005	0.001	1
10335	Chloroethane	75-00-3	N.D.	0.0005	0.001	1
10335	Chloroform	67-66-3	N.D.	0.0005	0.001	1
10335	Chloromethane	74-87-3	N.D.	0.0005	0.001	1
10335	Cyclohexane	110-82-7	N.D.	0.002	0.005	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.005	1
10335	Dibromochloromethane	124-48-1	N.D.	0.0005	0.001	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.001	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.005	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.005	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.005	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.0005	0.001	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.0005	0.001	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0005	0.001	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0005	0.001	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.0005	0.001	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.0005	0.001	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.0005	0.001	1
10335	Ethylbenzene	100-41-4	N.D.	0.0005	0.001	1
10335	Freon 113	76-13-1	N.D.	0.002	0.010	1
10335	2-Hexanone	591-78-6	N.D.	0.003	0.010	1
10335	Isopropylbenzene	98-82-8	N.D.	0.001	0.005	1
10335	Methyl Acetate	79-20-9	N.D.	0.001	0.005	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.001	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.010	1
10335	Methylcyclohexane	108-87-2	N.D.	0.001	0.005	1
10335	Methylene Chloride	75-09-2	N.D.	0.0005	0.001	1
10335	Styrene	100-42-5	N.D.	0.001	0.005	1
10335	1,1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.0005	0.001	1
10335	Tetrachloroethene	127-18-4	N.D.	0.0005	0.001	1
10335	Toluene	108-88-3	N.D.	0.0005	0.001	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-5-W-171002 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
ELLE Sample #: WW 9248292  
ELLE Group #: 1859370  
Matrix: Groundwater

**Project Name:** 96097

Submission Date/Time: 10/05/2017 09:40  
Collection Date/Time: 10/02/2017 12:03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.005	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.0005	0.001	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.0005	0.001	1
10335	Trichloroethene	79-01-6	N.D.	0.0005	0.001	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.0005	0.001	1
10335	Vinyl Chloride	75-01-4	N.D.	0.0005	0.001	1
10335	Xylene (Total)	1330-20-7	N.D.	0.0005	0.001	1
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270C SIM</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
08357	Acenaphthene	83-32-9	N.D.	0.0000095	0.000048	1
08357	Acenaphthylene	208-96-8	N.D.	0.0000095	0.000048	1
08357	Anthracene	120-12-7	N.D.	0.0000095	0.000048	1
08357	Benzo(a)anthracene	56-55-3	0.000018 J	0.0000095	0.000048	1
08357	Benzo(a)pyrene	50-32-8	0.000052	0.0000095	0.000048	1
08357	Benzo(b)fluoranthene	205-99-2	0.00014	0.0000095	0.000048	1
08357	Benzo(g,h,i)perylene	191-24-2	0.00011	0.0000095	0.000048	1
08357	Benzo(k)fluoranthene	207-08-9	0.000031 J	0.0000095	0.000048	1
08357	Chrysene	218-01-9	0.00013	0.0000095	0.000048	1
08357	Dibenz(a,h)anthracene	53-70-3	0.000012 J	0.0000095	0.000048	1
08357	Fluoranthene	206-44-0	0.000050	0.0000095	0.000048	1
08357	Fluorene	86-73-7	N.D.	0.0000095	0.000048	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.000037 J	0.0000095	0.000048	1
08357	Naphthalene	91-20-3	N.D.	0.000029	0.000057	1
08357	Phenanthrene	85-01-8	N.D.	0.000029	0.000057	1
08357	Pyrene	129-00-0	0.00012	0.0000095	0.000048	1
<b>GC Volatiles</b>		<b>AK 101</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
01438	TPH-GRO AK water C6-C10	n.a.	0.036 J	0.010	0.10	1
<b>GC Petroleum Hydrocarbons</b>		<b>AK 102-SV 4/8/02</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
13025	DRO C10-C25	n.a.	1.1	0.052	0.26	1

The recovery for a target analyte(s) in the Laboratory Control spike(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is within our statistically derived limits the data is reported.

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-5-W-171002 Grab Groundwater  
**Facility# 96097**  
**303 W. Fireweed Lane - Anchorage, AK**

**ChevronTexaco**  
**ELLE Sample #: WW 9248292**  
**ELLE Group #: 1859370**  
**Matrix: Groundwater**

**Project Name:** 96097

**Submittal Date/Time:** 10/05/2017 09:40  
**Collection Date/Time:** 10/02/2017 12:03

## Sample Comments

State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4172851AA	10/12/2017 15:29	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4172851AA	10/12/2017 15:29	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	17282WAM026	10/16/2017 10:32	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	17282WAM026	10/09/2017 17:00	Ryan J Dowdy	1
01438	TPH-GRO AK water C6-C10	AK 101	1	17282B20A	10/09/2017 12:28	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17282B20A	10/09/2017 12:28	Marie D Beamenderfer	1
13025	AK 102-SV DRO	AK 102-SV 4/8/02	1	172830023A	10/12/2017 16:01	Tyler O Griffin	1
13027	Mini-Ext. AK 102-SV DRO	AK 102/AK 103 04/08/02	1	172830023A	10/11/2017 12:30	Bradley W VanLeuven	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-6-W-171002 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
**ELLE Sample #:** WW 9248293  
**ELLE Group #:** 1859370  
**Matrix:** Groundwater

**Project Name:** 96097

**Submission Date/Time:** 10/05/2017 09:40  
**Collection Date/Time:** 10/02/2017 14:28

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>			<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	Acetone	67-64-1	N.D.	0.006	0.020	1
10335	Benzene	71-43-2	N.D.	0.0005	0.001	1
10335	Bromodichloromethane	75-27-4	N.D.	0.0005	0.001	1
10335	Bromoform	75-25-2	N.D.	0.0005	0.004	1
10335	Bromomethane	74-83-9	N.D.	0.0005	0.001	1
10335	2-Butanone	78-93-3	N.D.	0.003	0.010	1
10335	Carbon Disulfide	75-15-0	N.D.	0.001	0.005	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.0005	0.001	1
10335	Chlorobenzene	108-90-7	N.D.	0.0005	0.001	1
10335	Chloroethane	75-00-3	N.D.	0.0005	0.001	1
10335	Chloroform	67-66-3	N.D.	0.0005	0.001	1
10335	Chloromethane	74-87-3	N.D.	0.0005	0.001	1
10335	Cyclohexane	110-82-7	N.D.	0.002	0.005	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.005	1
10335	Dibromochloromethane	124-48-1	N.D.	0.0005	0.001	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.001	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.005	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.005	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.005	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.0005	0.001	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.0005	0.001	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0005	0.001	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0005	0.001	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.0005	0.001	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.0005	0.001	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.0005	0.001	1
10335	Ethylbenzene	100-41-4	N.D.	0.0005	0.001	1
10335	Freon 113	76-13-1	N.D.	0.002	0.010	1
10335	2-Hexanone	591-78-6	N.D.	0.003	0.010	1
10335	Isopropylbenzene	98-82-8	N.D.	0.001	0.005	1
10335	Methyl Acetate	79-20-9	N.D.	0.001	0.005	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.001	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.010	1
10335	Methylcyclohexane	108-87-2	N.D.	0.001	0.005	1
10335	Methylene Chloride	75-09-2	N.D.	0.0005	0.001	1
10335	Styrene	100-42-5	N.D.	0.001	0.005	1
10335	1,1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.0005	0.001	1
10335	Tetrachloroethene	127-18-4	N.D.	0.0005	0.001	1
10335	Toluene	108-88-3	N.D.	0.0005	0.001	1

\*=This limit was used in the evaluation of the final result



**Sample Description:** MW-6-W-171002 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
ELLE Sample #: WW 9248293  
ELLE Group #: 1859370  
Matrix: Groundwater

**Project Name:** 96097

Submittal Date/Time: 10/05/2017 09:40  
Collection Date/Time: 10/02/2017 14:28

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.005	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.0005	0.001	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.0005	0.001	1
10335	Trichloroethene	79-01-6	N.D.	0.0005	0.001	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.0005	0.001	1
10335	Vinyl Chloride	75-01-4	N.D.	0.0005	0.001	1
10335	Xylene (Total)	1330-20-7	N.D.	0.0005	0.001	1
<b>GC Volatiles</b>		<b>AK 101</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
01438	TPH-GRO AK water C6-C10	n.a.	N.D.	0.010	0.10	1

### Sample Comments

State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4172851AA	10/12/2017 16:37	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4172851AA	10/12/2017 16:37	Brett W Kenyon	1
01438	TPH-GRO AK water C6-C10	AK 101	1	17282B20A	10/09/2017 12:56	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17282B20A	10/09/2017 12:56	Marie D Beamenderfer	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-7-W-171002 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
**ELLE Sample #:** WW 9248294  
**ELLE Group #:** 1859370  
**Matrix:** Groundwater

**Project Name:** 96097

**Submittal Date/Time:** 10/05/2017 09:40  
**Collection Date/Time:** 10/02/2017 10:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>			<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	Acetone	67-64-1	0.038 J	0.012	0.040	2
10335	Benzene	71-43-2	0.009	0.001	0.002	2
10335	Bromodichloromethane	75-27-4	N.D.	0.001	0.002	2
10335	Bromoform	75-25-2	N.D.	0.001	0.008	2
10335	Bromomethane	74-83-9	N.D.	0.001	0.002	2
10335	2-Butanone	78-93-3	0.021	0.006	0.020	2
10335	Carbon Disulfide	75-15-0	N.D.	0.002	0.010	2
10335	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.002	2
10335	Chlorobenzene	108-90-7	N.D.	0.001	0.002	2
10335	Chloroethane	75-00-3	0.002	0.001	0.002	2
10335	Chloroform	67-66-3	N.D.	0.001	0.002	2
10335	Chloromethane	74-87-3	0.001 J	0.001	0.002	2
10335	Cyclohexane	110-82-7	0.46	0.004	0.010	2
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.004	0.010	2
10335	Dibromochloromethane	124-48-1	N.D.	0.001	0.002	2
10335	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.002	2
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.002	0.010	2
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.002	0.010	2
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.002	0.010	2
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.001	0.002	2
10335	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.002	2
10335	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.002	2
10335	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.002	2
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.002	2
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.002	2
10335	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.002	2
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.002	2
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.002	2
10335	Ethylbenzene	100-41-4	1.2	0.010	0.020	20
10335	Freon 113	76-13-1	N.D.	0.004	0.020	2
10335	2-Hexanone	591-78-6	N.D.	0.006	0.020	2
10335	Isopropylbenzene	98-82-8	0.11	0.002	0.010	2
10335	Methyl Acetate	79-20-9	N.D.	0.002	0.010	2
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.001	0.002	2
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.006	0.020	2
10335	Methylcyclohexane	108-87-2	0.15	0.002	0.010	2
10335	Methylene Chloride	75-09-2	N.D.	0.001	0.002	2
10335	Styrene	100-42-5	N.D.	0.002	0.010	2
10335	1,1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.002	2
10335	Tetrachloroethene	127-18-4	N.D.	0.001	0.002	2
10335	Toluene	108-88-3	0.033	0.001	0.002	2

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-7-W-171002 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
ELLE Sample #: WW 9248294  
ELLE Group #: 1859370  
Matrix: Groundwater

**Project Name:** 96097

Submittal Date/Time: 10/05/2017 09:40  
Collection Date/Time: 10/02/2017 10:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.002	0.010	2
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.002	2
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.002	2
10335	Trichloroethene	79-01-6	N.D.	0.001	0.002	2
10335	Trichlorofluoromethane	75-69-4	N.D.	0.001	0.002	2
10335	Vinyl Chloride	75-01-4	N.D.	0.001	0.002	2
10335	Xylene (Total)	1330-20-7	1.2	0.001	0.002	2
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270C SIM</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
08357	Acenaphthene	83-32-9	0.00012	0.0000095	0.000047	1
08357	Acenaphthylene	208-96-8	N.D.	0.0000095	0.000047	1
08357	Anthracene	120-12-7	N.D.	0.0000095	0.000047	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.0000095	0.000047	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.0000095	0.000047	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.0000095	0.000047	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.0000095	0.000047	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.0000095	0.000047	1
08357	Chrysene	218-01-9	N.D.	0.0000095	0.000047	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0000095	0.000047	1
08357	Fluoranthene	206-44-0	N.D.	0.0000095	0.000047	1
08357	Fluorene	86-73-7	0.000055	0.0000095	0.000047	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0000095	0.000047	1
08357	Naphthalene	91-20-3	0.17	0.00057	0.0011	20
08357	Phenanthrene	85-01-8	0.000032 J	0.000028	0.000057	1
08357	Pyrene	129-00-0	N.D.	0.0000095	0.000047	1
<b>GC Volatiles</b>		<b>AK 101</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
01438	TPH-GRO AK water C6-C10	n.a.	12	0.050	0.50	5
<b>GC Petroleum Hydrocarbons</b>		<b>AK 102-SV 4/8/02</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
13025	DRO C10-C25	n.a.	2.8	0.051	0.25	1

The recovery for a target analyte(s) in the Laboratory Control spike(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is within our statistically derived limits the data is reported.

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-7-W-171002 Grab Groundwater  
**Facility# 96097**  
**303 W. Fireweed Lane - Anchorage, AK**

**ChevronTexaco**  
**ELLE Sample #: WW 9248294**  
**ELLE Group #: 1859370**  
**Matrix: Groundwater**

**Project Name: 96097**

**Submittal Date/Time:** 10/05/2017 09:40  
**Collection Date/Time:** 10/02/2017 10:00

## Sample Comments

State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4172851AA	10/12/2017 19:16	Brett W Kenyon	2
10335	TCL 4.3 VOCs	SW-846 8260B	1	4172851AA	10/12/2017 19:39	Brett W Kenyon	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4172851AA	10/12/2017 19:16	Brett W Kenyon	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	4172851AA	10/12/2017 19:39	Brett W Kenyon	20
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	17282WAM026	10/11/2017 19:28	Catherine E Bachman	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	17282WAM026	10/16/2017 08:28	Catherine E Bachman	20
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	17282WAM026	10/09/2017 17:00	Ryan J Dowdy	1
01438	TPH-GRO AK water C6-C10	AK 101	1	17282B20A	10/09/2017 20:18	Marie D Beamenderfer	5
01146	GC VOA Water Prep	SW-846 5030B	1	17282B20A	10/09/2017 20:18	Marie D Beamenderfer	5
13025	AK 102-SV DRO	AK 102-SV 4/8/02	1	172830023A	10/11/2017 20:12	Tyler O Griffin	1
13027	Mini-Ext. AK 102-SV DRO	AK 102/AK 103 04/08/02	1	172830023A	10/11/2017 12:30	Bradley W VanLeuven	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-9-W-171002 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
**ELLE Sample #:** WW 9248295  
**ELLE Group #:** 1859370  
**Matrix:** Groundwater

**Project Name:** 96097

**Submission Date/Time:** 10/05/2017 09:40  
**Collection Date/Time:** 10/02/2017 13:35

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>			<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	Acetone	67-64-1	N.D.	0.006	0.020	1
10335	Benzene	71-43-2	N.D.	0.0005	0.001	1
10335	Bromodichloromethane	75-27-4	N.D.	0.0005	0.001	1
10335	Bromoform	75-25-2	N.D.	0.0005	0.004	1
10335	Bromomethane	74-83-9	N.D.	0.0005	0.001	1
10335	2-Butanone	78-93-3	N.D.	0.003	0.010	1
10335	Carbon Disulfide	75-15-0	N.D.	0.001	0.005	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.0005	0.001	1
10335	Chlorobenzene	108-90-7	N.D.	0.0005	0.001	1
10335	Chloroethane	75-00-3	N.D.	0.0005	0.001	1
10335	Chloroform	67-66-3	N.D.	0.0005	0.001	1
10335	Chloromethane	74-87-3	N.D.	0.0005	0.001	1
10335	Cyclohexane	110-82-7	N.D.	0.002	0.005	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.005	1
10335	Dibromochloromethane	124-48-1	N.D.	0.0005	0.001	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.001	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.005	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.005	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.005	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.0005	0.001	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.0005	0.001	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0005	0.001	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0005	0.001	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.0005	0.001	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.0005	0.001	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.0005	0.001	1
10335	Ethylbenzene	100-41-4	N.D.	0.0005	0.001	1
10335	Freon 113	76-13-1	N.D.	0.002	0.010	1
10335	2-Hexanone	591-78-6	N.D.	0.003	0.010	1
10335	Isopropylbenzene	98-82-8	N.D.	0.001	0.005	1
10335	Methyl Acetate	79-20-9	N.D.	0.001	0.005	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.001	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.010	1
10335	Methylcyclohexane	108-87-2	N.D.	0.001	0.005	1
10335	Methylene Chloride	75-09-2	N.D.	0.0005	0.001	1
10335	Styrene	100-42-5	N.D.	0.001	0.005	1
10335	1,1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.0005	0.001	1
10335	Tetrachloroethene	127-18-4	N.D.	0.0005	0.001	1
10335	Toluene	108-88-3	N.D.	0.0005	0.001	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-9-W-171002 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
ELLE Sample #: WW 9248295  
ELLE Group #: 1859370  
Matrix: Groundwater

**Project Name:** 96097

Submission Date/Time: 10/05/2017 09:40  
Collection Date/Time: 10/02/2017 13:35

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260B</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.005	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.0005	0.001	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.0005	0.001	1
10335	Trichloroethene	79-01-6	N.D.	0.0005	0.001	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.0005	0.001	1
10335	Vinyl Chloride	75-01-4	N.D.	0.0005	0.001	1
10335	Xylene (Total)	1330-20-7	N.D.	0.0005	0.001	1
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270C SIM</b>	<b>mg/l</b>	<b>mg/l</b>	
08357	Acenaphthene	83-32-9	0.000011 J	0.0000097	0.000048	1
08357	Acenaphthylene	208-96-8	N.D.	0.0000097	0.000048	1
08357	Anthracene	120-12-7	N.D.	0.0000097	0.000048	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.0000097	0.000048	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.0000097	0.000048	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.0000097	0.000048	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.0000097	0.000048	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.0000097	0.000048	1
08357	Chrysene	218-01-9	N.D.	0.0000097	0.000048	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0000097	0.000048	1
08357	Fluoranthene	206-44-0	N.D.	0.0000097	0.000048	1
08357	Fluorene	86-73-7	0.000014 J	0.0000097	0.000048	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0000097	0.000048	1
08357	Naphthalene	91-20-3	0.00021	0.000029	0.000058	1
08357	Phenanthrene	85-01-8	N.D.	0.000029	0.000058	1
08357	Pyrene	129-00-0	N.D.	0.0000097	0.000048	1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

GC Volatiles	AK 101	mg/l	mg/l	mg/l
01438	TPH-GRO AK water C6-C10	n.a.	0.092 J	0.10

GC Petroleum Hydrocarbons	AK 102-SV 4/8/02	mg/l	mg/l	mg/l
13025	DRO C10-C25	n.a.	0.14 J	0.25

The recovery for a target analyte(s) in the Laboratory Control spike(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is within our statistically derived limits the data is reported.

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-9-W-171002 Grab Groundwater  
**Facility# 96097**  
**303 W. Fireweed Lane - Anchorage, AK**

**ChevronTexaco**  
**ELLE Sample #: WW 9248295**  
**ELLE Group #: 1859370**  
**Matrix: Groundwater**

**Project Name:** 96097

**Submission Date/Time:** 10/05/2017 09:40  
**Collection Date/Time:** 10/02/2017 13:35

## Sample Comments

State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4172851AA	10/12/2017 17:00	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4172851AA	10/12/2017 17:00	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	17282WAM026	10/11/2017 19:58	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	17282WAM026	10/09/2017 17:00	Ryan J Dowdy	1
01438	TPH-GRO AK water C6-C10	AK 101	1	17282B20A	10/09/2017 13:23	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17282B20A	10/09/2017 13:23	Marie D Beamenderfer	1
13025	AK 102-SV DRO	AK 102-SV 4/8/02	1	172830023A	10/11/2017 20:36	Tyler O Griffin	1
13027	Mini-Ext. AK 102-SV DRO	AK 102/AK 103 04/08/02	1	172830023A	10/11/2017 12:30	Bradley W VanLeuven	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-10R-W-171002 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
**ELLE Sample #:** WW 9248296  
**ELLE Group #:** 1859370  
**Matrix:** Groundwater

**Project Name:** 96097

**Submission Date/Time:** 10/05/2017 09:40

**Collection Date/Time:** 10/02/2017 10:55

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	Acetone	67-64-1	0.009 J	0.006	0.020	1
10335	Benzene	71-43-2	0.001 J	0.0005	0.001	1
10335	Bromodichloromethane	75-27-4	N.D.	0.0005	0.001	1
10335	Bromoform	75-25-2	N.D.	0.0005	0.004	1
10335	Bromomethane	74-83-9	N.D.	0.0005	0.001	1
10335	2-Butanone	78-93-3	0.006 J	0.003	0.010	1
10335	Carbon Disulfide	75-15-0	N.D.	0.001	0.005	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.0005	0.001	1
10335	Chlorobenzene	108-90-7	N.D.	0.0005	0.001	1
10335	Chloroethane	75-00-3	N.D.	0.0005	0.001	1
10335	Chloroform	67-66-3	N.D.	0.0005	0.001	1
10335	Chloromethane	74-87-3	N.D.	0.0005	0.001	1
10335	Cyclohexane	110-82-7	0.029	0.002	0.005	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.005	1
10335	Dibromochloromethane	124-48-1	N.D.	0.0005	0.001	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.001	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.005	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.005	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.005	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.0005	0.001	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.0005	0.001	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0005	0.001	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0005	0.001	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.0005	0.001	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.0005	0.001	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.0005	0.001	1
10335	Ethylbenzene	100-41-4	0.10	0.0005	0.001	1
10335	Freon 113	76-13-1	N.D.	0.002	0.010	1
10335	2-Hexanone	591-78-6	N.D.	0.003	0.010	1
10335	Isopropylbenzene	98-82-8	0.022	0.001	0.005	1
10335	Methyl Acetate	79-20-9	N.D.	0.001	0.005	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.001	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.010	1
10335	Methylcyclohexane	108-87-2	0.037	0.001	0.005	1
10335	Methylene Chloride	75-09-2	N.D.	0.0005	0.001	1
10335	Styrene	100-42-5	N.D.	0.001	0.005	1
10335	1,1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.0005	0.001	1
10335	Tetrachloroethene	127-18-4	N.D.	0.0005	0.001	1
10335	Toluene	108-88-3	0.001	0.0005	0.001	1

\*=This limit was used in the evaluation of the final result



**Sample Description:** MW-10R-W-171002 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
ELLE Sample #: WW 9248296  
ELLE Group #: 1859370  
Matrix: Groundwater

**Project Name:** 96097

Submittal Date/Time: 10/05/2017 09:40  
Collection Date/Time: 10/02/2017 10:55

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.005	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.0005	0.001	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.0005	0.001	1
10335	Trichloroethene	79-01-6	N.D.	0.0005	0.001	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.0005	0.001	1
10335	Vinyl Chloride	75-01-4	N.D.	0.0005	0.001	1
10335	Xylene (Total)	1330-20-7	0.093	0.0005	0.001	1
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270C SIM</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
08357	Acenaphthene	83-32-9	0.000095	0.000095	0.000048	1
08357	Acenaphthylene	208-96-8	N.D.	0.000095	0.000048	1
08357	Anthracene	120-12-7	N.D.	0.000095	0.000048	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.000095	0.000048	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.000095	0.000048	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.000095	0.000048	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.000095	0.000048	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.000095	0.000048	1
08357	Chrysene	218-01-9	N.D.	0.000095	0.000048	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.000095	0.000048	1
08357	Fluoranthene	206-44-0	0.000012 J	0.000095	0.000048	1
08357	Fluorene	86-73-7	0.000041 J	0.000095	0.000048	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.000095	0.000048	1
08357	Naphthalene	91-20-3	0.028	0.00029	0.00057	10
08357	Phenanthrene	85-01-8	N.D.	0.000029	0.000057	1
08357	Pyrene	129-00-0	0.000016 J	0.000095	0.000048	1
<b>GC Volatiles</b>		<b>AK 101</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
01438	TPH-GRO AK water C6-C10	n.a.	2.9	0.010	0.10	1
<b>GC Petroleum Hydrocarbons</b>		<b>AK 102-SV 4/8/02</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
13025	DRO C10-C25	n.a.	0.66	0.050	0.25	1

The recovery for a target analyte(s) in the Laboratory Control spike(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is within our statistically derived limits the data is reported.

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-10R-W-171002 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
**ELLE Sample #:** WW 9248296  
**ELLE Group #:** 1859370  
**Matrix:** Groundwater

**Project Name:** 96097

**Submittal Date/Time:** 10/05/2017 09:40  
**Collection Date/Time:** 10/02/2017 10:55

## Sample Comments

State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4172851AA	10/12/2017 18:30	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4172851AA	10/12/2017 18:30	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	17282WAM026	10/11/2017 20:29	Catherine E Bachman	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	17282WAM026	10/16/2017 08:59	Catherine E Bachman	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	17282WAM026	10/09/2017 17:00	Ryan J Dowdy	1
01438	TPH-GRO AK water C6-C10	AK 101	1	17282B20A	10/09/2017 13:51	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17282B20A	10/09/2017 13:51	Marie D Beamenderfer	1
13025	AK 102-SV DRO	AK 102-SV 4/8/02	1	172830023A	10/11/2017 21:00	Tyler O Griffin	1
13027	Mini-Ext. AK 102-SV DRO	AK 102/AK 103 04/08/02	1	172830023A	10/11/2017 12:30	Bradley W VanLeuven	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-8-W-171003 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
**ELLE Sample #:** WW 9248297  
**ELLE Group #:** 1859370  
**Matrix:** Groundwater

**Project Name:** 96097

Submittal Date/Time: 10/05/2017 09:40

Collection Date/Time: 10/03/2017 11:36

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>			<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	Acetone	67-64-1	N.D.	0.006	0.020	1
10335	Benzene	71-43-2	0.001	0.0005	0.001	1
10335	Bromodichloromethane	75-27-4	N.D.	0.0005	0.001	1
10335	Bromoform	75-25-2	N.D.	0.0005	0.004	1
10335	Bromomethane	74-83-9	N.D.	0.0005	0.001	1
10335	2-Butanone	78-93-3	N.D.	0.003	0.010	1
10335	Carbon Disulfide	75-15-0	N.D.	0.001	0.005	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.0005	0.001	1
10335	Chlorobenzene	108-90-7	N.D.	0.0005	0.001	1
10335	Chloroethane	75-00-3	N.D.	0.0005	0.001	1
10335	Chloroform	67-66-3	N.D.	0.0005	0.001	1
10335	Chloromethane	74-87-3	N.D.	0.0005	0.001	1
10335	Cyclohexane	110-82-7	N.D.	0.002	0.005	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.005	1
10335	Dibromochloromethane	124-48-1	N.D.	0.0005	0.001	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.001	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.005	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.005	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.005	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.0005	0.001	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.0005	0.001	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0005	0.001	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0005	0.001	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.0005	0.001	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.0005	0.001	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.0005	0.001	1
10335	Ethylbenzene	100-41-4	N.D.	0.0005	0.001	1
10335	Freon 113	76-13-1	N.D.	0.002	0.010	1
10335	2-Hexanone	591-78-6	N.D.	0.003	0.010	1
10335	Isopropylbenzene	98-82-8	N.D.	0.001	0.005	1
10335	Methyl Acetate	79-20-9	N.D.	0.001	0.005	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.001	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.010	1
10335	Methylcyclohexane	108-87-2	N.D.	0.001	0.005	1
10335	Methylene Chloride	75-09-2	N.D.	0.0005	0.001	1
10335	Styrene	100-42-5	N.D.	0.001	0.005	1
10335	1,1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.0005	0.001	1
10335	Tetrachloroethene	127-18-4	N.D.	0.0005	0.001	1
10335	Toluene	108-88-3	N.D.	0.0005	0.001	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-8-W-171003 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
ELLE Sample #: WW 9248297  
ELLE Group #: 1859370  
Matrix: Groundwater

**Project Name:** 96097

Submittal Date/Time: 10/05/2017 09:40  
Collection Date/Time: 10/03/2017 11:36

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.005	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.0005	0.001	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.0005	0.001	1
10335	Trichloroethene	79-01-6	N.D.	0.0005	0.001	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.0005	0.001	1
10335	Vinyl Chloride	75-01-4	N.D.	0.0005	0.001	1
10335	Xylene (Total)	1330-20-7	N.D.	0.0005	0.001	1
<b>GC Volatiles</b>		<b>AK 101</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
01438	TPH-GRO AK water C6-C10	n.a.	0.010 J	0.010	0.10	1
<b>GC Petroleum Hydrocarbons</b>		<b>AK 102-SV 4/8/02</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
13025	DRO C10-C25	n.a.	N.D.	0.050	0.25	1

### Sample Comments

State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4172851AA	10/12/2017 17:22	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4172851AA	10/12/2017 17:22	Brett W Kenyon	1
01438	TPH-GRO AK water C6-C10	AK 101	1	17285A20A	10/16/2017 12:51	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17285A20A	10/16/2017 12:51	Marie D Beamenderfer	1
13025	AK 102-SV DRO	AK 102-SV 4/8/02	1	172890029A	10/17/2017 19:25	Tyler O Griffin	1
13027	Mini-Ext. AK 102-SV DRO	AK 102/AK 103 04/08/02	2	172890029A	10/17/2017 10:00	Oswaldo R Sanchez	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-12-W-171003 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
**ELLE Sample #:** WW 9248298  
**ELLE Group #:** 1859370  
**Matrix:** Groundwater

**Project Name:** 96097

**Submittal Date/Time:** 10/05/2017 09:40  
**Collection Date/Time:** 10/03/2017 12:50

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>			<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	Acetone	67-64-1	N.D.	0.006	0.020	1
10335	Benzene	71-43-2	0.003	0.0005	0.001	1
10335	Bromodichloromethane	75-27-4	N.D.	0.0005	0.001	1
10335	Bromoform	75-25-2	N.D.	0.0005	0.004	1
10335	Bromomethane	74-83-9	N.D.	0.0005	0.001	1
10335	2-Butanone	78-93-3	N.D.	0.003	0.010	1
10335	Carbon Disulfide	75-15-0	N.D.	0.001	0.005	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.0005	0.001	1
10335	Chlorobenzene	108-90-7	N.D.	0.0005	0.001	1
10335	Chloroethane	75-00-3	N.D.	0.0005	0.001	1
10335	Chloroform	67-66-3	N.D.	0.0005	0.001	1
10335	Chloromethane	74-87-3	N.D.	0.0005	0.001	1
10335	Cyclohexane	110-82-7	N.D.	0.002	0.005	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.005	1
10335	Dibromochloromethane	124-48-1	N.D.	0.0005	0.001	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.001	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.005	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.005	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.005	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.0005	0.001	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.0005	0.001	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0005	0.001	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0005	0.001	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.0005	0.001	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.0005	0.001	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.0005	0.001	1
10335	Ethylbenzene	100-41-4	N.D.	0.0005	0.001	1
10335	Freon 113	76-13-1	N.D.	0.002	0.010	1
10335	2-Hexanone	591-78-6	N.D.	0.003	0.010	1
10335	Isopropylbenzene	98-82-8	N.D.	0.001	0.005	1
10335	Methyl Acetate	79-20-9	N.D.	0.001	0.005	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.001	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.010	1
10335	Methylcyclohexane	108-87-2	N.D.	0.001	0.005	1
10335	Methylene Chloride	75-09-2	N.D.	0.0005	0.001	1
10335	Styrene	100-42-5	N.D.	0.001	0.005	1
10335	1,1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.0005	0.001	1
10335	Tetrachloroethene	127-18-4	N.D.	0.0005	0.001	1
10335	Toluene	108-88-3	N.D.	0.0005	0.001	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-12-W-171003 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
ELLE Sample #: WW 9248298  
ELLE Group #: 1859370  
Matrix: Groundwater

**Project Name:** 96097

Submittal Date/Time: 10/05/2017 09:40  
Collection Date/Time: 10/03/2017 12:50

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.005	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.0005	0.001	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.0005	0.001	1
10335	Trichloroethene	79-01-6	N.D.	0.0005	0.001	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.0005	0.001	1
10335	Vinyl Chloride	75-01-4	N.D.	0.0005	0.001	1
10335	Xylene (Total)	1330-20-7	N.D.	0.0005	0.001	1
<b>GC Volatiles</b>		<b>AK 101</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
01438	TPH-GRO AK water C6-C10	n.a.	0.012 J	0.010	0.10	1
<b>GC Petroleum Hydrocarbons</b>		<b>AK 102-SV 4/8/02</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
13025	DRO C10-C25	n.a.	0.76	0.053	0.27	1

### Sample Comments

State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4172851AA	10/12/2017 17:45	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4172851AA	10/12/2017 17:45	Brett W Kenyon	1
01438	TPH-GRO AK water C6-C10	AK 101	1	17282B20A	10/09/2017 14:46	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17282B20A	10/09/2017 14:46	Marie D Beamenderfer	1
13025	AK 102-SV DRO	AK 102-SV 4/8/02	1	172890029A	10/17/2017 21:19	Tyler O Griffin	1
13027	Mini-Ext. AK 102-SV DRO	AK 102/AK 103 04/08/02	2	172890029A	10/17/2017 10:00	Osvaldo R Sanchez	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-13-W-171003 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
ELLE Sample #: WW 9248299  
ELLE Group #: 1859370  
Matrix: Groundwater

**Project Name:** 96097

Submittal Date/Time: 10/05/2017 09:40  
Collection Date/Time: 10/03/2017 09:11

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>			<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	Acetone	67-64-1	N.D.	0.006	0.020	1
10335	Benzene	71-43-2	N.D.	0.0005	0.001	1
10335	Bromodichloromethane	75-27-4	N.D.	0.0005	0.001	1
10335	Bromoform	75-25-2	N.D.	0.0005	0.004	1
10335	Bromomethane	74-83-9	N.D.	0.0005	0.001	1
10335	2-Butanone	78-93-3	N.D.	0.003	0.010	1
10335	Carbon Disulfide	75-15-0	N.D.	0.001	0.005	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.0005	0.001	1
10335	Chlorobenzene	108-90-7	N.D.	0.0005	0.001	1
10335	Chloroethane	75-00-3	N.D.	0.0005	0.001	1
10335	Chloroform	67-66-3	N.D.	0.0005	0.001	1
10335	Chloromethane	74-87-3	N.D.	0.0005	0.001	1
10335	Cyclohexane	110-82-7	N.D.	0.002	0.005	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.005	1
10335	Dibromochloromethane	124-48-1	N.D.	0.0005	0.001	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.001	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.005	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.005	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.005	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.0005	0.001	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.0005	0.001	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0005	0.001	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0005	0.001	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.0005	0.001	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.0005	0.001	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.0005	0.001	1
10335	Ethylbenzene	100-41-4	N.D.	0.0005	0.001	1
10335	Freon 113	76-13-1	N.D.	0.002	0.010	1
10335	2-Hexanone	591-78-6	N.D.	0.003	0.010	1
10335	Isopropylbenzene	98-82-8	N.D.	0.001	0.005	1
10335	Methyl Acetate	79-20-9	N.D.	0.001	0.005	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.001	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.010	1
10335	Methylcyclohexane	108-87-2	N.D.	0.001	0.005	1
10335	Methylene Chloride	75-09-2	N.D.	0.0005	0.001	1
10335	Styrene	100-42-5	N.D.	0.001	0.005	1
10335	1,1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.0005	0.001	1
10335	Tetrachloroethene	127-18-4	N.D.	0.0005	0.001	1
10335	Toluene	108-88-3	N.D.	0.0005	0.001	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-13-W-171003 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
ELLE Sample #: WW 9248299  
ELLE Group #: 1859370  
Matrix: Groundwater

**Project Name:** 96097

Submittal Date/Time: 10/05/2017 09:40  
Collection Date/Time: 10/03/2017 09:11

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.005	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.0005	0.001	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.0005	0.001	1
10335	Trichloroethene	79-01-6	N.D.	0.0005	0.001	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.0005	0.001	1
10335	Vinyl Chloride	75-01-4	N.D.	0.0005	0.001	1
10335	Xylene (Total)	1330-20-7	N.D.	0.0005	0.001	1
<b>GC Volatiles</b>		<b>AK 101</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
01438	TPH-GRO AK water C6-C10	n.a.	N.D.	0.010	0.10	1
<b>GC Petroleum Hydrocarbons</b>		<b>AK 102-SV 4/8/02</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
13025	DRO C10-C25	n.a.	0.062 J	0.051	0.25	1

### Sample Comments

State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4172851AA	10/12/2017 18:08	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4172851AA	10/12/2017 18:08	Brett W Kenyon	1
01438	TPH-GRO AK water C6-C10	AK 101	1	17282B20A	10/09/2017 15:14	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17282B20A	10/09/2017 15:14	Marie D Beamenderfer	1
13025	AK 102-SV DRO	AK 102-SV 4/8/02	1	172890029A	10/17/2017 21:43	Tyler O Griffin	1
13027	Mini-Ext. AK 102-SV DRO	AK 102/AK 103 04/08/02	2	172890029A	10/17/2017 10:00	Oswaldo R Sanchez	1

\*=This limit was used in the evaluation of the final result



**Sample Description:** MW-14-W-171003 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
ELLE Sample #: WW 9248300  
ELLE Group #: 1859370  
Matrix: Groundwater

**Project Name:** 96097

Submission Date/Time: 10/05/2017 09:40

Collection Date/Time: 10/03/2017 10:41

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>			<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	Acetone	67-64-1	N.D.	0.006	0.020	1
10335	Benzene	71-43-2	0.003	0.0005	0.001	1
10335	Bromodichloromethane	75-27-4	N.D.	0.0005	0.001	1
10335	Bromoform	75-25-2	N.D.	0.0005	0.004	1
10335	Bromomethane	74-83-9	N.D.	0.0005	0.001	1
10335	2-Butanone	78-93-3	N.D.	0.003	0.010	1
10335	Carbon Disulfide	75-15-0	N.D.	0.001	0.005	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.0005	0.001	1
10335	Chlorobenzene	108-90-7	N.D.	0.0005	0.001	1
10335	Chloroethane	75-00-3	N.D.	0.0005	0.001	1
10335	Chloroform	67-66-3	N.D.	0.0005	0.001	1
10335	Chloromethane	74-87-3	N.D.	0.0005	0.001	1
10335	Cyclohexane	110-82-7	N.D.	0.002	0.005	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.005	1
10335	Dibromochloromethane	124-48-1	N.D.	0.0005	0.001	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.001	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.005	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.005	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.005	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.0005	0.001	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.0005	0.001	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0005	0.001	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0005	0.001	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.0005	0.001	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.0005	0.001	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.0005	0.001	1
10335	Ethylbenzene	100-41-4	N.D.	0.0005	0.001	1
10335	Freon 113	76-13-1	N.D.	0.002	0.010	1
10335	2-Hexanone	591-78-6	N.D.	0.003	0.010	1
10335	Isopropylbenzene	98-82-8	N.D.	0.001	0.005	1
10335	Methyl Acetate	79-20-9	N.D.	0.001	0.005	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.001	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.010	1
10335	Methylcyclohexane	108-87-2	N.D.	0.001	0.005	1
10335	Methylene Chloride	75-09-2	N.D.	0.0005	0.001	1
10335	Styrene	100-42-5	N.D.	0.001	0.005	1
10335	1,1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.0005	0.001	1
10335	Tetrachloroethene	127-18-4	N.D.	0.0005	0.001	1
10335	Toluene	108-88-3	N.D.	0.0005	0.001	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-14-W-171003 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
ELLE Sample #: WW 9248300  
ELLE Group #: 1859370  
Matrix: Groundwater

**Project Name:** 96097

Submittal Date/Time: 10/05/2017 09:40  
Collection Date/Time: 10/03/2017 10:41

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.005	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.0005	0.001	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.0005	0.001	1
10335	Trichloroethene	79-01-6	N.D.	0.0005	0.001	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.0005	0.001	1
10335	Vinyl Chloride	75-01-4	N.D.	0.0005	0.001	1
10335	Xylene (Total)	1330-20-7	N.D.	0.0005	0.001	1
<b>GC Volatiles</b>		<b>AK 101</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
01438	TPH-GRO AK water C6-C10	n.a.	N.D.	0.010	0.10	1
<b>GC Petroleum Hydrocarbons</b>		<b>AK 102-SV 4/8/02</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
13025	DRO C10-C25	n.a.	N.D.	0.053	0.27	1

### Sample Comments

State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4172852AA	10/13/2017 01:17	Patrick T Herres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4172852AA	10/13/2017 01:17	Patrick T Herres	1
01438	TPH-GRO AK water C6-C10	AK 101	1	17282B20A	10/09/2017 15:41	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17282B20A	10/09/2017 15:41	Marie D Beamenderfer	1
13025	AK 102-SV DRO	AK 102-SV 4/8/02	1	172890029A	10/17/2017 22:07	Tyler O Griffin	1
13027	Mini-Ext. AK 102-SV DRO	AK 102/AK 103 04/08/02	2	172890029A	10/17/2017 10:00	Oswaldo R Sanchez	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-16-W-171003 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
**ELLE Sample #:** WW 9248301  
**ELLE Group #:** 1859370  
**Matrix:** Groundwater

**Project Name:** 96097

**Submission Date/Time:** 10/05/2017 09:40

**Collection Date/Time:** 10/03/2017 09:56

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>			<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	Acetone	67-64-1	N.D.	0.006	0.020	1
10335	Benzene	71-43-2	N.D.	0.0005	0.001	1
10335	Bromodichloromethane	75-27-4	N.D.	0.0005	0.001	1
10335	Bromoform	75-25-2	N.D.	0.0005	0.004	1
10335	Bromomethane	74-83-9	N.D.	0.0005	0.001	1
10335	2-Butanone	78-93-3	N.D.	0.003	0.010	1
10335	Carbon Disulfide	75-15-0	N.D.	0.001	0.005	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.0005	0.001	1
10335	Chlorobenzene	108-90-7	N.D.	0.0005	0.001	1
10335	Chloroethane	75-00-3	N.D.	0.0005	0.001	1
10335	Chloroform	67-66-3	N.D.	0.0005	0.001	1
10335	Chloromethane	74-87-3	N.D.	0.0005	0.001	1
10335	Cyclohexane	110-82-7	N.D.	0.002	0.005	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.005	1
10335	Dibromochloromethane	124-48-1	N.D.	0.0005	0.001	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.001	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.005	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.005	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.005	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.0005	0.001	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.0005	0.001	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0005	0.001	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0005	0.001	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.0005	0.001	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.0005	0.001	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.0005	0.001	1
10335	Ethylbenzene	100-41-4	N.D.	0.0005	0.001	1
10335	Freon 113	76-13-1	N.D.	0.002	0.010	1
10335	2-Hexanone	591-78-6	N.D.	0.003	0.010	1
10335	Isopropylbenzene	98-82-8	N.D.	0.001	0.005	1
10335	Methyl Acetate	79-20-9	N.D.	0.001	0.005	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.001	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.010	1
10335	Methylcyclohexane	108-87-2	N.D.	0.001	0.005	1
10335	Methylene Chloride	75-09-2	N.D.	0.0005	0.001	1
10335	Styrene	100-42-5	N.D.	0.001	0.005	1
10335	1,1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.0005	0.001	1
10335	Tetrachloroethene	127-18-4	N.D.	0.0005	0.001	1
10335	Toluene	108-88-3	N.D.	0.0005	0.001	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** MW-16-W-171003 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
ELLE Sample #: WW 9248301  
ELLE Group #: 1859370  
Matrix: Groundwater

**Project Name:** 96097

Submittal Date/Time: 10/05/2017 09:40  
Collection Date/Time: 10/03/2017 09:56

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.005	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.0005	0.001	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.0005	0.001	1
10335	Trichloroethene	79-01-6	N.D.	0.0005	0.001	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.0005	0.001	1
10335	Vinyl Chloride	75-01-4	N.D.	0.0005	0.001	1
10335	Xylene (Total)	1330-20-7	N.D.	0.0005	0.001	1
<b>GC Volatiles</b>		<b>AK 101</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
01438	TPH-GRO AK water C6-C10	n.a.	N.D.	0.010	0.10	1
<b>GC Petroleum Hydrocarbons</b>		<b>AK 102-SV 4/8/02</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
13025	DRO C10-C25	n.a.	N.D.	0.052	0.26	1

### Sample Comments

State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4172852AA	10/13/2017 01:40	Patrick T Herres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4172852AA	10/13/2017 01:40	Patrick T Herres	1
01438	TPH-GRO AK water C6-C10	AK 101	1	17282B20A	10/09/2017 16:09	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17282B20A	10/09/2017 16:09	Marie D Beamenderfer	1
13025	AK 102-SV DRO	AK 102-SV 4/8/02	1	172890029A	10/17/2017 22:31	Tyler O Griffin	1
13027	Mini-Ext. AK 102-SV DRO	AK 102/AK 103 04/08/02	2	172890029A	10/17/2017 10:00	Oswaldo R Sanchez	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-1-WD-171002 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
**ELLE Sample #:** WW 9248302  
**ELLE Group #:** 1859370  
**Matrix:** Groundwater

**Project Name:** 96097

**Submission Date/Time:** 10/05/2017 09:40  
**Collection Date/Time:** 10/02/2017

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>			<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	Acetone	67-64-1	N.D.	0.006	0.020	1
10335	Benzene	71-43-2	N.D.	0.0005	0.001	1
10335	Bromodichloromethane	75-27-4	N.D.	0.0005	0.001	1
10335	Bromoform	75-25-2	N.D.	0.0005	0.004	1
10335	Bromomethane	74-83-9	N.D.	0.0005	0.001	1
10335	2-Butanone	78-93-3	N.D.	0.003	0.010	1
10335	Carbon Disulfide	75-15-0	N.D.	0.001	0.005	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.0005	0.001	1
10335	Chlorobenzene	108-90-7	N.D.	0.0005	0.001	1
10335	Chloroethane	75-00-3	N.D.	0.0005	0.001	1
10335	Chloroform	67-66-3	N.D.	0.0005	0.001	1
10335	Chloromethane	74-87-3	N.D.	0.0005	0.001	1
10335	Cyclohexane	110-82-7	N.D.	0.002	0.005	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.005	1
10335	Dibromochloromethane	124-48-1	N.D.	0.0005	0.001	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.001	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.005	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.005	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.005	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.0005	0.001	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.0005	0.001	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0005	0.001	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0005	0.001	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.0005	0.001	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.0005	0.001	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.0005	0.001	1
10335	Ethylbenzene	100-41-4	N.D.	0.0005	0.001	1
10335	Freon 113	76-13-1	N.D.	0.002	0.010	1
10335	2-Hexanone	591-78-6	N.D.	0.003	0.010	1
10335	Isopropylbenzene	98-82-8	N.D.	0.001	0.005	1
10335	Methyl Acetate	79-20-9	N.D.	0.001	0.005	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.001	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.010	1
10335	Methylcyclohexane	108-87-2	N.D.	0.001	0.005	1
10335	Methylene Chloride	75-09-2	N.D.	0.0005	0.001	1
10335	Styrene	100-42-5	N.D.	0.001	0.005	1
10335	1,1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.0005	0.001	1
10335	Tetrachloroethene	127-18-4	N.D.	0.0005	0.001	1
10335	Toluene	108-88-3	N.D.	0.0005	0.001	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-1-WD-171002 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
ELLE Sample #: WW 9248302  
ELLE Group #: 1859370  
Matrix: Groundwater

**Project Name:** 96097

Submission Date/Time: 10/05/2017 09:40  
Collection Date/Time: 10/02/2017

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.005	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.0005	0.001	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.0005	0.001	1
10335	Trichloroethene	79-01-6	N.D.	0.0005	0.001	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.0005	0.001	1
10335	Vinyl Chloride	75-01-4	N.D.	0.0005	0.001	1
10335	Xylene (Total)	1330-20-7	N.D.	0.0005	0.001	1
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270C SIM</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
08357	Acenaphthene	83-32-9	N.D.	0.0000095	0.000048	1
08357	Acenaphthylene	208-96-8	0.000011 J	0.0000095	0.000048	1
08357	Anthracene	120-12-7	N.D.	0.0000095	0.000048	1
08357	Benzo(a)anthracene	56-55-3	0.000011 J	0.0000095	0.000048	1
08357	Benzo(a)pyrene	50-32-8	0.000030 J	0.0000095	0.000048	1
08357	Benzo(b)fluoranthene	205-99-2	0.000070	0.0000095	0.000048	1
08357	Benzo(g,h,i)perylene	191-24-2	0.000049	0.0000095	0.000048	1
08357	Benzo(k)fluoranthene	207-08-9	0.000015 J	0.0000095	0.000048	1
08357	Chrysene	218-01-9	0.000064	0.0000095	0.000048	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0000095	0.000048	1
08357	Fluoranthene	206-44-0	0.000031 J	0.0000095	0.000048	1
08357	Fluorene	86-73-7	N.D.	0.0000095	0.000048	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.000018 J	0.0000095	0.000048	1
08357	Naphthalene	91-20-3	N.D.	0.000029	0.000057	1
08357	Phenanthrene	85-01-8	N.D.	0.000029	0.000057	1
08357	Pyrene	129-00-0	0.000052	0.0000095	0.000048	1
<b>GC Volatiles</b>		<b>AK 101</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
01438	TPH-GRO AK water C6-C10	n.a.	0.038 J	0.010	0.10	1
<b>GC Petroleum Hydrocarbons</b>		<b>AK 102-SV 4/8/02</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
13025	DRO C10-C25	n.a.	1.1	0.050	0.25	1

The recovery for a target analyte(s) in the Laboratory Control spike(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is within our statistically derived limits the data is reported.

\*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-1-WD-171002 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
**ELLE Sample #:** WW 9248302  
**ELLE Group #:** 1859370  
**Matrix:** Groundwater

**Project Name:** 96097

**Submittal Date/Time:** 10/05/2017 09:40  
**Collection Date/Time:** 10/02/2017

## Sample Comments

State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4172852AA	10/13/2017 02:02	Patrick T Herres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4172852AA	10/13/2017 02:02	Patrick T Herres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	17282WAM026	10/11/2017 21:00	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	17282WAM026	10/09/2017 17:00	Ryan J Dowdy	1
01438	TPH-GRO AK water C6-C10	AK 101	1	17282B20A	10/09/2017 17:04	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17282B20A	10/09/2017 17:04	Marie D Beamenderfer	1
13025	AK 102-SV DRO	AK 102-SV 4/8/02	1	172830023A	10/12/2017 16:49	Tyler O Griffin	1
13027	Mini-Ext. AK 102-SV DRO	AK 102/AK 103 04/08/02	1	172830023A	10/11/2017 12:30	Bradley W VanLeuven	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-2-WD-171003 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
**ELLE Sample #:** WW 9248303  
**ELLE Group #:** 1859370  
**Matrix:** Groundwater

**Project Name:** 96097

**Submittal Date/Time:** 10/05/2017 09:40  
**Collection Date/Time:** 10/03/2017

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>			<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	Acetone	67-64-1	N.D.	0.006	0.020	1
10335	Benzene	71-43-2	0.003	0.0005	0.001	1
10335	Bromodichloromethane	75-27-4	N.D.	0.0005	0.001	1
10335	Bromoform	75-25-2	N.D.	0.0005	0.004	1
10335	Bromomethane	74-83-9	N.D.	0.0005	0.001	1
10335	2-Butanone	78-93-3	N.D.	0.003	0.010	1
10335	Carbon Disulfide	75-15-0	N.D.	0.001	0.005	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.0005	0.001	1
10335	Chlorobenzene	108-90-7	N.D.	0.0005	0.001	1
10335	Chloroethane	75-00-3	N.D.	0.0005	0.001	1
10335	Chloroform	67-66-3	N.D.	0.0005	0.001	1
10335	Chloromethane	74-87-3	N.D.	0.0005	0.001	1
10335	Cyclohexane	110-82-7	N.D.	0.002	0.005	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.005	1
10335	Dibromochloromethane	124-48-1	N.D.	0.0005	0.001	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.001	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.005	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.005	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.005	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.0005	0.001	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.0005	0.001	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0005	0.001	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0005	0.001	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.0005	0.001	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.0005	0.001	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.0005	0.001	1
10335	Ethylbenzene	100-41-4	N.D.	0.0005	0.001	1
10335	Freon 113	76-13-1	N.D.	0.002	0.010	1
10335	2-Hexanone	591-78-6	N.D.	0.003	0.010	1
10335	Isopropylbenzene	98-82-8	N.D.	0.001	0.005	1
10335	Methyl Acetate	79-20-9	N.D.	0.001	0.005	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.001	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.010	1
10335	Methylcyclohexane	108-87-2	N.D.	0.001	0.005	1
10335	Methylene Chloride	75-09-2	N.D.	0.0005	0.001	1
10335	Styrene	100-42-5	N.D.	0.001	0.005	1
10335	1,1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.0005	0.001	1
10335	Tetrachloroethene	127-18-4	N.D.	0.0005	0.001	1
10335	Toluene	108-88-3	N.D.	0.0005	0.001	1

\*=This limit was used in the evaluation of the final result



**Sample Description:** DUP-2-WD-171003 Grab Groundwater  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
**ELLE Sample #:** WW 9248303  
**ELLE Group #:** 1859370  
**Matrix:** Groundwater

**Project Name:** 96097

**Submission Date/Time:** 10/05/2017 09:40  
**Collection Date/Time:** 10/03/2017

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.005	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.0005	0.001	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.0005	0.001	1
10335	Trichloroethene	79-01-6	N.D.	0.0005	0.001	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.0005	0.001	1
10335	Vinyl Chloride	75-01-4	N.D.	0.0005	0.001	1
10335	Xylene (Total)	1330-20-7	N.D.	0.0005	0.001	1
<b>GC Volatiles</b>		<b>AK 101</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
01438	TPH-GRO AK water C6-C10	n.a.	N.D.	0.010	0.10	1
<b>GC Petroleum Hydrocarbons</b>		<b>AK 102-SV 4/8/02</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
13025	DRO C10-C25	n.a.	N.D.	0.051	0.26	1

### Sample Comments

State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4172852AA	10/13/2017 02:25	Patrick T Herres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4172852AA	10/13/2017 02:25	Patrick T Herres	1
01438	TPH-GRO AK water C6-C10	AK 101	1	17282B20A	10/09/2017 17:32	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17282B20A	10/09/2017 17:32	Marie D Beamenderfer	1
13025	AK 102-SV DRO	AK 102-SV 4/8/02	1	172890029A	10/17/2017 22:55	Tyler O Griffin	1
13027	Mini-Ext. AK 102-SV DRO	AK 102/AK 103 04/08/02	2	172890029A	10/17/2017 10:00	Oswaldo R Sanchez	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** QA-1-T-171003 Water  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
**ELLE Sample #:** WW 9248304  
**ELLE Group #:** 1859370  
**Matrix:** Water

**Project Name:** 96097

**Submittal Date/Time:** 10/05/2017 09:40  
**Collection Date/Time:** 10/03/2017

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>			<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	Acetone	67-64-1	N.D.	0.006	0.020	1
10335	Benzene	71-43-2	N.D.	0.0005	0.001	1
10335	Bromodichloromethane	75-27-4	N.D.	0.0005	0.001	1
10335	Bromoform	75-25-2	N.D.	0.0005	0.004	1
10335	Bromomethane	74-83-9	N.D.	0.0005	0.001	1
10335	2-Butanone	78-93-3	N.D.	0.003	0.010	1
10335	Carbon Disulfide	75-15-0	N.D.	0.001	0.005	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.0005	0.001	1
10335	Chlorobenzene	108-90-7	N.D.	0.0005	0.001	1
10335	Chloroethane	75-00-3	N.D.	0.0005	0.001	1
10335	Chloroform	67-66-3	N.D.	0.0005	0.001	1
10335	Chloromethane	74-87-3	N.D.	0.0005	0.001	1
10335	Cyclohexane	110-82-7	N.D.	0.002	0.005	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.005	1
10335	Dibromochloromethane	124-48-1	N.D.	0.0005	0.001	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.001	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.005	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.005	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.005	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.0005	0.001	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.0005	0.001	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.0005	0.001	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0005	0.001	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0005	0.001	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.0005	0.001	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.0005	0.001	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.0005	0.001	1
10335	Ethylbenzene	100-41-4	N.D.	0.0005	0.001	1
10335	Freon 113	76-13-1	N.D.	0.002	0.010	1
10335	2-Hexanone	591-78-6	N.D.	0.003	0.010	1
10335	Isopropylbenzene	98-82-8	N.D.	0.001	0.005	1
10335	Methyl Acetate	79-20-9	N.D.	0.001	0.005	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.001	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.010	1
10335	Methylcyclohexane	108-87-2	N.D.	0.001	0.005	1
10335	Methylene Chloride	75-09-2	N.D.	0.0005	0.001	1
10335	Styrene	100-42-5	N.D.	0.001	0.005	1
10335	1,1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.0005	0.001	1
10335	Tetrachloroethene	127-18-4	N.D.	0.0005	0.001	1
10335	Toluene	108-88-3	N.D.	0.0005	0.001	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** QA-1-T-171003 Water  
Facility# 96097  
303 W. Fireweed Lane - Anchorage, AK

**ChevronTexaco**  
ELLE Sample #: WW 9248304  
ELLE Group #: 1859370  
Matrix: Water

**Project Name:** 96097

Submittal Date/Time: 10/05/2017 09:40  
Collection Date/Time: 10/03/2017

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.005	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.0005	0.001	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.0005	0.001	1
10335	Trichloroethene	79-01-6	N.D.	0.0005	0.001	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.0005	0.001	1
10335	Vinyl Chloride	75-01-4	N.D.	0.0005	0.001	1
10335	Xylene (Total)	1330-20-7	N.D.	0.0005	0.001	1
<b>GC Volatiles</b>		<b>AK 101</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
01438	TPH-GRO AK water C6-C10	n.a.	N.D.	0.010	0.10	1

### Sample Comments

State of Alaska Lab Certification No. UST-061

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4172852AA	10/12/2017 23:24	Patrick T Herres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4172852AA	10/12/2017 23:24	Patrick T Herres	1
01438	TPH-GRO AK water C6-C10	AK 101	1	17282B20A	10/09/2017 12:00	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17282B20A	10/09/2017 12:00	Marie D Beamenderfer	1

\*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 11/20/2017 16:24

Group Number: 1859370

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Method Blank

Analysis Name	Result	MDL**	LOQ
	mg/l	mg/l	mg/l
Batch number: 4172851AA	Sample number(s): 9248292-9248299		
Acetone	N.D.	0.006	0.020
Benzene	N.D.	0.0005	0.001
Bromodichloromethane	N.D.	0.0005	0.001
Bromoform	N.D.	0.0005	0.004
Bromomethane	N.D.	0.0005	0.001
2-Butanone	N.D.	0.003	0.010
Carbon Disulfide	N.D.	0.001	0.005
Carbon Tetrachloride	N.D.	0.0005	0.001
Chlorobenzene	N.D.	0.0005	0.001
Chloroethane	N.D.	0.0005	0.001
Chloroform	N.D.	0.0005	0.001
Chloromethane	N.D.	0.0005	0.001
Cyclohexane	N.D.	0.002	0.005
1,2-Dibromo-3-chloropropane	N.D.	0.002	0.005
Dibromochloromethane	N.D.	0.0005	0.001
1,2-Dibromoethane	N.D.	0.0005	0.001
1,2-Dichlorobenzene	N.D.	0.001	0.005
1,3-Dichlorobenzene	N.D.	0.001	0.005
1,4-Dichlorobenzene	N.D.	0.001	0.005
Dichlorodifluoromethane	N.D.	0.0005	0.001
1,1-Dichloroethane	N.D.	0.0005	0.001
1,2-Dichloroethane	N.D.	0.0005	0.001
1,1-Dichloroethene	N.D.	0.0005	0.001
cis-1,2-Dichloroethene	N.D.	0.0005	0.001
trans-1,2-Dichloroethene	N.D.	0.0005	0.001
1,2-Dichloropropane	N.D.	0.0005	0.001
cis-1,3-Dichloropropene	N.D.	0.0005	0.001
trans-1,3-Dichloropropene	N.D.	0.0005	0.001
Ethylbenzene	N.D.	0.0005	0.001
Freon 113	N.D.	0.002	0.010
2-Hexanone	N.D.	0.003	0.010
Isopropylbenzene	N.D.	0.001	0.005
Methyl Acetate	N.D.	0.001	0.005
Methyl Tertiary Butyl Ether	N.D.	0.0005	0.001
4-Methyl-2-pentanone	N.D.	0.003	0.010
Methylcyclohexane	N.D.	0.001	0.005
Methylene Chloride	N.D.	0.0005	0.001
Styrene	N.D.	0.001	0.005
1,1,1,2-Tetrachloroethane	N.D.	0.0005	0.001

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 11/20/2017 16:24

Group Number: 1859370

### Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	mg/l	mg/l	mg/l
Tetrachloroethene	N.D.	0.0005	0.001
Toluene	N.D.	0.0005	0.001
1,2,4-Trichlorobenzene	N.D.	0.001	0.005
1,1,1-Trichloroethane	N.D.	0.0005	0.001
1,1,2-Trichloroethane	N.D.	0.0005	0.001
Trichloroethene	N.D.	0.0005	0.001
Trichlorofluoromethane	N.D.	0.0005	0.001
Vinyl Chloride	N.D.	0.0005	0.001
Xylene (Total)	N.D.	0.0005	0.001
Batch number: 4172852AA	Sample number(s): 9248300-9248304		
Acetone	N.D.	0.006	0.020
Benzene	N.D.	0.0005	0.001
Bromodichloromethane	N.D.	0.0005	0.001
Bromoform	N.D.	0.0005	0.004
Bromomethane	N.D.	0.0005	0.001
2-Butanone	N.D.	0.003	0.010
Carbon Disulfide	N.D.	0.001	0.005
Carbon Tetrachloride	N.D.	0.0005	0.001
Chlorobenzene	N.D.	0.0005	0.001
Chloroethane	N.D.	0.0005	0.001
Chloroform	N.D.	0.0005	0.001
Chloromethane	N.D.	0.0005	0.001
Cyclohexane	N.D.	0.002	0.005
1,2-Dibromo-3-chloropropane	N.D.	0.002	0.005
Dibromochloromethane	N.D.	0.0005	0.001
1,2-Dibromoethane	N.D.	0.0005	0.001
1,2-Dichlorobenzene	N.D.	0.001	0.005
1,3-Dichlorobenzene	N.D.	0.001	0.005
1,4-Dichlorobenzene	N.D.	0.001	0.005
Dichlorodifluoromethane	N.D.	0.0005	0.001
1,1-Dichloroethane	N.D.	0.0005	0.001
1,2-Dichloroethane	N.D.	0.0005	0.001
1,1-Dichloroethene	N.D.	0.0005	0.001
cis-1,2-Dichloroethene	N.D.	0.0005	0.001
trans-1,2-Dichloroethene	N.D.	0.0005	0.001
1,2-Dichloropropane	N.D.	0.0005	0.001
cis-1,3-Dichloropropene	N.D.	0.0005	0.001
trans-1,3-Dichloropropene	N.D.	0.0005	0.001
Ethylbenzene	N.D.	0.0005	0.001
Freon 113	N.D.	0.002	0.010
2-Hexanone	N.D.	0.003	0.010
Isopropylbenzene	N.D.	0.001	0.005
Methyl Acetate	N.D.	0.001	0.005
Methyl Tertiary Butyl Ether	N.D.	0.0005	0.001

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 11/20/2017 16:24

Group Number: 1859370

### Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	mg/l	mg/l	mg/l
4-Methyl-2-pentanone	N.D.	0.003	0.010
Methylcyclohexane	N.D.	0.001	0.005
Methylene Chloride	N.D.	0.0005	0.001
Styrene	N.D.	0.001	0.005
1,1,2,2-Tetrachloroethane	N.D.	0.0005	0.001
Tetrachloroethene	N.D.	0.0005	0.001
Toluene	N.D.	0.0005	0.001
1,2,4-Trichlorobenzene	N.D.	0.001	0.005
1,1,1-Trichloroethane	N.D.	0.0005	0.001
1,1,2-Trichloroethane	N.D.	0.0005	0.001
Trichloroethene	N.D.	0.0005	0.001
Trichlorofluoromethane	N.D.	0.0005	0.001
Vinyl Chloride	N.D.	0.0005	0.001
Xylene (Total)	N.D.	0.0005	0.001
Batch number: 17282WAM026	Sample number(s): 9248292,9248294-9248296,9248302		
Acenaphthene	N.D.	0.000010	0.000050
Acenaphthylene	N.D.	0.000010	0.000050
Anthracene	N.D.	0.000010	0.000050
Benzo(a)anthracene	N.D.	0.000010	0.000050
Benzo(a)pyrene	N.D.	0.000010	0.000050
Benzo(b)fluoranthene	N.D.	0.000010	0.000050
Benzo(g,h,i)perylene	N.D.	0.000010	0.000050
Benzo(k)fluoranthene	N.D.	0.000010	0.000050
Chrysene	N.D.	0.000010	0.000050
Dibenz(a,h)anthracene	N.D.	0.000010	0.000050
Fluoranthene	N.D.	0.000010	0.000050
Fluorene	N.D.	0.000010	0.000050
Indeno(1,2,3-cd)pyrene	N.D.	0.000010	0.000050
Naphthalene	N.D.	0.000030	0.000060
Phenanthrene	N.D.	0.000030	0.000060
Pyrene	N.D.	0.000010	0.000050
Batch number: 17282B20A	Sample number(s): 9248292-9248296,9248298-9248304		
TPH-GRO AK water C6-C10	N.D.	0.010	0.10
Batch number: 17285A20A	Sample number(s): 9248297		
TPH-GRO AK water C6-C10	N.D.	0.010	0.10
Batch number: 172830023A	Sample number(s): 9248292,9248294-9248296,9248302		
DRO C10-C25	N.D.	0.050	0.25
Batch number: 172890029A	Sample number(s): 9248297-9248301,9248303		
DRO C10-C25	N.D.	0.050	0.25

\*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 11/20/2017 16:24

Group Number: 1859370

### LCS/LCSD

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 4172851AA	Sample number(s): 9248292-9248299								
Acetone	0.150	0.113			76		44-177		
Benzene	0.0200	0.0186			93		78-120		
Bromodichloromethane	0.0200	0.0175			88		71-120		
Bromoform	0.0200	0.0169			85		59-120		
Bromomethane	0.0200	0.0161			80		44-139		
2-Butanone	0.150	0.120			80		53-140		
Carbon Disulfide	0.0200	0.0203			101		65-128		
Carbon Tetrachloride	0.0200	0.0187			93		68-128		
Chlorobenzene	0.0200	0.0181			91		80-120		
Chloroethane	0.0200	0.0162			81		52-127		
Chloroform	0.0200	0.0184			92		80-120		
Chloromethane	0.0200	0.0157			79		57-120		
Cyclohexane	0.0200	0.0180			90		67-121		
1,2-Dibromo-3-chloropropane	0.0200	0.0187			94		64-120		
Dibromochloromethane	0.0200	0.0178			89		71-120		
1,2-Dibromoethane	0.0200	0.0178			89		75-120		
1,2-Dichlorobenzene	0.0200	0.0184			92		80-120		
1,3-Dichlorobenzene	0.0200	0.0183			91		80-120		
1,4-Dichlorobenzene	0.0200	0.0182			91		80-120		
Dichlorodifluoromethane	0.0200	0.0163			81		47-124		
1,1-Dichloroethane	0.0200	0.0188			94		80-120		
1,2-Dichloroethane	0.0200	0.0181			90		73-124		
1,1-Dichloroethene	0.0200	0.0215			108		76-124		
cis-1,2-Dichloroethene	0.0200	0.0193			97		80-120		
trans-1,2-Dichloroethene	0.0200	0.0196			98		80-120		
1,2-Dichloropropane	0.0200	0.0185			92		80-120		
cis-1,3-Dichloropropene	0.0200	0.0184			92		75-120		
trans-1,3-Dichloropropene	0.0200	0.0178			89		76-120		
Ethylbenzene	0.0200	0.0182			91		78-120		
Freon 113	0.0200	0.0193			96		68-137		
2-Hexanone	0.100	0.0933			93		60-134		
Isopropylbenzene	0.0200	0.0187			93		80-120		
Methyl Acetate	0.0200	0.0175			87		61-137		
Methyl Tertiary Butyl Ether	0.0200	0.0179			90		75-120		
4-Methyl-2-pentanone	0.100	0.0932			93		67-128		
Methylcyclohexane	0.0200	0.0178			89		66-126		
Methylene Chloride	0.0200	0.0189			95		80-120		
Styrene	0.0200	0.0190			95		80-120		
1,1,2,2-Tetrachloroethane	0.0200	0.0187			94		72-120		
Tetrachloroethene	0.0200	0.0177			88		80-129		
Toluene	0.0200	0.0188			94		80-120		
1,2,4-Trichlorobenzene	0.0200	0.0173			86		70-120		
1,1,1-Trichloroethane	0.0200	0.0184			92		67-120		

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 11/20/2017 16:24

Group Number: 1859370

### LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1,2-Trichloroethane	0.0200	0.0186			93		80-120		
Trichloroethene	0.0200	0.0185			92		80-120		
Trichlorofluoromethane	0.0200	0.0177			89		52-143		
Vinyl Chloride	0.0200	0.0162			81		63-121		
Xylene (Total)	0.0600	0.0550			92		80-120		
Batch number: 4172852AA	Sample number(s): 9248300-9248304								
Acetone	0.150	0.149	0.150	0.154	100	103	44-177	3	30
Benzene	0.0200	0.0200	0.0200	0.0200	100	100	78-120	0	30
Bromodichloromethane	0.0200	0.0187	0.0200	0.0185	93	93	71-120	1	30
Bromoform	0.0200	0.0165	0.0200	0.0164	83	82	59-120	1	30
Bromomethane	0.0200	0.0185	0.0200	0.0173	92	87	44-139	6	30
2-Butanone	0.150	0.144	0.150	0.147	96	98	53-140	2	30
Carbon Disulfide	0.0200	0.0208	0.0200	0.0199	104	99	65-128	4	30
Carbon Tetrachloride	0.0200	0.0198	0.0200	0.0199	99	99	68-128	0	30
Chlorobenzene	0.0200	0.0193	0.0200	0.0195	97	98	80-120	1	30
Chloroethane	0.0200	0.0169	0.0200	0.0175	84	87	52-127	3	30
Chloroform	0.0200	0.0199	0.0200	0.0201	99	101	80-120	1	30
Chloromethane	0.0200	0.0207	0.0200	0.0206	103	103	57-120	0	30
Cyclohexane	0.0200	0.0186	0.0200	0.0187	93	94	67-121	1	30
1,2-Dibromo-3-chloropropane	0.0200	0.0189	0.0200	0.0184	94	92	64-120	3	30
Dibromochloromethane	0.0200	0.0186	0.0200	0.0182	93	91	71-120	2	30
1,2-Dibromoethane	0.0200	0.0193	0.0200	0.0192	97	96	75-120	0	30
1,2-Dichlorobenzene	0.0200	0.0187	0.0200	0.0191	93	95	80-120	2	30
1,3-Dichlorobenzene	0.0200	0.0186	0.0200	0.0182	93	91	80-120	2	30
1,4-Dichlorobenzene	0.0200	0.0188	0.0200	0.0192	94	96	80-120	2	30
Dichlorodifluoromethane	0.0200	0.0197	0.0200	0.0202	99	101	47-124	2	30
1,1-Dichloroethane	0.0200	0.0204	0.0200	0.0202	102	101	80-120	1	30
1,2-Dichloroethane	0.0200	0.0198	0.0200	0.0197	99	98	73-124	1	30
1,1-Dichloroethene	0.0200	0.0227	0.0200	0.0228	114	114	76-124	0	30
cis-1,2-Dichloroethene	0.0200	0.0210	0.0200	0.0209	105	104	80-120	0	30
trans-1,2-Dichloroethene	0.0200	0.0211	0.0200	0.0212	105	106	80-120	1	30
1,2-Dichloropropane	0.0200	0.0199	0.0200	0.0203	100	101	80-120	2	30
cis-1,3-Dichloropropene	0.0200	0.0187	0.0200	0.0183	93	91	75-120	2	30
trans-1,3-Dichloropropene	0.0200	0.0183	0.0200	0.0185	92	93	76-120	1	30
Ethylbenzene	0.0200	0.0196	0.0200	0.0199	98	100	78-120	2	30
Freon 113	0.0200	0.0201	0.0200	0.0204	101	102	68-137	1	30
2-Hexanone	0.100	0.101	0.100	0.103	101	103	60-134	2	30
Isopropylbenzene	0.0200	0.0199	0.0200	0.0201	100	100	80-120	1	30
Methyl Acetate	0.0200	0.0187	0.0200	0.0190	93	95	61-137	2	30
Methyl Tertiary Butyl Ether	0.0200	0.0192	0.0200	0.0197	96	99	75-120	3	30
4-Methyl-2-pentanone	0.100	0.102	0.100	0.104	102	104	67-128	2	30
Methylcyclohexane	0.0200	0.0191	0.0200	0.0192	96	96	66-126	1	30
Methylene Chloride	0.0200	0.0203	0.0200	0.0207	102	104	80-120	2	30

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.



## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 11/20/2017 16:24

Group Number: 1859370

### LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Styrene	0.0200	0.0199	0.0200	0.0202	99	101	80-120	2	30
1,1,2,2-Tetrachloroethane	0.0200	0.0190	0.0200	0.0194	95	97	72-120	2	30
Tetrachloroethene	0.0200	0.0186	0.0200	0.0192	93	96	80-129	3	30
Toluene	0.0200	0.0197	0.0200	0.0204	99	102	80-120	4	30
1,2,4-Trichlorobenzene	0.0200	0.0175	0.0200	0.0171	88	85	70-120	3	30
1,1,1-Trichloroethane	0.0200	0.0203	0.0200	0.0199	102	99	67-120	2	30
1,1,2-Trichloroethane	0.0200	0.0195	0.0200	0.0203	98	102	80-120	4	30
Trichloroethene	0.0200	0.0199	0.0200	0.0203	100	101	80-120	2	30
Trichlorofluoromethane	0.0200	0.0194	0.0200	0.0194	97	97	52-143	0	30
Vinyl Chloride	0.0200	0.0193	0.0200	0.0205	97	102	63-121	6	30
Xylene (Total)	0.0600	0.0581	0.0600	0.0590	97	98	80-120	1	30
	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>					
Batch number: 17282WAM026	Sample number(s): 9248292,9248294-9248296,9248302								
Acenaphthene	0.00100	0.00108	0.00100	0.00101	108	101	62-127	6	30
Acenaphthylene	0.00100	0.000645	0.00100	0.000735	64	73	48-105	13	30
Anthracene	0.00100	0.000958	0.00100	0.000863	96	86	60-112	10	30
Benzo(a)anthracene	0.00100	0.00104	0.00100	0.000948	104	95	62-122	9	30
Benzo(a)pyrene	0.00100	0.00102	0.00100	0.000919	102	92	60-114	10	30
Benzo(b)fluoranthene	0.00100	0.00112	0.00100	0.000991	112	99	59-126	12	30
Benzo(g,h,i)perylene	0.00100	0.00100	0.00100	0.000897	100	90	58-118	11	30
Benzo(k)fluoranthene	0.00100	0.00104	0.00100	0.000942	104	94	63-117	10	30
Chrysene	0.00100	0.00103	0.00100	0.000920	103	92	63-116	11	30
Dibenz(a,h)anthracene	0.00100	0.000997	0.00100	0.000916	100	92	65-119	9	30
Fluoranthene	0.00100	0.000951	0.00100	0.00110	95	110	60-115	14	30
Fluorene	0.00100	0.000961	0.00100	0.000858	96	86	57-118	11	30
Indeno(1,2,3-cd)pyrene	0.00100	0.000992	0.00100	0.000891	99	89	64-115	11	30
Naphthalene	0.00100	0.000854	0.00100	0.000767	85	77	47-110	11	30
Phenanthrene	0.00100	0.000944	0.00100	0.000852	94	85	59-113	10	30
Pyrene	0.00100	0.000994	0.00100	0.000911	99	91	59-119	9	30
	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>					
Batch number: 17282B20A	Sample number(s): 9248292-9248296,9248298-9248304								
TPH-GRO AK water C6-C10	1.10	1.10	1.10	1.07	100	98	60-120	3	20
Batch number: 17285A20A	Sample number(s): 9248297								
TPH-GRO AK water C6-C10	1.10	0.979	1.10	0.949	89	86	60-120	3	20
	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>					
Batch number: 172830023A	Sample number(s): 9248292,9248294-9248296,9248302								
DRO C10-C25	4.00	2.41	4.00	2.34	60*	58*	75-125	3	20
Batch number: 172890029A	Sample number(s): 9248297-9248301,9248303								
DRO C10-C25	4.00	3.30	4.00	3.00	82	75	75-125	9	20

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 11/20/2017 16:24

Group Number: 1859370

### MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 4172851AA	Sample number(s): 9248292-9248299 UNSPK: 9248292									
Acetone	N.D.	0.150	0.157	0.150	0.164	105	109	44-177	4	30
Benzene	N.D.	0.0200	0.0216	0.0200	0.0222	108	111	78-120	3	30
Bromodichloromethane	N.D.	0.0200	0.0199	0.0200	0.0202	99	101	71-120	2	30
Bromoform	N.D.	0.0200	0.0168	0.0200	0.0170	84	85	59-120	1	30
Bromomethane	N.D.	0.0200	0.0188	0.0200	0.0171	94	86	44-139	9	30
2-Butanone	N.D.	0.150	0.144	0.150	0.147	96	98	53-140	1	30
Carbon Disulfide	N.D.	0.0200	0.0230	0.0200	0.0233	115	116	65-128	1	30
Carbon Tetrachloride	N.D.	0.0200	0.0223	0.0200	0.0226	111	113	68-128	1	30
Chlorobenzene	N.D.	0.0200	0.0209	0.0200	0.0213	105	107	80-120	2	30
Chloroethane	N.D.	0.0200	0.0139	0.0200	0.0201	69	100	52-127	36*	30
Chloroform	N.D.	0.0200	0.0212	0.0200	0.0216	106	108	80-120	2	30
Chloromethane	N.D.	0.0200	0.0181	0.0200	0.0211	91	105	57-120	15	30
Cyclohexane	N.D.	0.0200	0.0212	0.0200	0.0222	106	111	67-121	5	30
1,2-Dibromo-3-chloropropane	N.D.	0.0200	0.0192	0.0200	0.0191	96	95	64-120	1	30
Dibromochloromethane	N.D.	0.0200	0.0192	0.0200	0.0196	96	98	71-120	2	30
1,2-Dibromoethane	N.D.	0.0200	0.0199	0.0200	0.0206	99	103	75-120	3	30
1,2-Dichlorobenzene	N.D.	0.0200	0.0192	0.0200	0.0194	96	97	80-120	1	30
1,3-Dichlorobenzene	N.D.	0.0200	0.0191	0.0200	0.0196	96	98	80-120	3	30
1,4-Dichlorobenzene	N.D.	0.0200	0.0193	0.0200	0.0199	97	99	80-120	3	30
Dichlorodifluoromethane	N.D.	0.0200	0.0203	0.0200	0.0220	101	110	47-124	8	30
1,1-Dichloroethane	N.D.	0.0200	0.0220	0.0200	0.0224	110	112	80-120	2	30
1,2-Dichloroethane	N.D.	0.0200	0.0206	0.0200	0.0210	103	105	73-124	2	30
1,1-Dichloroethene	N.D.	0.0200	0.0249	0.0200	0.0262	125*	131*	76-124	5	30
cis-1,2-Dichloroethene	N.D.	0.0200	0.0222	0.0200	0.0232	111	116	80-120	4	30
trans-1,2-Dichloroethene	N.D.	0.0200	0.0231	0.0200	0.0238	115	119	80-120	3	30
1,2-Dichloropropane	N.D.	0.0200	0.0213	0.0200	0.0215	107	107	80-120	1	30
cis-1,3-Dichloropropene	N.D.	0.0200	0.0203	0.0200	0.0208	101	104	75-120	2	30
trans-1,3-Dichloropropene	N.D.	0.0200	0.0197	0.0200	0.0202	99	101	76-120	3	30
Ethylbenzene	N.D.	0.0200	0.0210	0.0200	0.0216	105	108	78-120	3	30
Freon 113	N.D.	0.0200	0.0231	0.0200	0.0235	115	118	68-137	2	30
2-Hexanone	N.D.	0.100	0.104	0.100	0.106	104	106	60-134	2	30
Isopropylbenzene	N.D.	0.0200	0.0214	0.0200	0.0219	107	109	80-120	2	30
Methyl Acetate	N.D.	0.0200	0.0187	0.0200	0.0188	93	94	61-137	1	30
Methyl Tertiary Butyl Ether	N.D.	0.0200	0.0199	0.0200	0.0207	100	104	75-120	4	30
4-Methyl-2-pentanone	N.D.	0.100	0.104	0.100	0.107	104	107	67-128	2	30
Methylcyclohexane	N.D.	0.0200	0.0211	0.0200	0.0215	105	108	66-126	2	30
Methylene Chloride	N.D.	0.0200	0.0216	0.0200	0.0224	108	112	80-120	3	30
Styrene	N.D.	0.0200	0.0192	0.0200	0.0193	96	96	80-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	0.0200	0.0193	0.0200	0.0198	96	99	72-120	3	30

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 11/20/2017 16:24

Group Number: 1859370

### MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Tetrachloroethene	N.D.	0.0200	0.0205	0.0200	0.0211	103	105	80-129	3	30
Toluene	N.D.	0.0200	0.0215	0.0200	0.0218	108	109	80-120	1	30
1,2,4-Trichlorobenzene	N.D.	0.0200	0.0172	0.0200	0.0172	86	86	70-120	0	30
1,1,1-Trichloroethane	N.D.	0.0200	0.0225	0.0200	0.0227	112	114	67-120	1	30
1,1,2-Trichloroethane	N.D.	0.0200	0.0209	0.0200	0.0217	105	109	80-120	4	30
Trichloroethene	N.D.	0.0200	0.0216	0.0200	0.0224	108	112	80-120	3	30
Trichlorofluoromethane	N.D.	0.0200	0.0215	0.0200	0.0221	107	111	52-143	3	30
Vinyl Chloride	N.D.	0.0200	0.0187	0.0200	0.0208	93	104	63-121	10	30
Xylene (Total)	N.D.	0.0600	0.0618	0.0600	0.0631	103	105	80-120	2	30

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report. For dual column analyses, the surrogate (at least one surrogate for multi-surrogate tests) must be within the acceptance limits on at least one of the two columns.

Analysis Name: TCL 4.3 VOCs  
Batch number: 4172851AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9248292	100	99	102	98
9248293	101	102	100	98
9248294	99	100	101	101
9248295	100	103	102	100
9248296	101	101	102	102
9248297	102	102	100	98
9248298	101	98	100	98
9248299	101	101	100	99
Blank	101	102	100	99
LCS	99	99	102	99
MS	100	101	100	101
MSD	100	101	101	100
Limits:	80-120	80-120	80-120	80-120

Analysis Name: TCL 4.3 VOCs  
Batch number: 4172852AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9248300	101	102	100	89
9248301	102	99	101	98

\*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 11/20/2017 16:24

Group Number: 1859370

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report. For dual column analyses, the surrogate (at least one surrogate for multi-surrogate tests) must be within the acceptance limits on at least one of the two columns.

Analysis Name: TCL 4.3 VOCs  
Batch number: 4172852AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9248302	101	102	100	99
9248303	103	102	101	98
9248304	102	102	106	94
Blank	100	100	101	99
LCS	101	101	101	102
LCSD	99	100	101	96
Limits:	80-120	80-120	80-120	80-120

Analysis Name: PAHs in waters by SIM  
Batch number: 17282WAM026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
9248292	74	81	85
9248294	76	89	90
9248295	82	96	125*
9248296	104	79	81
9248302	71	89	60
Blank	80	95	84
LCS	84	98	89
LCSD	98	89	67
Limits:	42-119	39-121	29-123

Analysis Name: TPH-GRO AK water C6-C10  
Batch number: 17282B20A

	Trifluorotoluene-F
9248292	78
9248293	89
9248294	90
9248295	88
9248296	93
9248298	85
9248299	79
9248300	83
9248301	87
9248302	89
9248303	87
9248304	87
Blank	89

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 11/20/2017 16:24

Group Number: 1859370

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report. For dual column analyses, the surrogate (at least one surrogate for multi-surrogate tests) must be within the acceptance limits on at least one of the two columns.

Analysis Name: TPH-GRO AK water C6-C10

Batch number: 17282B20A

Trifluorotoluene-F

LCS 88

LCSD 96

Limits: 60-120

Analysis Name: TPH-GRO AK water C6-C10

Batch number: 17285A20A

Trifluorotoluene-F

9248297 85

Blank 86

LCS 92

LCSD 94

Limits: 60-120

Analysis Name: AK 102-SV DRO

Batch number: 172830023A

Orthoterphenyl

9248292 71

9248294 80

9248295 81

9248296 77

9248302 73

Blank 84

LCS 88

LCSD 92

Limits: 50-150

Analysis Name: AK 102-SV DRO

Batch number: 172890029A

Orthoterphenyl

9248297 90

9248298 87

9248299 92

9248300 84

9248301 83

9248303 88

Blank 93

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 11/20/2017 16:24

Group Number: 1859370

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report. For dual column analyses, the surrogate (at least one surrogate for multi-surrogate tests) must be within the acceptance limits on at least one of the two columns.

Analysis Name: AK 102-SV DRO  
Batch number: 172890029A  
Orthoterphenyl

LCS	91
LCSD	80

Limits: 50-150

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.





Client: Chevron

**Delivery and Receipt Information**

Delivery Method: Fed Ex                      Arrival Timestamp: 10/05/2017 9:40  
 Number of Packages: 3                              Number of Projects: 1  
 State/Province of Origin: AK

**Arrival Condition Summary**

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	No
Custody Seal Intact:	Yes	VOA Vial Headspace $\geq$ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCL
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

*Unpacked by Wyatt Shiffler (12792) at 12:20 on 10/05/2017*

**Samples Chilled Details**

Thermometer Types:    *DT = Digital (Temp. Bottle)*    *IR = Infrared (Surface Temp)*    *All Temperatures in °C.*

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT42-02	3.0	DT	Wet	Y	Bagged	N
2	DT42-02	2.0	DT	Wet	Y	Bagged	N
3	DT42-02	1.7	DT	Wet	Y	Bagged	N

**Sample Date/Time Discrepancy Details**

Sample ID on COC	Date/Time on Label	Comments
MW-16-W-171003	10/03/2017 11:56	Vials correct time, discrepancies on amber containers



# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>BMQL</b>	Below Minimum Quantitation Level	<b>mg</b>	milligram(s)
<b>C</b>	degrees Celsius	<b>mL</b>	milliliter(s)
<b>cfu</b>	colony forming units	<b>MPN</b>	Most Probable Number
<b>CP Units</b>	cobalt-chloroplatinate units	<b>N.D.</b>	non-detect
<b>F</b>	degrees Fahrenheit	<b>ng</b>	nanogram(s)
<b>g</b>	gram(s)	<b>NTU</b>	nephelometric turbidity units
<b>IU</b>	International Units	<b>pg/L</b>	picogram/liter
<b>kg</b>	kilogram(s)	<b>RL</b>	Reporting Limit
<b>L</b>	liter(s)	<b>TNTC</b>	Too Numerous To Count
<b>lb.</b>	pound(s)	<b>µg</b>	microgram(s)
<b>m3</b>	cubic meter(s)	<b>µL</b>	microliter(s)
<b>meq</b>	milliequivalents	<b>umhos/cm</b>	micromhos/cm
<b>&lt;</b>	less than		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

**Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# Data Qualifiers

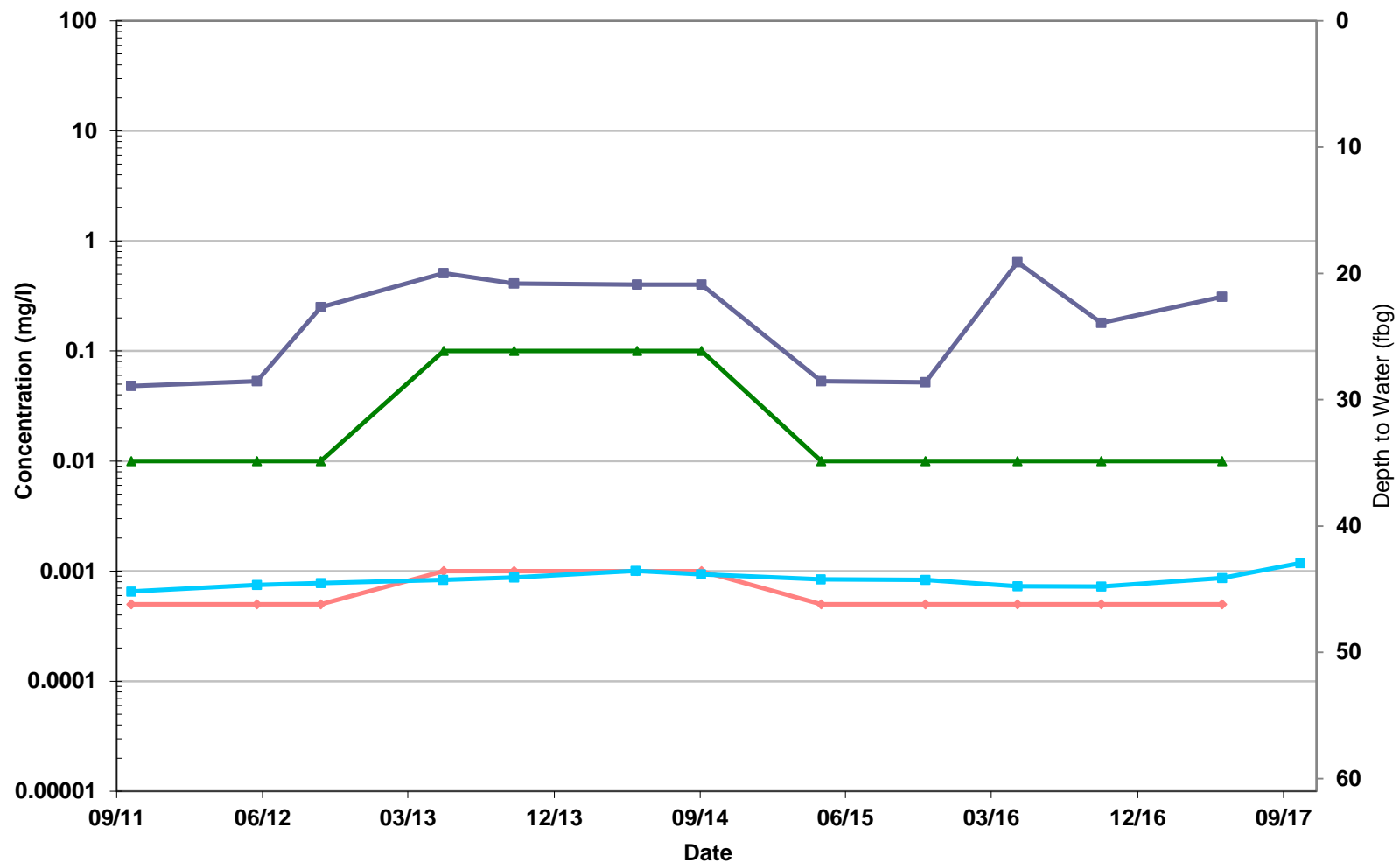
Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value $\geq$ the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$ . The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$ . The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

# Appendix E

## Petroleum Hydrocarbon Concentration Graphs

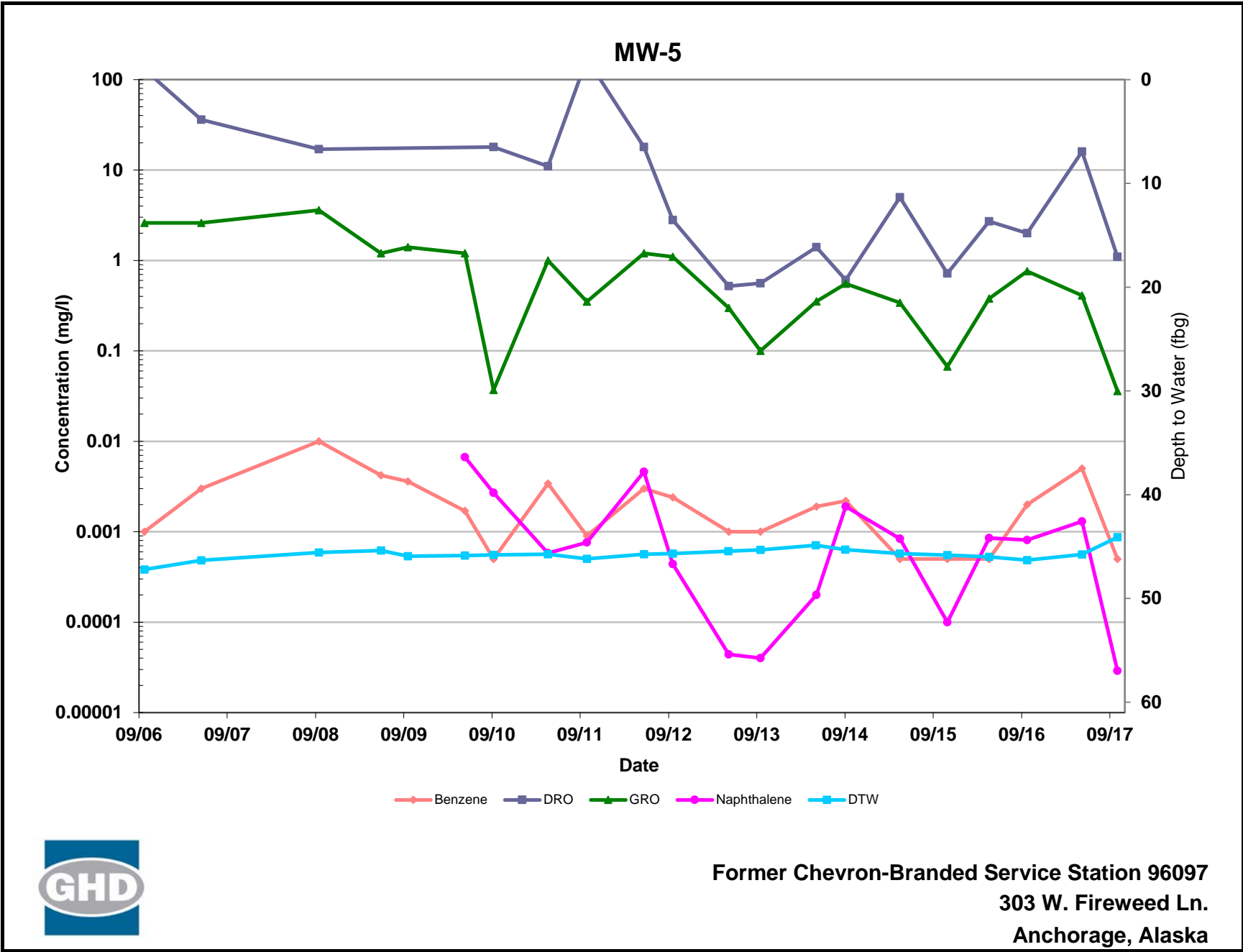
# MW-4R



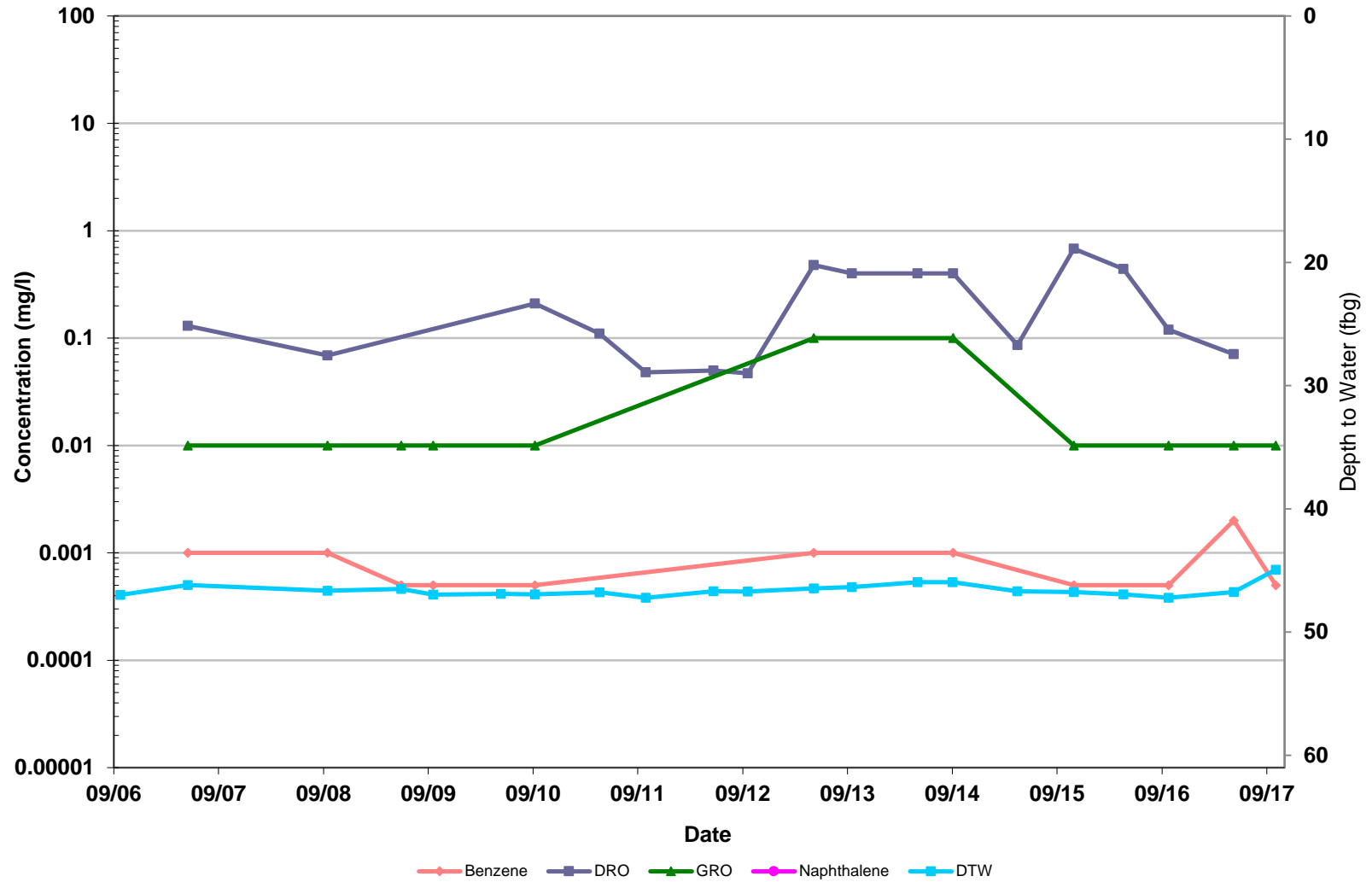
— Benzene — DRO — GRO — Naphthalene — DTW



Former Chevron-Branded Service Station 96097  
303 W. Fireweed Ln.  
Anchorage, Alaska

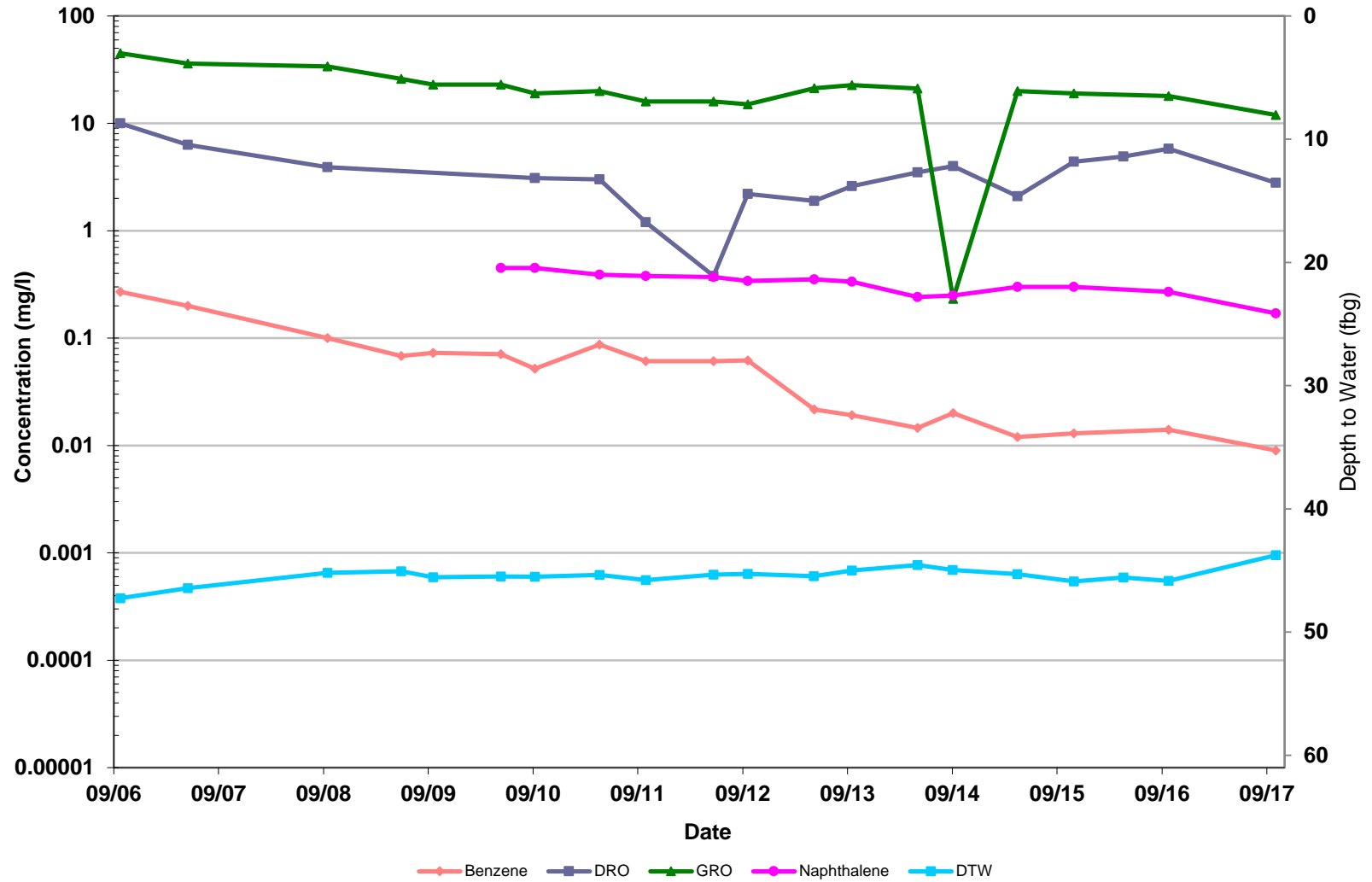


# MW-6



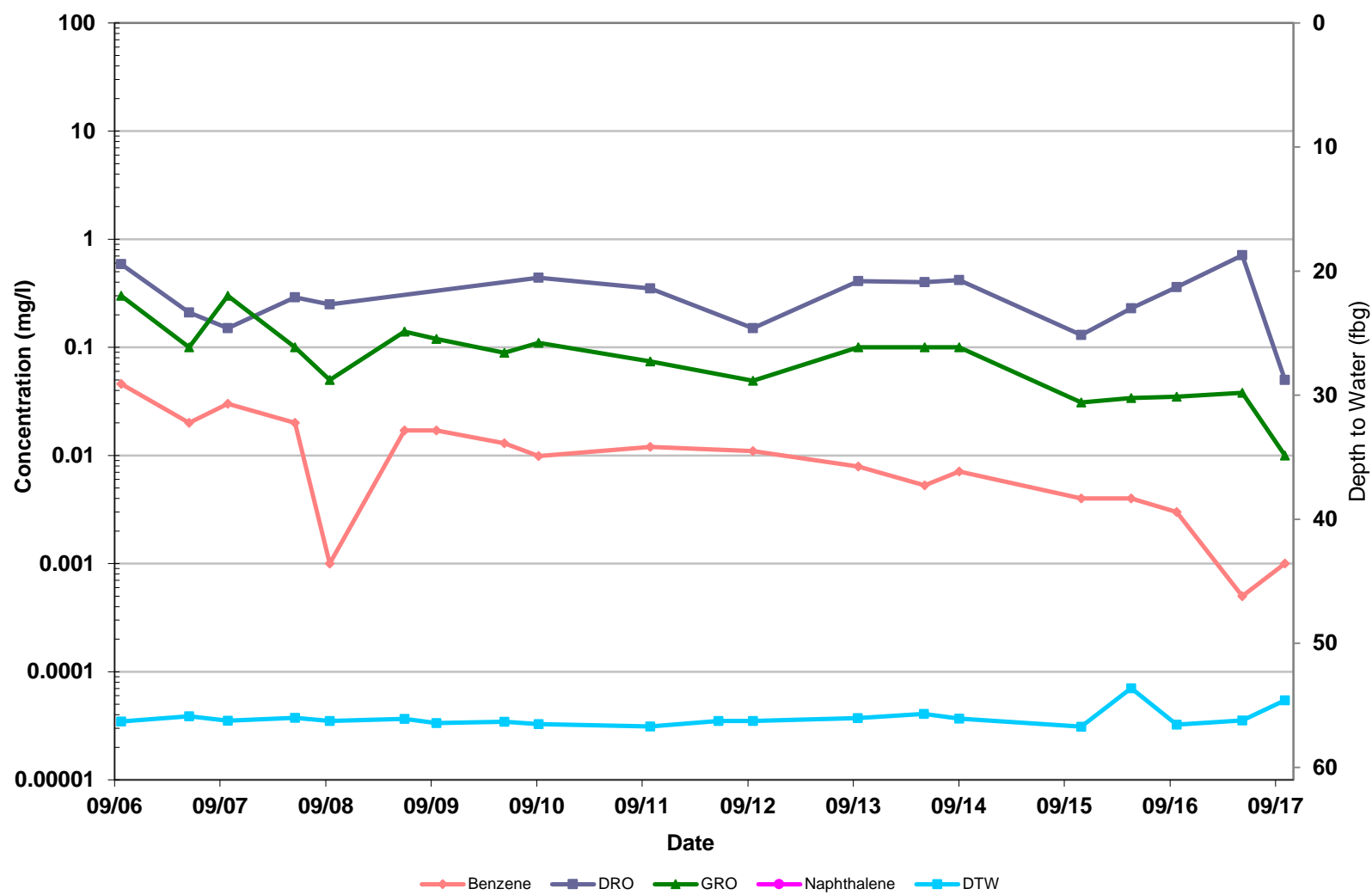
Former Chevron-Branded Service Station 96097  
303 W. Fireweed Ln.  
Anchorage, Alaska

### MW-7



Former Chevron-Branded Service Station 96097  
303 W. Fireweed Ln.  
Anchorage, Alaska

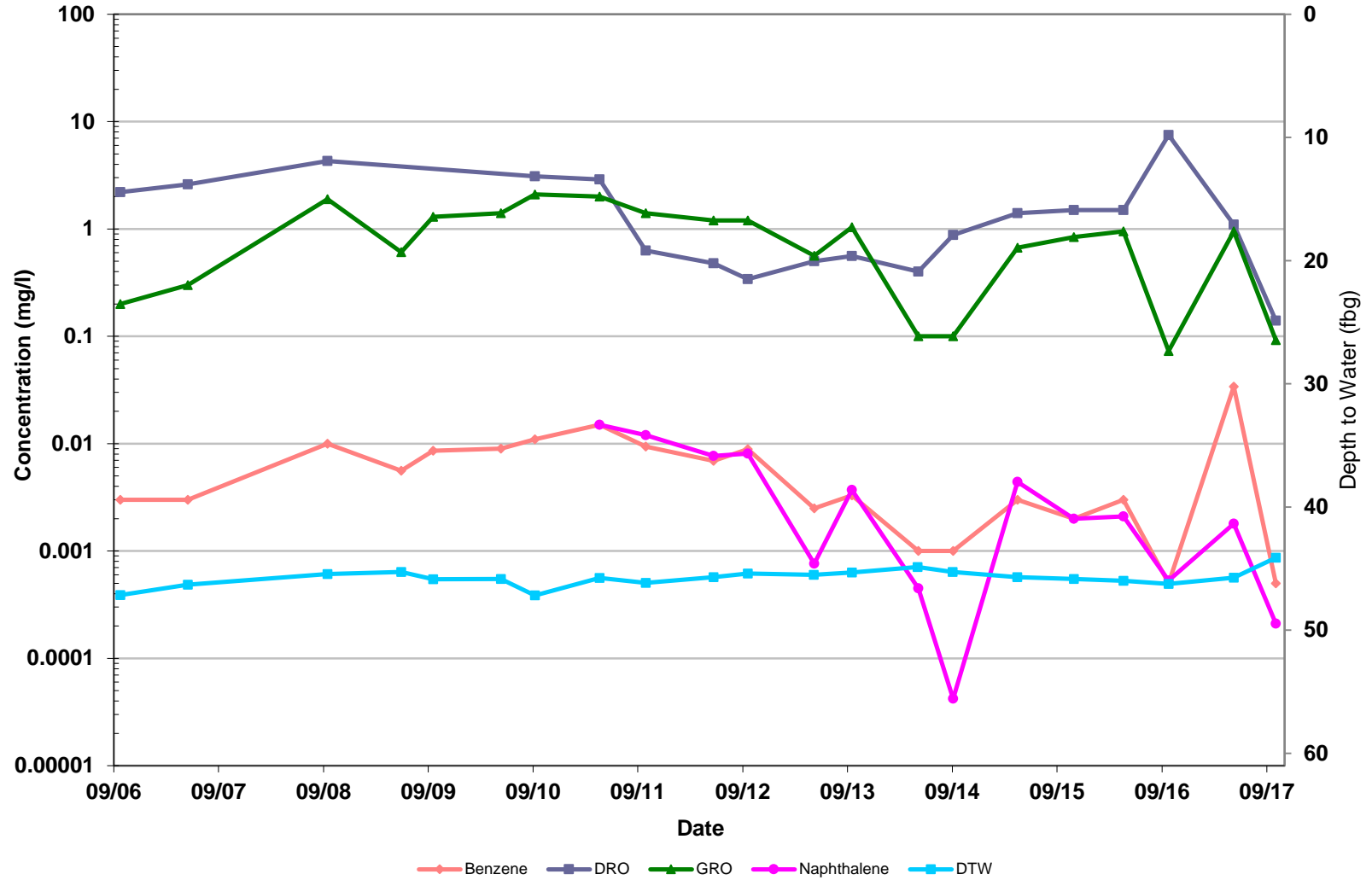
# MW-8



Former Chevron-Branded Service Station 96097  
303 W. Fireweed Ln.  
Anchorage, Alaska

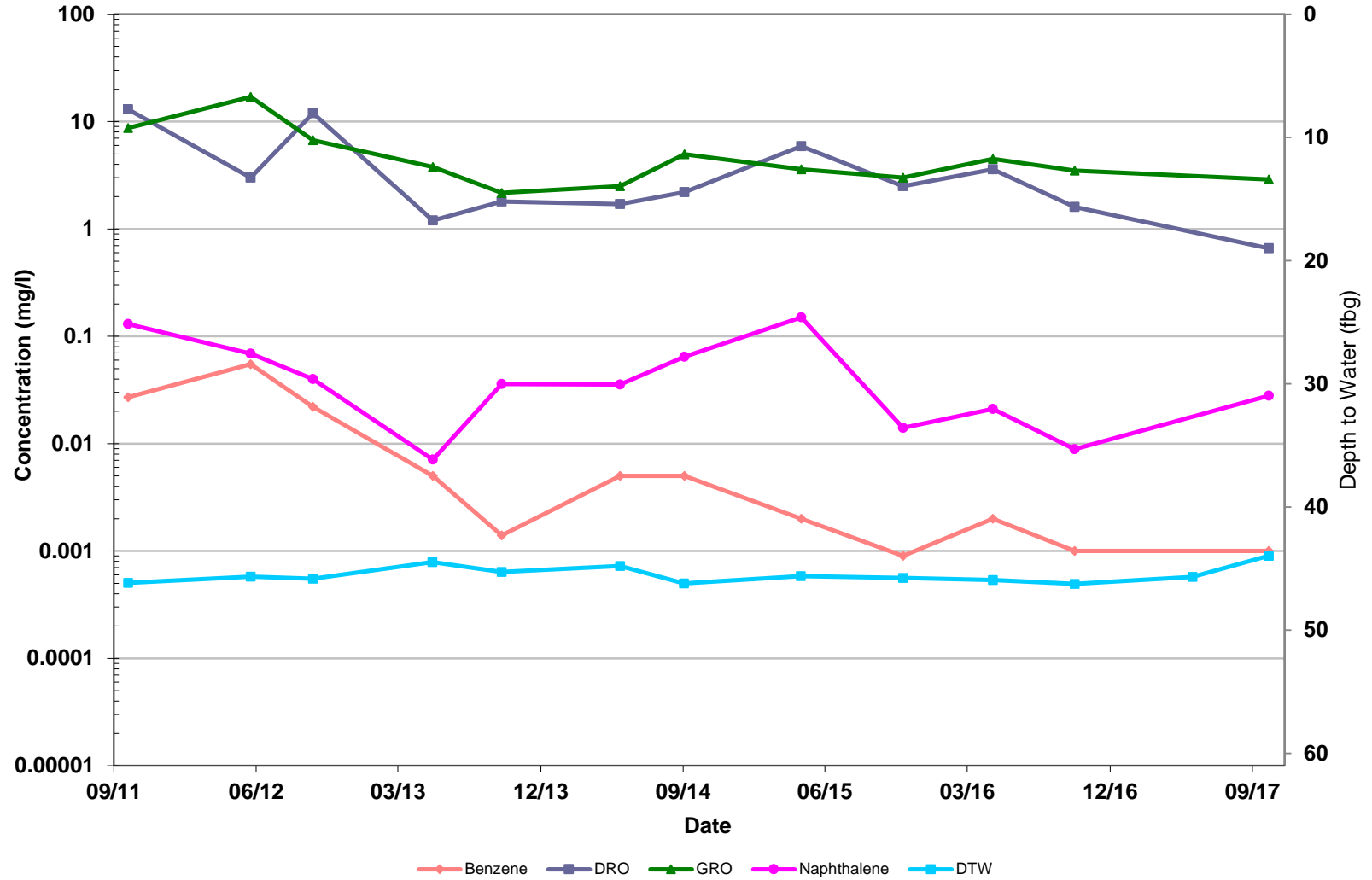


# MW-9



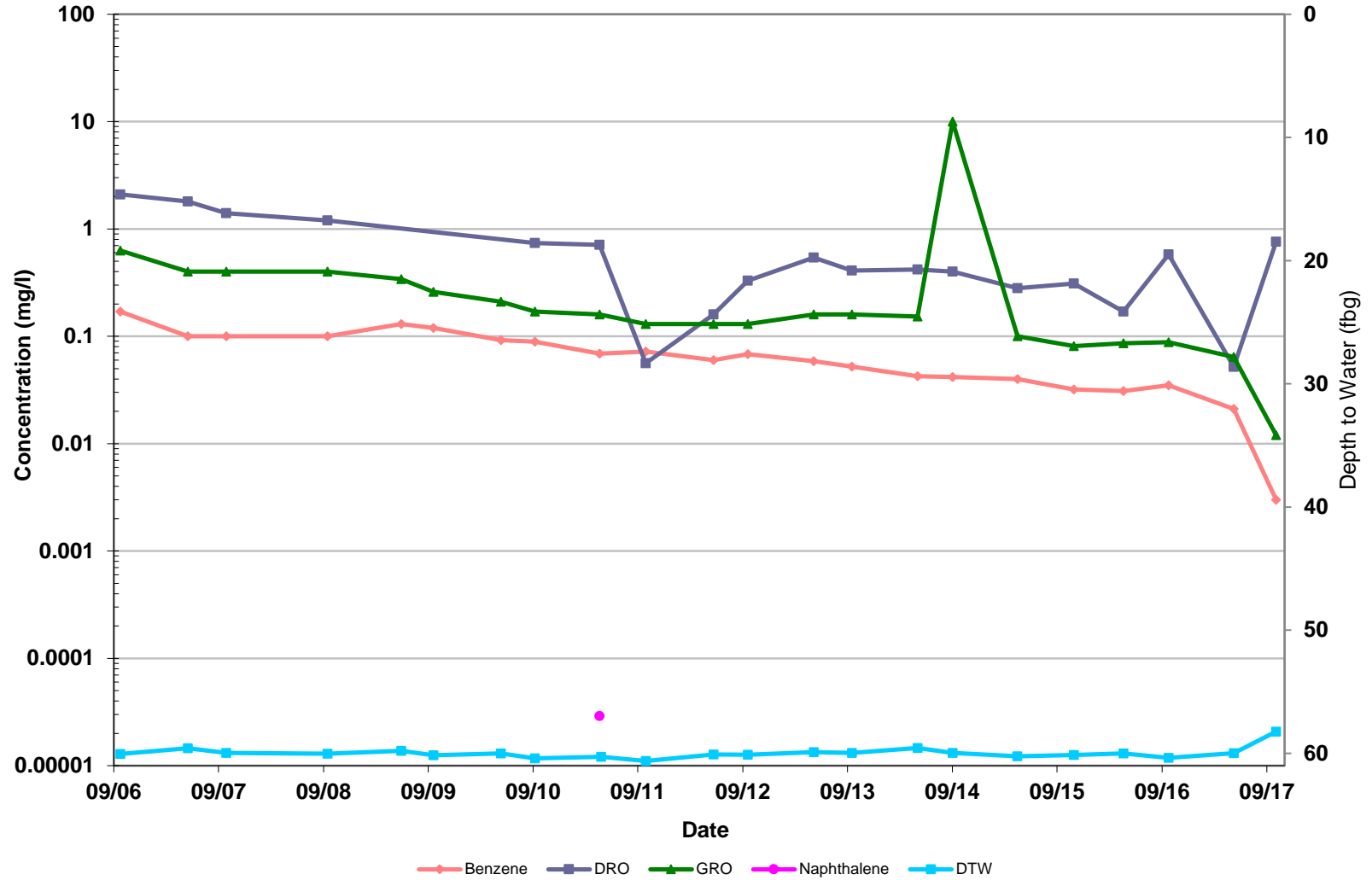
Former Chevron-Branded Service Station 96097  
303 W. Fireweed Ln.  
Anchorage, Alaska

### MW-10R



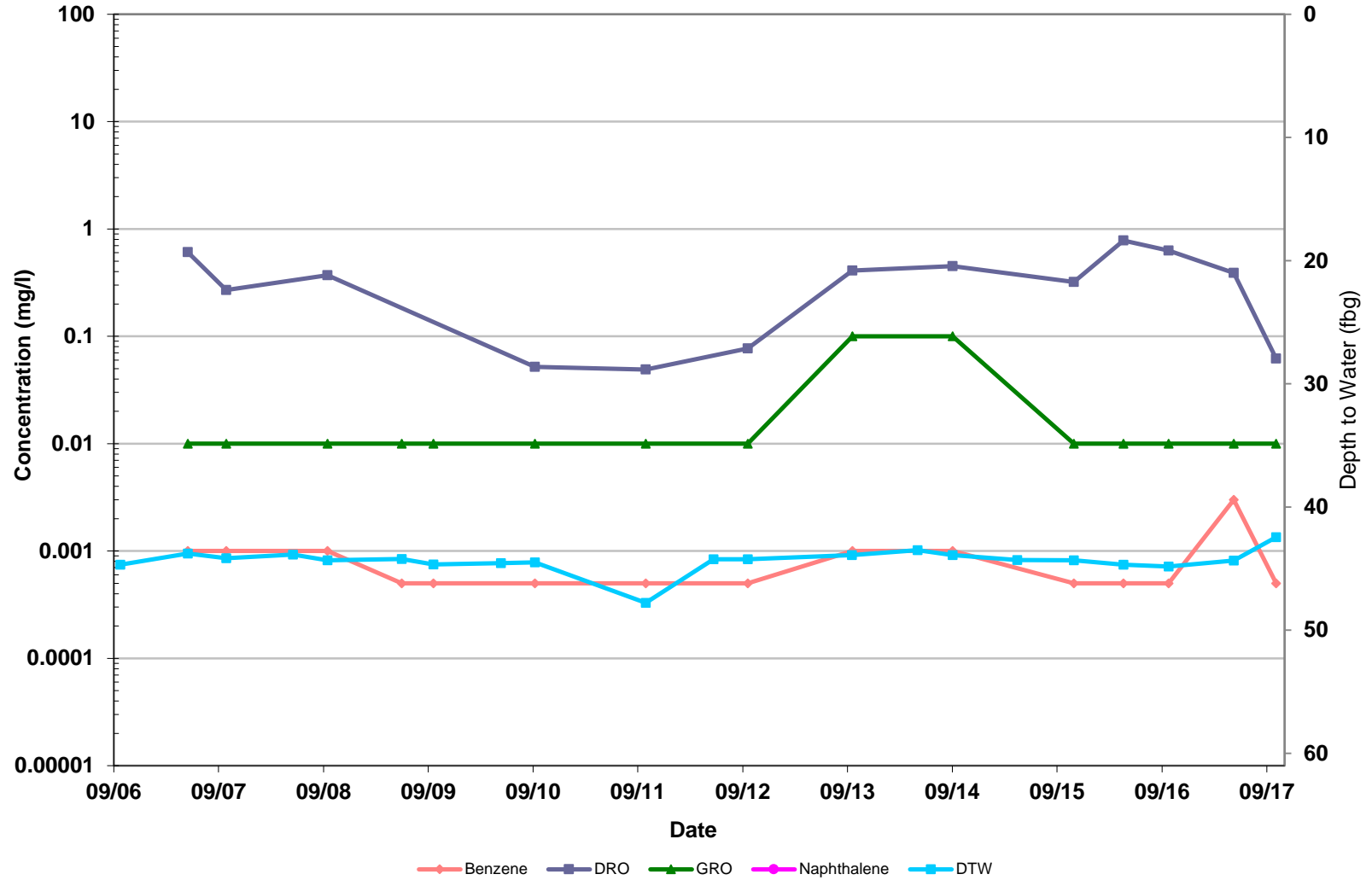
Former Chevron-Branded Service Station 96097  
303 W. Fireweed Ln.  
Anchorage, Alaska

# MW-12



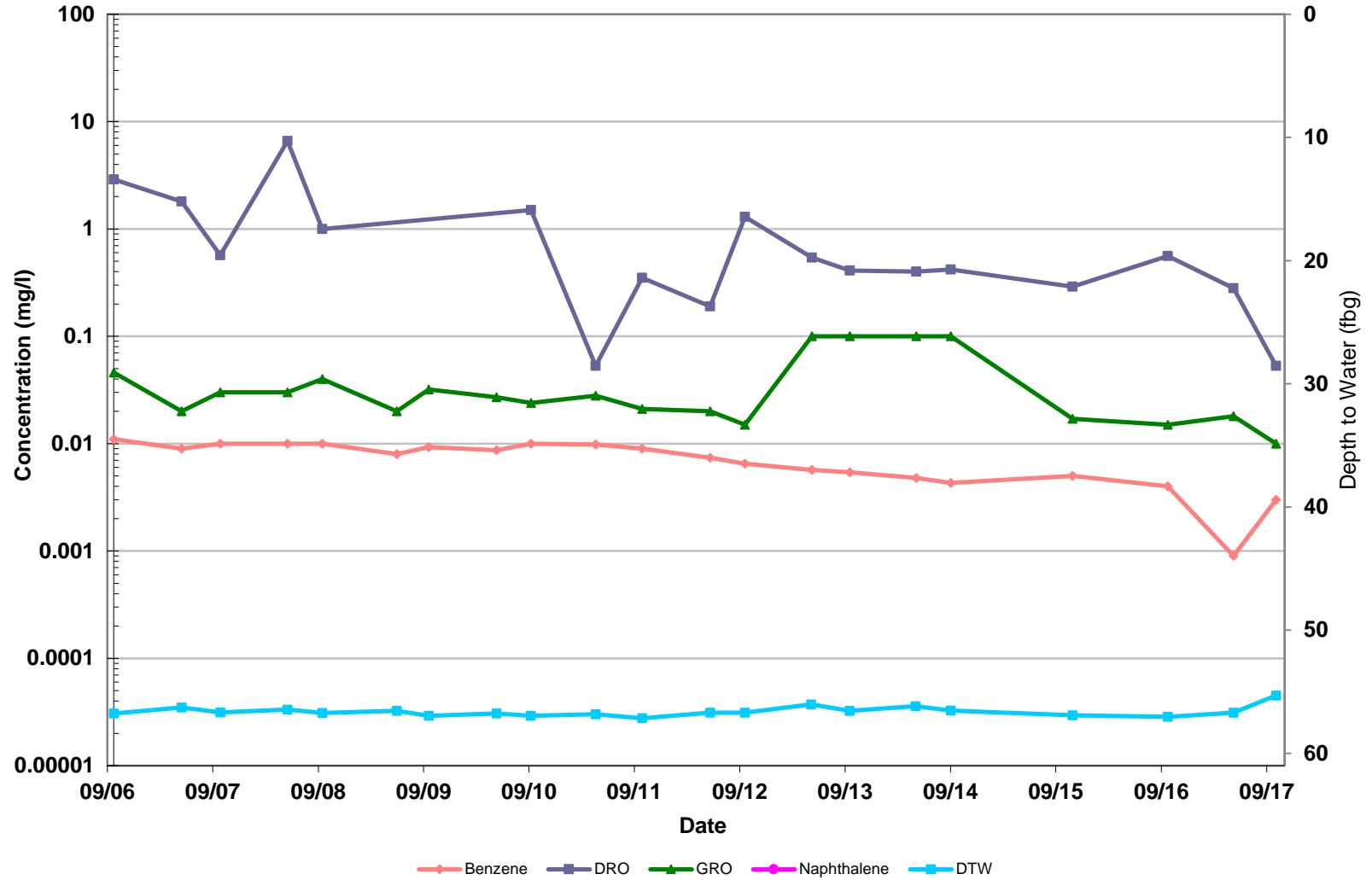
Former Chevron-Branded Service Station 96097  
303 W. Fireweed Ln.  
Anchorage, Alaska

# MW-13



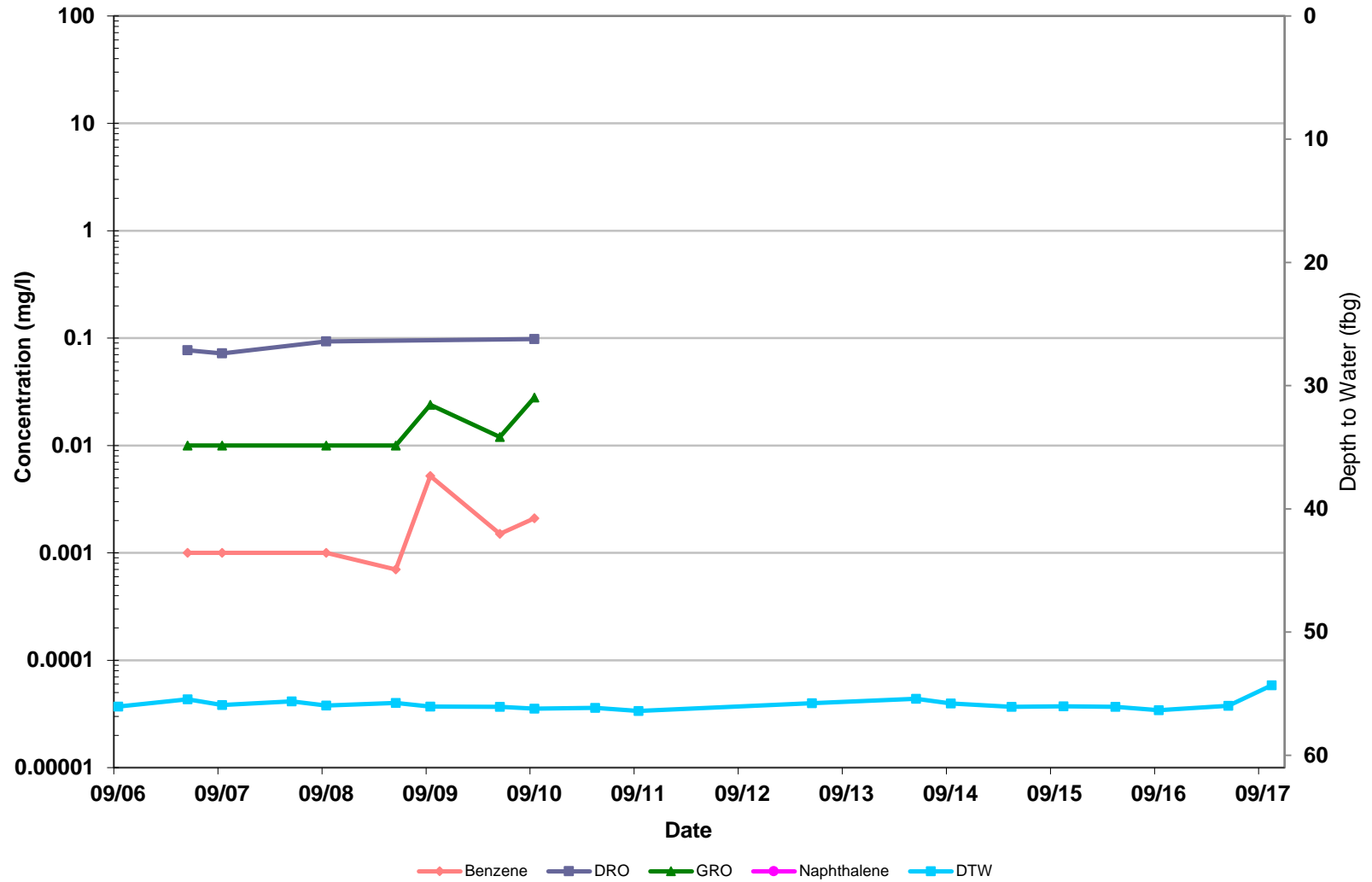
Former Chevron-Branded Service Station 96097  
303 W. Fireweed Ln.  
Anchorage, Alaska

# MW-14



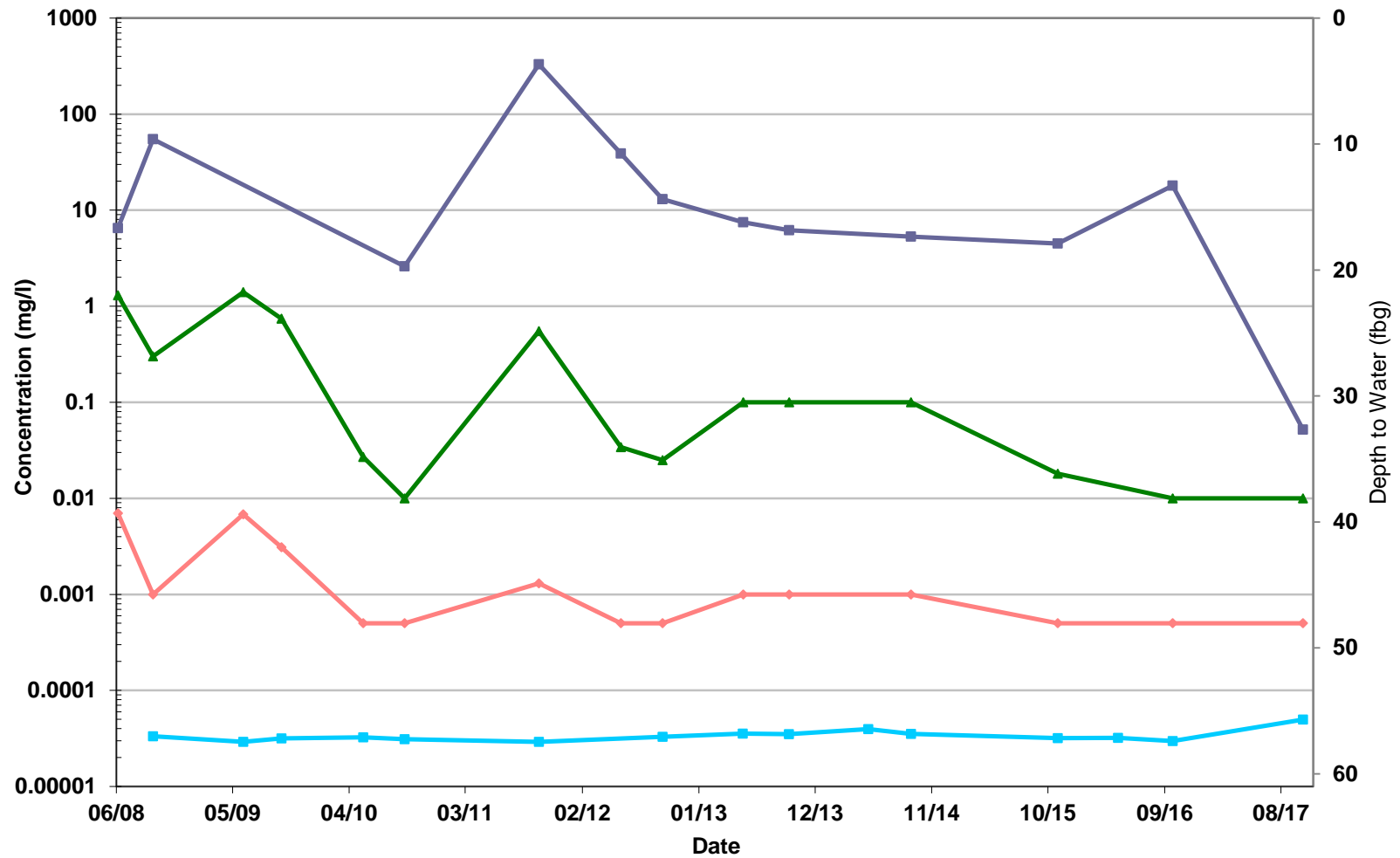
Former Chevron-Branded Service Station 96097  
303 W. Fireweed Ln.  
Anchorage, Alaska

# MW-15



Former Chevron-Branded Service Station 96097  
303 W. Fireweed Ln.  
Anchorage, Alaska

### MW-16

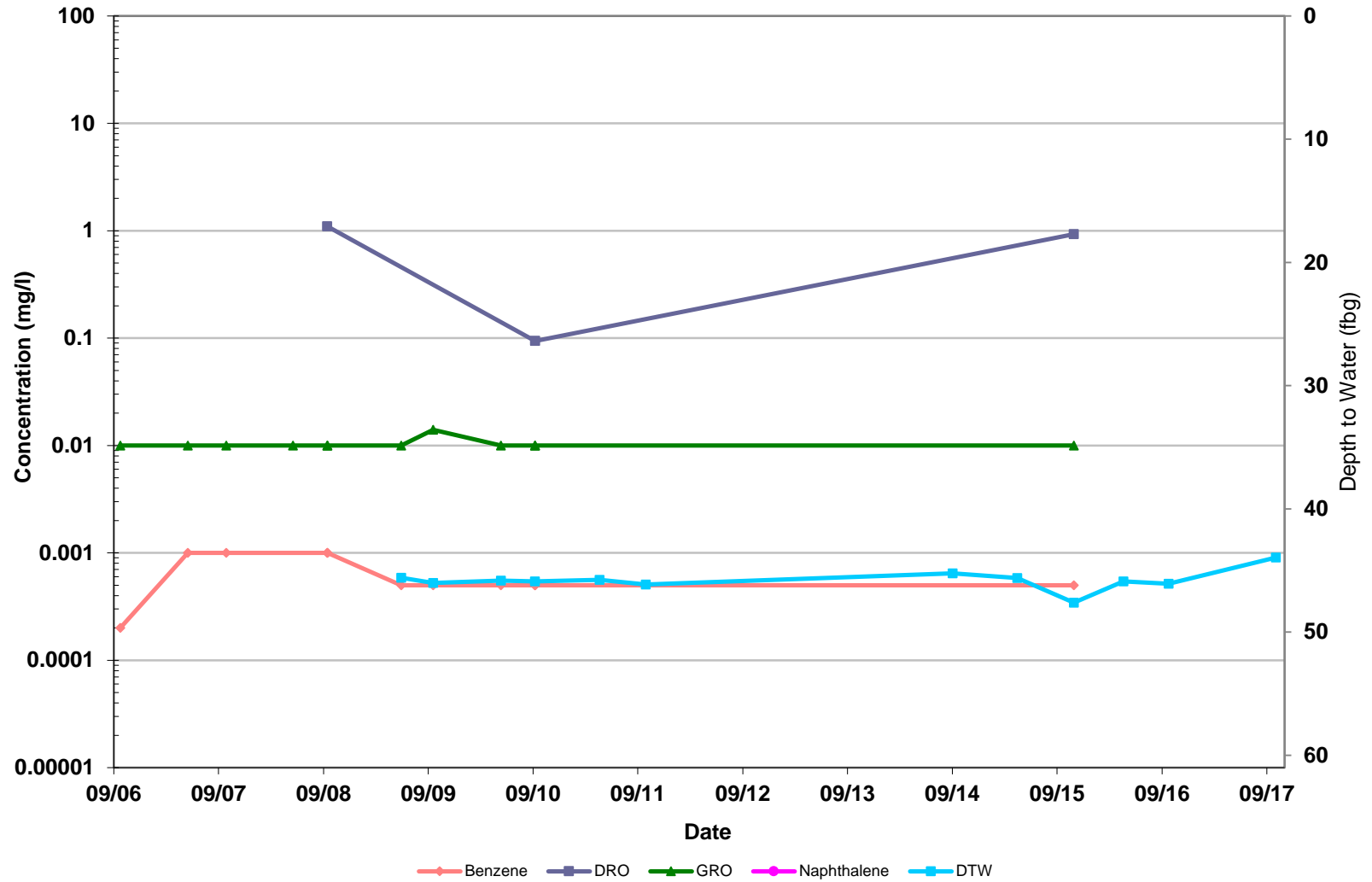


—◆— Benzene —■— DRO —▲— GRO —●— Naphthalene —□— DTW



Former Chevron-Branded Service Station 96097  
303 W. Fireweed Ln.  
Anchorage, Alaska

# MW-17



Former Chevron-Branded Service Station 96097  
303 W. Fireweed Ln.  
Anchorage, Alaska



# Appendix F ADEC Laboratory Data Review Checklist and Memorandum

## Laboratory Data Review Checklist

Completed by:

J Cloud

Title:

Project Chemist

Date:

November 28, 2017

CS Report Name:

Second Semiannual 2017  
Groundwater Monitoring  
Report

Report Date:

November 20, 2017

Consultant Firm:

GHD Services Inc.

Laboratory Name:

Eurofins Lancaster Laboratories Environmental

Laboratory Report Number:

1859370

ADEC File Number:

2100.26.007

Hazard Identification Number:

24073

1. Laboratory

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

Yes     No                      Comments:

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes     No                      Comments:

Samples not transferred

2. Chain of Custody (COC)

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

Yes     No                      Comments:

b. Correct analyses requested?

Yes     No                      Comments:

3. Laboratory Sample Receipt Documentation

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

Yes     No                      Comments:

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

Yes     No                      Comments:

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

Yes     No                      Comments:

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes     No                      Comments:

e. Data quality or usability affected?

Comments:

None

4. Case Narrative

a. Present and understandable?

Yes  No

Comments:

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

Yes  No

Comments:

c. Were all corrective actions documented?

Yes  No

Comments:

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

Comments:

None

5. Samples Results

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

Yes  No

Comments:

b. All applicable holding times met?

Yes  No

Comments:

c. All soils reported on a dry weight basis?

Yes  No

Comments:

No soils

d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

Yes  No

Comments:

e. Data quality or usability affected?

Comments:

None

6. QC Samples

a. Method Blank

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

Yes  No

Comments:

ii. All method blank results less than limit of quantitation (LOQ)?

Yes  No

Comments:

iii. If above LOQ, what samples are affected?

Comments:

No affected samples

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

Yes  No

Comments:

No affected samples

v. Data quality or usability affected?

Comments:

None

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes  No

Comments:

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

Yes  No

Comments:

No metals/inorganics

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

Yes  No                      Comments:

One method AK102 LCS/LCSD set had two low DRO recoveries

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

Yes  No                      Comments:

The method 8260 MS/MSD set had a high chloroethane RPD.

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

Comments:

MW-5, MW-7, MW-9, MW-10R and DUP-1

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

Yes  No                      Comments:

vii. Data quality or usability affected?

Comments:

The sample result associated with the high chloroethane RPD was non-detect and was not impacted. No qualification of the data was deemed necessary. The DRO results for samples MW-5, MW-7, MW-9, MW-10R and DUP-1 were qualified as estimated due to the implied low bias

c. Surrogates – Organics Only

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

Yes  No                      Comments:

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

Yes  No                      Comments:

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

Yes  No                      Comments:

No failed surrogates

iv. Data quality or usability affected?

Comments:

None

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and cooler?

Yes  No

Comments:

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

Comments:

iii. All results less than LOQ?

Yes  No

Comments:

iv. If above LOQ, what samples are affected?

Comments:

No affected samples

v. Data quality or usability affected?

Comments:

None

e. Field Duplicate

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

Yes  No

Comments:

ii. Submitted blind to lab?

Yes  No

Comments:

- iii. Precision – All relative percent differences (RPD) less than specified DQOs?  
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where  $R_1$  = Sample Concentration  
 $R_2$  = Field Duplicate Concentration

Yes  No      Comments:

The MW-5/DUP-1 set had high benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene and pyrene RPDs

- iv. Data quality or usability affected?

Comments:

The benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene and pyrene results for samples MW-5 and DUP-1 were qualified as estimated due to variability

- f. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below.)

Yes  No  Not Applicable

- i. All results less than LOQ?

Yes  No      Comments:

Not collected

- ii. If above LOQ, what samples are affected?

Comments:

Not collected

- iii. Data quality or usability affected?

Comments:

Not collected

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

- a. Defined and appropriate?

Yes  No      Comments:





# Memorandum

December 4, 2017

To: ADEC Ref. No.: 062328

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From: Jeffrey Cloud  Tel: 206-914-3141

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cc: Siobhan Pritchard

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**Subject: QA/QC Review  
ChevronTexaco Site 96097  
Job # 1859370  
October 2017**

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## 1. Introduction

This document details a reduced validation of analytical results for groundwater samples collected in Anchorage, Alaska during October 2017. Samples were submitted to Eurofins Lancaster Laboratories Environmental, located in Lancaster, Pennsylvania.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody form, finished report forms, method blank data, recovery data from surrogate spikes, laboratory control samples (LCS), matrix spikes (MS) and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods and applicable guidance from the document entitled "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008 subsequently referred to as the "Guidelines" in this Memorandum.

## 2. Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the analyses are summarized in the methods. The sample chain of custody document and analytical report were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).



### 3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

### 4. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC), semivolatile organic compound (SVOC), gasoline range organics (GRO) and diesel range organics (DRO) analysis were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Each individual surrogate compound is expected to meet the associated control limits with the exception of SVOC analyses. According to the "Guidelines" for SVOC analyses, up to one outlying surrogate in the base/neutral or acid fractions is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against the control limits. All surrogate recoveries met the associated criteria.

### 5. Laboratory Control Sample Analyses

Laboratory control samples (LCS)/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS and LCS/LCSD contained all analytes of interest. All LCS and LCS/LCSD recoveries and RPDs were within associated control limits, demonstrating acceptable analytical accuracy and precision (where applicable) with the exception of two low DRO recoveries. The DRO results for samples MW-5, MW-7, MW-9, MW-10R and DUP-1 were qualified as estimated due to the implied low bias.



## 6. Matrix Spike/Matrix Spike Duplicate Analyses

To evaluate the effects of sample matrices on the extraction process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as matrix spike/matrix spike duplicate (MS/MSD) samples. The RPD between the MS and MSD is used to assess analytical precision.

The MS/MSD samples were spiked with the analytes of interest. All percent recoveries and RPD values were within the associated control limits, demonstrating acceptable analytical accuracy and precision with the exception of one high chloroethane RPD. The associated sample result was non-detect and was not impacted. No qualification of the data was deemed necessary.

## 7. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample and two field duplicate sample sets.

### *Trip Blank Sample Analysis*

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for analysis. All results were non-detect for the analytes of interest.

### *Field Duplicate Sample Analysis*

To assess the analytical and sampling protocol precision, two field duplicate samples were collected and submitted "blind" to the laboratory. The RPDs associated with these duplicate samples must be less than 50 percent. If the reported concentration in both the investigative sample and its duplicate is less than five times the reporting limit (RL), the evaluation criterion is one times the RL value.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision with a few exceptions. The benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene and pyrene results for samples MW-5 and DUP-1 were qualified as estimated due to variability.

## 8. Analyte Reporting

Non-detect data were reported down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the reporting limit (RL) but greater than the MDL were reported as estimated (J).

## 9. Conclusion

Based on the assessment detailed in the foregoing, the summarized data are acceptable with the specific qualifications noted herein.